

BLUE GRASS ENERGY COOPERATIVE CORPORATION

A Touchstone Energy Cooperative



**KENTUCKY 64 JESSAMINE
NICHOLASVILLE, KENTUCKY**

CONSTRUCTION WORK PLAN
October 1, 2006 ~ September 30, 2009

KY PSC CASE 2006-00540

October 2006

by:

Gary Grubbs, PE

Patterson & Dewar Engineers, Inc.

P.O. Box 2808, Norcross, Georgia 30091-2808

850 Center Way, Norcross, Georgia 30071-4844

Phone: 770-453-1410 FAX: 770-453-1411

www.pd-engineers.com

**BLUE GRASS
ENERGY COOPERATIVE CORPORATION**

**KENTUCKY 64
NICHOLASVILLE, KENTUCKY**

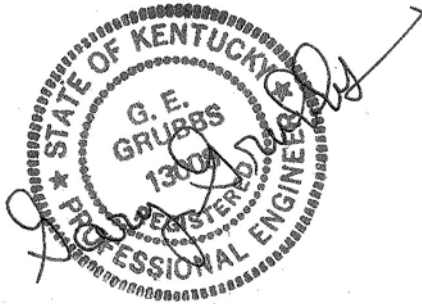
CONSTRUCTION WORK PLAN (CWP)
October 1, 2006 – September 30, 2009

ENGINEERING CERTIFICATION

Upon completion of the construction proposed herein, the above indicated electric distribution system can provide adequate and dependable service to approximately 57,825 customers with residential using a monthly average of 1,279 kilowatt-hours per consumer. The peak demand (normal 50%) is estimated to be approximately 278,000 kW in the summer of 2009 and 358,000 kW in the winter of 2009-2010.

I certify that this 2006-2009 Construction Work Plan was prepared by me or under my direct supervision, and that I am a duly registered professional engineer under the laws of the State of Kentucky.

Patterson & Dewar Engineers, Inc.



Gary Grubbs
Kentucky P.E. No. 13008



**Blue Grass Energy
Cooperative Corporation**

PO Box 990
1201 Lexington Road
Nicholasville, Kentucky 40340-0990
Phone: (859) 885-4191
Fax: (859) 885-2854

OCTOBER 2006

ENVIRONMENTAL REPORT

KY 64

2006-2009 Construction Work Plan

The projects in this work plan consist of code 300 line conversions and conductor replacements only.

Dan Brewster - CB
President and CEO



**United States Department of Agriculture
Rural Development**

OCT 30 2006

OCT 25 2006

Mr. Dan Brewer
President and CEO
Blue Grass Energy Cooperative Corporation
P.O. Box 990
Nicholasville, Kentucky 40340-0990

Dear Mr. Brewer:

We have reviewed the Environmental Report (ER) covering all the facilities recommended in your 2006-2009 Construction Work Plan (CWP). The ER is complete and complies with all requirements of 7 CFR Part 1794, Environmental Policies and Procedures. We have determined that the projects proposed in your CWP are categorical exclusions and no further environmental documentation unless the projects change from those described in the ER.

Blue Grass Energy Cooperative Corporation is responsible for ensuring that any environmental commitments made in the ER are fulfilled in the construction of the projects whether by construction contract or by force account labor.

Thank you for your assistance and cooperation in helping us fulfill our environmental review requirements. If you have any questions, please contact me at (202) 720-1994.

Sincerely,

A handwritten signature in black ink, appearing to read "Charles M. Philpott". The signature is fluid and cursive.

CHARLES M. PHILPOTT
Chief, Engineering Branch
Northern Regional Division
USDA Rural Development-Utilities Programs

1400 Independence Ave, S.W. · Washington DC 20250-0700
Web: <http://www.rurdev.usda.gov>

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EXCERPT FROM MINUTES DATED October 16, 2006

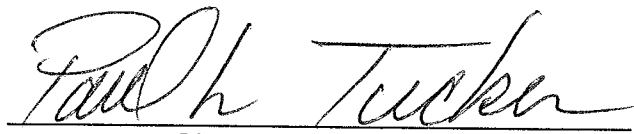
RESOLUTION

"WHEREAS, a Three-Year Construction Work Plan dated 2007-2009 in the amount of \$41,398,230 has been prepared by Patterson & Dewar Engineers, Inc.

"NOW, THEREFORE, BE IT RESOLVED, that the Board of Directors of Blue Grass Energy Electric Cooperative Corporation hereby approves the 2007-2009 Work Plan as a plan of action, to be followed, or until amended with the approval of RUS."

CERTIFICATE OF SECRETARY

I, Paul L. Tucker, Secretary of Blue Grass Energy Electric Cooperative Corporation hereby certify that the foregoing is a true and correct copy of an excerpt taken from the minutes of a regular meeting of the Board of Directors held on October 16, 2006.

A handwritten signature in cursive script that reads "Paul L. Tucker". The signature is written in black ink and is positioned above a horizontal line.

Signature of Secretary

October 19, 2006

2006-2009 Construction Workplan (CWP)

Dan Brewer, President and CEO
Blue Grass Energy Cooperative Corporation

I have completed my review of the cooperative's 2006-2009 CWP, which was prepared by Gary Grubbs, Patterson & Dewar and Chris Brewer, and find it to be generally satisfactory for loan contract purposes. Approval to proceed with the proposed distribution system construction is contingent upon RUS's review and approval of an Environmental Report (reference 7 CFR 1794).

Headquarters, SCADA, and load management projects will be reviewed/approved by the Northern Regional Division office, as necessary. This action will be taken after their receipt of the CWP and other supporting documents (i.e., appropriate feasibility and engineering studies).

You should make a special effort to inform all of the cooperative's employees and contractors, involved in the construction of utility plant of any commitments made in the Environmental Report covering the construction of the facilities recommended in the CWP.

Changes (line improvements, tie lines, extensions, substations, etc.) in the CWP will require RUS approval. The environmental acceptability of any such changes shall also be established in accordance with 7 CFR 1794. The procedure for satisfying these environmental requirements shall be the same as that used in connection with this CWP approval.

It is your responsibility to determine whether or not loan funds and/or general funds are available for the proposed construction. If general funds are used, the requirements as outlined in 7 CFR 1717 need to be followed.

The construction shall be accomplished in accordance with RUS requirements. Specific reference should be made to 7 CFR 1726, Electric System Construction Policies and Procedures.



Mike Norman
RUS Field Representative

Anticipated Annual Additional Cost of Operation After Completion of all CWP Projects:

Estimated Depreciation:

<i>Account No.</i>	<i>Balance 9/30/2006</i>	<i>Monthly Rate X 12</i>	<i>Depreciation</i>	<i>per cent of total</i>	<i>Estimated Capitalization</i>	<i>Estimated Depreciation</i>
36200	\$620,700.65	2.95%	\$18,310.67	0.40%	\$166,959	\$4,925
36400	\$42,594,578.64	3.50%	\$1,490,810.25	32.84%	\$13,593,375	\$475,768
36500	\$34,563,744.60	2.55%	\$881,375.49	19.41%	\$8,036,480	\$204,930
36700	\$7,781,851.27	2.65%	\$206,219.06	4.54%	\$1,880,328	\$49,829
36800	\$25,485,670.59	2.85%	\$726,341.61	16.00%	\$6,622,864	\$188,752
36900	\$21,536,661.40	3.35%	\$721,478.16	15.89%	\$6,578,519	\$220,380
37000	\$7,645,265.51	3.15%	\$240,825.86	5.30%	\$2,195,877	\$69,170
37100	\$3,680,168.23	4.15%	\$152,726.98	3.36%	\$1,392,582	\$57,792
37300	\$2,043,478.03	5.00%	\$102,173.90	2.25%	\$931,633	\$46,582
39000						\$0
	\$145,952,118.92		\$4,540,261.98	100.00%	\$41,398,617	\$1,318,128

Estimated Property Taxes:

<i>2005 Taxes</i>	<i>Property @ 12/31/05</i>	<i>Average Rate</i>	<i>Work Plan Amount</i>	<i>Estimated Taxes</i>
\$1,269,316	\$128,182,696	0.99%	\$41,398,617	\$409,945

Estimated Interest Expense:

<i>Plant</i>	<i>Estimated Interest Rate</i>	<i>Estimated Interest Expense</i>
\$41,398,617	5.00%	\$2,069,931

Estimated Operation and Maintenance Expense:

<i>Plant</i>	<i>Estimated O&M %</i>	<i>Estimated O&M Expense</i>
\$41,398,617	3.92%	\$1,622,826

Estimated cost of operation after the proposed facilities are completed:

\$5,420,830

KENTUCKY MAP WITH BLUE GRASS ENERGY'S SERVICE AREA NOTED

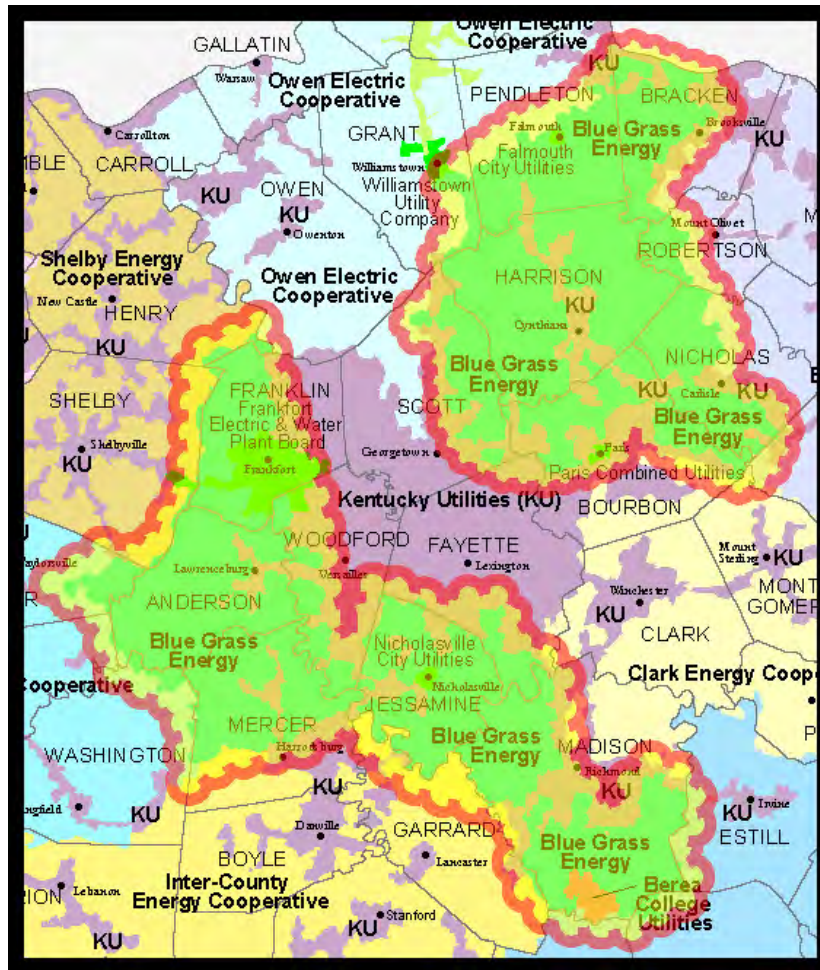
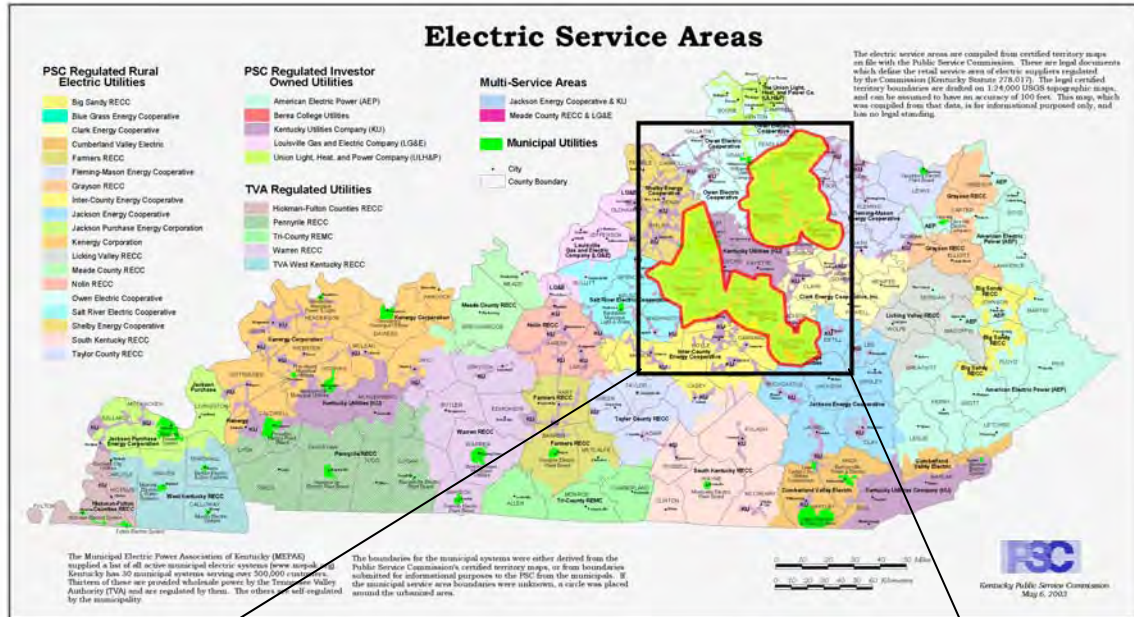


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(For copy of RUS Form 740c, future CWP amendments, etc.)

NO MISCELLANEOUS MATERIAL AT PRESENT TIME

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ALL MAPS ARE CONTAINED IN THE ACCOMPANYING FILE NAMED: BGE_maps_voltage_mmdyy.pdf

BLUE GRASS ENERGY COOPERATIVE CORPORATION

**Kentucky 64 Jessamine
Nicholasville, Kentucky**

10/06 ~ 9/09 CONSTRUCTION WORK PLAN

October 1, 2006

I. EXECUTIVE SUMMARY

A. Purpose, Results and General Basis of Study

This report documents the Winter 2005-2006 system engineering analysis, and summarizes the proposed construction for Blue Grass Energy Cooperative Corporation's (BGE's) electric distribution system for the three-year period of Oct 1, 2006 through September 31, 2009.

The proposed construction program is to be financed by the Rural Utilities Service, (RUS) ~ formerly the Rural Electrification Administration (REA), and/or a supplemental lender. This report provides engineering support, in the form of descriptions, costs, and the justification of required new facilities, as required for an RUS loan application.

Upon construction completion of the proposed facilities, the BGE distribution system can provide adequate and dependable service to following approximate customer count:

Classification	Count	Usage kWh/ Month
Residential	55,487	1,279
Small Commercial	2,270	4,833
Large commercial	17	1,588,916
Total	57,774	~

The 2009 projected number of consumers and total peak system load were taken directly from the Cooperative's 2006 Load Forecast Report (LFR) as approved by RUS. The 50% probability winter extreme highest KW demand was used for the loading conditions for the next three years. This loading level was agreed to by BGE management and the RUS General Field Representative (GFR).

A review of BGE's 2004 Long Range System Study (LRSS), finds the load projections and recommendations to be adequate for the three-year planning period.

The cooperative's Operations and Maintenance Survey (Review Rating Summary - RUS Form 300), was completed on September 16, 2005. Several items were identified for improvements but no recommendations requiring capital funds were listed.

An analysis of thermal loading, voltage drops, physical conditions and reliability, has been performed on all substations, distribution lines, and major equipment of the existing and base system subjected to the peak winter 2005-2006 conditions. The existing base system model has also been grown to the projected winter 2009-2010 loading to develop a future system model.

The projected future loading is in agreement with the currently approved 2006 LF. The basis of the system analysis is the RUS guidelines and BGE's system design and operating criteria.

The summer 2006 system was also reviewed as portions of BGE's system peak in the summer and not in the winter.

The analyses indicated above utilized Milsoft Utility Solution's (MUS's) WindMil (WM)® software, and the results were used as the basis for determining the capital needs for BGE's electric distribution system. The base system computer model was validated using actual line voltage readings made in the field.

B. Service Area, Distribution System and Power Supply

The corporate office of Blue Grass Energy Cooperative Corporation is located in Nicholasville, KY. BGE consists of four operating districts: Nicholasville, Madison, Fox Creek and Harrison. Electric service is supplied to major portions of the rural areas of the following counties grouped by each district.

The *Nicholasville District* and *Madison District* serve much of the rural area to the south of Lexington, Kentucky and include portions of Fayette, Jessamine and Madison Counties. The Kentucky River divides the service territory. Much of BGE's growth in this area can be contributed to its close proximity to Lexington, which is easily accessible by Highways 68 and 27, and Interstate 75.

The *Fox Creek District* is located to the west of Lexington and around the state capitol of Frankfort. In this district BGE serves most of the rural areas of Anderson County and portions of Woodford, Mercer and Franklin Counties. Much of the growth in this area is attributed to its close proximity to the cities of Lawrenceburg, Versailles and Frankfort; and the Blue Grass Parkway lends easy access to Lexington. Interstate 64 runs along the northern portion of the Fox Creek District and the Blue Grass Parkway traverses the southern portion of the district.

The *Harrison District* is located to the northwest of Lexington. In this district, BGE serves most of the rural areas of Harrison County and portions of Scott, Bourbon, Nicholas, Bracken, Pendleton, Robertson and Grant Counties. Much of the present growth in this district lies east of the city of Georgetown, which has a new residential subdivision and industrial park that will be served by BGE. The local economy is somewhat dependent upon the automotive manufacturing industry present in Georgetown. Highway 27 and 62 intersect in the center of this district.

BGE operates over 4,440 miles of line within the aforementioned four districts. The primary voltage is 7.2/12.47 kV grounded wye for the Nicholasville, Madison and Harrison Districts. The Fox Creek primary system operates presently at two primary voltages: 7.2/12.47 kV and 14.4/25 kV grounded wye. There are a total of 34 distribution substations presently serving the entire BGE system. Six of the substations/transformers are dedicated primarily to industrial with a few small commercial loads.

The following data was taken, or derived, from Blue Grass Energy Cooperative Corporation's December 2005 RUS Form 7:

Number of Consumers	=	52,741	
KWh Purchased	=	1,242,478,615	
KWh Sold	=	1,187,056,074	
KWh Used by Company	=	1,039,336	
KWh Unaccounted for	=	54,383,205	
KWh losses (%)	=	4.38%	
Max. NCP kW Demand	=	290,102	(January 2005)
Total Distribution Plant	=	\$138,021,853	
Miles of Distribution	=	4,440	
Consumers per Mile	=	7.85	
Annual Load Factor	=	48.9%	

Service is provided to BGE members through 34 delivery points.

BGE's power supplier is East Kentucky Power Cooperative (EKPC); an RUS financed generation and transmission cooperative. EKPC's office headquarters is located in Winchester, Kentucky. As power supplier, EKPC accommodates all the generation, transmission and substation requirements of BGE and other cooperatives located in the central and eastern half of Kentucky.

BGE takes delivery from EKPC at the distribution voltages of 7,200/12,470 and 14,400/24,940-volts.

C. System Organization and Operation

BGE's headquarters as mentioned earlier is located in Nicholasville, Kentucky. The present organization is comprised of the previously separate cooperatives of Blue Grass RECC, Fox Creek RECC and Harrison RECC. Major engineering and management decisions come through the Nicholasville office. The system is operated and maintained under the leadership of a Vice President of Operations and a Vice President of Engineering. Additional support staff of technicians, administrators and aides, compliments the system operations.

BGE utilizes contract staking and construction crews for mainly large system improvement type projects.

BGE's service territory is firmly established by Kentucky statutes. Consumers locating within BGE's territorial boundaries are required to be served by BGE.

D. Status of Previous Work Plan Projects

This CWP summarizes the current status of the previous work plan site-specific projects. The status of each project is identified as follows:

- COMP ~ Complete
- CPC ~ Complete Pending Closeout
- DEL ~ Deleted
- NP ~ No Progress
- IP ~ In Progress

BGE currently has approximately 537¹ miles of aged copper single-phase primary conductors and 7¹ miles of aged copper three-phase primary conductors on their system. In addition to the aged copper lines BGE has 129¹ miles of aged three-phase 4 ACSR and 2,095¹ miles of aged one-phase 4 ACSR lines. Replacement of said conductor is based upon loading and operational criteria. This work plan recommends replacing approximately 6% (162 miles) of these aged lines.

E. Summary of Construction Program and Costs

The costs of the recommended distribution plant changes over the next three years have been projected as follows:

	With AMR	Without AMR
2007	\$16,150,510	\$13,216,510
2008	\$12,632,640	\$12,632,640
<u>2009</u>	<u>\$12,615,080</u>	<u>\$12,615,080</u>
Total	\$41,398,230	\$38,464,230

By comparison, the annual totals for distribution plant additions and replacements during the five previous years are as follows:

2001	\$6,498,135
2002	\$6,450,032
2003	\$6,740,477
2004	\$10,532,477
2005	\$10,726,097

This data mentioned above was taken from BGE’s five previous year-end *Financial and Statistical Report*, Line 15, page 3 of the RUS Form 7. Capital expenditures projected for this CWP have increased over past plant expenditures due to material price increases and system improvement increases; however, they remain reasonable.

A major system improvement cost in this CWP, as in the 04/05 CWP, is the installation of a new automatic meter reading (AMR) system. The new system was justified after the completion of an in-house financial study. The minimum benefits anticipated from the new system are:

- Recover unbilled revenue,
- One-month cash flow recovery,
- Levelized staff workload,
- Outage notification,
- Electronic disconnect / reconnect,
- Power theft reduction,
- Improved service to consumers.

A further breakdown of the construction program cost is summarized as follows:

	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>Totals</u>
New Construction	= \$12,077,910 ²	\$ 9,142,640	\$9,248,580	\$30,469,130
System Improvements	= <u>\$ 3,992,600</u>	<u>\$ 3,570,000</u>	<u>\$ 3,366,500</u>	<u>\$10,929,100</u>
CWP Totals	= \$16,070,510	\$12,712,640	\$12,615,080	\$41,398,230

¹ The total mileage of each conductor is continually changing due to ongoing replacements.

² Increased costs in 2006 are due to the closing-out of several projects initially started prior to WP period.

The total amount above is eligible for RUS loan funds. Each capital item recommended herein was reviewed with engineering and management staff prior to inclusion in this CWP. Approximately 60% of the total capital is for new construction and miscellaneous distribution equipment, leaving approximately 40% for system improvements.

II. BASIS OF STUDY AND PROPOSED CONSTRUCTION

A. Design and Operational Criteria

Exhibit L presents BGE's System Design and Operational Criteria (SDOC). On September 23, 2006, the Kentucky RUS General Field Representative, (GFR), reviewed and concurred with BGE's criteria. The proposed construction as outlined in this 2007-2009 CWP is necessary for meeting the minimum standards set forth in the system's design and operational criteria.

The criteria presented herein are for use in design and operational guidelines only. System conditions may result in a breach/change of a specific criterion.

B. Historical Line and Equipment Costs

Exhibit B presents the historical and projected unit cost averages for new services and new construction. The cost calculations utilize data encompassing a 24-month period ending December 31, 2005.

Line Construction projects are grouped by project type and the averages are expressed on a cost per mile basis. Several of the projected conversion costs do not have a historical cost to reference. These estimates are tabulated, but the cost utilized is based on other system experiences.

C. Analysis of Current System Studies

1. 2006 Load Forecast (LF)

The 2006 Load Forecast Report was approved by BGE's Board in June 2006. The report was prepared by EKPC in cooperation with BGE's management and staff. The report utilized statistical models to forecast future energy and demand requirements. EKPC provided the economic, demographic, and weather information. BGE personnel provided historical information, system specific assumptions, and large commercial and industrial projections. The EKPC staff developed the LF database and forecasting models, and produced the final report.

The LF projected kilowatt-hour sales as well as non-coincident peak kW demands for the period 2006-2025. A 2.6% per year growth in energy sales was projected for the period. Winter and summer peak kW demands were projected to grow approximately 2.5% and 2.6% per year, respectively. The system annual load factor was expected to remain at the 45.5% level with a slight expectation of a decline in the latter years. The LF offers various projection scenarios for planning purposes and they are as follows:

Winter Peaks	Summer Peaks
Mild	
Normal	Normal
Extreme*	Extreme*
Optimistic	Optimistic
Pessimistic	Pessimistic

*With projections of 20%, 10% and 3% probability of occurrence.

Generally, the normal and mild weather LF scenarios mentioned above are used in the preparation of rate studies and financial forecasts to determine realistic revenue projections. The severe or extreme weather scenarios are used for system capacity planning. This is to

assure that adequate capital expenditures are identified for system capacity in order to provide reliable and quality service to the customer. The extreme winter and summer scenarios with a 20% probability of occurrence were used in this work plan for the future system substation loading conditions.

2. 2004 Long Range System Study (LRSS)

Distribution System Solutions, Inc. prepared a ten-year LRSS for BGE’s distribution system in April of 2004. RUS’s (REA’s) approval was granted in the spring of 2004. The system configuration and the loads for the winter of 03/04 form the basis for the LRSS.

The December 2003 non-coincident peak load was 287,722 kW. The LRSS projected the system to grow from the 287,722 kW level in 2003 at the average annual growth rate of approximately 5.7 percent per year to 501,000 kW in the year 2014. Three intermediate load levels were analyzed: Level A ~ The estimated 2006 load of approximately 321 MW, representing a 11.6% increase for the three year growth; Level B ~ The estimated 2010 System load of approximately 401 MW, representing a 39.4% increase for the six year period of growth; and Level C ~ The estimated 2014 System load of approximately 501 MW representing a 74% increase for the 10 year period of growth. These levels were based on projections approved and set by the prior 2002 BGE Power Requirements Study.

A comparison of the currently approved 2006 Load Forecast Report and the LRSS for total consumers and total system kW demands is as follows:

2004 LRSS Load Levels		2006 LF Projections		LRSS	
Level	Year	Consumers	MW*	Consumers	MW
Load Level A	2006	53,417	355		321
Load Level B	2010	59,319	400		401
Load Level C	2014	65,233	441	65,700	501

*For Extreme winter (20% probability)

The above projected LF 2010 demand reflects a percent difference of only 0.25% from the 2010 LRSS. The current LRSS should be valid for recommendations over the next 3 years (2006 ~ 2009 CWP).

The 2006 LF does project a long range kW peak level that is approximately 13.5% lower than the LRSS. This difference is considered acceptable understanding the studies are looking at system conditions 10 years in the future. Consideration should be given for a new LRSS prior to the 2012 to 2013 time range when the current LRSS will be almost 10 years old. This time range assumes no other system changes warranting a new study sooner.

The LRSS determined the most economical approach for BGE is to continue voltage conversions in the Fox Creek District and to remain at the 7.2/12.47 kV primary distribution level in the other three districts.

The LRSS also recommends BGE standardize on three-phase line construction using primarily 1/0 ACSR, 336 kcmil and 556 kcmil ACSR conductor sizes. Exhibit N provides a summary of the current Economical Conductor Analysis that agrees with the recommendations of the LRSS.

In summary, the LRSS appears to be valid for the next 3 years including system improvements necessary to satisfy current and projected system needs through the year 2009. Recommendations incorporated in this CWP are in compliance with the current LRSS.

3. 2005 Operations and Maintenance Survey (RUS Form 300)

In September 2005 BEG personnel met with the RUS GFR and conducted a review of BGE's facilities and records. This review included substation monthly reports, monthly outage records, and other equipment maintenance records. This review was used as a basis for completing the RUS Form 300, Review Rating Summary, and is included herein as Exhibit M. This survey is used for identifying maintenance, operational and capital needs necessary for proper operation of the electrical distribution system.

In general, the overhead and underground distribution facilities were found to be in satisfactory condition. Likewise, nearly all of the operations, maintenance and engineering programs were found to be satisfactory with no major capital items identified or recommended.

No items were noted on the O&M Survey which requires corrective action.

Several items were noted for improvement; however, no corrective action was recommended. A summary of those items are given as follows:

- Telephone poles left standing after pole replacement should be removed.
- Cable TV attachments need to be monitored continuously for compliance with the NESC.
- Non-yard trees in the right-of-way should be removed, not just trimmed.
- A computerized maintenance program should be developed to work in conjunction with the newly implemented GIS.

D. Historical and Projected System Data

1. Annual Consumer, Load, and Losses Data

Exhibit A tabulates the annual system data for consumers, system peak demand, losses, and annual load factor. The exhibit provides both data and graphs for the actual conditions for 1996 through 2005 and for the projected years of 2006 through 2015.

The distribution system exhibits a growth in peak demand from 172.7 MW in the winter of 1989~1990 to 300.3 MW by the winter 2005~2006. This represents approximately a 3.5 percent per year growth rate.

The system is experiencing an annual 3% growth in consumers. There were 33,583 consumers in 1990, increasing to 52,068 in 2005. The three year 2009 projection is 57,825 total consumers. This growth rate is expected to continue for the long range.

The annual total distribution non-coincident peak (NCP) load factor was 49.7 percent for 2006. BGE's distribution load factor has ranged from a low of 39.5% to a high of 52.1% over the past twenty years depending on the severity of the summer and winter peaks. A load factor of approximately 46% was used in the LF to project the worst case scenarios, and is also used in the preparation of this work plan.

The annual distribution system losses were 4.4% for 2005. The 2005 total energy sales for BGE were 1,187,056,074 kWh. With 4,440 miles of distribution line, the 1,000 kWh billed per mile per year ratio calculates to be 267. According to REA Bulletin 45-4, the acceptable loss for this ratio is approximately 8.2 percent. BGE's losses in recent years have averaged 5.2%, which is well within RUS' established guidelines.

2. Special Loads

Several spot loads were accounted for in this Work Plan.

3. Substation Load Data

Exhibit O, pages 1 through 3, summarizes the substation loading and capacities for both existing summer 2006 and winter 2005-2006 system peak conditions. The projected winter 2009-2010 conditions with and without the recommended system improvements are also presented, as well as the peak summer 2009 with and without the recommended system improvements. The exhibit identifies each substation, its voltage levels, winding capacity, percent of full load, percent power factor, and total peak demand. The loading is given in percent of full load rating of the substation transformer as provided by EKPC. All substations are owned and operated by EKPC.

BGE's System Design and Operational Criteria (SDOC), Exhibit L, establishes that a substation's current loading condition is not to exceed 95 percent of its full nameplate KVA capacity without planning its uprating. This criterion also matches EKPC's policy. Currently four of BGE's substations are loaded over this level.

Adequate and reasonable power factor levels are currently being maintained on all substations on BGE's system. A capacitor study is included as Exhibit I of this Work Plan.

Specific recommendations concerning substations are presented in Section III D.

4. Circuit Loading and Voltage Conditions

The 2005-2006 non-coincident winter distribution peak for BGE was 285.4 MW established during December 2005. The corresponding peak kWh consumer billing data (January 2006) was used to develop the base system model for the peak 2005-2006 winter conditions.

During December 2006 the system served approximately 52,741 consumers with each residential consumer averaging 1,256 kilowatt-hours each.

Appendix I presents the primary analysis for the base Winter 2005-2006 system.

The primary analysis provides the following system parameters.

- Circuit loading by substation and by line section.
- Unregulated voltage drops on 120-volt base (by section and accumulated total).
- Annual primary losses in dollars per section.
- Number consumers served through each section, circuit, and substation.
- Circuit primary conductor size and miles from sub.
- Fault current levels by fault types; maximum three-phase, maximum phase-to-ground, and minimum phase-to-ground.

Map 1 is a circuit diagram of BGE's primary electric system illustrating voltage conditions of the base winter 2004-2005 system.

Similarly, **Appendix 2** presents the primary analysis of the summer 2006 system. BGE's peak loading has generally occurred in the winter. Portions of the system have however, peaked in the summer. That is why the summer conditions have been included herein and were reviewed.

Appendix 3 is a primary analysis of the existing 2005-2006 system configuration with the projected future 2009-2010 peak winter conditions. This analysis provides a picture of the system of the future if no system improvements were accomplished. This analysis was the primary basis for most of the system improvements called for in this work plan.

To show that the recommended improvements are valid, **Appendix 4** is given. It reflects the future 2008-2009 winter system after completion of the system improvements. Map 2 is a circuit diagram picture of what the system will be after completion of this CWP.

Through the use of line voltage regulators and capacitors, adequate system voltages are being maintained for current system conditions. In anticipation of future system loading conditions, some line voltage regulator and capacitor changes will be necessary to maintain adequate voltage. Those select areas are discussed in detail in Section III D.

5. System Outages and Reliability

BGE maintains daily outage reports and prepares monthly and annual summaries. A periodic review of those summaries reveals areas requiring system changes or right-of-way maintenance. Exhibit S presents a summary of the consumer outage hours for the five previous years.

The five year (2001-2005) consumer outage average is 2.62 (6.05 including 2003 major storm) hours per consumer per year, which is well below RUS's guideline of 5.0 hours per consumer per year. BGE will shortly begin work on the recommended components of a newly developed Sectionalizing study.

III. REQUIRED CONSTRUCTION ITEMS

A. Service to New Consumers

During the 24 month period ending December 31, 2005, BGE added 3,592 underground and overhead services for new consumers. The average line extension cost for each new service is approximately \$2,885. It is estimated that 5,400 new underground and overhead services will be built over the next three years. Extending these costs for underground and overhead services on a per unit basis, it is estimated that over the next three years \$15,579,000 in capital will be required to construct the new lines. This calculates to be an average of \$5,193,000 per year.

Exhibit B summarizes the historical data used in projecting the required capital for the new services. Transformer, meter, and security light quantities and costs are also given in this exhibit. Exhibit D summarizes the costs on an annual basis. Approximately 37.5% of the capital required for this work plan is estimated to be for new consumer services.

B. Service Changes to Existing Customers

For the 24 month period ending December 31, 2005, BGE increased the service wire capacity of 363 consumers. On this basis BGE is expected to upgrade 540 services during the next three years. The average cost for each service upgrade is approximately \$2,094. This yields a capital requirement of \$1,130,580 for the CWP period.

C. Distribution Lines - Additions and Changes

The recommended CWP line changes and improvements are generally for the following reasons:

- Excessive Voltage Drops
- Excessive Load Currents (or Overloaded Lines)
- Poor Service Reliability

Increasing primary line voltage, increasing conductor size, increasing the number of phases, reducing distances of feed, and installing voltage regulators and capacitors are the methods of correction for excessive voltage drops. Excessive load current is an undesirable situation normally corrected by the same methods used for excessive voltage drops; however, the improvement is recommended in most cases to assure proper coordination of line reclosers or sectionalizing devices.

Right-of-way clearing often results in improved service reliability. However, if specific line components are causing outages, then priority is given to rebuilding the line to replace old and worn-out equipment. Rebuilding a line may include conductor, pole or crossarm replacement, replacing defective insulators, etc. Also the construction of tie-capable lines may improve service reliability. Tie lines shorten the circuit feed distance thereby reducing line exposure and also providing loop feed capability. The loop feed capability is very beneficial during outages and line maintenance.

Reviewing the winter 2005-2006 primary analysis of Appendix 1 and considering the load growth estimates of the winter 2009-2010, the distribution line system improvements are as follows. The three year CWP distribution line construction estimate is \$10,929,100 including line conversions and changes (which does not include copper replacement). No new tie-lines are recommended or required.

Each recommendation of the CWP has been reviewed with BGE's staff prior to inclusion in this report. Exhibit F presents a summary of the distribution line construction recommendations. Please note the following explanation for the construction RUS reference numbers:

XXX.ZZ	=	Construction Item Number
X	=	RUS Reference Prefix (2 for tie lines; 3 for line conversions)
YY	=	BGE Substation Number
ZZ	=	Consecutive Number Under Each Substation

Exhibit F also presents construction justification codes for each recommendation. For the sake of brevity, quantitative information regarding the system benefits of each construction item is not presented. The computer model output in the appendices provides this information, (e.g., voltage drop improvements, elimination of overloaded conductor, etc.). Exhibit T also summarizes the justification for each project.

D. Substation and Meter Point Additions and Changes

System Design and Operational Criteria (SDOC), Exhibit L, establishes that a substation's projected future loading condition is not to exceed 95 percent of its full nameplate KVA capacity without planning its uprating. This criterion also is in agreement with EKPC's loading policy. A review of the future substation loading conditions in Exhibit O without improvements reveals that seven substations are projected to reach or exceed the 95 percent level in the next three years. The projected overloaded substations are Holloway, West Nicholasville, West Berea, South Elkhorn, Alcan # 2, Lees Lick, Cynthia and Oxford capacity loading of 134%, 131%, 96%, 114%, 97%, 96% and 124% respectively. Construction is presently underway to increase capacity at West Nicholasville and West Berea. Recommendations have been included herein to transfer load and/or add fans to relieve future overloading conditions at the other five substations.

The overloaded West Nicholasville and West Berea Substations are to be relieved by the upgrading of said substations. Energization of the new capacity is set for late 2007.

E. Capacitor Equipment - Additions and Changes

Exhibit I presents the capacitor recommendations for this CWP. They are also included in Map 1 and 2. Recommendations are included to comply with EKPC power factor policy of no less than 90 percent at peak for each cooperative delivery point. Recommendations have been included to maintain approximately 95% during the summer peak conditions if switched banks are not required. If switched banks are required to maintain this level, the power factor is allowed to be lower.

BGE is encouraged to continue the enforcement of its power factor penalty clause in their C&I service contract, hopefully to get C&I to install both fixed and switched capacitor banks to satisfy their needs. If however, this effort is unsuccessful, BGE should install the capacitors on their system to eliminate the penalty charges from EKPC. The monies received from penalizing the C&I customers should be adequate to cover the cost for the capacitor installations.

The cost of the auxiliary equipment (crossarms, cutouts, etc.) and installation costs of the capacitor stations are incurred by BGE. The cost estimate for the new capacitors is \$75,000 with purchases included for the years 2007, 2008 and 2009 (annual cost of \$25,000). All capacitor recommendations are based on the computer output of the Windmil (WM)® software of Milsoft

Utility Solutions, Inc. Capacitor locations and kVAR bank size recommendations were based on circuit loading and minimizing line loss.

The capacitor recommendations included herein conform to the design criteria of Exhibit L.

F. Sectionalizing Equipment - Additions and Changes

A complete line sectionalizing review evaluating device coordination and fault current duty is to be included under separate cover of this work plan. EKPC provided BGE low-side source impedance data so that available fault currents at each substation and delivery point can be determined. Also, any device overloaded conditions and line configuration changes resulting from the system improvements and revisions included in the work plan are to be included in the study.

Preliminary estimates of this sectionalizing review call for a total cost for the work plan, (RUS Code 603 – sectionalizing equipment) to be \$1,000,000, or an average annual cost of \$333,333. Please refer to the System Design and Operational Criteria, Exhibit L, for additional details concerning the sectionalizing system design criteria.

G. Line Regulators - Additions and Changes

Exhibit H and Maps 1 and 2 present the line voltage regulator changes. The cost of line regulator changes is categorized by RUS reference Code 604 and Exhibit H presents the cost estimate.

A number of line regulators are recommended in this CWP. Excessive voltage drops are projected for some areas; therefore, regulators are included herein. The use of said regulators allows management the greatest flexibility in conducting facility upgrades.

Exhibit H itemizes the location of the new regulators and BGE is recommended to add the regulators only as system problems are field measured and verified. The cost estimate for the new regulators is \$120,000 with purchases included for the years 2007, 2008 and 2009 (annual cost of \$40,000).

H. Pole Replacements

Numerous system improvements have been made in recent years. However, following the experience of long outages during past severe storms, persistent efforts to locate and replace old and depreciated electric plant is necessary and highly recommended.

BGE's distribution system consists of approximately 80,000 wood poles system wide (4,440 miles of overhead line at approximately 18 poles per mile average). RUS recommends an annual inspection of at least 10 percent of a system's total poles. BGE should therefore have a pole inspection program that includes approximately 8,000 poles annually.

Current estimates for pole replacements can be found in Exhibit B. The present projected cost for pole replacements based on historical data is 720 pole change-outs averaging \$2,500 each for a total cost of \$1,800,000.

I. Other Distribution Items

BGE has approximately 537 miles of old 1-phase copper lines remaining throughout its system.

Approximately \$660,000 has been allocated in this CWP for the old conductor change-out. This represents approximately 22 miles of aged conductor in addition to the approximately 140 miles replaced by the system improvement projects.

J. Automatic Meter Reading (AMR) Equipment

BGE staff conducted an in-house financial study of AMR for use on their system and determined it to be a cost-effective option. BGE is presently a partial consumer-read (kWh) cooperative and determined that many benefits could be obtained by the conversion to an AMR based system. Conversion to an AMR system will be completed within this CWP period. Following is a non all-exclusive list of benefits considered and associated cost included within this CWP.

- Recover unbilled revenue
- One-month cash flow recovery
- Levelize staff workload
- Outage notification
- Electronic disconnect/reconnect
- Power theft reduction
- Improved service(s) to consumers

CATEGORY	COST
Office Equipment	\$0
Substation Equipment	\$750,000
Communication Equipment	\$0
Meters, etc.	\$2,010,750
Labor (included in above)	\$0
Total	\$2,760,750

IV. CONCLUSION

The recommendations set forth in this construction work plan will enable *Blue Grass Energy Cooperative Corporation* to serve the projected 2009-2010 peak winter conditions. The construction recommendations are in accordance with RUS prescribed guidelines and other economic criteria established by BGE's Long Range System Study, and related power supply studies. Any questions or comments regarding this report should be directed to Gary Grubbs of Patterson & Dewar Engineers. His email addresses is ggrubbs@pd-engineers.com and phone number is 270-404-5030.

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THE EXHIBITS MAY BE ACCESSED VIA THE "BOOKMARK" PANE ON THE LEFT

Exhibit A

System Statistical Data and Growth Charts

Pages: 5

**Blue Grass Energy Cooperative Corporation
Kentucky 64 Jessamine
Nicholasville, Kentucky**

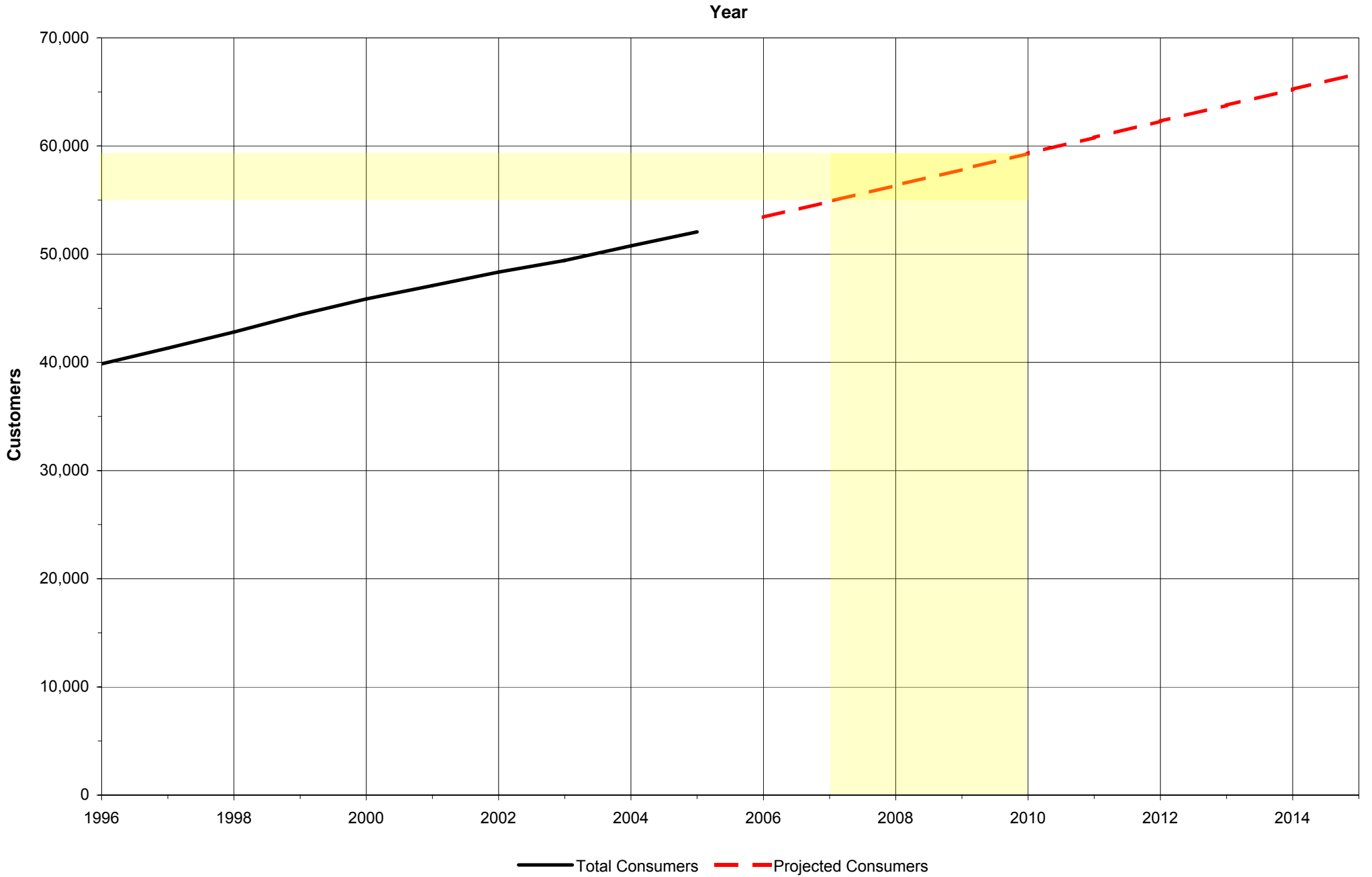
SYSTEM STATISTICAL DATA*

Year	Total Consumers		kWh per Consumer Residential		Net Distribution Plant Investment		Annual System Losses		Annual Load Factor		Total Non-Coincident Peak kW			
	(Annual Average)		(Monthly Average)		Actual	Projected**	Actual	Projected	Actual	Projected	Year	Actual	Projections	
	Actual	Projected	Actual	Projected									Probable	Extreme (10%)
1996	39,872		1,160		-		4.54%		43.3%		1996-97	225,500		
1997	41,320		1,138		-		5.53%		44.6%		1997-98	204,197		
1998	42,802		1,139		-		5.30%		51.4%		1998-99	233,406		
1999	44,422		1,164		-		4.80%		47.9%		1999-00	248,400		
2000	45,873		1,171		-		6.53%		48.1%		2000-01	266,200		
2001	47,093		1,218		\$109,220,065		3.17%		45.5%		2001-02	249,300		
2002	48,347		1,246		\$114,658,171		5.72%		52.1%		2002-03	296,500		
2003	49,421		1,243		\$120,308,089		4.66%		43.8%		2003-04	295,900		
2004	50,775		1,238		\$129,215,057		5.32%		45.3%		2004-05	300,274		
2005	52,068		1,320		\$138,021,852		4.38%		47.2%		2005-06	285,389		
2006		53,416		1,256		\$148,210,111		5.00%		50.2%	2006-07		325,730	371,750
2007		54,877		1,268		\$162,224,155		5.00%		50.0%	2007-08		334,350	381,780
2008		56,355		1,272		\$176,229,381		5.00%		49.7%	2008-09		347,030	395,860
2009		57,825		1,279		\$190,440,817		5.00%		49.5%	2009-10		358,330	408,590
2010		59,319		1,283		\$204,863,620		5.00%		49.5%	2010-11		366,970	418,640
2011		60,791		1,284		\$218,352,882		5.00%		49.5%	2011-12		375,420	428,540
2012		62,287		1,290		\$232,054,924		5.00%		49.5%	2012-13		386,150	440,710
2013		63,769		1,295		\$245,975,066		5.00%		49.5%	2013-14		395,260	451,260
2014		65,241		1,297		\$260,118,760		5.00%		49.5%	2014-15		404,220	461,670
2015		66,713		1,300		-		5.00%		49.5%	2015-16		412,290	471,190

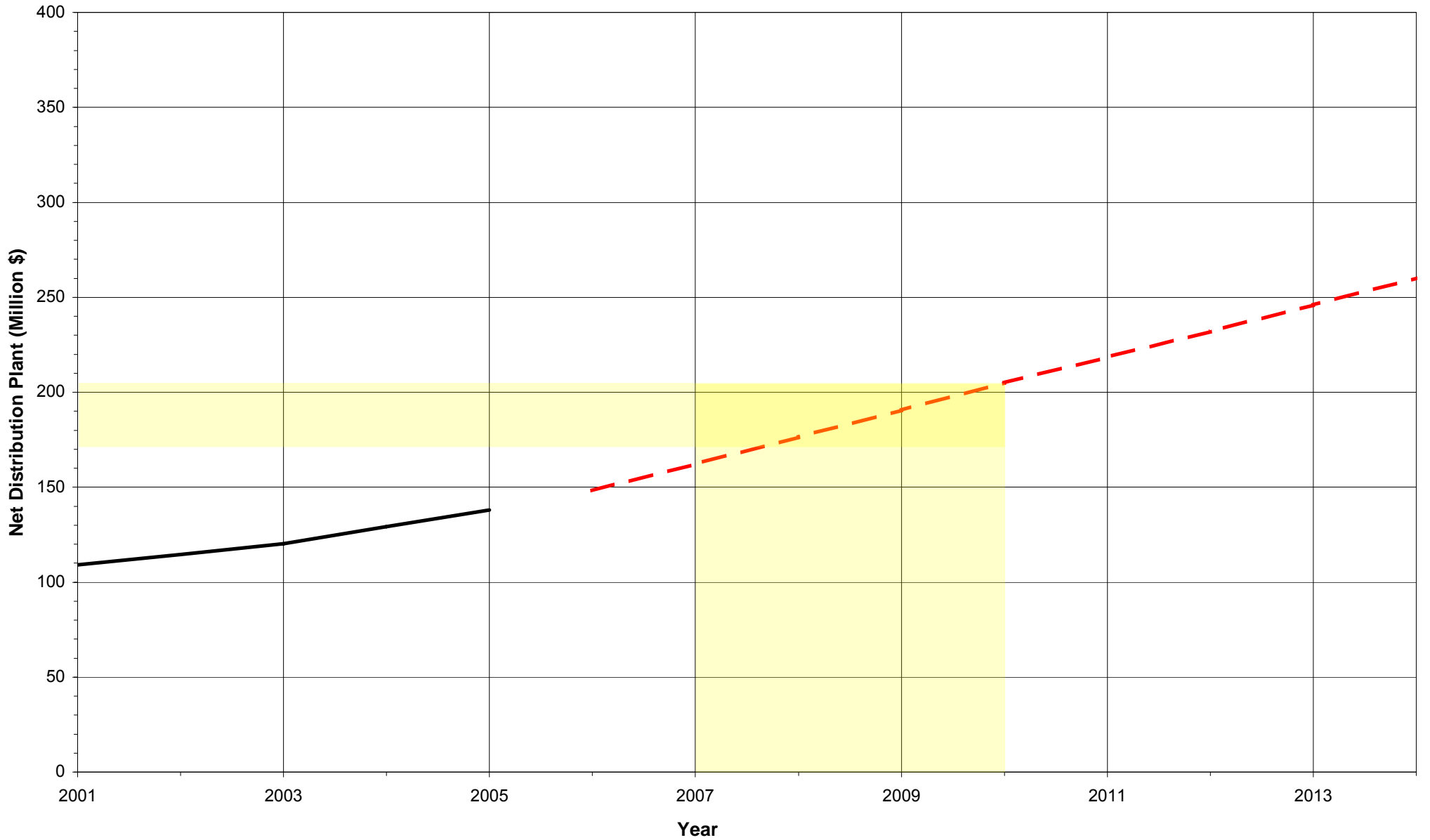
* From 2006 Power Requirements Study

** From May 2004 Long Range Plan

Blue Grass Energy Cooperative Corporation (Kentucky 64)
Total Consumers

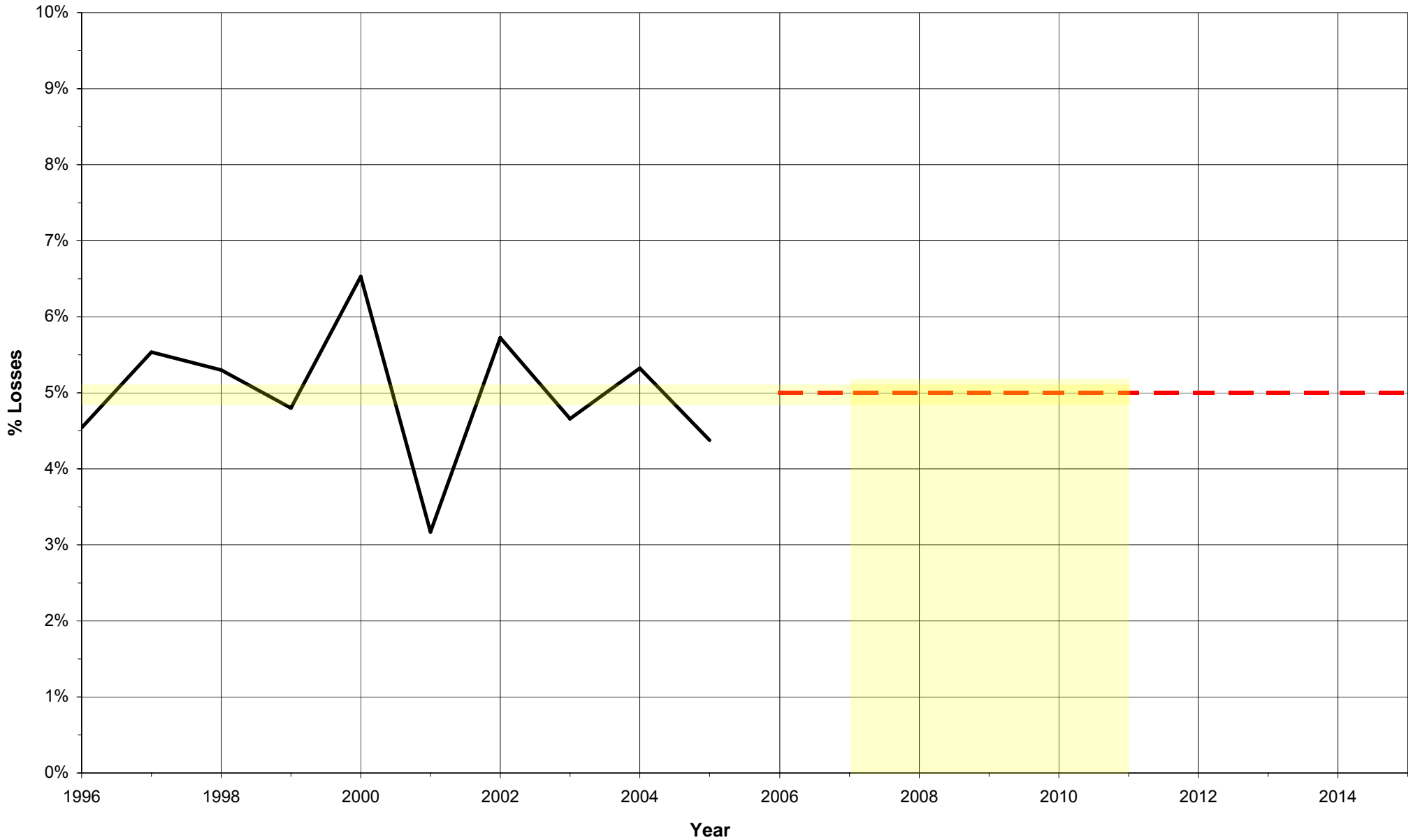


Blue Grass Energy Cooperative Corporation (Kentucky 64)
Net Distribution Plant (\$ Millions)



— Net Distribution Plant - - - Projections

Blue Grass Energy Cooperative Corporation (Kentucky 64)
Annual System kWh Losses (%)



— Annual System Losses — PRS Projections

Blue Grass Energy Cooperative Corporation (Kentucky 64)
Annual Load Factor

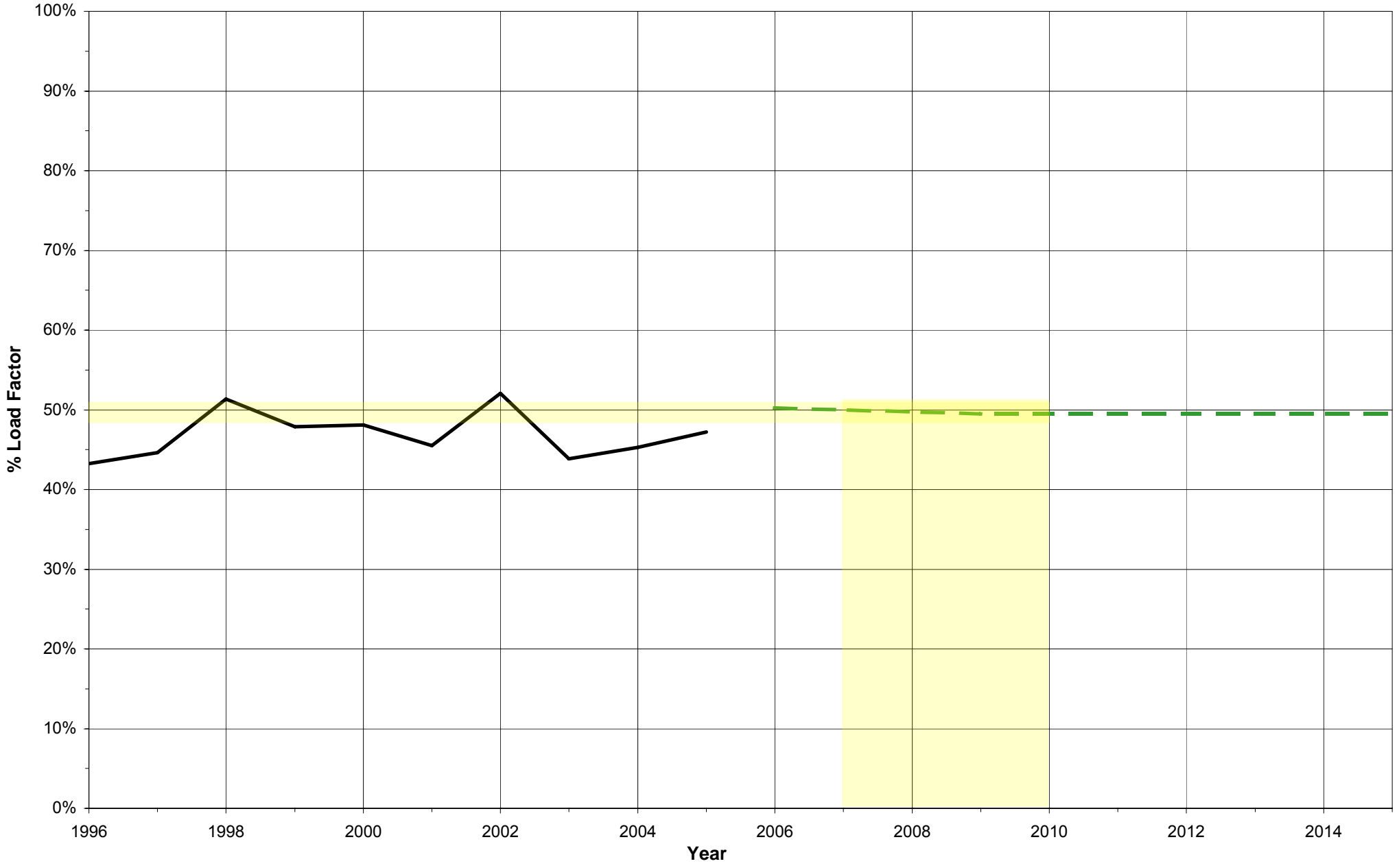


Exhibit B

Historical Cost Data Ending December 31, 2005

Pages: 3

BLUE GRASS ENERGY

Kentucky 64 Jessamine
Nicholasville, Kentucky

2007-2009 CONSTRUCTION WORK PLAN
Historical Cost Data Ending December 31, 2005

DISTRIBUTION	12 Months Ending 12/31/04	12 Months Ending 12/31/05	Estimated For 2007	Estimated For 2008	Estimated For 2009	Estimated For 36 Months
100 - NEW SERVICES						
Overhead and Underground						
Number Services	1,804	1,788	1,800	1,800	1,800	5,400
Total Lineal Feet	587,856	581,561	584,709	584,709	584,709	1,754,126
Average Feet Per Service	326	325	325	325	325	325
Total Cost	\$4,845,359	\$4,848,262	\$5,040,000	\$5,191,200	\$5,347,800	\$15,579,000
Average Cost Per Service	\$2,686	\$2,712	\$2,800	\$2,884	\$2,971	\$2,885
200 - NEW CONSTRUCTION AND TIE LINES - (none)			\$0	\$0	\$0	\$0
300 - LINE CONVERSIONS & CHANGES			\$4,072,600	\$3,490,000	\$3,366,500	\$10,929,100
600 - MISCELLANEOUS DISTRIBUTION EQUIPMENT						
601 - Transformers and Meters						
Number of Transformers	1,954	1,379	1,450	1,450	1,450	4,350
Total Cost of Transformers	\$1,887,564	\$1,736,611	\$1,880,650	\$1,937,200	\$1,995,200	\$5,813,050
Average Cost of Trans.	\$966	\$1,259	\$1,297	\$1,336	\$1,376	\$1,336
Number of New Meters (AMR)	1,804	1,788	1,800	1,800	1,800	5,400
Total Cost of Meters	\$180,400	\$178,800	\$234,000	\$234,000	\$234,000	\$702,000
Average Cost of Meters	\$100	\$100	\$130	\$130	\$130	\$130
Number of Replacement Meters (AMR) 1ø	8,000	12,120	19,150	0	0	19,150
Total Cost of Meters	\$800,000	\$1,212,000	\$2,010,750	\$0	\$0	\$2,010,750
Average Cost of Meters	\$100	\$100	\$105	\$105	\$105	\$105
Number of Replacement Meters (AMR) 3ø	0	0	450	0	0	450
Total Cost of Meters	\$0	\$0	\$173,250	\$0	\$0	\$173,250
Average Cost of Meters	\$0	\$0	\$385	\$385	\$385	\$385
602 - Service Upgrades						
Number Work Orders	227	136	180	180	180	540
Total Cost	\$477,950	\$266,355	\$365,760	\$376,740	\$388,080	\$1,130,580
Average Cost	\$2,106	\$1,958	\$2,032	\$2,093	\$2,156	\$2,094
603 - Sectionalizing Equipment						
Number Work Orders	0	0	-	-	-	-
Total Cost	\$0	\$0	\$500,000	\$300,000	\$200,000	\$1,000,000
Average Cost	\$0	\$0	-	-	-	-
604 - Line Regulators						
Number Work Orders	0	0	-	-	-	-
Total Cost	\$0	\$0	\$60,000	\$40,000	\$20,000	\$120,000
Average Cost	\$0	\$0	-	-	-	-
605 - Capacitors						
Number Work Orders	0	0	-	-	-	-
Total Cost	\$0	\$0	\$25,000	\$25,000	\$25,000	\$75,000
Average Cost	\$0	\$0	-	-	-	-

BLUE GRASS ENERGY

Kentucky 64 Jessamine
Nicholasville, Kentucky

2007-2009 CONSTRUCTION WORK PLAN
Historical Cost Data Ending December 31, 2005

DISTRIBUTION (continued)	12 Months Ending 12/31/04	12 Months Ending 12/31/05	Estimated For 2007	Estimated For 2008	Estimated For 2009	Estimated For 36 Months
606 - Pole Changes - Replacement						
Number of Poles Replaced	193	133	240	240	240	720
Total Cost	\$544,280	\$439,528	\$600,000	\$600,000	\$600,000	\$1,800,000
Average Cost per Pole	\$2,820	\$3,305	\$2,500	\$2,500	\$2,500	\$2,500
607 - Conductor Replacement *						
Number Miles of Line	0	0	-	-	-	22
Total Cost	\$0	\$0	\$220,000	\$220,000	\$220,000	\$660,000
Average Cost per Mile	\$0	\$0	-	-	-	\$30,000
700 - OTHER DISTRIBUTION						
701 - Security Lights						
Number Work Orders	550	400	475	475	475	1,425
Total Cost	\$202,243	\$175,996	\$218,500	\$218,500	\$218,500	\$655,500
Average Cost	\$368	\$440	\$460	\$460	\$460	\$460
702 - AMR Computer Equipment						
Total Cost	\$0	\$0	\$750,000	\$0	\$0	\$750,000

07/09 WP Total : \$41,398,230

BLUE GRASS ENERGY

Kentucky 64 Jessamine
Nicholasville, Kentucky

2007-2009 CONSTRUCTION WORK PLAN
Historical Cost Data Ending December 31, 2005

Historical Cost Data Summary of RUS 200 & 300 Coded Projects

Construction Type	Costs Per Mile	
	Historical Costs *	Projected Costs
1Ø 1/0 ACSR	\$46,133	\$38,000
2Ø 1/0 ACSR	-	\$40,000
3Ø 1/0 ACSR	\$42,529	\$55,000
3Ø 336 ACSR	\$75,098	\$80,000
3Ø 336 ACSR DC	\$98,642	\$105,000
3Ø 556 ACSR		\$100,000
3Ø 336 ACSR DC (Bundled)	-	\$126,000
3Ø 336 ACSR TC (Bundled)	-	\$140,000
1Ø 1/0 UG	-	\$75,000
3Ø 1/0 UG	-	\$150,000
3Ø 500 MCM UG	-	\$250,000
1Ø 14.4kV reins.	-	\$10,000
3Ø 25kV reins.	-	\$8,000

* Based on actual project costs.

Exhibit C

Status of Previous 2004 – 2005 Work Plan Projects

Pages: 3

BLUE GRASS ENERGY

Kentucky 64 Jessamine
Nicholasville, Kentucky

2007-2009 CONSTRUCTION WORK PLAN
Status of Previous CWP Projects

CWP Source Legend

1 = 2004-2005 CWP

Status Legend

COM = Completed

DEL = Deleted

IP = In Progress

NP = No Progress

CPC = Complete Pending Close-out

<u>Construction Item No.</u>	<u>CWP Source</u>	<u>Line Section Locations</u>	<u>Construction Description</u>	<u>Length (miles)</u>	<u>CWP Costs</u>	<u>Actual Cost</u>	<u>% Actual to CWP Costs</u>	<u>Status</u>
New Construction and Tie Lines (Code 200 Items)								
None								
Line Conversions and Changes (Code 300 Items)								
301-1	1	171 ext	3ø 336 ACSR		\$14,350	\$0	-	DEL
303-2	1	20	1ø 4 ACSR - 3ø 1/0 ACSR		\$137,500	\$0	-	IP
305-2	1	406	1ø 1/0 UG - 1ø 1/0 UG		\$90,000	\$0	-	DEL
306-2	1	487	1ø 1/0 UG - 1ø 1/0 UG		\$60,000	\$0	-	DEL
307-3	1	West Nicholasville	3ø 500 MCM UG	0.03	\$23,800	\$16,455	69%	COM
308-3	1	West Nicholasville	3ø 336 ACSR	0.60	\$28,000	\$42,684	152%	COM
309-3	1	430	3ø 336 ACSR	1.21	\$64,575	\$91,219	141%	COM
312-4	1	79	3ø 1/0 ACSR - 3ø 336 ACSR		\$70,000	\$0	-	NP
313-5	1	Fayette 1 & 2	3ø 500 MCM UG		\$95,200	\$0	-	NP
314-5	1	456 & 478	1ø 1/0 UG - 1ø 1/0 UG		\$69,188	\$0	-	DEL
315-5	1	453	1ø 1/0 UG - 1ø 1/0 UG		\$30,750	\$0	-	DEL
316-5	1	460	1ø 1/0 UG - 1ø 1/0 UG		\$45,000	\$0	-	DEL
317-5	1	454	1ø 1/0 UG - 1ø 1/0 UG		\$45,000	\$0	-	DEL
318-5	1	445	1ø 1/0 UG - 1ø 1/0 UG		\$15,000	\$0	-	DEL
319-6	1	477, 479, & 504	1ø 1/0 UG - 1ø 1/0 UG		\$99,938	\$0	-	DEL
321-7	1	216 & 232	1ø 4 ACSR - 3ø 1/0 ACSR	1.30	\$56,375	\$66,015	117%	COM
322-9	1	303 & 302	1ø 4 ACSR - 3ø 336 ACSR		\$133,000	\$0	-	IP
323-9	1	287 & 287A	1ø 4 ACSR - 3ø 1/0 ACSR	1.21	\$45,100	\$42,400	-	CPC
324-9	1	285A, 284, & 389	3ø 4/0 ACSR - 3ø 336 ACSR	2.84	\$175,000	\$206,170	118%	COM
325-9	1	415	1ø 6A CWC - 3ø 1/0 or 336 ACSR		\$28,188	\$0	-	NP
326-9	1	307 & 310	1ø 4 ACSR - 3ø 1/0 ACSR		\$118,388	\$0	0%	COM
328-12	1	510	1ø 1/0 UG - 1ø 1/0 UG		\$30,000	\$0	-	DEL
329-13	1	251	1ø 4 ACSR - 3ø 1/0 ACSR	1.00	\$22,550	\$19,862	88%	COM
330-13	1	297	1ø 4 ACSR - 3ø 1/0 ACSR		\$121,000	\$0	-	NP
331-13	1	440	1ø 4 ACSR - 3ø 1/0 ACSR	0.65	\$16,500	\$67,092	407%	COM
333-14	1	104	1ø 4 ACSR - 3ø 1/0 ACSR		\$50,738	\$0	-	NP
334-14	1 - Amd		3ø 336 ACSR	0.72	\$35,000	\$90,970	260%	COM
335-14	1	556 express	3ø 556 ACSR	1.28	\$34,850	\$121,852	350%	COM
336-14	1	156	1ø 6A CWC - 2ø 1/0 ACSR		\$72,263	\$0	-	IP
337-15	1	174	3ø 1/0 ACSR - 3ø 336 ACSR DC	3.00	\$170,000	\$277,871	163%	COM
338-15	1	173	1ø 4 ACSR - 3ø 336 ACSR		\$93,275	\$0	-	DEL
339-15	1	188	1ø 4 ACSR - 3ø 1/0 ACSR	1.10	\$62,013	\$75,335	121%	COM
340-16	1	South Point	3ø 500 MCM UG		\$195,160	\$0	-	NP
342-21	1	2035 & 2442	1ø 8A CWC - 1ø 2 ACSR	2.50	\$65,000	\$97,644	150%	COM
346-22	1	2437, 2436, 2433, 2061, & 243	3ø 2 ACSR DC - 3ø 336 ACSR DC	2.88	\$178,500	\$302,147	169%	COM
347-22	1	427, 2060, 2426, 2477, & 2297	3ø 2 ACSR - 3ø 336 ACSR	5.50	\$364,000	\$399,142	110%	COM

BLUE GRASS ENERGY

Kentucky 64 Jessamine
Nicholasville, Kentucky

Construction	CWP			Length	CWP	Actual	% Actual to	
Item No.	Source	Line Section Locations	Construction Description	(miles)	Costs	Cost	CWP Costs	Status
348-22	1	2057	1ø 4 ACSR - 1ø 2 ACSR		\$137,500	\$0	-	NP
349-23	1	1, 2414, 2406, 2401, 2396, & 2	3ø 4 ACSR - 3ø 336 ACSR		\$294,000	\$0	-	CPC
350-23	1	2394, 2390, 2384, & 2429	3ø 4 ACSR - 3ø 1/0 ACSR		\$236,500	\$0	-	DEL
351-23	1	2389	1ø 8A CWC - 3ø 1/0 ACSR		\$84,563	\$0	-	IP
353-23	1	2367 - 2345	1ø 4 ACSR - 3ø 1/0 ACSR		\$242,000	\$0	-	IP
354-23	1	2302	1ø 8A CWC - 3ø 1/0 ACSR		\$33,825	\$0	-	IP
355-23	1	2462	1ø 8A CWC - 3ø 1/0 ACSR		\$129,663	\$0	-	IP
356-23	1	2326	1ø 8A CWC - 2ø 1/0 ACSR		\$14,453	\$0	-	DEL
357-24	1	2176	1ø 1/0 ACSR - 3ø 1/0 ACSR		\$163,488	\$0	-	IP
358-24	1	2214 & 2212	1ø 4 ACSR - 3ø 1/0 ACSR		\$286,000	\$0	-	CPC
361-26	1	2142	1ø 4 ACSR - 3ø 1/0 ACSR		\$66,000	\$0	-	NP
362-26	1	2155A	1ø 8A CWC - 3ø 1/0 ACSR		\$197,313	\$0	-	IP
364-26	1	2119	1ø 8A CWC - 3ø 1/0 ACSR	2.30	\$137,500	\$108,462	79%	COM
366-26	1	2147	1ø 8A CWC - 2ø 1/0 ACSR		\$73,800	\$0	-	CPC
367-28	1	2296	Feeders for new sub		\$95,838	\$0	-	NP
368-28	1	2293	3ø 4 ACSR - 3ø 336 ACSR	3.70	\$215,250	\$251,337	117%	COM
372-28	1	2094	1ø 8A CWC - 1ø 2 ACSR		\$76,875	\$0	-	DEL
375-31	1	4315	1ø 4 ACSR - 3ø 1/0 ACSR		\$27,500	\$0	-	DEL
376-31	1	4693	1ø 1/0 UG - 1ø 1/0 UG		\$99,938	\$0	-	DEL
377-32	1	4345 - 4337	3ø 4 ACSR - 3ø 336 ACSR	4.75	\$343,000	\$329,550	96%	COM
378-33	1	4504, 4502, 4501, & 4748	1ø 8A CWC - 3ø 1/0 ACSR		\$152,213	\$0	-	IP
379-33	1	4661	1ø 4 ACSR - 3ø 1/0 ACSR		\$22,000	\$0	-	NP
381-33	1	4592	1ø 4 ACSR - 3ø 1/0 ACSR		\$5,500	\$0	-	DEL
382-33	1	4499	1ø 8A CWC - 3ø 1/0 ACSR		\$27,500	\$0	-	DEL
383-34	1	4161	1ø 4 ACSR - 3ø 1/0 ACSR		\$50,738	\$0	-	DEL
384-34	1 - Amd		2ø 4 ACSR - 3ø 1/0 ACSR	1.90	\$112,750	\$215,070	191%	COM
385-34	1	4241	1ø 8A CWC - 2ø 2 ACSR		\$32,800	\$0	-	DEL
386-34	1	4250 & 4249	1ø 8A CWC - 3ø 1/0 ACSR	1.81	\$56,375	\$221,899	394%	COM
387-35	1	H4131, 4743, & 4130	1ø 8A CWC - 3ø 1/0 ACSR		\$45,100	\$0	-	NP
388-34	1 - Amd		1ø 8A CWC - 1ø 1/0 ACSR	2.86	\$153,750	\$131,940	86%	COM
389-36	1	4784 & 4007	1ø 4 ACSR - 3ø 1/0 ACSR		\$107,113	\$0	-	DEL
390-36	1	4014	1ø 8A CWC - 2ø 2 ACSR		\$32,800	\$0	-	IP
391-36	1	4037	1ø 8A CWC - 2ø 2 ACSR		\$20,500	\$0	-	DEL
392-36	1	4016	1ø 4 ACSR - 3ø 1/0 ACSR		\$39,463	\$0	-	NP
393-36	1	4015	3ø 4 ACSR - 3ø 336 ACSR	1.58	\$70,000	\$117,451	168%	COM
394-38	1	4418, 4991, & 4416	1ø 2 ACSR - 3ø 1/0 ACSR	1.23	\$44,000	\$46,644	106%	COM
395-38	1	4403	1ø 2 ACSR - 3ø 1/0 ACSR	1.34	\$38,500	\$44,455	115%	COM
396-40	1	Oxford - DCT 1 & DCT 2	3ø 336 ACSR DC	1.00	\$85,000	\$135,260	159%	COM
397-40	1	4638 & 4650	1ø 8A CWC - 3ø 336 ACSR	4.10	\$91,000	\$385,824	424%	COM
398-34	1 - Amd		3ø 4 ACSR - 3ø 336 ACSR		\$421,090	\$0	-	IP

New Substations (Code 400 Items)

400	1	Powell Taylor Substation	11.2 MVA	-	By EKPC	-	IP
400	1	Oxford Substation	11.2 MVA	-	By EKPC	-	COM
400	1	South Point Substation	11.2 MVA	-	By EKPC	-	IP

Substation Changes and Modifications (Code 500 Items)

500	1	Berlin Substation upgrade	Upgrade to 11.2 MVA	-	By EKPC	-	COM
500	1	Headquarters Substation upgr	Upgrade to 11.2 MVA	-	By EKPC	-	COM
500	1	South Elkhorn Substation upg	Upgrade to 15 MVA	-	By EKPC	-	COM
500	1	West Berea Substation upgrac	Upgrade with West Berea 2 - 11.2 MVA	-	By EKPC	-	ON HOLD

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Kentucky 64 Jessamine
Nicholasville, Kentucky

<u>Construction Item No.</u>	<u>CWP Source</u>	<u>Line Section Locations</u>	<u>Construction Description</u>	<u>Length (miles)</u>	<u>CWP Costs</u>	<u>Actual Cost</u>	<u>% Actual to CWP Costs</u>	<u>Status</u>
Miscellaneous Distribution Equipment (Code 600 items)								
601-21	1	2035 & 2442	25kV conversion transformers		\$17,000	-	-	COM
601-22	1	2057	25kV conversion transformers		\$45,050	-	-	NP
604-7	1	229	3-219a Voltage Regulators		\$37,500	-	-	NP
604-13	1	249	1-50a Voltage Regulator		\$9,000	-	-	COM
604-24A	1	2186	3-219a Voltage Regulators		\$37,500	-	-	NP
604-24B	1	2187	3-150a Voltage Regulators		\$32,100	-	-	NP
604-24C	1	2239	2-100a Voltage Regulators		\$20,000	-	-	NP
604-24D	1	2265	3-100a Voltage Regulators		\$30,000	-	-	NP
604-24E	1	2457	3-219a Voltage Regulators		\$37,500	-	-	NP
604-26A	1	2159	3-150a voltage regulators		\$32,100	-	-	COM
604-26B	1	2137	3-100a voltage regulators		\$30,000	-	-	NP
604-26C	1	2126	3-100a voltage regulators		\$30,750	-	-	NP
604-33	1	4675	3-219a voltage regulators		\$38,440	-	-	COM
604-34	1	4178	3-50a voltage regulators		\$9,225	-	-	NP
604-39	1	4532	3-219a voltage regulators		\$38,440	-	-	COM
605-21	1	2105	300 kVAR capacitor bank		\$3,590	-	-	NP
605-26	1	2151	300 kVAR capacitor bank		\$3,500	-	-	NP
605-31	1	4299	600 kVAR capacitor bank		\$4,500	-	-	NP
607-22	1	2057	1-500 kVA step transformer		\$9,430	-	-	NP
607-28	1	2102	3-1,667 kVA step transformers		\$61,500	-	-	NP

Exhibit D

Summary of Distribution Cost Estimates

Pages: 1

2007-2009 CONSTRUCTION WORK PLAN
Summary of Distribution Cost Estimates

	Cost Year A 2007	Cost Year B 2008	Cost Year C 2009	Total CWP Costs
740c REF 100: Line Construction for New Services	\$5,040,000	\$5,191,200	\$5,347,800	\$15,579,000
740c REF 200: New Construction and Tie Lines	\$0	\$0	\$0	\$0
740c REF 300: Conversions and Line Changes	\$3,992,600	\$3,570,000	\$3,366,500	\$10,929,100
740c REF 400: New Substations, Switching Stations, Meter Points, etc.	\$0	\$0	\$0	\$0
740c REF 500: Substation and Meter Point Changes	\$0	\$0	\$0	\$0
740c REF 600: Miscellaneous Distribution Equipment				
1. Code 601 Transformers & Meters	\$4,298,650	\$2,171,200	\$2,229,200	\$8,699,050
2. Code 602 Sets of Service Wires For Increased Service Capacity	\$365,760	\$376,740	\$388,080	\$1,130,580
3. Code 603 Sectionalizing Equipment	\$500,000	\$300,000	\$200,000	\$1,000,000
4. Code 604 Line Voltage Regulators	\$60,000	\$40,000	\$20,000	\$120,000
5. Code 605 Line Capacitors	\$25,000	\$25,000	\$25,000	\$75,000
6. Code 606 Pole Replacement	\$600,000	\$600,000	\$600,000	\$1,800,000
7. Code 607 Conductor Replacement	\$220,000	\$220,000	\$220,000	\$660,000
740c REF 700: Other Distribution Items				
Code 701 - Security Lights	\$218,500	\$218,500	\$218,500	\$655,500
Code 705 - AMR System and Equipment	\$750,000	\$0	\$0	\$750,000
Total CWP Requirements :	\$16,070,510	\$12,712,640	\$12,615,080	\$41,398,230

Exhibit E

Cost Estimate Breakdown for RUS Form 740c and Financial Forecast

Pages: 3

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Kentucky 64 Jessamine
Nicholasville, Kentucky

2007-2009 CONSTRUCTION WORK PLAN
Cost Estimate Breakdown For Loan Application and Financial Forecas
(RUS Form 740c Format)

1. DISTRIBUTION

a. 740c Ref. Code 100: New Line (Excluding Tie-Lines)						Cost Year A	Cost Year B	Cost Year C
						2006	2007	2008
			Total	Cons.				
			Cons.	Per Year				
100	OH & URD	332 Miles	5,400	1,800 @	\$2,885 =	\$5,040,000	\$5,191,200	\$5,347,800
CODE 100 SUBTOTALS =						\$5,040,000	\$5,191,200	\$5,347,800
TOTAL LOAN CODE 100 COSTS =						\$15,579,000		

b. 740c Ref Code 200: New Construction and Tie-Lines						(See Exhibit F for further details)		
RUS	Priority	Existing	Proposed			Cost Year A	Cost Year B	Cost Year C
Ref. Nos.	Code	Miles	Construction	Construction	\$/Mile	2006	2007	2008
None								
CODE 200 SUBTOTALS =						\$0	\$0	\$0
TOTAL LOAN CODE 200 COSTS =						\$0		

c. 740c Ref Code 300: Line Conversions and Changes						(See Exhibit F for further details)		
RUS		Existing	Proposed			Cost Year A	Cost Year B	Cost Year C
Ref. Nos.	Miles	Construction	Construction	\$/Mile		2006	2007	2008
302-01	2.10	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000		\$115,500		
302-02	1.00	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000		\$0	\$55,000	\$0
302-03	0.70	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000		\$0	\$0	\$38,500
302-04	0.70	1PH 4 ACSR	2PH 1/0 ACSR	\$40,000		\$0	\$0	\$28,000
303-01	0.50	1PH 1/0 ACSR	3PH 1/0 ACSR	\$55,000		\$27,500	\$0	\$0
303-02	2.40	3PH 336 ACSR	3PH 336 ACSR	\$105,000		\$0	\$252,000	\$0
304.01	1.00	3PH 1/0 ACSR	3PH 336 ACSR	\$80,000		\$80,000	\$0	\$0
305-01	0.80	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000		\$0	\$0	\$44,000
305-02	0.30	(3) 3PH 500 MCM	(3) 3PH 1000 MCM	\$250,000		\$75,000	\$0	\$0
306-01	0.20	(3) 3PH 500 MCM	(3) 3PH 1000 MCM	\$250,000		\$50,000	\$0	\$0
307-01	1.10	3PH 1/0 ACSR	3PH 336 ACSR	\$80,000		\$0	\$88,000	\$0
307-02	2.30	1PH 4 ACSR	2PH 1/0 ACSR	\$40,000		\$0	\$0	\$92,000
307-03	1.50	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000		\$82,500	\$0	\$0
308-01	2.70	3PH 1/0 ACSR	3PH 336 ACSR	\$80,000		\$0	\$216,000	\$0
309-01	1.90	1PH 1/0 ACSR	3PH 336 ACSR	\$80,000		\$152,000		\$0
309-02	0.80	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000		\$44,000	\$0	\$0
309-03	0.70	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000		\$38,500	\$0	\$0
309-04	0.50	1PH CU	3PH 1/0 ACSR	\$55,000		\$27,500	\$0	\$0
309-05	2.10	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000		\$0	\$115,500	\$0
313-01	0.70	1PH 1/0 ACSR	3PH 1/0 ACSR	\$55,000		\$38,500	\$0	\$0
313-02	2.00	1PH 4 ACSR	3PH 336 ACSR	\$80,000		\$0	\$0	\$160,000
313-03	1.00	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000		\$0	\$55,000	\$0
313-04	1.50	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000		\$0	\$82,500	\$0
314-01	2.00	3PH 4 ACSR	3PH 556 ACSR	\$100,000		\$0	\$0	\$200,000
314-02	0.80	1PH 1/0 ACSR	3PH 1/0 ACSR	\$55,000		\$44,000	\$0	\$0
314-03	0.90	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000		\$49,500	\$0	\$0
314-04	1.00	1PH 6 CU	3PH 1/0 ACSR	\$55,000		\$0	\$0	\$55,000
314-05	1.40	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000		\$0	\$0	\$77,000
314-06	1.40	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000		\$0	\$0	\$77,000
314-07	1.30	1PH 1/0 ACSR	3PH 1/0 ACSR	\$55,000		\$0	\$0	\$71,500
314-08	0.30	3PH 336 ACSR	3PH 336 ACSR	\$80,000		\$0	\$0	\$24,000
314-09	2.10	3PH 336 ACSR	3PH 336 ACSR DC	\$105,000		\$220,500	\$0	\$0
315-01	2.70	3PH 1/0 ACSR	3PH 336 ACSR	\$80,000		\$0	\$0	\$216,000
315-02	2.10	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000		\$115,500	\$0	\$0
317-01	1.1	3PH 336 ACSR	Triple-Ckt 336 ACSR	\$140,000		\$154,000	\$0	\$0
317-01	0.60	3PH 336 ACSR	Double-Ckt 336 ACSR	\$126,000		\$75,600	\$0	\$0

BLUE GRASS ENERGY

Kentucky 64 Jessamine
Nicholasville, Kentucky

2007-2009 CONSTRUCTION WORK PLAN
Cost Estimate Breakdown For Loan Application and Financial Forecas
(RUS Form 740c Format)

RUS					Cost Year A	Cost Year B	Cost Year C
Ref. Nos.	Miles	Existing Construction	Proposed Construction	\$/Mile	2006	2007	2008
317-01	0.80	3PH 1/0 MCM URD	500 MCM URD	\$250,000	\$187,500	\$0	\$0
321-01	2.00	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000	\$0	\$0	\$110,000
321-02	0.20	3PH 2 ACSR	3PH 336 ACSR	\$80,000	\$16,000	\$0	\$0
322-01	2.20	1PH 4 ACSR 7.2KV	1PH 2 ACSR 14.4 KV	\$35,000	\$0	\$77,000	\$0
322-02	5.20	3PH 4 ACSR	3PH 336 ACSR	\$80,000	\$0	\$0	\$416,000
322-03	1.70	3PH 4 ACSR	3PH 336 ACSR	\$80,000	\$0	\$0	\$136,000
323-01	3.50	1PH 6 CU	3PH 1/0 ACSR	\$55,000	\$192,500	\$0	\$0
323-02	1.70	1PH 6 CU	3PH 1/0 ACSR	\$55,000	\$0	\$93,500	\$0
323-03	1.70	1PH 8 CU	3PH 1/0 ACSR	\$55,000	\$0	\$93,500	\$0
323-04	1.70	1PH 8 CU	3PH 1/0 ACSR	\$55,000	\$0	\$93,500	\$0
323-05	2.00	1PH 6 CU	3PH 1/0 ACSR	\$55,000	\$110,000	\$0	\$0
323-06	4.20	3PH 4 ACSR	3PH 336 ACSR	\$80,000	\$0	\$0	\$336,000
323-07	0.60	1PH 8 CU	3PH 1/0 ACSR	\$55,000	\$33,000	\$0	\$0
324-01	3.30	3PH 4 ACSR	3PH 1/0 ACSR	\$55,000	\$0	\$0	\$181,500
324-02	2.00	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000	\$0	\$0	\$110,000
324-03	1.80	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000	\$99,000	\$0	\$0
324-04	1.00	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000	\$0	\$55,000	\$0
324-05	0.80	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000	\$0	\$44,000	\$0
324-06	0.80	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000	\$44,000	\$0	\$0
324-07	3.80	3PH 4 ACSR	3PH 1/0 ACSR	\$55,000	\$0	\$209,000	\$0
324-08	2.10	1PH 6 CU	3PH 1/0 ACSR	\$55,000	\$0	\$115,500	\$0
324-09	3.10	1PH 6 CU	3PH 1/0 ACSR	\$55,000	\$170,500	\$0	\$0
324-10	2.10	1PH 1/0 ACSR	3PH 1/0 ACSR	\$55,000	\$115,500	\$0	\$0
326-01	2.00	1PH 6 CU	3PH 1/0 ACSR	\$55,000	\$0	\$0	\$110,000
326-02	1.70	1PH 6 CU	3PH 1/0 ACSR	\$55,000	\$68,000	\$0	\$0
326-03	2.50	1PH 6 CU	3PH 1/0 ACSR	\$55,000	\$0	\$137,500	\$0
326-04	2.10	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000	\$0	\$115,500	\$0
326-05	1.60	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000	\$88,000	\$0	\$0
328-01	2.00	1PH 6 CU	3PH 1/0 ACSR	\$55,000	\$0	\$110,000	\$0
328-02	0.60	3PH 1/0 URD	3PH 500 MCM URD	\$250,000	\$150,000	\$0	\$0
328-03	1.60	1PH 6 CU	3PH 1/0 ACSR	\$55,000	\$88,000	\$0	\$0
331-01	0.80	1PH 4 ACSR	2PH 2 ACSR	\$40,000	\$32,000	\$0	\$0
331-02	0.70	1PH 6 CU	3PH 1/0 ACSR	\$55,000	\$0	\$38,500	\$0
331-03	1.80	3PH 4 ACSR	3PH 336 ACSR	\$80,000	\$144,000	\$0	\$0
332-01	4.40	3PH 4 ACSR	3PH 336 ACSR	\$80,000	\$0	\$352,000	\$0
332-02	5.10	3PH 4 ACSR	3PH 336 ACSR	\$80,000	\$408,000	\$0	\$0
333-01	1.00	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000	\$0	\$0	\$55,000
333-02	2.20	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000	\$0	\$0	\$121,000
333-03	0.80	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000	\$44,000	\$0	\$0
333-04	2.50	3PH 4 ACSR	3PH 336 ACSR	\$80,000	\$200,000	\$0	\$0
334-01	0.80	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000	\$44,000	\$0	\$0
334-02	1.00	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000	\$55,000	\$0	\$0
334-03	1.90	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000	\$0	\$104,500	\$0
334-04	5.00	3PH 4 ACSR	3PH 336 ACSR	\$80,000	\$0	\$0	\$400,000
334-05	1.30	3PH 4 ACSR	3PH 336 ACSR	\$80,000	\$0	\$0	\$104,000
335-01	0.30	3PH 1/0 URD	3PH 500 MCM URD	\$250,000	\$0	\$75,000	\$0
335-02	2.10	3PH 4 ACSR	3PH 336 ACSR	\$80,000	\$0	\$168,000	\$0
335-03	3.30	3PH 6 CU	3PH 336 ACSR	\$80,000	\$264,000	\$0	\$0
336-01	1.00	3PH 336 ACSR	3PH 336 ACSR	\$80,000	\$0	\$80,000	\$0
336-02	0.90	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000	\$49,500	\$0	\$0
338-01	2.00	3PH 4 ACSR	3PH 336 ACSR	\$80,000	\$0	\$160,000	\$0
339-01	2.20	3PH 4 ACSR	3PH 336 ACSR	\$80,000	\$0	\$176,000	\$0
339-02	2.00	2PH 4 ACSR	3PH 336 ACSR	\$80,000	\$0	\$0	\$160,000
339-03	0.80	3PH 4 ACSR	3PH 1/0 ACSR	\$55,000	\$0	\$0	\$44,000
340-01	1.60	3PH 1/0 ACSR	3PH 336 ACSR	\$80,000	\$0	\$128,000	\$0
340-02	3.50	3PH 1/0 ACSR	3PH 336 ACSR	\$80,000	\$0	\$280,000	\$0
157.60				CODE 300 SUBTOTALS =	\$3,992,600	\$3,570,000	\$3,366,500

TOTAL LOAN CODE 300 COSTS = \$10,929,100

BLUE GRASS ENERGY

Kentucky 64 Jessamine
Nicholasville, Kentucky

2007-2009 CONSTRUCTION WORK PLAN
Cost Estimate Breakdown For Loan Application and Financial Forecas
(RUS Form 740c Format)

d. 740c Ref Code 400: New Substations. Switching Stations, Metering Points

(See Exhibit G for further details)

RUS Ref. Nos.	Substation	Cost Year A 2006	Cost Year B 2007	Cost Year C 2008
CODE 400 SUBTOTALS =		\$0	\$0	\$0
TOTAL LOAN CODE 400 COSTS =		<u>\$0</u>		

e. 740c Ref Code 500: Substation, Switching Stations, Metering Point Changes

(See Exhibit G for further details)

RUS Ref. Nos.	Substation	Cost Year A 2006	Cost Year B 2007	Cost Year C 2008
2007	West Nicholasville			
2007	West Berea			
CODE 500 SUBTOTALS =		\$0	\$0	\$0
TOTAL LOAN CODE 500 COSTS =		<u>\$0</u>		

f. 740c Ref Code 600: Miscellaneous Distribution Equipmen

RUS Ref. Nos.	Miscellaneous Equipment	Total Units	Units per Year	Unit Cost	Costs Year A 2006	Cost Year B 2007	Cost Year C 2008	LOAN TOTAL
Transformers & Meters								
601	Overhead & Underground							
	Transformers	4,350	1,450	\$1,336 =	\$1,880,650	\$1,937,200	\$1,995,200	\$5,813,050
	Meters	5,400	1,800	\$130 =	\$234,000	\$234,000	\$234,000	\$702,000
					<u>\$2,114,650</u>	<u>\$2,171,200</u>	<u>\$2,229,200</u>	<u>\$6,515,050</u>
	AMR Meters							
	Single Phase	19,150	6,383	\$105 =	\$2,010,750	\$0	\$0	\$2,010,750
	Three Phase	450	150	\$385 =	\$173,250	\$0	\$0	\$173,250
					<u>\$2,184,000</u>	<u>\$0</u>	<u>\$0</u>	<u>\$2,184,000</u>
	Total Transformers & Meters =				<u>\$4,298,650</u>	<u>\$2,171,200</u>	<u>\$2,229,200</u>	<u>\$8,699,050</u>
602	Service Wires for Increased Capacity	540	180	\$2,094 =	\$365,760	\$376,740	\$388,080	\$1,130,580
603	Sectionalizing Equipment (See Exhibit J for breakdown) †				<u>\$500,000</u>	<u>\$300,000</u>	<u>\$200,000</u>	<u>\$1,000,000</u>
604	Line Regulators (See Exhibit H for Breakdown)				<u>\$60,000</u>	<u>\$40,000</u>	<u>\$20,000</u>	<u>\$120,000</u>
605	Line Capacitors (See Exhibit I for Breakdown)				<u>\$25,000</u>	<u>\$25,000</u>	<u>\$25,000</u>	<u>\$75,000</u>
606	Pole Replacement	720	240	\$2,500 =	\$600,000	\$600,000	\$600,000	\$1,800,000
607	Conductor Replacement	22	7	\$30,000 =	\$220,000	\$220,000	\$220,000	\$660,000
	CODE 600 Totals =				<u>\$6,069,410</u>	<u>\$3,732,940</u>	<u>\$3,682,280</u>	<u>\$13,484,630</u>

g. 740c Ref Code 700: Other Distribution

701	Security Lights	1,425	475	\$460 =	\$218,500	\$218,500	\$218,500	\$655,500
702	AMR System and Equipment (AMR Meters are included in code 601)				<u>\$750,000</u>	<u>\$0</u>	<u>\$0</u>	<u>\$750,000</u>
	CODE 700 Totals =				<u>\$968,500</u>	<u>\$218,500</u>	<u>\$218,500</u>	<u>\$1,405,500</u>
Total Distribution =					<u>\$16,070,510</u>	<u>\$12,712,640</u>	<u>\$12,615,080</u>	<u>\$41,398,230</u>

Exhibit F

Distribution Line Construction and Cost Estimates

Pages: 3

BLUE GRASS ENERGY

Kentucky 64 Jessamine
Nicholasville, Kentucky

2007 - 2009 Construction Work Plan
Distribution Line Construction Recommendations

DC - Denotes double circuit construction
* Denotes Construction Items carried-over from previous 2004-2005 work plan.
† Denotes Construction Items added to CWP by way of Amendment.
(V) Denotes proposed construction insulated for 25KV

Construction Justification Codes

- | | |
|--------------------------------|--|
| 1. Overload Single-Phase Line | 7. New Load Development |
| 2. Overload Multi-phase Line | 8. Area Voltage Conversion to 25KV |
| 3. Excessive Voltage Drop | 9. Old CU Line - Conductor Replacement |
| 4. Balance Phase Loading | 10. Establish Tie Capability Between Substations |
| 5. Improve Service Reliability | 11. Highway Relocation Project |
| 6. New Substation Feeders | 12. Economical Conductor Loading |

RUS Ref. #	Carry Over	Priority Code	Line Section	Miles	District	Existing Construction	Proposed Construction	\$/Mile	Cost 2007	Cost 2008	Cost 2009	Construction Justification
Substation 1 - Nicholasville												
No Construction												
Subtotals =									\$0	\$0	\$0	
Substation 2 ~ Holloway												
302-01			1513069	2.1	Nicholasville	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000	\$115,500			
302-02			1513076 - 1513067	1.0	Nicholasville	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000		\$55,000		
302-03			1513120 & 1513117	0.7	Nicholasville	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000			\$38,500	
302-04			1414494	0.7	Nicholasville	1PH 4 ACSR	2PH 1/0 ACSR	\$40,000			\$28,000	
Subtotals =									\$115,500	\$55,000	\$66,500	
Substation 3 ~ West Nicholasville												
303-01			1613053 & 1613054	0.5	Nicholasville	1PH 1/0 ACSR	3PH 1/0 ACSR	\$55,000	\$27,500			
303-02			1514476 - 1514451	2.4	Nicholasville	EXT CKT	Underbuild	\$105,000		\$252,000		
Subtotals =									\$27,500	\$252,000	\$0	
Substation 4 ~ Davis												
304.01	312		Shopping Center	1.0	Nicholasville	3PH 1/0 ACSR	3PH 336 ACSR	\$80,000	\$80,000			
Subtotals =									\$80,000	\$0	\$0	
Substation 5 ~ Fayette # 1												
305-01			1416036 & 1416022	0.8	Nicholasville	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000			\$44,000	
305-02	313		Sub Exits	0.3	Nicholasville	(3) 3PH 500 MCM	(3) 3PH 1000 MCM	\$250,000	75000			
Subtotals =									\$75,000	\$0	\$44,000	
Substation 6 ~ Fayette # 2												
306-01	313		Sub Exits	0.2	Nicholasville	(3) 3PH 500 MCM	(3) 3PH 1000 MCM	\$250,000	\$50,000			
Subtotals =									\$50,000	\$0	\$0	
Substation 7 ~ Newby												
307-01			1717069 & 1717070	1.1	Madison	3PH 1/0 ACSR	3PH 336 ACSR	\$80,000		\$88,000		
307-02			1715052 - 1715053	2.3	Madison	1PH 4 ACSR	2PH 1/0 ACSR	\$40,000			\$92,000	
307-03			1716080 - 1716085	1.5	Madison	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000	\$82,500			
Subtotals =									\$82,500	\$88,000	\$92,000	
Substation 8 ~ West Berea												
308-01				2.7	Madison	3PH 1/0 ACSR	3PH 336 ACSR	\$80,000		\$216,000		
Subtotals =									\$0	\$216,000	\$0	
Substation 9 ~ Hickory Plains												
309-01	322A		1918264 - 1918265	1.9	Madison	1PH 1/0 ACSR	3PH 336 ACSR	\$80,000	\$152,000			
309-02	323		2018121 - 2018221	0.8	Madison	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000	\$44,000			
309-03			2018114	0.7	Madison	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000	\$38,500			
309-04	325		2018198 & 2018200	0.5	Madison	1PH CU	3PH 1/0 ACSR	\$55,000	\$27,500			
309-05			2018184	2.1	Madison	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000		\$115,500		
Subtotals =									\$262,000	\$115,500	\$0	
Substation 10 ~ Alcan #1 & #2												
No Construction												
Subtotals =									\$0	\$0	\$0	
Substation 11 ~ PPG												
No Construction												
Subtotals =									\$0	\$0	\$0	
Substation 12 ~ South Elkhorn												
No Construction												
Subtotals =									\$0	\$0	\$0	

BLUE GRASS ENERGY

Kentucky 64 Jessamine
Nicholasville, Kentucky

RUS Ref. #	Carry Over	Priority Code	Line Section	Miles	District	Existing Construction	Proposed Construction	\$/Mile	Cost 2007	Cost 2008	Cost 2009	Construction Justification
Substation 13 - Crooksville												
313-01			1918238	0.7	Madison	1PH 1/0 ACSR	3PH 1/0 ACSR	\$55,000	\$38,500			
313-02	322B		1918270	2.0	Madison	1PH 4 ACSR	3PH 336 ACSR	\$80,000			\$160,000	
313-03			1919096 & 1919097	1.0	Madison	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000		\$55,000		
313-04	330		1919061	1.5	Madison	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000		\$82,500		
Subtotals =									\$38,500	\$137,500	\$160,000	
Substation 14 - South Jessamine												
314-01			1614172 - 1614174	2.0	Nicholasville	3PH 4 ACSR	3PH 556 ACSR	\$100,000			\$200,000	
314-02			1714059 - 1714060	0.8	Nicholasville	1PH 1/0 ACSR	3PH 1/0 ACSR	\$55,000	\$44,000			
314-03	336		1714094 - 1714095	0.9	Nicholasville	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000	\$49,500			
314-04			1714085 - 1714108	1.0	Nicholasville	1PH 6 CU	3PH 1/0 ACSR	\$55,000			\$55,000	
314-05			1714067 - 1714069	1.4	Nicholasville	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000			\$77,000	
314-06	333		1615066 - 1615069	1.4	Nicholasville	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000			\$77,000	
314-07			1615108 - 1615107	1.3	Nicholasville	1PH 1/0 ACSR	3PH 1/0 ACSR	\$55,000			\$71,500	
314-08			1614196 - 1614217	0.3	Nicholasville	N/A	3PH 336 ACSR	\$80,000			\$24,000	
314-09			sub - 1614154	2.1	Nicholasville	N/A	3PH 336 ACSR DC	\$105,000	\$220,500			
Subtotals =									\$314,000	\$0	\$504,500	
Substation 15 - North Madison												
315-01			1616132 - 1617045	2.7	Madison	3PH 1/0 ACSR	3PH 336 ACSR	\$80,000			\$216,000	
315-02			??	2.1	Madison	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000	\$115,500			
Subtotals =									\$115,500	\$0	\$216,000	
Substation 17 - Southpoint												
317-01	340		Sub Exits	1.1	Nicholasville	N/A	Triple-Ckt 336 ACSR	\$140,000	\$154,000			
			Sub Exits	0.6	Nicholasville	N/A	Double-Ckt 336 ACSR	\$126,000	\$75,600			
			Sub Exits	0.8	Nicholasville	N/A	500 MCM URD	\$250,000	\$187,500			
Subtotals =									\$417,100	\$0	\$0	
Substation 21 - Bridgeport												
321-01			1009009	2.0	Fox Creek	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000			\$110,000	
321-02			1210090	0.2	Fox Creek	3PH 2 ACSR	3PH 336 ACSR	\$80,000	\$16,000			
Subtotals =									\$16,000	\$0	\$110,000	
Substation 22 - Ninevah												
322-01	348		1311034	2.2	Fox Creek	1PH 4 ACSR ~ 7.2 KV	1PH 2 ACSR ~ 14.4 KV	\$35,000		\$77,000		
322-02			1311046 - 1411119	5.2	Fox Creek	3PH 4 ACSR	3PH 336 ACSR	\$80,000			\$416,000	
322-03			1210094 & 1210095	1.7	Fox Creek	3PH 4 ACSR	3PH 336 ACSR	\$80,000			\$136,000	
Subtotals =									\$0	\$77,000	\$552,000	
Substation 23 - Sinia												
323-01	353		1409042 - 1509053	3.5	Fox Creek	1PH 6 CU	3PH 1/0 ACSR	\$55,000	\$192,500			
323-02			1508068	1.7	Fox Creek	1PH 6 CU	3PH 1/0 ACSR	\$55,000			\$93,500	
323-03			1608022 - 1608057	1.7	Fox Creek	1PH 8 CU	3PH 1/0 ACSR	\$55,000			\$93,500	
323-04			1608024 - 1608011	1.7	Fox Creek	1PH 8 CU	3PH 1/0 ACSR	\$55,000			\$93,500	
323-05	351		1307012	2.0	Fox Creek	1PH 6 CU	3PH 1/0 ACSR	\$55,000	\$110,000			
323-06	349		1408059 - 1407026	4.2	Fox Creek	3PH 4 ACSR	3PH 336 ACSR	\$80,000			\$336,000	
323-07			1408069 - 1408070	0.6	Fox Creek	1PH 8 CU	3PH 1/0 ACSR	\$55,000	\$33,000			
Subtotals =									\$335,500	\$280,500	\$336,000	
Substation 24 - Van Arsdell												
324-01			1611043 - 1611044	3.3	Fox Creek	3PH 4 ACSR	3PH 1/0 ACSR	\$55,000			\$181,500	
324-02			1611046	2.0	Fox Creek	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000			\$110,000	
324-03			1711047	1.8	Fox Creek	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000	\$99,000			
324-04			1610046	1.0	Fox Creek	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000		\$55,000		
324-05			1710062	0.8	Fox Creek	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000		\$44,000		
324-06			1710063 - 1710065	0.8	Fox Creek	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000	\$44,000			
324-07			1510058 - 1510078	3.8	Fox Creek	3PH 4 ACSR	3PH 1/0 ACSR	\$55,000		\$209,000		
324-08			1510089 - 1410070	2.1	Fox Creek	1PH 6 CU	3PH 1/0 ACSR	\$55,000		\$115,500		
324-09	358		1610061 - 1609051	3.1	Fox Creek	1PH 6 CU	3PH 1/0 ACSR	\$55,000	\$170,500			
324-10			1610085	2.1	Fox Creek	1PH 1/0 ACSR	3PH 1/0 ACSR	\$55,000	\$115,500			
Subtotals =									\$429,000	\$423,500	\$291,500	
Substation 25 - Mercer County												
No Construction					Fox Creek							
Subtotals =									\$0	\$0	\$0	
Substation 26 - Clay Lick												
326-01	362		1411160 & 1411145	2.0	Fox Creek	1PH 6 CU	3PH 1/0 ACSR	\$55,000			\$110,000	
326-02	366		??	1.7	Fox Creek	1PH 8 CU	2PH 1/0 ACSR	\$40,000	\$68,000			
326-03			1512020 & 1512022	2.5	Fox Creek	1PH 6 CU	3PH 1/0 ACSR	\$55,000		\$137,500		
326-04			1410049	2.1	Fox Creek	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000		\$115,500		
326-05	361		1511085 & 1510103	1.6	Fox Creek	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000	\$88,000			
Subtotals =									\$156,000	\$253,000	\$110,000	

BLUE GRASS ENERGY

Kentucky 64 Jessamine
Nicholasville, Kentucky

RUS Ref. #	Carry Over	Priority Code	Line Section	Miles	District	Existing Construction	Proposed Construction	\$/Mile	Cost 2007	Cost 2008	Cost 2009	Construction Justification
Substation 27 - Chaplin												
No Construction					Fox Creek							
								Subtotals =	\$0	\$0	\$0	
Substation 28 - Powell Taylor												
328-01	354		1309036 - 1309038	2.0	Fox Creek	1PH 6 CU	3PH 1/0 ACSR	\$55,000		\$110,000		
328-02	367		Sub Exits	0.6	Fox Creek	N/A	3PH 500 MCM URD	\$250,000	\$150,000			
328-03	355A		1309060 - 1309049	1.6	Fox Creek	1PH 6 CU	3PH 1/0 ACSR	\$55,000	\$88,000			
								Subtotals =	\$238,000	\$110,000	\$0	
Substation 31 - Bracken County												
331-01	390		0318020 - 0319040	0.8	Harrison	1PH 4 ACSR	2PH 2 ACSR	\$40,000	\$32,000			
331-02	392		0219010	0.7	Harrison	1PH 6 CU	3PH 1/0 ACSR	\$55,000		\$38,500		
331-03			0419047 - 0419040	1.8	Harrison	3PH 4 ACSR	3PH 336 ACSR	\$80,000	\$144,000			
								Subtotals =	\$176,000	\$38,500	\$0	
Substation 32 - Colemansville												
332-01			0617052 - 0617032	4.4	Harrison	3PH 4 ACSR	3PH 336 ACSR	\$80,000		\$352,000		
332-02	398		0616047 - 0419040	5.1	Harrison	3PH 4 ACSR	3PH 336 ACSR	\$80,000	\$408,000			
								Subtotals =	\$408,000	\$352,000	\$0	
Substation 33 - Four Oaks												
333-01			417065	1.0	Harrison	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000			\$55,000	
333-02			0517061 - 0618054	2.2	Harrison	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000			\$121,000	
333-03	387		517073	0.8	Harrison	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000	\$44,000			
333-04			0618052 - 0618054	2.5	Harrison	3PH 4 ACSR	3PH 336 ACSR	\$80,000	\$200,000			
								Subtotals =	\$244,000	\$0	\$176,000	
Substation 34 - Lees Lick												
334-01			0815064	0.8	Harrison	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000	\$44,000			
334-02	379		0815053	1.0	Harrison	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000	\$55,000			
334-03	378		0715046	1.9	Harrison	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000		\$104,500		
334-04			0816066 - 0716049	5.0	Harrison	3PH 4 ACSR	3PH 336 ACSR	\$80,000			\$400,000	
334-05			0916068	1.3	Harrison	3PH 4 ACSR	3PH 336 ACSR	\$80,000			\$104,000	
								Subtotals =	\$99,000	\$104,500	\$504,000	
Substation 35 - Cynthaina												
335-01			817131	0.3	Harrison	3PH 1/0 URD	3PH 500 MCM URD	\$250,000		\$75,000		
335-02			0818056 - 0818059	2.1	Harrison	3PH 4 ACSR	3PH 336 ACSR	\$80,000		\$168,000		
335-03			0817078 - 0816055	3.3	Harrison	3PH 6 CU	3PH 336 ACSR	\$80,000	\$264,000			
								Subtotals =	\$264,000	\$243,000	\$0	
Substation 36 - Headquarters												
336-01			Sub Exits	1.0	Harrison	N/A	3PH 336 ACSR	\$80,000		\$80,000		
336-02			820035	0.9	Harrison	1PH 4 ACSR	3PH 1/0 ACSR	\$55,000	\$49,500			
								Subtotals =	\$49,500	\$80,000	\$0	
Substation 37 - 3M												
No Construction					Harrison							
								Subtotals =	\$0	\$0	\$0	
Substation 38 - Millersburg												
338-01			1020066	2.0	Harrison	3PH 4 ACSR	3PH 336 ACSR	\$80,000		\$160,000		
								Subtotals =	\$0	\$160,000	\$0	
Substation 39 - Jacksonville												
339-01			"0916078 - 0916080"	2.2	Harrison	3PH 4 ACSR	3PH 336 ACSR	\$80,000		\$176,000		
339-02			1017038	2.0	Harrison	2PH 4 ACSR	3PH 336 ACSR	\$80,000			\$160,000	
339-03			1017029	0.8	Harrison	3PH 4 ACSR	3PH 1/0 ACSR	\$55,000			\$44,000	
								Subtotals =	\$0	\$176,000	\$204,000	
Substation 40 - Oxford												
340-01			1015106 - 1015078	1.6	Harrison	3PH 1/0 ACSR	3PH 336 ACSR	\$80,000		\$128,000		
340-02			1015097 - 1015091	3.5	Harrison	KU Route	3PH 336 ACSR	\$80,000		\$280,000		
								Subtotals =	\$0	\$408,000	\$0	
Total Miles: 157.6									Cost 2006	Cost 2007	Cost 2008	Totals
									\$0	\$0	\$0	\$0
Total for New Construction and Tie Lines (Code 200 Items) =									\$0	\$0	\$0	\$0
Total for Line Conversions and Changes (Code 300 Items) =									\$3,992,600	\$3,570,000	\$3,366,500	\$10,929,100
Distribution Line Construction Totals =									\$3,992,600	\$3,570,000	\$3,366,500	\$10,929,100

Exhibit G

Substation and Meter Point Cost Estimates

Pages: 1

BLUE GRASS ENERGY

Kentucky 64 Jessamine
Nicholasville, Kentucky

**2006-2008 CONSTRUCTION WORK PLAN
Substation and Meter Point Cost Estimates**

NEW SUBSTATIONS AND METER POINTS (Ref. Code 400):

POWER SUPPLIER CHANGES RECOMMENDED:

N/A

SUBSTATION AND METER POINT CHANGE S (Ref. Code 500):

POWER SUPPLIER CHANGES RECOMMENDED:

2006 West Nicholasville Upgrade

2007 West Berea Upgrade

Exhibit H

Voltage Regulator Recommendations and Cost Estimates

2007-2009 CONSTRUCTION WORK PLAN
Voltage Regulator Recommendations and Cost Estimates
RUS Reference Code 604

BGE presently uses line voltage regulators to increase voltage on circuits where the combination of conductor size, load current and distance from the substation produce voltage below acceptable limits. The placement of said regulators will be adjusted as system improvement projects are completed. The additional regulators needed through the end of this CWP are as follows:

- (6) 100 Amp Regulators @ \$5,500 each = \$33,000
- (6) 150 Amp Regulators @ \$6,500 each = \$39,000
- (6) 219 Amp Regulators @ \$8,000 each = \$48,000

RUS Reference Code 604: \$120,000

Exhibit I

Capacitor Recommendations and Cost Estimates

Pages: 1

**2007-2009 CONSTRUCTION WORK PLAN
Capacitor Recommendations and Cost Estimates
RUS Reference Code 605**

The capacitor study conducted in conjunction with the primary analysis indicates the need installation of approximately 30 - 300 KVAR capacitors banks to improve power factor, lower system losses and improve system voltage. Said capacitors are to be installed as CWP system improvement projects are completed and as the load increases during the Work Plan period.

BGE's G&T (East Kentucky Power Cooperative) supply the actual needed capacitors and racks. BGE must supply the additional equipment and install the units. The estimated cost per installed bank is \$2,500.

RUS Reference Code 605: \$75,000

Exhibit J

Sectionalizing Summary and Cost Estimates

Pages: 1

BLUE GRASS ENERGY

Kentucky 64 Jessamine
Nicholasville, Kentucky

**2007-2009 CONSTRUCTION WORK PLAN
Sectionalizing Recommendations and Cost Estimates
RUS Reference Code 603**

Blue Grass Energy has retained the firm of Patterson & Dewar Engineers, Inc. to develop and deliver a new sectionalizing study of their complete electrical distribution system. Said study will review and recommend coordination philosophy with input from the BGE engineering and operation staff. The recommendations will comprise fusing, recloser and breaker settings, sectionalizing equipment and all pertinent devices from the low-side of each sub station to the end of each circuit/feeder. Coordination with sub station high-side fusing and relaying will be included within the scope of the study.

The estimated cost of the equipment and labor for this project is slightly greater than \$1,000,000.

RUS Reference Code 603: \$1,000,000

Exhibit K

Aged Copper Conductor Replacement Summary

Pages: 1

BLUE GRASS ENERGY

Kentucky 64 Jessamine
Nicholasville, Kentucky

**2007-2009 CONSTRUCTION WORK PLAN
Aged Conductor Replacement
RUS Reference Code 607**

BGE is presently replacing aged overhead and underground conductor on an as-needed basis prioritized by operating conditions and outages. The firm of Patterson & Dewar Engineers, Inc. has been retained by BGE to conduct a reliability study of their electric distribution system. One aspect of said study is to ascertain and review existing plant as to its condition and operating ability.

One deliverable of this study will most likely be an aged conductor report with recommendations for future replacement of such plant.

This CWP includes the replacement of approximately 22 miles of aged overhead and underground conductor at a price of \$30,000 per mile.

RUS Reference Code 607: \$660,000

Exhibit L

System Design and Operational Criteria

Pages: 6

2007 ~ 2009 CONSTRUCTION WORK PLAN
System Design Criteria

Each of the criteria items listed below was reviewed and concurred by the RUS General Field Representative ('GFR') for Blue Grass Energy Cooperative Corporation ('BGE') on September 20, 2006.

Construction proposed in this construction work plan (CWP) is required to meet the following minimum standards of adequacy for voltages, thermal loading, safety and reliability on the system. Note that references to future conditions imply the current CWP projections.

It is further understood that the criteria given herein is considered to be a guideline and not a mandate. Oftentimes system conditions will occur which may result in a breach of a specific criteria. Such a condition is considered to be only temporary and is not intended for long range operations.

I. SYSTEM DESIGN CRITERIA**A. Substations:**

1. BGE's power supplier, East Kentucky Power Cooperative (EKPC), has the primary responsibility for providing the substation transformer capacity including regulation. It is EKPC's responsibility to provide BGE the requested delivery voltage to BGE's low side inter-connect point for power distribution.
2. EKPC establishes the capacity of the equipment in each substation. It is defined for both the winter and the summer peak conditions. EKPC's current policy is to load power transformers to 95 percent of the full winter or summer rating with at least a 95 percent power factor. When that load level is exceeded, system planning is set in place for either providing additional capacity in the service area or evaluating opportunities for temporary transfer of load to adjoining substation(s).
3. All new substations and/or delivery points will be justified per the current Long Range System Study as well as power supply studies following the format required by the Power Supplier.
4. Substation feeder protection will be accomplished per the following criteria:
 - Phase pickup levels will be such to protect feeder conductors as well as to be approximately 1.5 - 2.0 times full load continuous current levels.
 - Ground pickup will be set to respond to the minimum down line calculated fault current level based on a 40 ohm high impedance primary fault.
 - Coordination will be determined via the criteria established in the forthcoming sectionalizing study.
5. Feeder current balance should be maintained at plus or minus 20% of the average per phase loading at peak conditions.

B. Distribution Lines:

1. All new distribution lines are to be designed and built according to RUS standard construction specifications and guidelines for the *medium* NESC loading district.
2. All new primary construction is to be overhead except where underground is required to comply with governmental or environmental regulations, local restrictions or favorable economics.
3. New lines and line conversions are to be built according to the standard 7.2/12.47 kV or 14.4/25 kV primary voltage levels as recommended in the current Long Range System Study.

2007 ~ 2009 CONSTRUCTION WORK PLAN
System Design Criteria

4. New primary conductor sizes are to be determined on a case by case basis using the Economic Conductor Analysis computer program along with local input based upon specific system conditions. A minimum of 1/0 ACSR is to be used on main three-phase lines and a minimum of 2 ACSR is to be used on tap lines.
5. Primary conductors are not to be loaded for long periods of time, over 50% of their thermal rating for summer loading, or 65% for winter. Operating capacity is defined as the manufacturer's conductor ratings at the conductor's maximum operating temperature of 75° C (or 167° F), with a 25° C or (77° F) ambient temperature and a 2 mph wind. Major tie lines between substations can be loaded to 100% of operating capacity during back feed or emergency situations.
6. The maximum voltage drop from the substation on primary distribution lines is normally not to exceed 8 volts unregulated, 16 volts with one bank of line voltage regulators, and 24 volts with two banks of line voltage regulators.
7. Single-phase taps will be considered for multi-phasing if conditions are present that meet all of the following criteria:
 - Serve more than 60 consumers @ 7.2/12.47 kV or 120 @ 14.4/5 kV.
 - Have a projected future load over 250 to 360 kW @ 7.2/12.47 kV (35 to 50 amps) or equivalent at 14.4/25 kV.
 - The tap serves an area that is growing.
8. Conductors are to be considered for replacement if found to be in poor condition and have contributed to multiple line outages.

C. Distribution Line Equipment:

1. Distribution class MOV arresters and related pole grounds are to be considered for installation at a minimum of every 1,500 feet of line when additional equipment arresters are not present.
2. Line voltage regulator projected future loading will be limited to 95% of nameplate rating at 10% buck or boost or 150% at 5% buck or boost.
3. Capacitor banks will be installed on distribution lines as required to maintain no less than 95% lagging power factor at peak loading conditions. Capacitors will be located so as to maximize the kW loss reduction and to limit the voltage rise on the circuit extremities.
4. Line sectionalizing devices (e.g. circuit reclosers - CR, sectionalizers, fuses, etc.) are to be applied per the following guidelines:
 - No sectionalizing device will be located such that its rated nameplate maximum fault interrupting capacity is exceeded.
 - Vacuum interrupting devices will be evaluated on all newly purchased units in lieu of oil interrupting.
 - The sectionalizing system shall be designed such that any 40 ohm primary fault will be detected, interrupted and isolated.
 - Sectionalizing devices should not be loaded more than 85% of continuous nameplate ratings.
 - CR to CR coordination is to be based on a minimum separation of 3 cycle for electronic controls or 8 cycles for hydraulic controls between delayed curves at the maximum fault on the down line device with a minimum of 12 cycles separation between delayed curves desired.

2007 ~ 2009 CONSTRUCTION WORK PLAN
System Design Criteria

- Line reclosers shall operate on the time current characteristics curves established in the forthcoming sectionalizing study
- Line reclosers are to be maintained systematically based on the number of operations and/or years since last maintained. Present criteria are 5 years or 100 operations, whichever comes first.

D. Service Reliability:

1. Outage datum will be accumulated and evaluated in accordance with the latest RUS Bulletin 161-1.
2. Outages will be evaluated and classified as to cause by substation. The outages will then be evaluated for any reduction efforts that may be possible.
3. System wide total consumer outages are to be limited to less than 5 consumer outage hour's average per year; less than 3.5 consumer outage hours will be targeted.
4. Efforts, where practical, shall be made to provide alternative feeds to critical loads and substation feeders.
5. BGE's power supplier, EKPC, will be encouraged to maintain a power supplier outage average per year of less than 1.0 hour per consumer. Power supply annual average above 1.0 hour will be reviewed and evaluated for possible system improvement.

E. Voltage Conditions:

1. Voltage levels will be maintained in accordance with the latest RUS Bulletin 169-4 and the latest edition of the American National Standards Institute (ANSI) Standard C84.1. (See **Table 1**) The ANSI Standard defines "Range A" and "Range B" voltage limits as follows:

- **Range A - Service Voltage**

Electric supply systems shall be so designed and operated that most service voltages are within the limits specified for this range. The occurrence of service voltages outside these limits is to be infrequent.

- **Range A - Utilization Voltage**

User systems shall be so designed and operated such that, with service voltages within Range A limits, most utilization voltages are within the limits specified for this range. Utilization equipment shall be so designed and rated to give fully satisfactory performance throughout this range.

- **Range B - Service and Utilization Voltages**

This range includes voltages above and below Range A limits that necessarily result from practical design and operating conditions on supply and/or user systems. Although such conditions are a part of practical operations, they shall be limited in extent, frequency and duration. When they occur, corrective measures shall be undertaken within a reasonable time to improve voltages to meet Range A requirements.

Insofar as practicable, utilization equipment shall be designed to give acceptable performances in the extremes of this range of utilization voltage, although not necessarily as good performance as in Range A.

2007 ~ 2009 CONSTRUCTION WORK PLAN
System Design Criteria

Table 1. Voltage Ranges ANSI Standard C84.1 (120 volt base)

Range	Minimum		Service Voltage	Maximum
	Utilization Voltage*			Utilization & Service Voltage
	Non-lighting loads	Loads including lighting		
A	108	110	114	126
B	104	106	110	127

* **Note:** Caution should be exercised in using minimum utilization voltage as in some cases they may not be satisfactory for the equipment served. For example, where existing 220-volt motors are used on 208-volt circuits, the minimum utilization voltage permitted would not be adequate for the operation of motors.

2. Basic RUS Recommended Design Criteria (**Table 2**):

- Rural electric distributions systems should be designed and operated to meet the voltage level requirements of “Range A” in ANSI C84.1-1970. Users’ utilization electrical equipment of all types will generally be designed to give satisfactory performance in this range.
- It is recognized that maintaining voltage levels within “Range A” on all parts of the system at all times cannot be assured. Due to the economics of operation, there may be some system voltages that fall in extremes of “Range B” and even beyond. This may occasionally occur as the feeder reaches its design loading limit at annual or semi-annual peak loads.
- When voltages frequently extend into “Range B”, they should be corrected to conform to “Range A” requirements within a reasonable time. If voltages on any part of the system fall outside the limits of “Range B”, corrective actions should be taken immediately to bring these voltages within “Range B” requirements within a reasonable time.

Table 2. Voltage Drops for Rural Electric Distribution System Design (120 volt base)

	Maximum Volts Drop	Percent Volts Drop
Substation regulated bus (output) to last distribution transformer (primary)	8	6.67 %
Distribution transformer (primary) to service delivery connection to consumers’ wiring (meter or entrance)	4	3.33 %
Utility service delivery point (meter or entrance switch) to consumers’ utilization terminal (outlet):		
Loads including Lights	4	3.33 %
Non-lighting Loads	6	5.00 %

Some types of utilization equipment will not perform satisfactorily or efficiently at the extremes of “Range B” voltages. Outside “Range B” voltage limits, many types of utilization equipment may fail to operate and may be seriously damaged or suffer shortened operating life. Voltages above these limits of Range B may be especially damaging to the users’ equipment.

2007 ~ 2009 CONSTRUCTION WORK PLAN
System Design Criteria

3. The voltage input to distribution substations should be kept within limits as follows:
- Substation voltages are kept within the design limits of the substation transformers and other equipment.
 - The substation voltage regulator can maintain the voltages on its output bus within the limits given in **Table 3**.

Table 3. Voltage Level Limits and Spread for Rural Electric Distribution Systems.
(Measured at center of regulator bandwidth - 120 volt base)

	Voltage Levels (Volts)		Voltage Spread (Volts)
	Minimum	Maximum	
Substation Regulated Bus with Regulator:			
Line Drop Compensator in Use	122	126	4
Distribution Transformer Primary Terminals:			
Adjacent to substation bus	122	126	4
At end of line (8-Volt drop)	118	122	4
Service Connection (Meter Socket):			
At transformer nearest substation bus	118	126	8
At end of line (8-Volt drop on primary)	114	122	8
Point of Consumer Utilization:			
At transformer nearest to substation bus			
(Lighting load)	112	126	14
(Non-lighting loads)	108	126	18
At 8-volt drop on primary			
(Lighting load)	110	122	12
(Non-lighting load)	108	122	14

2007 ~ 2009 CONSTRUCTION WORK PLAN
System Design Criteria

4. Basic RUS recommended operating conditions, voltage level and limit values are based on the following:
 - The outgoing substation voltage is regulated by a suitable voltage regulator.
 - The regulator voltage band width setting does not exceed two volts on a 120-volt base.
 - Voltage values used are at the center of the voltage regulator band width.
 - Only sustained voltages apply to these levels and limits. The flicker and variations caused by motor starting, equipment switching, variation of voltage within the voltage regulator band width, and similar short duration variations are not considered.
 - Refer to RUS Bulletin 169-27, *Voltage Regulator Application on Rural Distribution Systems*, for detailed guidelines on voltage regulator installation and appropriate settings for voltage level, bandwidth, time delay, range of regulation, and line drop compensation (LDC).

F. Annual System Losses:

Annual system losses will be monitored and evaluated annually per the guidelines established by the latest RUS Bulletin 45-4.

1. Efforts should be made to limit the annual distribution system losses to 5% or less.
2. When there is a more than 1.0 - 1.5% change in losses from one year to the next, efforts are to be made to evaluate the cause. Such efforts should include the following to assure that there is not a metering error with the power supplier or a large power consumer resulting in incorrect charges and/or revenue:
 - Check all substations that have had a change in metering equipment over the last 12 - 24 months.
 - Check all new substations that were constructed over the last 12 - 24 months and verify correctness of metering.
 - Check all new or recently revised large power load metering and verify correctness.
3. Line drop compensation (LDC) should be utilized on all substation regulators to improve line voltage swings and reduce overhead transformer no-load losses during off-peak conditions. Line regulators should also utilize LDC when controls can be satisfactorily applied and monitored.
4. Purchases of the following distribution equipment should be based on evaluated losses to reduce system losses and to contribute to a higher annual load factor:
 - Consumer overhead transformers
 - Consumer underground transformers
 - Voltage Regulators

Exhibit M

Operations and Maintenance Survey (RUS Form 300)

Pages: 3



United States Department of Agriculture
Rural Development

Rural Business-Cooperative Service • Rural Housing Service • Rural Utilities Service
Washington, DC 20250

September 16, 2005

SUBJECT: OPERATIONS AND MAINTENANCE SURVEY

TO: DAN BREWER, PRESIDENT AND CEO
BLUE GRASS ENERGY COOPERATIVE

In accordance with 7 CFR 1730-1, a review and evaluation of your electric system and facilities as related to system operation and maintenance was made on September 16, 2005.

The objectives of this review are to carry out RUS's responsibility for loan security and to assure that your electric plant is being operated and maintained in a safe and satisfactory condition and that you are providing an acceptable quality of service.

My review has indicated that your facilities are being adequately operated and maintained and you have an effective O & M program supported by proper records.

We observed trees in or close to the lines which were not yard trees. A more aggressive right-of-way clearing program is recommended. Non-yard trees and trees growing on the transformer pole should be removed, not trimmed.

MIKE NORMAN
RUS FIELD REPRESENTATIVE

Rural Development is an Equal Opportunity Lender
Complaints of discrimination should be sent to:
Secretary of Agriculture, Washington, DC 20250

Public reporting burden for this collection of information is estimated to average 4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Department of Agriculture, Clearance Officer, OC, OMB Control # 0572-0025, AG Box 7630, Washington, DC 20250. You are not required to respond to this collection of information unless this form displays the currently valid OMB control number.

UNITED STATES DEPARTMENT OF AGRICULTURE RURAL UTILITIES SERVICE REVIEW RATING SUMMARY	BORROWER DESIGNATION <p style="text-align: center;">KY 64</p> <hr/> DATE PREPARED <p style="text-align: center;">9/16/2005</p>
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Ratings on form are: 0: Unsatisfactory -- No Records 2: Acceptable, but Should be Improved -- See Attached Recommendations
 NA: Not Applicable 1: Corrective Action Needed 3: Satisfactory -- No Additional Action Required at this Time

PART I. TRANSMISSION and DISTRIBUTION FACILITIES

1. Substations (Transmission and Distribution) (Rating) a. Safety, Clearance, Code Compliance NA b. Physical Conditions: Structure, Major Equipment, Appearance NA c. Inspection Records Each Substation NA d. Oil Spill Prevention NA 2. Transmission Lines a. Right-of-Way: Clearing, Erosion, Appearance, Intrusions NA b. Physical Condition: Structure, Conductor, Guying NA c. Inspection Program and Records NA 3. Distribution Lines - Overhead a. Inspection Program and Records 3 b. Compliance with Safety Codes: Clearances 3 Foreign Structures 2 Attachments 2 c. Observed Physical Condition from Field Checking: Right-of-Way 2 Other NA	4. Distribution - Underground Cable (Rating) a. Grounding and Corrosion Control 3 b. Surface Grading, Appearance 3 c. Riser Pole: Hazards, Guying, Condition 3 5. Distribution Line Equipment: Conditions and Records a. Voltage Regulators 2 b. Sectionalizing Equipment 2 c. Distribution Transformers 3 d. Pad Mounted Equipment Safety: Locking, Dead Front, Barriers 3 Appearance: Settlement, Condition 3 Other NA e. Kilowatt-hour and Demand Meter Reading and Testing 3
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PART II. OPERATIONS and MAINTENANCE

6. Line Maintenance and Work Order Procedures (Rating) a. Work Planning & Scheduling 3 b. Work Backlogs: Right-of-Way Maintenance 3 Poles 3 Retirement of Idle Services 3 Other NA 7. Service Interruptions a. Average Annual Hours/Consumer by Cause (Complete for each of the previous 5 years) <table border="1" style="width:100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width:10%;">PREVIOUS 5 YEARS (Year)</th> <th style="width:10%;">POWER SUPPLIER a.</th> <th style="width:10%;">MAJOR STORM b.</th> <th style="width:10%;">SCHEDULED c.</th> <th style="width:10%;">ALL OTHER d.</th> <th style="width:10%;">TOTAL e.</th> <th style="width:10%;">(Rating)</th> </tr> </thead> <tbody> <tr> <td>2000</td> <td>0.04</td> <td>0.22</td> <td>0.03</td> <td>0.60</td> <td>0.89</td> <td>3</td> </tr> <tr> <td>2001</td> <td>0.30</td> <td></td> <td>0.03</td> <td>1.31</td> <td>1.64</td> <td>3</td> </tr> <tr> <td>2002</td> <td>0.30</td> <td>0.20</td> <td>0.01</td> <td>1.43</td> <td>1.94</td> <td>3</td> </tr> <tr> <td>2003</td> <td>0.14</td> <td>17.18</td> <td>0.01</td> <td>1.70</td> <td>19.03</td> <td>2</td> </tr> <tr> <td>2004</td> <td>1.16</td> <td>2.45</td> <td>0.02</td> <td>2.05</td> <td>5.68</td> <td>2</td> </tr> </tbody> </table>	PREVIOUS 5 YEARS (Year)	POWER SUPPLIER a.	MAJOR STORM b.	SCHEDULED c.	ALL OTHER d.	TOTAL e.	(Rating)	2000	0.04	0.22	0.03	0.60	0.89	3	2001	0.30		0.03	1.31	1.64	3	2002	0.30	0.20	0.01	1.43	1.94	3	2003	0.14	17.18	0.01	1.70	19.03	2	2004	1.16	2.45	0.02	2.05	5.68	2	8. Power Quality (Rating) a. General Freedom from Complaints 3 9. Loading and Load Balance a. Distribution Transformer Loading 3 b. Load Control Apparatus NA c. Substation and Feeder Loading 3 10. Maps and Plant Records a. Operating Maps: Accurate and Up-to-Date 2 b. Circuit Diagrams 3 c. Staking Sheets 3 b. Emergency Restoration Plan 3
PREVIOUS 5 YEARS (Year)	POWER SUPPLIER a.	MAJOR STORM b.	SCHEDULED c.	ALL OTHER d.	TOTAL e.	(Rating)																																					
2000	0.04	0.22	0.03	0.60	0.89	3																																					
2001	0.30		0.03	1.31	1.64	3																																					
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2003	0.14	17.18	0.01	1.70	19.03	2																																					
2004	1.16	2.45	0.02	2.05	5.68	2																																					

PART III. ENGINEERING

11. System Load Conditions and Losses (Rating) a. Annual System Losses 5.30% 3 b. Annual Load Factor 44.5% 3 c. Power Factor at Monthly Peak 95+% 3 d. Ratios of Individual Substation Annual Peak kW to kVA 3 12. Voltage Conditions a. Voltage Surveys 3 b. Substation Transformer Output Voltage Spread 3	13. Load Studies and Planning (Rating) a. Long Range Engineering Plan 3 b. Construction Work Plan 3 c. Sectionalizing Study 3 d. Load Data for Engineering Studies 3 e. Load Forecasting Data 3
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PART IV. OPERATION AND MAINTENANCE BUDGETS

YEAR	For Previous 2 Years		For Present Year	For Future 3 Years		
	2003	2004	2005	2006	2007	2008
	Actual \$ Thousands	Actual \$ Thousands	Budget \$ Thousands	Budget \$ Thousands	Budget \$ Thousands	Budget \$ Thousands
Normal Operation	\$1,873,203	\$1,983,184	\$2,228,650	\$2,295,510	\$2,364,375	\$2,435,306
Normal Maintenance	\$4,230,748	\$4,123,514	\$3,929,900	\$4,047,797	\$4,169,231	\$4,294,308
Additional (Deferred) Maintenance						
Total	\$6,103,951	\$6,106,698	\$6,158,550	\$6,343,307	\$6,533,606	\$6,729,614

14. Budgeting: Adequacy of Budgets for Needed Work 3 (Rating)

15. Date Discussed with Board of Directors 10/20/2005

EXPLANATORY NOTES

ITEM NO.	COMMENTS
3b.	Telephone poles left standing next to electric poles need to be removed. Cable TV attachments require constant follow-up to ensure code compliance. A program is underway to review all attachment agreements.
3c.	Non-yard trees in the right-of-way should be removed, not trimmed.
5a. and 5b.	A computerized maintenance program will be developed with the new GIS system.
7a.	There was a severe ice storm in 2003 and a lesser ice storm in 2004.
10a.	The new mapping system with GPS technology will be completed in early 2006.

	TITLE	DATE
RATED BY: <i>Chris Brauer</i>	VP ENGINEERING	9/16/2005
REVIEWED BY: <i>[Signature]</i>	PRESIDENT & CEO	9/16/2005
REVIEWED BY: <i>[Signature]</i>	RUS GFR	9/16/2005

Exhibit N

Economic Conductor Loading

Pages: 7

**CONDUCTOR LIFE CYCLE ANALYSIS
(NEW CONSTRUCTION LEGEND AND INPUT VALUES)**

<u>0.00%</u>	TOTAL	Total fixed cost. This is an optional replacement for O & M + TAX + DEP + INS.
**	<u>5.37%</u>	O & M Operations and Maintenance Expense as a percentage of Average Net Distribution Plant calculated using RUS Bulletin 1724D-101A Electric System Long-Range Planning Guide based on <i>RUS Fixed Charge Calculation Guide</i>
	<u>0.00%</u>	TAX Property tax: annual Form 7, last year Part A, line 13(b) Plant the taxes were paid on: annual Form 7, 2 years ago, Part C, line 5 + line 22 Tax Rate: (Property tax / Plant) x 100, or estimated future tax rate
	<u>3.89%</u>	DEP Most Owners use straight-line depreciation where the depreciation rate is the reciprocal of the asset's life. Use annual rate for Coop, for classes of plant Depreciation rate on RUS Form 7 Part E Lines 5(f) and line 6(f)
	<u>0.00%</u>	INS Insurance as a percentage of Net Distribution Plant. Calculating the cost of insurance as a percentage of investment is difficult, and the result makes little difference; therefore, it can be ignored for most applications.
<u>2.00%</u>	INF	The annual inflation rate.
<u>35</u>	m	The loan amortization period in years.
<u>7.2 & 14.4</u>	KV	Line to ground voltage in kV.
<u>99.00%</u>	PF	Peak month power factor.
<u>7.18%</u>	INT	Cost of Capital (Calculated using <i>RUS Fixed Charge Guide</i>) used for Present Worth Calculation
<u>3.06%</u>	LGR	The annual rate of growth projected for the peak demand. (Use latest PRS)
<u>30</u>	ULC	Useful Life of Conductor
<u>\$0.00</u>	\$/KW	Monthly demand charge in dollars per kW per month. If \$/KW is zero the following dependant inputs will also be zero:
<u>0.00%</u>	KWI	Demand charge inflation rate.
<u>0.00%</u>	CF	Coincidence factor - This factor represents the coincidence between the non coincident peak for the line and billing demand.
<u>0.000</u>	RMO	The number of months the metered demand exceeds the minimum billing demand.
<u>0.000</u>	RAT	The annual demand ratchet expressed as a decimal.
<u>0.000</u>	N	The ratio of the average of the squares of the monthly kW demands for the months when the metered demand exceeds the minimum billing demand to the square of the peak month demand.
<u>\$0.0508</u>	\$/KWH	Energy charge in dollars per kWh per month.
<u>2.00%</u>	KWHI	Energy charge inflation rate.
<u>47.20%</u>	LF	Annual load factor.

**CONDUCTOR LIFE CYCLE ANALYSIS
(NEW CONSTRUCTION LEGEND AND INPUT VALUES)**

<u>0.00%</u>	TOTAL	Total fixed cost. This is an optional replacement for O & M + TAX + DEP + INS.
<u>5.37%</u>	O & M	Operations and Maintenance Expense as a percentage of Average Net Distribution Plant calculated using RUS Bulletin 1724D-101A Electric System Long-Range Planning Guide based on <i>RUS Fixed Charge Calculation Guide</i>
<u>0.00%</u>	TAX	Property tax: annual Form 7, last year Part A, line 13(b) Plant the taxes were paid on: annual Form 7, 2 years ago, Part C, line 5 + line 22 Tax Rate: (Property tax / Plant) x 100, or estimated future tax rate
<u>3.89%</u>	DEP	Most Owners use straight-line depreciation where the depreciation rate is the reciprocal of the asset's life. Use annual rate for Coop, for classes of plant Depreciation rate on RUS Form 7 Part E Lines 5(f) and line 6(f)
<u>0.00%</u>	INS	Insurance as a percentage of Net Distribution Plant. Calculating the cost of insurance as a percentage of investment is difficult, and the result makes little difference, therefore, it can be ignored for most applications.
<u>2.00%</u>	INF	The annual inflation rate.
<u>35</u>	m	The loan amortization period in years.
<u>14.4</u>	KV	Line to ground voltage in kV.
<u>99.00%</u>	PF	Peak month power factor.
<u>7.18%</u>	INT	Cost of Debt (Calculated using <i>RUS Fixed Charge Guide</i>)
<u>3.06%</u>	LGR	The annual rate of growth projected for the peak demand. (Use latest PRS)
<u>30</u>	ULC	Useful Life of Conductor
<u>\$0.00</u>	\$/KW	Monthly demand charge in dollars per kW per month. If \$/KW is zero the following dependant inputs will also be zero:
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<u>0.00%</u>	CF	Coincidence factor - This factor represents the coincidence between the non coincident peak for the line and billing demand.
<u>0.000</u>	RMO	The number of months the metered demand exceeds the minimum billing demand.
<u>0.000</u>	RAT	The annual demand ratchet expressed as a decimal.
<u>0.000</u>	N	The ratio of the average of the squares of the monthly kW demands for the months when the metered demand exceeds the minimum billing demand to the square of the peak month demand.
<u>\$0.0508</u>	\$/KWH	Energy charge in dollars per KWH per month.
<u>2.00%</u>	KWHI	Energy charge inflation rate.
<u>47.20%</u>	LF	Annual load factor.

Conductor Size and Cost

	Phases	Size	Cost/Mile
Cond-1	<u>3</u> Ø	1/0 ACSR	\$45,000
Cond-2	<u>3</u> Ø	336 ACSR	\$80,000
Cond-3	<u>3</u> Ø	556 ACSR	\$100,000
Cond-4	<u>0</u> Ø	0	\$0
Cond-5	<u>0</u> Ø	0	\$0
Cond-6	<u>0</u> Ø	0	\$0

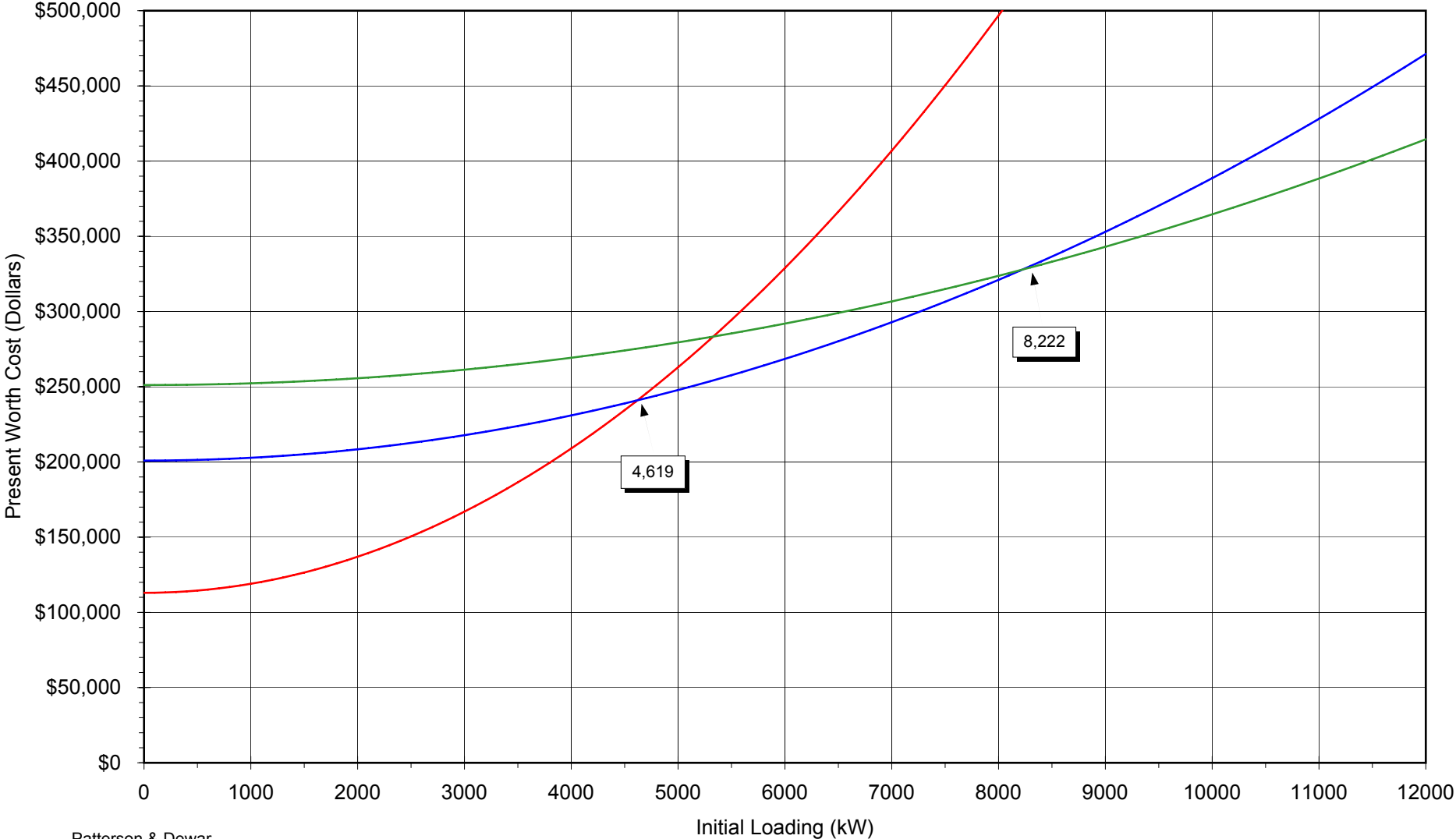
**CONDUCTOR LIFE CYCLE ANALYSIS
(NEW CONSTRUCTION LEGEND AND INPUT VALUES)**

<u>0.00%</u>	TOTAL	Total fixed cost. This is an optional replacement for O & M + TAX + DEP + INS.
<u>5.37%</u>	O & M	Operations and Maintenance Expense as a percentage of Average Net Distribution Plant calculated using RUS Bulletin 1724D-101A Electric System Long-Range Planning Guide based on <i>RUS Fixed Charge Calculation Guide</i>
<u>0.00%</u>	TAX	Property tax: annual Form 7, last year Part A, line 13(b) Plant the taxes were paid on: annual Form 7, 2 years ago, Part C, line 5 + line 22 Tax Rate: (Property tax / Plant) x 100, or estimated future tax rate
<u>3.89%</u>	DEP	Most Owners use straight-line depreciation where the depreciation rate is the reciprocal of the asset's life. Use annual rate for Coop, for classes of plant Depreciation rate on RUS Form 7 Part E Lines 5(f) and line 6(f)
<u>0.00%</u>	INS	Insurance as a percentage of Net Distribution Plant. Calculating the cost of insurance as a percentage of investment is difficult, and the result makes little difference, therefore, it can be ignored for most applications.
<u>2.00%</u>	INF	The annual inflation rate.
<u>35</u>	m	The loan amortization period in years.
<u>7.2</u>	KV	Line to ground voltage in kV.
<u>99.00%</u>	PF	Peak month power factor.
<u>7.18%</u>	INT	Cost of Debt (Calculated using <i>RUS Fixed Charge Guide</i>)
<u>3.06%</u>	LGR	The annual rate of growth projected for the peak demand. (Use latest PRS)
<u>30</u>	ULC	Useful Life of Conductor
<u>\$0.00</u>	\$/KW	Monthly demand charge in dollars per kW per month. If \$/KW is zero the following dependant inputs will also be zero:
<u>0.00%</u>	KWI	Demand charge inflation rate.
<u>0.00%</u>	CF	Coincidence factor - This factor represents the coincidence between the non coincident peak for the line and billing demand.
<u>0.00%</u>	RMO	The number of months the metered demand exceeds the minimum billing demand.
<u>0.00%</u>	RAT	The annual demand ratchet expressed as a decimal.
<u>0.00%</u>	N	The ratio of the average of the squares of the monthly kW demands for the months when the metered demand exceeds the minimum billing demand to the square of the peak month demand.
<u>\$0.0508</u>	\$/KWH	Energy charge in dollars per kWH per month.
<u>2.00%</u>	KWHI	Energy charge inflation rate.
<u>47.20%</u>	LF	Annual load factor.

Conductor Size and Cost

	Phases	Size	Cost/Mile
Cond-1	<u>3</u> Ø	<u>1/0 ACSR</u>	<u>\$45,000</u>
Cond-2	<u>3</u> Ø	<u>336 ACSR</u>	<u>\$80,000</u>
Cond-3	<u>3</u> Ø	<u>556 ACSR</u>	<u>\$100,000</u>
Cond-4	<u>0</u> Ø	<u>0</u>	<u>\$0</u>
Cond-5	<u>0</u> Ø	<u>0</u>	<u>\$0</u>
Cond-6	<u>0</u> Ø	<u>0</u>	<u>\$0</u>

Conductor Life Cycle Analysis Total Life Cycle Cost - Three Phase 14.4 kV



Patterson & Dewar
Engineers ©

— 1/0 ACSR — 336 ACSR — 556 ACSR

Conductor Life Cycle Analysis

**14.4 kV
Summary**

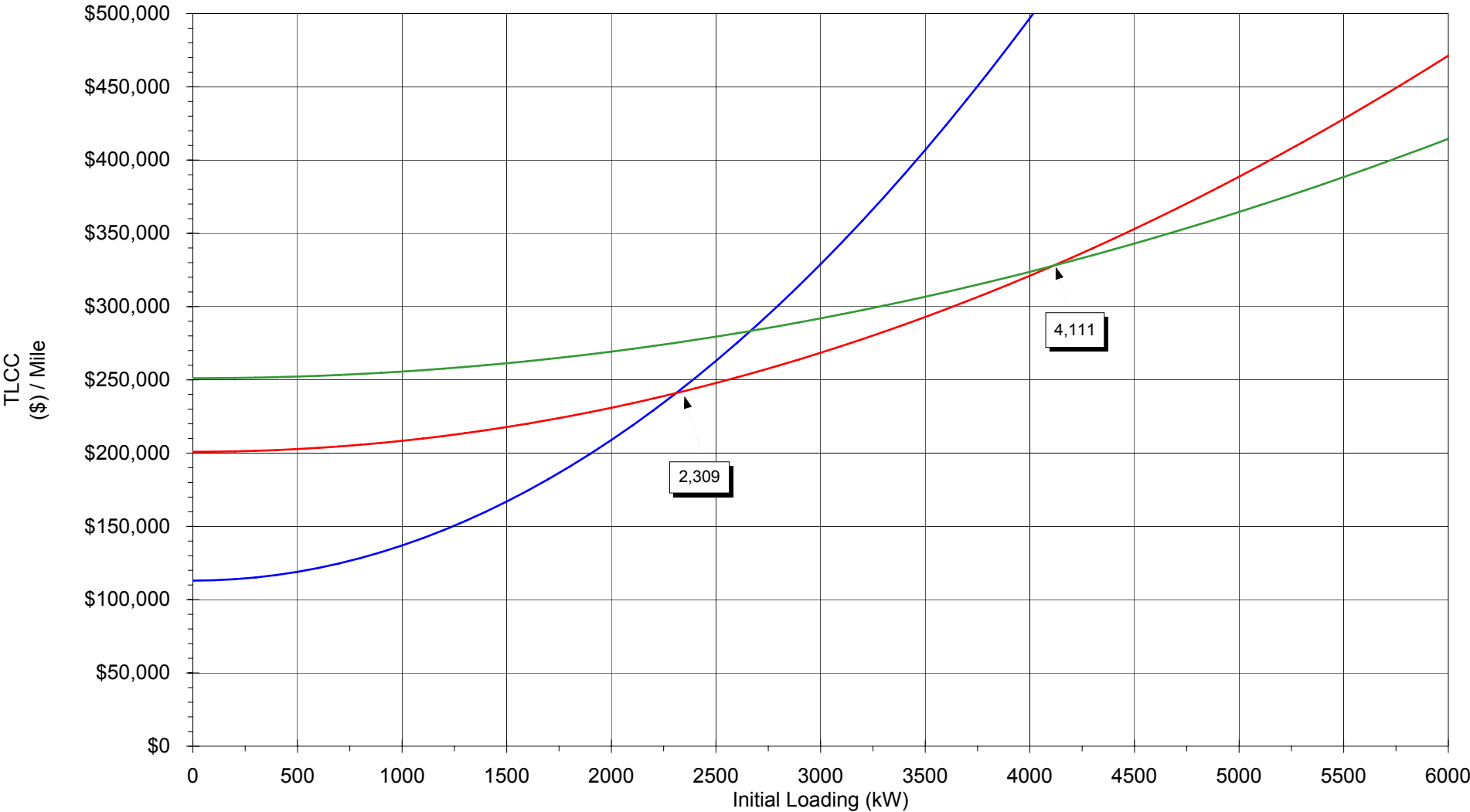
	<u>Initial Loading</u>		<u>Future Loading based on a 3.06% LGR for 30 Years</u>	
For loads below	4,619 kW use		1/0 ACSR	kW
For loads between	4,619 kW and	8,222 kW use	336 ACSR	11,409 kW
For loads over	8,222 kW use		556 ACSR	20,309 kW

<u>Conductor</u>	Construction Costs		Conductor Operating Capacity*		
	<u>Cost Per Mile</u>	<u>Ohms Per Mile †</u>	<u>50%</u>	<u>100%</u>	
3 Ø 1/0 ACSR	\$45,000	0.888	4,255	8,511	kW
3 Ø 336 ACSR	\$80,000	0.278	9,024	18,048	kW
3 Ø 556 ACSR	\$100,000	0.168	12,552	25,105	kW

† Resistance based on conductor operating temperature of 75° C (167° F), with a 25° C (77° F) ambient temperature and a 2 ft./sec wind, frequency = 60 Hz. Per Westinghouse T&D Reference Book, East Pittsburg, PA (4th Edition: Eleventh Printing), 1950

* Operating Capacity is defined as the manufacturer's rating at a maximum recommended continuous operating temperature of 75° C (167° F), with a 40° C (104° F) ambient temperature and a 2 ft./sec wind.

Conductor Life Cycle Analysis Total Life Cycle Cost - Three Phase 7.2 kV



Patterson & Dewar
Engineers ©

— 1/0 ACSR — 336 ACSR — 556 ACSR

Conductor Life Cycle Analysis

**7.2 kV
Summary**

	<u>Initial Loading</u>		<u>Future Loading based on a 3.06% LGR for 30 Years</u>		
For loads below	2,309	kW use	1/0	ACSR	kW
For loads between	2,309	kW and 4,111	336	ACSR	5,703 kW
For loads over	4,111	kW use	556	ACSR	10,154 kW

Construction Costs

<u>Conductor</u>	<u>Cost Per Mile</u>	<u>Ohms Per Mile</u>	<u>Conductor Operating Capacity*</u>		
			50%	100%	
3 Ø 1/0 ACSR	\$45,000	0.888	2,128	4,255	kW
3 Ø 336 ACSR	\$80,000	0.278	4,512	9,024	kW
3 Ø 556 ACSR	\$100,000	0.168	6,276	12,552	kW

† Resistance based on conductor operating temperature of 75° C (167° F), with a 25° C (77° F) ambient temperature and a 2 ft./sec wind, frequency = 60 Hz. Per Westinghouse T&D Reference Book, East Pittsburgh, PA (4th Edition: Eleventh Printing), 1950

* Operating Capacity is defined as the manufacturer's rating at a maximum recommended continuous operating temperature of 75° C (167° F), with a 40° C (104° F) ambient temperature and a 2 ft./sec wind.

Exhibit O

Substation Loading Data

Pages: 4

2007-2009 Construction Work PlanSubstation Load Data
Summer 2009 System ~ Existing System

Substation		Voltage KV	Summer EKPC Rating (KVA)	% Loaded	Winding Load (KVA)	Power Factor	Total Demand (KW)
No.	Name						
1	Nicholasville	69-12.5	13,622	89%	12,105	95.0%	11,500
2	Holloway	69-12.5	13,622	134%	18,316	95.0%	17,400
3	West Nicholasville	69-12.5	19,460	131%	25,579	95.0%	24,300
4	Davis	69-12.5	11,077	64%	7,053	95.0%	6,700
5	Fayette #1	69-12.5	13,622	69%	9,368	95.0%	8,900
6	Fayette #2	69-12.5	13,622	80%	10,947	95.0%	10,400
7	Newby	69-12.5	11,077	69%	7,684	95.0%	7,300
8	West Berea #1	69-12.5	13,622	96%	13,053	95.0%	12,400
8	West Berea #2	69-12.5	13,622				
9	Hickory Plains	69-12.5	19,460	90%	17,474	95.0%	16,600
10	Alcan #1	69-12.5	13,622	53%	7,158	95.0%	6,800
11	PPG	69-12.5	11,077	55%	6,105	95.0%	5,800
12	South Elkhorn	69-12.5	11,077	114%	12,632	95.0%	12,000
13	Crooksville	69-12.5	11,077	71%	7,895	95.0%	7,500
14	South Jessamine	69-12.5	24,000	55%	13,158	95.0%	12,500
15	N. Madison	69-12.5	13,622	43%	5,895	95.0%	5,600
16	Alcan #2	69-12.5	13,622	97%	13,263	95.0%	12,600
17	South Point	69-12.5	11,077	83%	9,158	95.0%	8,700
21	Bridgeport	69-25.0	24,000	72%	17,368	95.0%	16,500
22	Ninevah	69-12.5	11,077	67%	7,474	95.0%	7,100
23	Sinai	69-12.5	13,622	79%	10,737	95.0%	10,200
24	Van Arsdell	69-12.5	13,622	77%	10,526	95.0%	10,000
25	Mercer Co. Ind. Park	69-12.5	11,077	38%	4,211	95.0%	4,000
26	Clay Lick	69-12.5	11,077	76%	8,421	95.0%	8,000
27	Chaplin	69-4.2	4,945	30%	1,474	95.0%	1,400
28	Powell-Taylor	69-12.5	11,077	59%	6,526	95.0%	6,200
31	Bracken County District	69-12.5	11,077	56%	6,211	95.0%	5,900
32	Colemansville	69-12.5	13,622	57%	7,789	95.0%	7,400
33	Four Oaks	69-12.5	11,077	74%	8,211	95.0%	7,800
34	Lees Lick	69-12.5	13,622	97%	13,263	95.0%	12,600
35	Cynthiana	69-12.5	13,622	96%	13,053	95.0%	12,400
36	Headquarters	69-12.5	6,266	86%	5,368	95.0%	5,100
37	3-M Company	69-12.5	11,077	77%	8,526	95.0%	8,100
38	Millersburg	69-12.5	5,538	74%	4,105	95.0%	3,900
39	Jacksonville	138-12.5	19,200	22%	4,211	95.0%	4,000
40	Oxford	69-12.5	11,077	124%	13,684	95.0%	13,000
System Totals =					<u>348,000</u>	95.0%	<u>330,600</u>

2007-2009 Construction Work Plan

Substation Load Data

Winter 2009/10 System ~ Existing System

Substation		Voltage KV	Winter EKPC Rating (KVA)	%	Winding Load (KVA)	Power Factor	Total Demand (KW)
No.	Name						
1	Nicholasville	69-12.5	18,144	68%	12,323	99.0%	12,200
2	Holloway	69-12.5	18,144	90%	16,263	99.0%	16,100
3	West Nicholasville	69-12.5	25,920	107%	27,677	99.0%	27,400
4	Davis	69-12.5	15,725	77%	12,121	99.0%	12,000
5	Fayette #1	69-12.5	18,144	73%	13,232	99.0%	13,100
6	Fayette #2	69-12.5	18,144	52%	9,495	99.0%	9,400
7	Newby	69-12.5	15,725	82%	12,929	99.0%	12,800
8	West Berea #1	69-12.5	18,144	107%	19,394	99.0%	19,200
8	West Berea #2	69-12.5	18,144				
9	Hickory Plains	69-12.5	25,920	102%	26,566	99.0%	26,300
10	Alcan #1	69-12.5	18,144	36%	6,566	99.0%	6,500
11	PPG	69-12.5	15,725	34%	5,354	99.0%	5,300
12	South Elkhorn	69-12.5	15,725	85%	13,434	99.0%	13,300
13	Crooksville	69-12.5	15,725	79%	12,424	99.0%	12,300
14	South Jessamine	69-12.5	31,050	58%	18,081	99.0%	17,900
15	N. Madison	69-12.5	18,144	60%	10,909	99.0%	10,800
16	Alcan #2	69-12.5	18,144	66%	11,919	99.0%	11,800
17	South Point	69-12.5	15,725	67%	10,505	99.0%	10,400
21	Bridgeport	69-25.0	31,050	68%	21,010	99.0%	20,800
22	Ninevah	69-12.5	15,725	60%	9,495	99.0%	9,400
23	Sinai	69-12.5	18,144	78%	14,141	99.0%	14,000
24	Van Arsdell	69-12.5	18,144	94%	16,970	99.0%	16,800
25	Mercer Co. Ind. Park	69-12.5	15,725	25%	3,939	99.0%	3,900
26	Clay Lick	69-4.2	15,725	84%	13,232	99.0%	13,100
27	Chaplin	69-12.5	7,020	23%	1,616	99.0%	1,600
28	Powell-Taylor	69-12.5	15,725	66%	10,303	99.0%	10,200
31	Bracken County District	69-12.5	15,725	49%	7,778	99.0%	7,700
32	Colemansville	69-12.5	18,144	37%	6,768	99.0%	6,700
33	Four Oaks	69-12.5	15,725	61%	9,596	99.0%	9,500
34	Lees Lick	69-12.5	18,144	80%	14,545	99.0%	14,400
35	Cynthiana	69-12.5	18,144	81%	14,747	99.0%	14,600
36	Headquarters	69-12.5	8,346	85%	7,071	99.0%	7,000
37	3-M Company	69-12.5	15,725	44%	6,869	99.0%	6,800
38	Millersburg	69-12.5	7,862	75%	5,859	99.0%	5,800
39	Jacksonville	138-12.5	24,840	24%	5,960	99.0%	5,900
40	Oxford	69-12.5	15,725	42%	6,667	99.0%	6,600
System Totals =					<u>415,758</u>	99.0%	<u>411,600</u>

2007-2009 Construction Work PlanSubstation Load Data
Summer 2009 System

Substation		Voltage KV	Summer EKPC Rating (KVA)	% Loaded	Winding Load (KVA)	Power Factor	Total Demand (KW)
No.	Name						
1	Nicholasville	69-12.5	13,622	89%	12,105	95.0%	11,500
2	Holloway *1	69-12.5	13,622	76%	10,326	95.0%	9,810
3	West Nicholasville *1	69-12.5	38,920	81%	31,427	95.0%	29,856
4	Davis	69-12.5	11,077	64%	7,053	95.0%	6,700
5	Fayette #1	69-12.5	13,622	69%	9,368	95.0%	8,900
6	Fayette #2	69-12.5	13,622	80%	10,947	95.0%	10,400
7	Newby	69-12.5	13,622	56%	7,684	95.0%	7,300
8	West Berea #1 & #2	69-12.5	27,244	48%	13,053	95.0%	12,400
9	Hickory Plains	69-12.5	24,000	73%	17,474	95.0%	16,600
10	Alcan #1	69-12.5	13,622	78%	10,585	95.0%	10,056
11	PPG	69-12.5	11,077	55%	6,105	95.0%	5,800
12	South Elkhorn *2	69-12.5	13,622	93%	12,632	95.0%	12,000
13	Crooksville	69-12.5	13,622	58%	7,895	95.0%	7,500
14	South Jessamine	69-12.5	24,000	55%	13,158	95.0%	12,500
15	N. Madison	69-12.5	13,622	43%	5,895	95.0%	5,600
16	Alcan #2 *3	69-12.5	13,622	75%	10,176	95.0%	9,667
17	South Point	69-12.5	11,077	83%	9,158	95.0%	8,700
21	Bridgeport	69-25.0	24,000	72%	17,368	95.0%	16,500
22	Ninevah	69-12.5	11,077	67%	7,474	95.0%	7,100
23	Sinai	69-12.5	13,622	79%	10,737	95.0%	10,200
24	Van Arsdell	69-12.5	13,622	77%	10,526	95.0%	10,000
25	Mercer Co. Ind. Park	69-12.5	11,077	38%	4,211	95.0%	4,000
26	Clay Lick	69-12.5	13,622	62%	8,421	95.0%	8,000
27	Chaplin	69-4.2	4,945	30%	1,474	95.0%	1,400
28	Powell-Taylor	69-12.5	11,077	59%	6,526	95.0%	6,200
31	Bracken County District	69-12.5	11,077	56%	6,211	95.0%	5,900
32	Colemansville *6, *7	69-12.5	13,622	71%	9,686	95.0%	9,202
33	Four Oaks	69-12.5	11,077	74%	8,211	95.0%	7,800
34	Lees Lick *6	69-12.5	13,622	89%	12,081	95.0%	11,477
35	Cynthiana *7	69-12.5	13,622	91%	12,419	95.0%	11,798
36	Headquarters	69-12.5	6,266	86%	5,368	95.0%	5,100
37	3-M Company	69-12.5	11,077	77%	8,526	95.0%	8,100
38	Millersburg	69-12.5	5,538	74%	4,105	95.0%	3,900
39	Jacksonville	138-12.5	19,200	22%	4,211	95.0%	4,000
40	Oxford *4	69-12.5	11,077	55%	6,105	95.0%	5,800
System Totals =					<u>338,701</u>	95.0%	<u>321,766</u>

*1 Load shift from Holloway to West Nicholasville

*2 Recommend to EKPC to add fans

*3 If loading reaches 95%, switch circuits at Alcan 1 & 2

*4 Extreme Summer for Oxford was incorrectly listed as 13,000 kW in LF.

*5 EKPC has committed to adding fans at these locations: Hickory Plains, Crooksville, Newby, Clay Lick

*6 Load shift from Lee's Lick to Colemansville

*7 Load shift from Cynthiana to Colemansville

2007-2009 Construction Work PlanSubstation Load Data
Winter 2009/10 System

Substation		Voltage KV	Winter EKPC Rating (KVA)	% Loaded	Winding Load (KVA)	Power Factor	Total Demand (KW)
No.	Name						
1	Nicholasville	69-12.5	18,144	68%	12,323	99.0%	12,200
2	Holloway *1	69-12.5	18,144	51%	9,170	99.0%	9,078
3	West Nicholasville *1	69-12.5	51,840	66%	33,988	99.0%	33,648
4	Davis	69-12.5	15,725	77%	12,121	99.0%	12,000
5	Fayette #1	69-12.5	18,144	73%	13,232	99.0%	13,100
6	Fayette #2	69-12.5	18,144	52%	9,495	99.0%	9,400
7	Newby	69-12.5	18,144	71%	12,929	99.0%	12,800
8	West Berea #1 & #2	69-12.5	36,288	53%	19,394	99.0%	19,200
9	Hickory Plains *5	69-12.5	31,050	86%	26,566	99.0%	26,300
10	Alcan #1	69-12.5	18,144	51%	9,336	99.0%	9,243
11	PPG	69-12.5	15,725	34%	5,354	99.0%	5,300
12	South Elkhorn	69-12.5	18,144	74%	13,434	99.0%	13,300
13	Crooksville	69-12.5	18,140	68%	12,424	99.0%	12,300
14	South Jessamine	69-12.5	31,050	58%	18,081	99.0%	17,900
15	N. Madison	69-12.5	18,144	60%	10,909	99.0%	10,800
16	Alcan #2	69-12.5	18,144	51%	9,338	99.0%	9,245
17	South Point	69-12.5	15,725	67%	10,505	99.0%	10,400
21	Bridgeport	69-25.0	31,050	68%	21,010	99.0%	20,800
22	Ninevah	69-12.5	15,725	60%	9,495	99.0%	9,400
23	Sinai	69-12.5	18,144	78%	14,141	99.0%	14,000
24	Van Arsdell	69-12.5	18,144	94%	16,970	99.0%	16,800
25	Mercer Co. Ind. Park	69-12.5	15,725	25%	3,939	99.0%	3,900
26	Clay Lick	69-4.2	18,140	73%	13,232	99.0%	13,100
27	Chaplin	69-12.5	7,020	23%	1,616	99.0%	1,600
28	Powell-Taylor	69-12.5	15,725	66%	10,303	99.0%	10,200
31	Bracken County District	69-12.5	15,725	49%	7,778	99.0%	7,700
32	Colemansville *6, *7	69-12.5	18,144	46%	8,419	99.0%	8,335
33	Four Oaks	69-12.5	15,725	61%	9,596	99.0%	9,500
34	Lees Lick *6	69-12.5	18,144	73%	13,242	99.0%	13,110
35	Cynthiana *7	69-12.5	18,144	77%	14,036	99.0%	13,896
36	Headquarters	69-12.5	8,346	85%	7,071	99.0%	7,000
37	3-M Company	69-12.5	15,725	44%	6,869	99.0%	6,800
38	Millersburg	69-12.5	7,862	75%	5,859	99.0%	5,800
39	Jacksonville	138-12.5	24,840	24%	5,960	99.0%	5,900
40	Oxford	69-12.5	15,725	42%	6,667	99.0%	6,600
System Totals =					<u>414,803</u>	99.0%	<u>410,655</u>

*1 Load shift from Holloway to West Nicholasville

*2 Recommend to EKPC to add fans

*3 Switch circuits at Alcan 1 & 2 (124 to Alcan 2, 144 to Alcan 1)

*4 Extreme Summer for Oxford was incorrectly listed as 13,000 kW in LF.

*5 EKPC has committed to adding fans at these locations: Hickory Plains, Crooksville, Newby, Clay Lick

*6 Load shift from Lee's Lick to Colemansville

*7 Load shift from Cynthiana to Colemansville

Exhibit P

Distribution Line-Open Changes

Pages: 4

Three Phase Open Locations

* Denotes sections where line may not exist, but ties could be possible.

Substation	Circuit Abbrev.	Line Section Number	Circuit Abbrev.	Line Section Number
3M	3M_104	0817074	CYNT_124	0817119
	3M_114	0817072	CYNT_104	0817083
ALCAN #1	ALCN_124	2017214	ALCN_144	2017210
	ALCN_124	1917170	WBER_104	1917221
	ALCN_114	1917267	WBER_104	1917276
	ALCN_114	2017184	ALCN_124	2017216
	ALCN_124	2017211	ALCN_154	2017186
	ALCN_124	1917158	ALCN_144	1917155
ALCAN #2	ALCN_154	2017186	ALCN_124	2017211
	ALCN_144	2017209	WBER_114	2017251
	ALCN_144	1917155	ALCN_124	1917158
	ALCN_144	2017210	ALCN_124	2017214
BRACKEN COUNTY	BRAK_104	0317008	4OAK_124	0417096
	BRAK_114	0518056	4OAK_134	0518028
BRIDGEPORT	BPRT_114	1210074	NINV_134	1210092
	BPRT_114	1310114	SINI_104	1310079
	BPRT_134	1010063	BPRT_124	1010079
CHAPLIN	-	-	-	-
CLAY LICK	CLIC_134	1411107	NINV_104	141119
	CLIC_114	1510055	VANA_104	1510073
COLEMANSVILLE	COLE_114	0618062	4OAK_134	0618059
	COLE_114	0718409	CYNT_114	0718061
	COLE_124	0716043	LEES_114	0716049
	COLE_104	0516021	4OAK_124	0416009
CROOKSVILLE	CRKV_114	1918185	CRKV_144	1918189
	CRKV_124	1919082	CRKV_114	1819047
	CRKV_124	1919067	HKPL_124	1919123
	CRKV_144	1918188	HKPL_104	1918182
	CRKV_144	1918187	HKPL_164	1918231
CYNTHIANA	CYNT_124	0816055	LEES_114	0816065
	CYNT_154	0918025	HQ_114	0918041
	CYNT_114	0818059	HQ_124	0818069
	CYNT_124	0817119	3M_104	0817074
	CYNT_104	0817083	3M_114	0817072

Three Phase Open Locations

* Denotes sections where line may not exist, but ties could be possible.

Substation	Circuit Abberv.	Line Section Number	Circuit Abberv.	Line Section Number	
	CYNT_114	0718061	COLE_114	0718409	
	CYNT_114	0718052	HQ_134	0718064	*
DAVIS					
	DAVS_104	1515163	NICH_114	1515226	
	DAVS_114	1415390	FAY2_134	1415509	
	DAVS_124	1515188	NICH_124	1515234	
	DAVS_124	1616104	NICH_124	1616174	
	DAVS_124	1616103	NMAD_114	1516099	
FAYETTE #1					
	FAY1_164	1415451	FAY2_104	1515444	
	FAY1_144	1415429	FAY1_144	1415438	
FAYETTE #2					
	FAY2_124	1415403	FAY2_114	1415561	
	FAY2_134	1415509	DAVS_114	1415390	
	FAY2_104	1515444	FAY1_164	1415451	
FOUR OAKS					
	4OAK_134	0618057	HQ_144	0618066	
	4OAK_124	0417096	BRAK_104	0317008	
	4OAK_134	0518028	BRAK_114	0518056	
	4OAK_134	0618059	COLE_114	0618062	
	4OAK_124	0416009	COLE_104	0516021	
HEADQUARTERS					
	HQ_134	0718064	CYNT_114	0718052	*
	HQ_104	0920072	MILL_124	0920053	*
	HQ_114	0918041	CYNT_154	0918025	
	HQ_124	0818069	CYNT_114	0818059	
	HQ_144	0618066	4OAK_134	0618057	
HICKORY PLAINS					
	HKPL_154	2018146	HKPL_164	1918221	
	HKPL_154	2017221	WBER_104	1917275	
	HKPL_164	19171760	WBER_104	1917205	
	HKPL_124	1918168	HKPL_134	1918210	
	HKPL_134	2018157	HKPL_124	2018167	
	HKPL_134	2019054	HKPL_134	2019028	
	HKPL_124	1919123	CRKV_124	1919067	
	HKPL_104	1918182	CRKV_144	1918188	
	HKPL_164	1918231	CRKV_144	1918187	
HOLLOWAY					
	HLWY_134	1414253	SELK_114	1414337	
	HLWY_134	1414254	SELK_134	1414263	
	HLWY_124	1413063	SELK_134	1413079	
	HLWY_124	1513089	HLWY_114	1513098	
	HLWY_114	1513082	WNIC_144	1513109	
	HLWY_104	1514384	WNIC_134	1514483	
	HLWY_104	1514385	WNIC_114	1514441	
	HLWY_104	1514415	NICH_114	1514441	
	HLWY_104	1514414	WNIC_154	1514500	

Three Phase Open Locations

* Denotes sections where line may not exist, but ties could be possible.

Substation	Circuit Abbrev.	Line Section Number	Circuit Abbrev.	Line Section Number
	HLWY_104	1514413	WNIC_154	1514561
	HLWY_104	1514411	WNIC_154	1514493
JACKSONVILLE	JACK_104	0916080	LEES_134	0916068
	JACK_124	0916084	LEES_124	0916072
LEES LICK	LEES_144	0915083	OXFD_114	0915068
	LEES_114	0716049	COLE_124	0716043
	LEES_114	0816065	CYNT_124	0816055
	LEES_134	0916068	JACK_104	0916080
	LEES_124	0916072	JACK_124	0916084
MERCER COUNTY	MERC_104	1711042	VANA_124	1711046
MILLERSBURG	MILL_124	0920053	HQ_104	0920072
				*
NEWBY	NWBY_114	1616110	NMAD_134	1616125
	NWBY_124	1717070	NMAD_124	1617045
	NWBY_134	1717092	NWBY_124	1717079
	NWBY_144	1816047	WBER_144	1816050
NICHOLASVILLE	NICH_104	1614153	SJES_144	1614203
	NICH_144	1614167	SJES_144	1614210
	NICH_134	1615077	SJES_134	1615083
	NICH_114	1515226	DAVS_104	1515163
	NICH_124	1515234	DAVS_124	1515188
	NICH_124	1616174	DAVS_124	1616104
	NICH_114	1514441	HLWY_104	1514415
NINEVAH	NINV_114	1310073	SINI_104	1310086
	NINV_134	1210092	BPRT_114	1210074
	NINV_104	141119	CLIC_134	1411107
NORTH MADDISON	NMAD_134	1616125	NWBY_114	1616110
	NMAD_124	1617045	NWBY_124	1717070
	NMAD_114	1516099	DAVS_124	1616103
OXFORD	OXFD_114	0915068	LEES_144	0915083
PPG	-	-	-	-
SINAI	SINI_104	1414279	SINI_114	1409063
	SINI_104	1310079	BPRT_114	1310114

Three Phase Open Locations

* Denotes sections where line may not exist, but ties could be possible.

Substation	Circuit Abbrev.	Line Section Number	Circuit Abbrev.	Line Section Number
	SINI_104	1310086	NINV_114	1310073
SOUTH ELKHORN	SELK_104	1414279	SELK_114	1414286
	SELK_114	1414337	HLWY_134	1414253
	SELK_134	1414263	HLWY_134	1414254
	SELK_134	1413079	HLWY_124	1413063
SOUTH JESSAMINE	SJES_134	1715071	SJES_124	1715065
	SJES_124	1714077	SJES_124	1714081
	SJES_124	1614231	WNIC_124	1614188
	SJES_144	1614203	NICH_104	1614153
	SJES_144	1614210	NICH_144	1614167
	SJES_134	1615083	NICH_134	1615077
VAN ARSDELL	VANA_144	1610053	VANA_124	1610057
	VANA_114	1510060	VANA_104	1510072
	VANA_104	1510073	CLIC_114	1510055
	VANA_124	1711046	MERC_104	1711042
WEST BEREA	WBER_124	2017258	WBER_134	2017274
	WBER_134	2017235	WBER_104	2017265
	WBER_144	2017275	WBER_124	2017278
	WBER_104	1917221	ALCN_124	1917170
	WBER_104	1917276	ALCN_114	1917267
	WBER_114	2017251	ALCN_144	2017209
	WBER_104	1917275	HKPL_154	2017221
	WBER_104	1917205	HKPL_164	19171760
	WBER_144	1816050	NWBY_144	1816047
W. NICHOLASVILLE	WNIC_164	1514513	WNIC_104	1514467
	WNIC_164	1514520	WNIC_114	1514504
	WNIC_154	1514497	WNIC_154	1514558
	WNIC_144	1514490	WNIC_124	1514548
	WNIC_134	1514478	WNIC_114	1514532
	WNIC_144	1513109	HLWY_114	1513082
	WNIC_134	1514483	HLWY_104	1514384
	WNIC_114	1514441	HLWY_104	1514385
	WNIC_154	1514500	HLWY_104	1514414
	WNIC_154	1514561	HLWY_104	1514413
	WNIC_154	1514493	HLWY_104	1514411
	WNIC_124	1614188	SJES_124	1614231

*

Exhibit Q

Summary of Economic Comparisons from Power Supply Study (PSS) & Power Supplier Letter of Concurrence

Exhibit Q was not required in this CWP

Exhibit R

Large Power Loads (January 2005 Data)

Pages: 1

BLUE GRASS ENERGY

Kentucky 64 Jessamine
Nicholasville, Kentucky

2007 - 2009 CONSTRUCTION WORK PLAN
Large Power Loads

Name	Business Type	Location #	12/2005			07/2006		
			KW	kWh	PF	KW	kWh	PF
3M	Factory	1603004	6,768	4,107,600	0.85	8072	5,022,000	0.85
Novelis	Alum. Recycler	23230064	5,688	2,944,800	0.88	6142	3,384,000	0.87
PPG Factory		23230050	4,860	2,703,600	0.96	5364	3,391,200	0.96
Tokico	Factory	23230070	5,712	2,407,200	0.93	6182	2,625,600	0.92
Bay West	Factory	120768015	2,664	1,699,200	0.92	3028	2,019,600	0.90
McKechnie	Factory	9160057	3,490	1,437,600	0.79	3492	1,617,600	0.78
Adcom	Factory	3860001	3,672	1,500,000	0.91	3480	1,680,000	0.92
NACCO	Factory	23230049	2,952	1,472,400	0.92	3179	1,645,200	0.90
Marathon	Oil Pump	110663018	1,144	755,200	0.90	1186	576,800	0.90
McClane	Food Distr.	3670007	1,018	554,880	0.85	1325	736,800	0.86
KI-USA	Factory	23130069	1,128	542,400	0.75	1188	541,200	0.76
Donaldson	Factory	3850301	1,224	513,600	0.90	1344	628,800	0.89
Wal-Mart	Retail store	3770050	607	396,288	0.89	934	523,392	0.88
Madison Sthrn.	School campus	23340083	960	278,400	0.98	634	288,000	0.91
Panasonic	Factory	23130081	792	237,600	0.87	1049	292,800	0.84
Harr. Hosp.	Hospital	1284005	456	253,200	0.89	707	373,200	0.88
Sarg. & Green	Factory	9160017	624	193,920	0.93	906	311,040	0.88
South. Chr. Ch.	Church campus	3250369	624	212,400	0.90	1138	278,400	0.92
Kroger	Grocery	3151143	348	198,400	1.00	438	264,800	1.00
Jessamine Co.	School campus	3970040	603	199,800	0.95	435	162,000	0.85
Jessamine Co.	School campus	3840060	504	163,200	0.96	555	182,400	0.85
City of Nich.	Sewer plant	9240035	331	156,000	0.91	303	154,080	0.87
P K Tool	Factory	17340003	388	141,696		416	157,440	
Jessamine Co.	School campus	3840013	420	153,600	0.95	426	198,600	0.93
KY Steel	Factory	23130076	358	135,168		353	142,080	
Berea Munc.	Sewer plant	23130031	263	163,200		329	101,760	
Richmond Sew.	Sewer plant	10890226	230	159,744		159	98,304	
North. Lex. Health	Health Care Ctr.	4231999	177	109,248		263	136,320	
Food Lion	Grocery	1293005	174	95,680	0.88	226	123,040	0.87
Lowe's	Home Ctr.	231336007	475	214,656		?	?	?
Hammer Co.	Factory	472030	348	116,400	0.98	328	102,000	0.94
King middle	School campus	120778013	372	93,696	0.89	354	86,784	0.82
Mckechnie	Warehouse	9160032	300	89,856	0.96	242	97,344	0.90
Harrison Co.	School campus	1294015	314	84,960	0.96	326	64,560	0.83
Jackson Plast.	Factory	9260251	642	44,160		?	?	?
Jessamine Co.	School campus	3850302	372	116,736	0.99	140	48,400	0.82
Fayette Co.	School campus	4240854	148	57,000		219	93,240	
Golden Corral	Restaurant	3760977	151	60,720		209	83,880	
Richmond Sew.	Sewer plant	17830021	156	82,800		124	63,000	
Cedar Ridge	Health Care Ctr.	1274030	176	88,320		165	72,320	
McDonalds	Restaurant	3760115	121	59,120		149	72,720	
Berea Munc.	Sewer plant	23690002	118	82,880		115	60,800	
Southland Co.	Factory	1282015	204	52,800	0.70	240	84,000	0.73
St. Elizabeth	Church/school	4241022	151	73,520		200	63,840	
Lawrenceburg Sew.	Sewer plant	44365003	136	69,120		99	62,520	
Epp. Waste Disp.	Landfill	618002	115	73,800		92	42,900	
Allen Co.	Blacktop Plant	22590107	48	9,000	0.87	477	52,800	0.96
KY Artisan Ctr.	Store/Rest.	23230096	88	46,560		109	48,160	
Berea Health	Health Care Ctr.	23240284	126	49,440		120	46,800	
Holiday Inn Ex.	Hotel	3760966	106	48,960		96	43,600	

Exhibit S

Five-Year Outage Report

Pages: 1

**2007-2009 Construction Work Plan
Consumer Outage Hours**
(Outage hours per consumer per year)

Outage Cause					
Year	Power Supplier	Extreme Storm	Pre-Arranged	Other	Totals
2001	0.30	0. 0	0.03	1.31	1.64
2002	0.30	0.20	0.01	1.43	1.94
2003	0.14	17.18	0.01	1.70	19.03
2004	1.16	2.45	0.02	2.05	5.68
2005	0.30	0. 0	0.05	1.62	1.97
Five Year Average =	0.44	3.97	0.02	1.62	6.05
Five Year Average = (excluding 2003 extreme storm)	0.44	0.53	0.02	1.62	2.62
Five Year Average = (from 2005 Form 7)	0.51	3.10	0.03	1.47	5.11

Exhibit T

System Improvement Justification Summaries

Pages: 91

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW

CFR Code and CWP Item Number: 302-01

Estimated Cost: \$115,500

Description of Proposed Construction

Re-conductor 2.1 miles of single phase 4 AC SR conductor with three phase 1/0 ACSR conductor. Replace poles and equipment as necessary.

<u>Substation</u>	<u>Line Section Miles</u>	<u>Existing Phase-Wire</u>	<u>Proposed</u>	
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
Holloway	1513069	2.1	1ø 4 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 1513069 is projected to carry 65 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
65	1.8	529	21	0.47	145

Voltage drops on the circuit extremities will be reduced by 1.33 volts. Kilowatt-hour losses (\$/year) will be reduced by \$384.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 302-02

Estimated Cost: \$50,000

Description of Proposed Construction

Re-conductor 1.0 miles of single phase 4 AC SR conductor with three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase-Wire</u>	<u>Existing</u>	<u>Proposed</u>
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
Holloway	1513076-1513067	1.0	1ø 4 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 1513076 is projected to carry 48 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
48	1.35	275	16	0.18	33

Voltage drops on the circuit extremities will be reduced by 1.17 volts. Kilowatt-hour losses (\$/year) will be reduced by \$242.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 302-03

Estimated Cost: \$38,500

Description of Proposed Construction

Re-conductor 0.7 miles of single phase 4 AC SR conductor with three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase-Wire</u>	Existing	Proposed
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
Holloway	1513120 & 1513117	0.7	1ø 4 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 1513120 is projected to carry 36 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps Drop</u>	<u>(\$/year)</u>		<u>Amps Drop</u>	<u>(\$/year)</u>	
36	0.9	158	12	0.11	19

Voltage drops on the circuit extremities will be reduced by 0.79 volts. Kilowatt-hour losses (\$/year) will be reduced by \$139.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 302-04

Estimated Cost: \$28,000

Description of Proposed Construction

Re-conductor 0.7 miles of single phase 4 ACSR conductor with two phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase-Wire</u>	Existing	Proposed
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
Holloway	1414494	0.7	1ø 4 ACSR	2ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to remove aged conductor from service. This section of 4 ACSR is known to have spans with a rusted steel core and is causing reliability issues. Replacement is suggested and the need for multi-phasing is expected.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps Drop</u>	<u>(\$/year)</u>		<u>Amps Drop</u>	<u>(\$/year)</u>	
16	0.15	4	3.2	0.03	0

Voltage drops on the circuit extremities will be reduced by 0.12 volts. Kilowatt-hour losses (\$/year) will be reduced by \$4.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 303-01

Estimated Cost: \$27,500

Description of Proposed Construction

Re-conductor 0.5 miles of single phase 4 AC SR conductor with three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase-Wire</u>	Existing	Proposed
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
West Nicholasville	1613053 & 1613054	0.5	1ø 4 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 1613053 is projected to carry 65 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps Drop</u>	<u>(\$/year)</u>		<u>Amps Drop</u>	<u>(\$/year)</u>	
65	0.64	193	20	0.16	51

Voltage drops on the circuit extremities will be reduced by 0.48 volts. Kilowatt-hour losses (\$/year) will be reduced by \$142.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 303-02

Estimated Cost: \$252,000

Description of Proposed Construction

Add new underbuild circuit from West Nicholasville Substation.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase</u>	<u>Existing Wire</u>	<u>Proposed Phase-Wire</u>
West Nicholasville	1514476-1514451	2.4	EXT CKT	3PH 336 ACSR

Reason and Results of Proposed Construction

The above work is required to increase the reliability of the existing circuit 144. This extra circuit will provide new switching capabilities and will pick up new load.

Alternate Corrective Plans Investigated

No other alternatives were considered for this project.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 304-01

Estimated Cost: \$80,000

Description of Proposed Construction

Re-conductor 1.0 miles of three phase 1/0 ACSR conductor to three phase 336 ACSR conductor. Replace poles and equipment as required.

<u>Substation</u>	<u>Line</u>	<u>Section</u>	<u>Miles</u>	<u>Existing</u>	<u>Proposed</u>
				<u>Phase-Wire</u>	<u>Phase-Wire</u>
Davis		Shopping Center	1.0	3ø 1/0 ACSR	3ø 336 ACSR

Reason for Proposed Construction

The above work is required to serve the new shopping center load from Davis. The loads emerging require more capacity than available for the existing 1/0 ACSR.

Results of Proposed Construction

Improved service and voltage to the shopping center are the results of this project.

Alternate Corrective Plans Investigated

No other alternatives are available for this project.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 305-01

Estimated Cost: \$44,000

Description of Proposed Construction

Re-conductor 0.8 miles of single phase 4 AC SR conductor with three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase</u>	<u>Existing</u>	<u>Proposed</u>
			<u>Wire</u>	<u>Wire</u>
Fayette #1	1416036 & 1416022	0.8	1ø 4 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to remove aged conductor from service. This section of 4 ACSR is known to have spans with a rusted steel core and is causing reliability issues. Replacement is suggested and the need for multi-phasing is expected.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps Drop</u>	<u>(\$/year)</u>	<u></u>	<u>Amps Drop</u>	<u>(\$/year)</u>	<u></u>
29.3	0.41	33	9.8	0.06	7

Voltage drops on the circuit extremities will be reduced by 0.35 volts. Kilowatt-hour losses (\$/year) will be reduced by \$26.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 305-02

Estimated Cost: \$75,000

Description of Proposed Construction

Re-conductor 0.3 miles of underground three phase 500 MCM conductor with underground three phase 1000 MCM conductor. Replace equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing</u>		<u>Proposed</u>	
		<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>
Fayette #1	Sub Exits	0.3	(3) 3ø 500 MCM	(3) 3ø	1000 MCM

Reason for Proposed Construction

The above work is required to reduce the overloaded conditions and improve service reliability for all Fayette #1 circuits. The 500 MCM conductor for circuit 4 is at 52% capacity and circuit 6 is at 58% capacity in 2009. This project can be finished quickly and provide immediate help for the excessive current on circuit 4 and 6.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
202	0.13	723	202	0.1	361
222	0.19	522	222	0.07	276

Alternate Corrective Plans Investigated

Consideration was given to the use of a different conductor, but 1000 MCM was chosen based on current loading conditions and economics (see Exhibit N).

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 306-01

Estimated Cost: \$50,000

Description of Proposed Construction

Re-conductor 0.2 miles of underground three phase 500 MCM conductor with underground three phase 1000 MCM conductor. Replace equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing</u>		<u>Proposed</u>
		<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>
Fayette #2	Sub Exits	0.2	(3) 3ø 500 MCM	(3) 3ø 1000 MCM

Reason for Proposed Construction

The above work is required to reduce the overloaded conditions and improve service reliability for Fayette #2 circuits 1 and 2. The 500 MCM conductor for circuit 4 is at 52% capacity and circuit 6 is at 58% capacity in 2009. This project can be finished quickly and provide immediate help for the excessive current on circuit 4 and 6.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
202	0.13	723	202	0.1	361
222	0.19	522	222	0.07	276

Alternate Corrective Plans Investigated

Consideration was given to the use of a different conductor, but 1000 MCM was chosen based on current loading conditions and economics (see Exhibit N).

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 307-01

Estimated Cost: \$88,000

Description of Proposed Construction

Re-conductor 1.1 miles of three phase 1/0 ACSR conductor with three phase 336 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing</u>		<u>Proposed</u>	
		<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>
Newby	1717069 & 1717070	1.1	3ø 1/0 ACSR	3ø 1/0 ACSR	3ø 336 ACSR

Reason for Proposed Construction

The above work is required to create tie line between Newby Substation and North Madison Substation. This will help facilitate future load transfers between the two substations.

Results of Proposed Construction

Load shifts between Newby and North Madison can now be accomplished. The existing 1/0 is not sufficient to handle the expected load on the North Madison substation in 2009

Alternate Corrective Plans Investigated

Consideration was given to the use of 477 ACSR, but 336 ACSR was chosen due to economic conductor loading (see Exhibit N).

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 307-02

Estimated Cost: \$92,000

Description of Proposed Construction

Conversion of 2.3 miles of single phase 4 ACSR conductor to two phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation</u>	<u>Line</u>	<u>Section Miles</u>	<u>Existing</u>		<u>Proposed</u>	
			<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>
Newby	1715052-1715053	2.3	1ø 4 ACSR	2ø 1/0 ACSR		

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 1715052 is projected to carry 38 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
38	3.1	668	18	0.67	233

Voltage drops on the circuit extremities will be reduced by 2.43 volts. Kilowatt-hour losses (\$/year) will be reduced by \$435.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 307-03

Estimated Cost: \$92,000

Description of Proposed Construction

Conversion of 1.5 miles of single phase 4 ACSR conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase-Wire</u>	Existing	Proposed
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
Newby	1716080-1716084	1.5	1ø 4 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 1716080 is projected to carry 57 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
Load	Voltage	Losses	Load	Voltage	Losses
<u>Amps Drop</u>	<u>(\$/year)</u>	<u></u>	<u>Amps Drop</u>	<u>(\$/year)</u>	<u></u>
57	3.6	860	19	0.7	138

Voltage drops on the circuit extremities will be reduced by 2.9 volts. Kilowatt-hour losses (\$/year) will be reduced by \$722.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 308-01

Estimated Cost: \$216,000

Description of Proposed Construction

Re-conductor of 2.7 miles of three phase 1/0 ACSR conductor to three phase 336 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing</u>		<u>Proposed</u>	
		<u>Phase</u>	<u>Wire</u>	<u>Phase</u>	<u>Wire</u>
West Berea	1917192-1917198	2.7	3Ø 1/0 ACSR	3Ø	336 ACSR

Reason for Proposed Construction

The above work is required to reduce current overload and excessive voltage drops that exist on the circuit. It will also allow for load growth expected due to a new Interstate Interchange.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps Drop</u>	<u>(\$/year)</u>	<u></u>	<u>Amps Drop</u>	<u>(\$/year)</u>	<u></u>
132	5.0	9,789	132	2.0	3,059

Voltage drops on the circuit extremities will be reduced by 3.0 volts. Kilowatt-hour losses (\$/year) will be reduced by \$6,730.

Alternate Corrective Plans Investigated

336 ACSR was chosen based on economics and projected load growth. Consideration was given to using a larger conductor, but 336 ACSR was chosen based on economic conductor loading (see Exhibit N).

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 309-01

Estimated Cost: \$152,000

Description of Proposed Construction

Conversion of 1.9 miles of single phase 1/0 ACSR conductor to three phase 336 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing Phase-Wire</u>	<u>Proposed Phase-Wire</u>	
			<u>1/0 ACSR</u>	<u>3Ø 336 ACSR</u>
Hickory Plains	1918264-1918265	1.9	1Ø 1/0 ACSR	3Ø 336 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 1918264 is projected to carry 75 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
75	2.0	557	18	0.1	21

Voltage drops on the circuit extremities will be reduced by 1.9 volts. Kilowatt-hour losses (\$/year) will be reduced by \$536.

Alternate Corrective Plans Investigated

1/0 ACSR was considered, but it was determined that this line could serve as an alternate feed or could help in case of line outage. For this reason, 336 ACSR was chosen.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 309-02

Estimated Cost: \$44,000

Description of Proposed Construction

Conversion of 0.8 miles of single phase 4 ACSR conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing Phase-Wire</u>	<u>Proposed</u>	
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
Hickory Plains	2018121-2018221	0.8	1ø 4 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 2018121 is projected to carry 90 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
90	3.1	1,382	30	0.4	213

Voltage drops on the circuit extremities will be reduced by 2.7 volts. Kilowatt-hour losses (\$/year) will be reduced by \$1,169.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 309-03

Estimated Cost: \$38,500

Description of Proposed Construction

Conversion of 0.7 miles of single phase 4 ACSR conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase-Wire</u>	Existing	Proposed
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
Hickory Plains	2018114	0.7	1ø 4 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 2018114 is projected to carry 30 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
Load	Voltage	Losses	Load	Voltage	Losses
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
30	0.5	54	28.5	0.16	78

Voltage drops on the circuit extremities will be reduced by 0.34 volts. Load will be transferred to this line from circuit 4. This project will be followed by project 309-05.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 309-04

Estimated Cost: \$27,500

Description of Proposed Construction

Conversion of 0.5 miles of single phase 4 ACSR conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing</u>		<u>Proposed</u>
		<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>
Hickory Plains	2018198 & 2018200	0.5	1ø 4 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 2018198 is projected to carry 71 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
71	1.3	400	24	0.19	55

Voltage drops on the circuit extremities will be reduced by 1.11 volts. Kilowatt-hour losses (\$/year) will be reduced by \$345.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 309-05

Estimated Cost: \$115,500

Description of Proposed Construction

Conversion of 2.1 miles of single phase 4 ACSR conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase-Wire</u>	Existing	Proposed
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
Hickory Plains	2018184	2.1	1ø 4 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 2018184 is projected to carry 57 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
Load	Voltage	Losses	Load	Voltage	Losses
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
57	2.4	612	19	0.3	73

Voltage drops on the circuit extremities will be reduced by 0.34 volts. Load will be transferred to this line from circuit 4. This line will be transferred to circuit 3 after project 309-03 is complete.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 313-01

Estimated Cost: \$38,500

Description of Proposed Construction

Conversion of 0.7 miles of single phase 1/0 ACSR conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing</u>		<u>Proposed</u>
		<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>
Crooksville	1918238	0.7	1ø 1/0 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 1918238 is projected to carry 77 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
77	0.6	174	25.8	0.15	48

Voltage drops on the circuit extremities will be reduced by 0.45 volts. . Kilowatt-hour losses (\$/year) will be reduced by \$126.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 313-02

Estimated Cost: \$160,000

Description of Proposed Construction

Re-conductor 2.0 miles of single phase 1/0 ACSR conductor to three phase 336 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing</u>		<u>Proposed</u>
		<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>
Crooksville	1918270	2.0	1ø 1/0 ACSR	3ø 336 ACSR

Reason for Proposed Construction

This project is a carry over from the previous CWP. The above work is required to relieve an overloaded single phase line. LS 1918270 is projected to carry 48 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
48	.3	57	16	0.03	5

Voltage drops on the circuit extremities will be reduced by 0.27 volts. Kilowatt-hour losses (\$/year) will be reduced by \$52.

Alternate Corrective Plans Investigated

1/0 ACSR was considered, but it was determined that this line could serve as an alternate feed for the Hickory Plains Substation. For this reason 336 ACSR was chosen.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 313-03

Estimated Cost: \$55,000

Description of Proposed Construction

Conversion of 1.0 miles of single phase 4 ACSR conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase-Wire</u>	Existing	Proposed
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
Crooksville	1919096 & 1919097	1.0	1ø 4 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 1919096 is projected to carry 62 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
Load	Voltage	Losses	Load	Voltage	Losses
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
62	1.7	324	20	0.28	60

Voltage drops on the circuit extremities will be reduced by 1.42 volts. . Kilowatt-hour losses (\$/year) will be reduced by \$264.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 313-04

Estimated Cost: \$82,500

Description of Proposed Construction

Conversion of 1.5 miles of single phase 4 ACSR conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing</u>		<u>Proposed</u>
		<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>
Crooksville	1919061	1.5	1ø 4 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The project is a carry over from the previous CWP. The above work is required to relieve an overloaded single phase line. LS 1919061 is projected to carry 60 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
60	1.1	263	20	0.28	72

Voltage drops on the circuit extremities will be reduced by 0.82 volts. . Kilowatt-hour losses (\$/year) will be reduced by \$191.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 314-01

Estimated Cost: \$200,000

Description of Proposed Construction

Reconductor 2.0 miles of three phase 4/0 ACSR conductor to three phase 556 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing Phase-Wire</u>	<u>Proposed</u>	
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
S. Jessamine	1614172-1614174	2.0	3ø 4/0ACSR	3ø 556 ACSR

Reason for Proposed Construction

The above work is required to reduce the overloaded and low voltage conditions and improve service reliability for the South Jessamine circuit 2. The 4/0 ACSR conductor is at 85% capacity in 2009. This project will greatly help the low voltage situations on the circuit extremities.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps Drop</u>	<u>(\$/year)</u>		<u>Amps Drop</u>	<u>(\$/year)</u>	
288	5.1	20,146	288	2.7	7,551

Voltage drops on the circuit extremities will be reduced by 2.4 volts. . Kilowatt-hour losses (\$/year) will be reduced by \$12,595.

Alternate Corrective Plans Investigated

556 ACSR was chosen based on economics and projected load growth. Consideration was given to using a smaller conductor, but 556 ACSR was chosen based on economic conductor loading (see Exhibit N).

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 314-02

Estimated Cost: \$44,000

Description of Proposed Construction

Conversion of 0.8 miles of single phase 1/0 ACSR conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing Phase-Wire</u>	<u>Proposed</u>	
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
S. Jessamine	1714059-1714060	0.8	1ø 1/0 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 1714059 is projected to carry 41 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
41	0.6	94	14	0.14	25

Voltage drops on the circuit extremities will be reduced by 0.46 volts. . Kilowatt-hour losses (\$/year) will be reduced by \$69.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 314-03

Estimated Cost: \$49,500

Description of Proposed Construction

Conversion of 0.9 miles of single phase 4 ACSR conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase-Wire</u>	<u>Existing</u>	<u>Proposed</u>
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
S. Jessamine	1714094-1714095	0.9	1ø 4 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 1714094 is projected to carry 60 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
60	2.0	586	20	0.26	70

Voltage drops on the circuit extremities will be reduced by 1.74 volts. . Kilowatt-hour losses (\$/year) will be reduced by \$516.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 314-04

Estimated Cost: \$55,000

Description of Proposed Construction

Conversion of 1.0 miles of single phase 4 ACSR conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase</u>	<u>Existing</u>	<u>Proposed</u>
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
S. Jessamine	17140108	1.0	1ø 6 CU	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 1919061 is projected to carry 65 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps. This project will also retire 6 CU which is unreliable and deteriorating.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
65	1.9	494	22	0.26	60

Voltage drops on the circuit extremities will be reduced by 1.74 volts. . Kilowatt-hour losses (\$/year) will be reduced by \$434.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 314-05

Estimated Cost: \$49,500

Description of Proposed Construction

Conversion of 0.8 miles of single phase 4 ACSR conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>		<u>Existing</u>		<u>Proposed</u>	
			<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>
S. Jessamine	1714067-1714069	1.4	1ø 4 ACSR		3ø 1/0 ACSR	

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 1714067 is projected to carry 66 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
66	2.2	1,682	22	0.6	199

Voltage drops on the circuit extremities will be reduced by 1.2 volts. . Kilowatt-hour losses (\$/year) will be reduced by \$1,881.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 314-06

Estimated Cost: \$77,000

Description of Proposed Construction

Conversion of 1.4 miles of single phase 4 ACSR conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase-Wire</u>	Existing	Proposed
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
S. Jessamine	1615066-1615069	1.4	1ø 4 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 1615066 is projected to carry 86 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
Load	Voltage	Losses	Load	Voltage	Losses
<u>Amps Drop</u>	<u>(\$/year)</u>	<u></u>	<u>Amps Drop</u>	<u>(\$/year)</u>	<u></u>
86	4.0	1,658	29	0.5	199

Voltage drops on the circuit extremities will be reduced by 3.5 volts. . Kilowatt-hour losses (\$/year) will be reduced by \$1,459.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 314-07

Estimated Cost: \$71,500

Description of Proposed Construction

Conversion of 1.3 miles of single phase 1/0 ACSR conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing Phase-Wire</u>	<u>Proposed Phase-Wire</u>	
			<u>1</u>	<u>3</u>
S. Jessamine	1615108-1615107	1.3	1Ø 1/0 ACSR	3Ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 1615105 is projected to carry 54 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
54	1.4	306	18	0.4	84

Voltage drops on the circuit extremities will be reduced by 1.0 volts. Kilowatt-hour losses (\$/year) will be reduced by \$222.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 314-08

Estimated Cost: \$24,000

Description of Proposed Construction

Conversion of 0.3 miles of three phase 4/ 0 ACSR conductor to three phase 336 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing Phase-Wire</u>	<u>Proposed Phase-Wire</u>	
			<u>Existing Phase-Wire</u>	<u>Proposed Phase-Wire</u>
S. Jessamine	1614196-1614217	0.3	3Ø 4/0 ACSR	3Ø 336 ACSR

Reason for Proposed Construction

This line is currently overloaded. LS 1614196 is operating at 61% of capacity. This project will eliminate this over load condition as well as help eliminate low voltage problems on the circuit extremities.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
208	0.6	1,737	305	0.6	2,330

This construction allows for a load transfer from Nicholasville Substation.

Alternate Corrective Plans Investigated

336 ACSR was chosen based on economics and projected load growth. Consideration was given to using a larger conductor, but 336 ACSR was chosen based on economic conductor loading (see Exhibit N).

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 314-09

Estimated Cost: \$220,000

Description of Proposed Construction

Construction of a new three phase 336 ACSR DC line.

<u>Substation</u> Line	<u>Section</u> Miles	<u>Phase-Wire</u>	Existing	Proposed
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
S. Jessamine	sub-1614154	2.1	N/A	3ø 336 ACSR DC

Reason for Proposed Construction

Load growth near the extremities of circuit 4, combined with the need to transfer load from the Nicholasville Substation dictate the need to build additional circuits in the area.

Results of Proposed Construction

This construction allows for a load transfer from Nicholasville Substation, which will reduce additional reconductoring and substation work for that substation.

Alternate Corrective Plans Investigated

336 ACSR was chosen based on economics and projected load growth. Consideration was given to using a larger conductor, but 336 ACSR was chosen based on economic conductor loading (see Exhibit N).

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 315-01

Estimated Cost: \$216,000

Description of Proposed Construction

Conversion of 2.7 miles of three phase 1/0 ACSR conductor to three phase 336 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing</u>		<u>Proposed</u>
		<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>
North Madison	1616132-1617045	2.7	3Ø 1/0 ACSR	3Ø 336 ACSR

Reason for Proposed Construction

Current substation feeder is 1/0 ACSR. This is not appropriate as the main substation exit for this circuit.

Results of Proposed Construction

Substation exit now of appropriate size to handle expected loads. Creates possible load transfer point with Newby Substation.

Alternate Corrective Plans Investigated

336 ACSR was chosen based on economics and projected load growth. Consideration was given to using a larger conductor, but 336 ACSR was chosen based on economic conductor loading (see Exhibit N).

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 315-02

Estimated Cost: \$115,500

Description of Proposed Construction

Reconductor 2.1 miles of single phase 4 ACSR conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase-Wire</u>	<u>Existing</u>	<u>Proposed</u>
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
North Madison	1616158-1716142	2.1	1ø 4 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 1616158 is projected to carry 95 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
95	3.4	1,320	31	0.8	321

Voltage drops on the circuit extremities will be reduced by 2.6 volts. . Kilowatt-hour losses (\$/year) will be reduced by \$999.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 317-01

Estimated Cost: \$154,000

Description of Proposed Construction

Construct 1.1 miles of triple circuit three phase 336 ACSR conductor as feeders from new Southpoint Substation.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase</u>	Existing	Proposed
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
Southpoint	1415394	1.1	N/A	3ø 336 ACSR TC

Reason for Proposed Construction

Current substation feeder is 1/0 ACSR. This is not appropriate as the main substation exit for this circuit.

Results of Proposed Construction

Substation exit now of appropriate size to handle expected loads. Creates possible load transfer point with Davis Substation.

Alternate Corrective Plans Investigated

336 ACSR was chosen based on economics and projected load growth. Consideration was given to using a larger conductor, but 336 ACSR was chosen based on economic conductor loading (see Exhibit N).

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 317-02

Estimated Cost: \$187,500

Description of Proposed Construction

Construct 0.8 miles of three phase 500 MCM underground conductor as feeder exits from new Southpoint Substation along transmission right-of-way.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing</u>		<u>Proposed</u>
		<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>
Southpoint	N/A	0.8	N/A	3ø 500 MCM

Reason for Proposed Construction

Current substation feeder is 1/0 ACSR. This is not appropriate as the main substation exit for this circuit.

Results of Proposed Construction

Substation exit now of appropriate size to handle expected loads. Creates possible load transfer point with Davis Substation.

Alternate Corrective Plans Investigated

336 ACSR was chosen based on economics and projected load growth. Consideration was given to using a larger conductor, but 336 ACSR was chosen based on economic conductor loading (see Exhibit N).

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 317-03

Estimated Cost: \$75,600

Description of Proposed Construction

Construct 0.6 miles of double circuit three phase 336 ACSR conductor as feeders from new Southpoint Substation along transmission right-of-way.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing</u>		<u>Proposed</u>
		<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>
Southpoint	N/A	0.6	N/A	3ø 336 ACSR DC

Reason for Proposed Construction

Current substation feeder is 1/0 ACSR. This is not appropriate as the main substation exit for this circuit.

Results of Proposed Construction

Substation exit now of appropriate size to handle expected loads. Creates possible load transfer point with Davis Substation.

Alternate Corrective Plans Investigated

336 ACSR was chosen based on economics and projected load growth. Consideration was given to using a larger conductor, but 336 ACSR was chosen based on economic conductor loading (see Exhibit N).

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 321-01

Estimated Cost: \$110,000

Description of Proposed Construction

Conversion of 2.0 miles of single phase 4 ACSR conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase-Wire</u>	Existing	Proposed
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
Bridgeport	1010085-1009009	2.0	1ø 4 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to serve a three phase load that is expected in the area.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps Drop</u>	<u>(\$/year)</u>		<u>Amps Drop</u>	<u>(\$/year)</u>	
25	1.1	96	18	0.2	131

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 321-02

Estimated Cost: \$16,000

Description of Proposed Construction

Reconductor 0.2 miles of three phase 2 ACSR conductor to three phase 336 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing</u>		<u>Proposed</u>
		<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>
Bridgeport	1210090	0.2	3ø 2 ACSR	3ø 336 ACSR

Reason for Proposed Construction

The above work will create possible tie line to Ninevah Substation for future load transfers.

Results of Proposed Construction

Line now of appropriate size to handle load transfers from Ninevah Substation. Load transfers will be determined based of future loading in this area.

Alternate Corrective Plans Investigated

336 ACSR was chosen based on economics and projected load growth. Consideration was given to using a larger conductor, but 336 ACSR was chosen based on economic conductor loading (see Exhibit N).

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 322-01

Estimated Cost: \$77,000

Description of Proposed Construction

Conversion of 2.2 miles of single phase 4 AC SR 7.2kV conductor to three phase 1/0 ACSR 14.4kV conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing</u>		<u>Proposed</u>
		<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>
Ninevah	1311034	2.2	1ø 4 ACSR~7.2kV	3ø 1/0 ACSR~14.4kV

Reason for Proposed Construction

The above work is required to serve additional load that is expected in the area. It will also remove miles of 4 ACSR that has rusted steel core and is unreliable.

Results of Proposed Construction

Reinsulation of the line will allow for substation conversion to 14.4kV as called for in this CWP

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 322-02

Estimated Cost: \$416,000

Description of Proposed Construction

Reconductor 5.2 miles of three phase 4 ACSR conductor to three phase 336 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing Phase-Wire</u>	<u>Proposed Phase-Wire</u>
Ninevah	1311046-1411119	5.2 3ø 4 ACSR	3ø 336 ACSR

Reason for Proposed Construction

The above work is required to create a tie line between Ninevah Substation and Clay Lick Substation and to replace aged 3PH 4 ACSR conductor.

Results of Proposed Construction

Line is of appropriate size to handle load transfers from Clay Lick Substation in case of emergency or additional load in the area.

Alternate Corrective Plans Investigated

336 ACSR was chosen based on economics and projected load growth. Consideration was given to using a larger conductor, but 336 ACSR was chosen based on economic conductor loading (see Exhibit N).

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 322-03

Estimated Cost: \$136,000

Description of Proposed Construction

Reconductor 1.7 miles of three phase 4 ACSR conductor to three phase 336 ACSR conductor. Replace poles and equipment as required.

<u>Substation</u>	<u>Line</u>	<u>Section Miles</u>	<u>Existing Phase-Wire</u>	<u>Proposed Phase-Wire</u>
Ninevah	1210094 & 1210095	1.7	3ø 4 ACSR	3ø 336 ACSR

Reason for Proposed Construction

The above work is required to create a tie line between Ninevah Substation and Bridgeport Substation.

Results of Proposed Construction

Line is of appropriate size to handle load transfers from Bridgeport Substation in case of emergency or additional load in the area.

Alternate Corrective Plans Investigated

336 ACSR was chosen based on economics and projected load growth. Consideration was given to using a larger conductor, but 336 ACSR was chosen based on economic conductor loading (see Exhibit N).

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 323-01

Estimated Cost: \$133,000

Description of Proposed Construction

Conversion of 3.5 miles of single phase 6 CU conductor to single phase 1/0 ACSR conductor.
Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing Phase-Wire</u>	<u>Proposed Phase-Wire</u>
Sinia	1409042-1509053	3.5 1ø 6 CU	1ø 1/0 ACSR

Reason for Proposed Construction

The above work will remove several miles of #6 Copperweld conductor from service. This conductor has been shown to decrease service reliability.

This project is a carryover from the previous CWP.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 323-02

Estimated Cost: \$93,500

Description of Proposed Construction

Conversion of 1.7 miles of single phase 6 CU conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing</u>		<u>Proposed</u>	
		<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>
Sinia	1508068	1.7	1ø 6 CU	3ø	1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 1508068 is projected to carry 40 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
40	2.2	464	13	0.3	56

Voltage drops on the circuit extremities will be reduced by 1.9 volts. . Kilowatt-hour losses (\$/year) will be reduced by \$408.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 323-03

Estimated Cost: \$93,500

Description of Proposed Construction

Conversion of 1.7 miles of single phase 8 CU conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation</u>	<u>Line</u>	<u>Section Miles</u>	<u>Existing</u>		<u>Proposed</u>	
			<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>
Sinia		1608022-1609042	1.7	1ø 8 CU	3ø	1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 1508068 is projected to carry 41 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
41	2.6	557	13	0.2	44

Voltage drops on the circuit extremities will be reduced by 2.4 volts. . Kilowatt-hour losses (\$/year) will be reduced by \$513.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 323-04

Estimated Cost: \$93,500

Description of Proposed Construction

Conversion of 1.7 miles of single phase 8 CU conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation</u>	<u>Line</u>	<u>Section Miles</u>	<u>Existing</u>		<u>Proposed</u>	
			<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>
Sinia		1608024-1608011	1.7	1ø 8 CU	3ø	1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 1508068 is projected to carry 56 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
56	4.5	1,292	19	0.4	107

Voltage drops on the circuit extremities will be reduced by 4.1 volts. . Kilowatt-hour losses (\$/year) will be reduced by \$1,185.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 323-05

Estimated Cost: \$110,000

Description of Proposed Construction

Conversion of 2.0 miles of single phase 6 CU conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing</u>		<u>Proposed</u>	
		<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>
Sinia	1307012	2.0	1ø 6 CU	3ø	1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 1508068 is projected to carry 70 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
70	4.3	1,734	23	0.6	209

Voltage drops on the circuit extremities will be reduced by 3.7 volts. . Kilowatt-hour losses (\$/year) will be reduced by \$1,525.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 323-06

Estimated Cost: \$336,000

Description of Proposed Construction

Conversion of 4.2 miles of three phase 4 ACSR conductor to three phase 336 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing Phase-Wire</u>	<u>Proposed Phase-Wire</u>
Sinia	1408059-1407026	4.2 3ø 4 ACSR	3ø 336 ACSR

Reason for Proposed Construction

The above work is required to reduce excess voltage drops on the circuit extremities.

Results of Proposed Construction

Main three phase line now is capable of handling anticipated future load.

Alternate Corrective Plans Investigated

336 ACSR was chosen based on economics and projected load growth. Consideration was given to using a larger conductor, but 336 ACSR was chosen based on economic conductor loading (see Exhibit N).

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 323-07

Estimated Cost: \$33,000

Description of Proposed Construction

Conversion of 0.6miles of single phase 8 CU conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing Phase-Wire</u>	<u>Proposed Phase-Wire</u>
Sinia	1408069 & 1408070	0.6 1ø 8 CU	3ø 1/0 ACSR

Reason for Proposed Construction

The above work will allow load shifts to be made in the area and will eliminate excessive voltage drops.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 324-01

Estimated Cost: \$181,500

Description of Proposed Construction

Conversion of 3.3 miles of three phase 4 ACSR conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>		<u>Existing Phase-Wire</u>	<u>Proposed Phase-Wire</u>
Van Arsdell	1611043 & 1611044	3.3	3ø 4 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to reduce excess voltage drops on the extremities of circuit 1. This work will also allow for load shifts in the area that will further reduce excessive voltage drops.

Alternate Corrective Plans Investigated

336 ACSR was chosen based on economics and projected load growth. Consideration was given to using a larger conductor, but 336 ACSR was chosen based on economic conductor loading (see Exhibit N).

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 324-02

Estimated Cost: \$110,000

Description of Proposed Construction

Conversion of 2.0 miles of single phase 4 ACSR conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing</u>		<u>Proposed</u>
		<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>
Van Arsdell	1611046	2.0	1ø 4 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 1611046 is projected to carry 44 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
44	3.5	661	15	0.4	79

Voltage drops on the circuit extremities will be reduced by 3.1 volts. . Kilowatt-hour losses (\$/year) will be reduced by \$582.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 324-03

Estimated Cost: \$99,000

Description of Proposed Construction

Conversion of 1.8 miles of single phase 4 ACSR conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing</u>		<u>Proposed</u>
		<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>
Van Arsdell	1711047	1.8	1ø 4 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 1711047 is projected to carry 88 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
88	3.5	1,410	30	0.5	168

Voltage drops on the circuit extremities will be reduced by 3.0 volts. . Kilowatt-hour losses (\$/year) will be reduced by \$1,242.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 324-04

Estimated Cost: \$55,000

Description of Proposed Construction

Conversion of 1.0 miles of single phase 4 ACSR conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing</u>		<u>Proposed</u>
		<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>
Van Arsdell	1610046	1.0	1ø 4 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 1711047 is projected to carry 47 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
47	1.9	521	16	0.2	62

Voltage drops on the circuit extremities will be reduced by 1.7 volts. . Kilowatt-hour losses (\$/year) will be reduced by \$459.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 324-05

Estimated Cost: \$44,000

Description of Proposed Construction

Conversion of .8 miles of single phase 4 ACSR conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing</u>		<u>Proposed</u>
		<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>
Van Arsdell	1710062	0.8	1ø 4 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 1711047 is projected to carry 38 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
38	1.3	295	13	0.2	35

Voltage drops on the circuit extremities will be reduced by 1.1 volts. Kilowatt-hour losses (\$/year) will be reduced by \$260.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 324-06

Estimated Cost: \$44,000

Description of Proposed Construction

Conversion of .8 miles of single phase 4 ACSR conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase-Wire</u>	Existing	Proposed
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
Van Arsdell	1710063-1710065	0.8	1ø 4 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 1710063 is projected to carry 80 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

The overloaded condition will occur when load is shifted from a nearby circuit.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
80	2.6	-	26	0.2	-

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 324-07

Estimated Cost: \$209,000

Description of Proposed Construction

Reconductor 3.8 miles of three phase 4 ACSR conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase-Wire</u>	Existing	Proposed
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
Van Arsdell	1510058-1510078	3.8	3ø 4 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to reduce voltage drops on the circuit extremities. Some of this 4 ACSR is known to have a rusted steel core and is considered to be unreliable. This project will remove it from service and increase the reliability of the line.

Alternate Corrective Plans Investigated

336 ACSR was chosen based on economics and projected load growth. Consideration was given to using a larger conductor, but 336 ACSR was chosen based on economic conductor loading (see Exhibit N).

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 324-08

Estimated Cost: \$115,500

Description of Proposed Construction

Conversion of 2.1 miles of single phase 6 CU conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing</u>		<u>Proposed</u>
		<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>
Van Arsdell	1510089-1410070	2.	1ø 6 C	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 1711047 is projected to carry 39 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
39	2.7	588	13	0.3	68

Voltage drops on the circuit extremities will be reduced by 2.4 volts. . Kilowatt-hour losses (\$/year) will be reduced by \$520.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 324-09

Estimated Cost: \$250,300

Description of Proposed Construction

Conversion of 3.1 miles of single phase 6 CU conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required. Reconductor 2.1 miles of single phase 6 CU conductor to single phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing</u>		<u>Proposed</u>	
		<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>
Van Arsdell	1610061-1609051	3.1	1ø 6 CU	3ø 1/0 ACSR	
	1610085	2.1	1ø 6 CU	1ø 1/0 ACSR	

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 1711047 is projected to carry 99 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

This project is a carry-over from the previous CWP.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps Drop</u>	<u>(\$/year)</u>		<u>Amps Drop</u>	<u>(\$/year)</u>	
99	7.0	3,766	33	0.9	444

Voltage drops on the circuit extremities will be reduced by 6.1 volts. Kilowatt-hour losses (\$/year) will be reduced by \$3,322.

Removal of #6 Copperweld will increase service reliability.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 326-01

Estimated Cost: \$110,000

Description of Proposed Construction

Conversion of 2.0 miles of single phase 6 copper conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase</u>	<u>Existing</u>	<u>Proposed</u>
			<u>Wire</u>	<u>Wire</u>
Clay Lick	1411160 & 1411145	2.0	1ø 6 CU	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. The sections are projected to carry 71 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
71	6.2	1,836	23	0.6	188

Voltage drops on the circuit extremities will be reduced by 5.6 volts. Kilowatt-hour losses (\$/year) will be reduced by \$1,648.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 326-02

Estimated Cost: \$68,000

Description of Proposed Construction

Conversion of 1.7 miles of single phase 8 copper conductor to two phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing Phase-Wire</u>	<u>Proposed Phase-Wire</u>
Clay Lick	1512041 Tap	1.7 1ø 8 CU	2ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. In addition, this project will help with phase balance. Model data is not available for this section as it was not modeled.

Results of Proposed Construction

This project will improve reliability by replacing the old 8 copper line and will improve phase balance because of the multiphasing.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 326-03

Estimated Cost: \$137,500

Description of Proposed Construction

Conversion of 2.5 miles of single phase 6 copper conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase</u>	<u>Existing</u>	<u>Proposed</u>
			<u>Wire</u>	<u>Wire</u>
Clay Lick	1512020 & 1512022	2.5	1ø 6 CU	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. The sections are projected to carry 57 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
49	3.4	856	16	0.4	104

Voltage drops on the circuit extremities will be reduced by 3.0 volts. Kilowatt-hour losses (\$/year) will be reduced by \$752.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 326-04

Estimated Cost: \$115,500

Description of Proposed Construction

Conversion of 2.1 miles of single phase 4 ACSR conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase-Wire</u>	<u>Existing</u>	<u>Proposed</u>
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
Clay Lick	1410049	2.1	1ø 4 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. The sections are projected to carry 57 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
57	3.9	1,157	19	0.5	138

Voltage drops on the circuit extremities will be reduced by 3.4 volts. Kilowatt-hour losses (\$/year) will be reduced by \$1,019.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 326-05

Estimated Cost: \$88,000

Description of Proposed Construction

Conversion of 1.6 miles of single phase 4 ACSR conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase-Wire</u>	Existing	Proposed
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
Clay Lick	1511085 & 1510103	1.6	1ø 4 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. The sections are projected to carry 82 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
Load	Voltage	Losses	Load	Voltage	Losses
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
82	4.4	1,735	27	0.6	207

Voltage drops on the circuit extremities will be reduced by 3.8 volts. Kilowatt-hour losses (\$/year) will be reduced by \$1,520.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 328-01

Estimated Cost: \$110,000

Description of Proposed Construction

Conversion of 2.0 miles of single phase 6 copper conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation</u> / <u>Line</u>	<u>Section</u> / <u>Miles</u>	<u>Existing</u>		<u>Proposed</u>	
		<u>Phase</u> / <u>Wire</u>	<u>Phase</u> / <u>Wire</u>	<u>Phase</u> / <u>Wire</u>	<u>Phase</u> / <u>Wire</u>
Powell - Taylor	1309036 - 1309038	2.0	1ø 6 CU	3ø	1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. These sections are projected to carry 74 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
74	5.0	1,869	33	0.7	296

Voltage drops on the circuit extremities will be reduced by 4.3 volts. Kilowatt-hour losses (\$/year) will be reduced by \$1,573.

Alternate Corrective Plans Investigated

Since 1/0 ACSR is the minimum conductor used for mulitphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 328-02

Estimated Cost: \$150,000

Description of Proposed Construction

Build three phase 500 MCM underground exits for the new Powell-Taylor sub. Replace poles and equipment as required.

<u>Substation</u> / <u>Line</u>	<u>Section</u> / <u>Miles</u>	<u>Existing</u>		<u>Proposed</u>
		<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>
Powell - Taylor	sub	0.6	-	3ø 500 MCM URD

Reason for Proposed Construction

The above work is required to connect the new Powell-Taylor substation to the existing distribution lines.

Results of Proposed Construction

The results of this new substation are increased capacity, improved reliability, lowered losses and voltage drops for the consumers in the area.

Alternate Corrective Plans Investigated

The Powell-Taylor substation is being build in accordance to the 2004 Long Range Plan. Any and all alternatives, such as transformer upratings, were considered at that time.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 328-03

Estimated Cost: \$88,000

Description of Proposed Construction

Conversion of 1.6 miles of single phase 6 copper conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation</u> <u>Line</u>	<u>Section</u> <u>Miles</u>	<u>Phase-Wire</u>	Existing	Proposed
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
Powell - Taylor	1309060 - 1309049	1.6	1ø 6 CU	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve the overloaded single phase lines 1309042 and 1309043 with a load shift onto the new 3 phase line (which also replaces some aged copper conductor). The overloaded lines are projected to carry 53 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
53	3.3	978	16	0.3	19

The voltage drop across lines 1309042 & 1309043 is improved by 3 volts, and the losses are lowered by \$959.

Alternate Corrective Plans Investigated

Since 1/0 ACSR is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 331-01

Estimated Cost: \$32,000

Description of Proposed Construction

Conversion of 0.8 miles of single phase 4 ACSR conductor with two phase 2 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing Phase-Wire</u>	<u>Proposed</u>	
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
Bracken County	0318020 - 0319040	0.8	1ø 4 ACSR	2ø 2 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. These sections are projected to carry 44 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
40	1.7	333	20	0.5	102

Voltage drops on the circuit extremities will be reduced by 1.2 volts. Kilowatt-hour losses (\$/year) will be reduced by \$231.

Alternate Corrective Plans Investigated

The use of 1/0 was considered, but 2 ACSR is being used because of modest growth in the area.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 331-02

Estimated Cost: \$38,500

Description of Proposed Construction

Conversion of 0.7 miles of single phase 6 copper conductor with three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing</u>		<u>Proposed</u>
		<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>
Bracken County	0219010	0.7	1ø 6 CU	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. These sections are projected to carry 44 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
44	1.6	307	14	0.2	37

Voltage drops on the circuit extremities will be reduced by 1.4 volts. Kilowatt-hour losses (\$/year) will be reduced by \$270.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 331-03

Estimated Cost: \$144,000

Description of Proposed Construction

Re-conductor 1.8 miles of three phase 4 ACSR conductor with three phase 336 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase</u>	<u>Existing Wire</u>	<u>Proposed Wire</u>
Bracken County	0419047 - 0419040	1.8	3ø 4 ACSR	3ø 336 ACSR

Reason for Proposed Construction

The above work is required to replace old, brittle conductor and create an alternate feed to Four Oaks circuit 134. The existing 4 ACSR does not have enough capacity and is a liability due to its age and condition.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
71	4.0	6,608	90	0.7	749

Voltage drops on the circuit extremities will be reduced by 3.3 volts. Kilowatt-hour losses (\$/year) will be reduced by \$467.

An additional result is the increased reliability due to replacement of aged conductor and new alternate feed for Four Oaks 134.

Alternate Corrective Plans Investigated

Consideration was given to the use of 1/0 ACSR, but 336 ACSR was chosen due to its increased capacity.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 332-01

Estimated Cost: \$352,000

Description of Proposed Construction

Re-conductor 4.4 miles of three phase 4 ACSR conductor to three phase 336 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase-Wire</u>	<u>Existing</u>	<u>Proposed</u>
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
Colemansville	0617052 - 0617032	4.4	3ø 4 ACSR	3ø 336 ACSR

Reason for Proposed Construction

The above work is required to replace old, brittle conductor and improve the capacity of the line. The existing 4 ACSR is old and due for replacement. This project also provides alternate feeds for Cynthia circuit 114 and Four Oaks circuit 134.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
51	8.2	7,844	51	1.4	1,039

Voltage drops on the circuit extremities will be reduced by 6.8 volts. Kilowatt-hour losses (\$/year) will be reduced by \$6,805.

Alternate Corrective Plans Investigated

Consideration was given to the use of 1/0 ACSR, but 336 ACSR was chosen due to its increased capacity.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 332-02

Estimated Cost: \$408,000

Description of Proposed Construction

Re-conductor 5.1 miles of three phase 4 ACSR conductor to three phase 336 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase</u>	<u>Existing Wire</u>	<u>Proposed Wire</u>
Colemansville	0616047 - 0716043	5.1	3ø 4 ACSR	3ø 336 ACSR

Reason for Proposed Construction

The above work is required to create an alternate feed to Lee's Lick circuit 114. When the job is complete, some load from Lee's Lick 114 will be served from this feeder (Colemansville 124). In addition, the existing 4 ACSR is in need of replacement due to age and condition.

Results of Proposed Construction

Results include improved reliability due to backfeed capability, as well as the replacement of old conductor.

Alternate Corrective Plans Investigated

Consideration was given to the use of 1/0 ACSR, but 336 ACSR was chosen due to its increased capacity.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 333-01

Estimated Cost: \$55,000

Description of Proposed Construction

Conversion of 1.0 miles of single phase 4 ACSR conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase-Wire</u>	Existing	Proposed
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
Four Oaks	0417065	1.0	1ø 4 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. These sections are projected to carry 32 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps. Although this particular line is not in that range, the conductor is old and in need of replacement.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
Load	Voltage	Losses	Load	Voltage	Losses
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
32	1.3	268	10	0.2	32

Voltage drops on the circuit extremities will be reduced by 1.1 volts. Kilowatt-hour losses (\$/year) will be reduced by \$236.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 333-02

Estimated Cost: \$121,000

Description of Proposed Construction

Conversion of 2.2 miles of single phase 4 ACSR conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase-Wire</u>	<u>Existing</u>	<u>Proposed</u>
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
Four Oaks	0517061 - 0618054	2.2	1ø 4 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. These sections are projected to carry 70 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
70	5.3	1,970	23	0.7	235

Voltage drops on the circuit extremities will be reduced by 4.6 volts. Kilowatt-hour losses (\$/year) will be reduced by \$1,735.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 333-03

Estimated Cost: \$44,000

Description of Proposed Construction

Conversion of 0.8 miles of single phase 4 ACSR conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase-Wire</u>	<u>Existing</u>	<u>Proposed</u>
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
Four Oaks	0517073	0.8	1ø 4 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 0517073 is projected to carry 49 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
49	2.6	772	16	0.3	92

Voltage drops on the circuit extremities will be reduced by 2.3 volts. Kilowatt-hour losses (\$/year) will be reduced by \$680.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 333-04

Estimated Cost: \$200,000

Description of Proposed Construction

Re-conductor 2.5 miles of three phase 4 ACSR conductor to three phase 336 ACSR conductor. Replace poles and equipment as required.

<u>Substation</u>	<u>Line</u>	<u>Section Miles</u>	<u>Existing</u>		<u>Proposed</u>
			<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>
Four Oaks	0618052 - 0618054	2.5	3ø 4 ACSR	3ø 336 ACSR	

Reason for Proposed Construction

The above work is required to provide an alternate feed to Bracken County circuit 114. The existing 4 ACSR conductor does not have adequate capacity to backfeed that circuit. In addition, the existing 4 ACSR has become a liability due to its poor condition.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
34	3.1	1,992	33	0.5	241

Voltage drops on the circuit extremities will be reduced by 2.6 volts. Kilowatt-hour losses (\$/year) will be reduced by \$1,751.

Other results include improved reliability due to backfeed capability, as well as the replacement of old conductor.

Alternate Corrective Plans Investigated

Consideration was given to the use of 1/0 ACSR, but 336 ACSR was chosen due to its increased capacity.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 334-01

Estimated Cost: \$44,000

Description of Proposed Construction

Conversion of 0.8 miles of single phase 4 ACSR conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase-Wire</u>	Existing	Proposed
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
Lee's Lick	0815064	0.8	1ø 4 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 0815064 is projected to carry 51 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
Load	Voltage	Losses	Load	Voltage	Losses
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
51	1.4	378	17	0.2	45

Voltage drops on the circuit extremities will be reduced by 1.2 volts. Kilowatt-hour losses (\$/year) will be reduced by \$333.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 334-02

Estimated Cost: \$55,000

Description of Proposed Construction

Conversion of 1.0 miles of single phase 4 ACSR conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing</u>		<u>Proposed</u>
		<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>
Lee's Lick	0815053	1.0	1ø 4 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 0815053 is projected to carry 71 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
71	2.1	758	23	0.3	90

Voltage drops on the circuit extremities will be reduced by 1.8 volts. Kilowatt-hour losses (\$/year) will be reduced by \$668.

Alternate Corrective Plans Investigated

Since 1/0 ACSR is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 334-03

Estimated Cost: \$104,500

Description of Proposed Construction

Conversion of 1.9 miles of single phase 4 ACSR conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase-Wire</u>	Existing	Proposed
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
Lee's Lick	0715046	1.9	1ø 4 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to relieve an overloaded single phase line. LS 0715046 is projected to carry 66 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
66	4.1	1,416	22	0.5	169

Voltage drops on the circuit extremities will be reduced by 3.6 volts. Kilowatt-hour losses (\$/year) will be reduced by \$1,247.

Alternate Corrective Plans Investigated

Since 1/0 ACSR is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 334-04

Estimated Cost: \$400,000

Description of Proposed Construction

Re-conductor 5.0 miles of three phase 4 ACSR conductor with three phase 336 ACSR conductor. Replace poles and equipment as required.

<u>Substation</u>	<u>Line</u>	<u>Section Miles</u>	<u>Existing</u>		<u>Proposed</u>
			<u>Phase-Wire</u>	<u>Phase-Wire</u>	<u>Phase-Wire</u>
Lee's Lick	0816066 - 0716049	5.0	3ø 4 ACSR	3ø 4 ACSR	3ø 336 ACSR

Reason for Proposed Construction

The above work is required to lower the voltage drops and improve service reliability. When complete, this section of line will be fed from Colemansville circuit 124 (instead of Lee's Lick 114) but will be used as an alternate feed to Lee's Lick 114. The existing 4 ACSR has become a liability due to its poor condition.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
52	2.5	1,671	52	0.6	360

Voltage drops on the circuit extremities will be reduced by 1.9 volts. Kilowatt-hour losses (\$/year) will be reduced by \$1,311.

Alternate Corrective Plans Investigated

Consideration was given to the use of 1/0 ACSR, but 336 ACSR was chosen due to its increased capacity.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 334-05

Estimated Cost: \$104,000

Description of Proposed Construction

Re-conductor 1.3 miles of three phase 4 ACSR conductor to three phase 336 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing Phase-Wire</u>	<u>Proposed Phase-Wire</u>
Lee's Lick	0916068	1.3 3ø 4 ACSR	3ø 336 ACSR

Reason for Proposed Construction

The above work is required to provide an alternate feed to the Jacksonville substation, particularly circuit 104. The existing three phase 4 ACSR is old and brittle, and it does not have adequate capacity.

Results of Proposed Construction

Results include improved reliability due to backfeed capability, as well as the replacement of old conductor.

Alternate Corrective Plans Investigated

Consideration was given to the use of a different conductor, but 336 ACSR was chosen due to economics and capacity.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 335-01 Estimated Cost: \$75,000

Description of Proposed Construction

Re-conductor 0.3 miles of three phase 1/0 underground conductor with three phase 500 MCM underground conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase-Wire</u>	Existing	Proposed
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
Cynthiana	0817131	0.3	3ø 1/0 URD	3ø 500 MCM URD

Reason for Proposed Construction

The above work is required to provide an alternate feed to Headquarters circuit 124. The existing 1/0 underground conductor does not have adequate capacity to backfeed that circuit.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
Load	Voltage	Losses	Load	Voltage	Losses
<u>Amps Drop</u>	<u>(\$/year)</u>	<u></u>	<u>Amps Drop</u>	<u>(\$/year)</u>	<u></u>
91	0.5	888	76	0.1	167

Voltage drops on the circuit extremities will be reduced by 0.4 volts. Kilowatt-hour losses (\$/year) will be reduced by \$721.

Other results include improved reliability due to backfeed capability, as well as the replacement of old conductor.

Alternate Corrective Plans Investigated

Consideration was given to the use of a different conductor, but 500 MCM URD was chosen due to economics and capacity.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 335-02

Estimated Cost: \$168,000

Description of Proposed Construction

Re-conductoring of 2.1 miles of three phase 4 ACSR conductor to three phase 336 ACSR. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase-Wire</u>	<u>Existing</u>	<u>Proposed</u>
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
Cynthiana	0818056- 0818059	2.1	3ø 4 ACSR	3ø 336 ACSR

Reason for Proposed Construction

The above work is required to provide an alternate feed to Headquarters circuit 124, as well as replace old 4 ACSR conductor.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
49	2.7	2,413	34	0.4	133

Voltage drops on the circuit extremities will be reduced by 2.3 volts. Kilowatt-hour losses (\$/year) will be reduced by \$2,280.

Other results include improved reliability due to backfeed capability, as well as the replacement of old conductor.

Alternate Corrective Plans Investigated

Consideration was given to the use of 1/0 ACSR, but 336 ACSR was chosen due to its increased capacity.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 335-03

Estimated Cost: \$264,000

Description of Proposed Construction

Re-conductoring of 3.3 miles of three phase 6 copper conductor to three phase 336 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase-Wire</u>	Existing	Proposed
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
Cynthiana	0817078 - 0816055	3.3	3ø 6 CU	3ø 336 ACSR

Reason for Proposed Construction

The above work is required to provide an alternate feed to Lee's Lick circuit 114 and Colemansville circuit 124. The existing three phase 6 CU is old and unreliable, and it does not provide enough backfeeding capacity.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
Load	Voltage	Losses	Load	Voltage	Losses
<u>Amps Drop</u>	<u>(\$/year)</u>		<u>Amps Drop</u>	<u>(\$/year)</u>	
39	0.5	321	16	0.04	105

Voltage drops on the circuit extremities will be reduced by 0.46 volts. Kilowatt-hour losses (\$/year) will be reduced by \$216.

Alternate Corrective Plans Investigated

Consideration was given to the use of 1/0 ACSR, but 336 ACSR was chosen due to its increased capacity.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 336-01, 02, 03, 04, & 05

Estimated Cost: \$60,000

Description of Proposed Construction

This construction is to rebuild the Headquarters substation feeders. The estimated cost for each project is \$12,000 for a total of \$60,000.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Existing Phase-Wire</u>	<u>Proposed Phase-Wire</u>
Headquarters	Substation Exits	-	3Ø 336 ACSR

Alternate Corrective Plans Investigated

Consideration was given to the use of 556 ACSR, but 336 ACSR was chosen due to economic conductor loading (see Exhibit N).

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 336-06

Estimated Cost: \$49,500

Description of Proposed Construction

Conversion of 0.9 miles of single phase 4 ACSR conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation</u>	<u>Line</u>	<u>Section</u> Miles	<u>Phase-Wire</u>	Existing	Proposed
				<u>Phase-Wire</u>	<u>Phase-Wire</u>
Headquarters		0820035	0.9	1ø 4 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to unload an over loaded single phase line. LS 0820035 is projected to carry 48 amps in 2009. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
Load	Voltage	Losses	Load	Voltage	Losses
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
48	1.7	502	16	0.2	60

Voltage drops on the circuit extremities will be reduced by 1.5 volts. Kilowatt-hour losses (\$/year) will be reduced by \$442.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 338-01

Estimated Cost: \$160,000

Description of Proposed Construction

Re-conductor 2.0 miles of three phase 4 ACSR conductor to three phase 336 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase-Wire</u>	Existing	Proposed
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
Millersburg	1020066	2.0	3ø 4 ACSR	3ø 336 ACSR

Reason for Proposed Construction

The above work is necessary to replace aged conductor and to improve the voltage drops. This section of 4 ACSR is old and unreliable, and it should be replaced to increase reliability.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
Load	Voltage	Losses	Load	Voltage	Losses
<u>Amps Drop</u>	<u>(\$/year)</u>	<u></u>	<u>Amps Drop</u>	<u>(\$/year)</u>	<u></u>
64	4.8	6,124	64	0.8	760

Voltage drops on the circuit extremities will be reduced by 4 volts. Kilowatt-hour losses (\$/year) will be reduced by \$5,364.

Alternate Corrective Plans Investigated

Consideration was given to the use of 556 ACSR, but 336 ACSR was chosen due to economic conductor loading and modest load growth (see Exhibit N).

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 339-01

Estimated Cost: \$176,000

Description of Proposed Construction

Re-conductor 2.2 miles of three phase 4 ACSR conductor to three phase 336 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>		<u>Existing</u>	<u>Proposed</u>
		<u>Phase-Wire</u>	<u>Phase-Wire</u>	
Jacksonville	0916078 - 0916080	2.2	3ø 4 ACSR	3ø 336 ACSR

Reason for Proposed Construction

The above work is required to provide an alternate feed to Lee's Lick feeder 134. The existing three phase 4 ACSR does not have enough capacity to provide reliable service to these consumers.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
16	0.8	208	16	0.1	26

Voltage drops on the circuit extremities will be reduced by 07 volts. Kilowatt-hour losses (\$/year) will be reduced by \$182.

Alternate Corrective Plans Investigated

Consideration was given to the use of 556 ACSR, but 336 ACSR was chosen due to economic conductor loading (see Exhibit N).

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 339-02

Estimated Cost: \$110,000

Description of Proposed Construction

Conversion of 2.0 miles of two phase 4 ACSR conductor to three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation Line</u>	<u>Section Miles</u>	<u>Phase-Wire</u>	Existing	Proposed
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
Jacksonville	1017036	2.0	2ø 4 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is necessary to replace aged conductor in addition to improving phase balance. This section of 4 ACSR is old and unreliable, and it should be replaced to increase reliability.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
Load	Voltage	Losses	Load	Voltage	Losses
<u>Amps Drop</u>	<u>(\$/year)</u>	<u></u>	<u>Amps Drop</u>	<u>(\$/year)</u>	<u></u>
41	2.4	994	27	0.7	250

Voltage drops on the circuit extremities will be reduced by 1.7 volts. Kilowatt-hour losses (\$/year) will be reduced by \$724.

Alternate Corrective Plans Investigated

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed.

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 339-03

Estimated Cost: \$44,000

Description of Proposed Construction

Re-conductor 0.8 miles of three phase 4 ACSR conductor with three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation</u> <u>Line</u>	<u>Section</u> <u>Miles</u>	<u>Phase</u> - <u>Wire</u>	Existing	Proposed
			<u>Phase</u> - <u>Wire</u>	<u>Phase</u> - <u>Wire</u>
Jacksonville	1017029	0.8	3ø 4 ACSR	3ø 1/0 ACSR

Reason for Proposed Construction

The above work is required to unload the line section 1017029. This section of three phase 4 ACSR is old and unreliable, and it should be replaced to improve reliability.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u> <u>Drop</u>	<u>(\$/year)</u>		<u>Amps</u> <u>Drop</u>	<u>(\$/year)</u>	
79	2.1	3,257	79	1.0	1,291

Voltage drops on the circuit extremities will be reduced by 1.1 volts. Kilowatt-hour losses (\$/year) will be reduced by \$1,966.

Alternate Corrective Plans Investigated

Consideration was given to the use of 336 AC SR, but 1/0 ACSR was chosen due to economic conductor loading (see Exhibit N).

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 340-01

Estimated Cost: \$128,000

Description of Proposed Construction

Re-conductor 1.6 miles of three phase 1/0 ACSR conductor to three phase 336 ACSR conductor. Replace poles and equipment as required.

<u>Substation</u>	<u>Line</u>	<u>Section Miles</u>	<u>Existing</u>	<u>Proposed</u>
			<u>Phase-Wire</u>	<u>Phase-Wire</u>
Oxford	1015106 - 1015078	1.6	3Ø 1/0 ACSR	3Ø 336 ACSR

Reason for Proposed Construction

The above work is required to provide an alternate feed to Lee's Lick feeder 134. The existing three phase 1/0 does not have enough capacity to provide reliable service for these consumers.

Results of Proposed Construction

<u>Future System W/O Improvements</u>			<u>Future System After Improvements</u>		
<u>Load</u>	<u>Voltage</u>	<u>Losses</u>	<u>Load</u>	<u>Voltage</u>	<u>Losses</u>
<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>	<u>Amps</u>	<u>Drop</u>	<u>(\$/year)</u>
50	0.9	1,013	50	0.2	320

Voltage drops on the circuit extremities will be reduced by 0.7 volts. Kilowatt-hour losses (\$/year) will be reduced by \$693.

Alternate Corrective Plans Investigated

Consideration was given to the use of 556 ACSR, but 336 ACSR was chosen due to economic conductor loading (see Exhibit N).

2007-2009 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 340-02

Estimated Cost: \$280,000

Description of Proposed Construction

Conversion of 3.5 miles of three phase 336 ACSR conductor on existing KU transmission right of way. Replace poles and equipment as required.

Substation	Line	Section Miles	Existing Phase-Wire	Proposed Phase-Wire
Oxford	1015097 - 1015091	3.5	KU T/L	3ø 336 ACSR (underbuild)

Reason for Proposed Construction

The above work will provide a secondary feed to the Georgetown Business Park.

Results of Proposed Construction

This new feed will provide increased reliability to the Georgetown Business Park.

Alternate Corrective Plans Investigated

No other alternatives were reviewed.

Exhibit U

Minimum Line Voltage Comparisons

Pages: 1

BLUE GRASS ENERGY

Kentucky 64 Jessamine
Nicholasville, Kentucky

**2007-2009 CONSTRUCTION WORK PLAN
Capacitor Recommendations and Cost Estimates
RUS Reference Code 605**

Blue Grass Energy is planning to use their AMR system to monitor voltage along each circuit. We will be configuring meters to record voltage on all 3 phases at beginning, middle and end of all circuits, once we have the AMR system deployment complete. Using our Outage Management System the strategic locations have been determined.

The AMR meter that Blue Grass Energy chose to do this is the Landis and Gyr Focus Meter which can record min/max daily voltage and report it along with the daily KWH reading.

The monitoring & recording in selected areas will begin during the month of November and allow for accurate comparison of the engineering model to actual system voltages during peak winter conditions. Deviations noted will be reviewed against the Work Plan Projects to verify appropriateness of project scope.

The recently completed GIS, along with the ongoing AMR should allow for increased accuracy in future work plan system modeling. A model using actual phase currents/voltages instead of balanced values is the goal.

Ken Cooper
Manager, Information Technology
Blue Grass Energy Cooperative
1201 Lexington Rd
Nicholasville, KY 40340

Exhibit V

Automatic Meter Reading (AMR) Equipment

Pages: 1

BLUE GRASS ENERGY

Kentucky 64 Jessamine
Nicholasville, Kentucky

**2007-2009 CONSTRUCTION WORK PLAN
Automatic Meter reading (AMR) Equipment
RUS Reference Code 702**

We are currently installing SPU's (sub station processing units), TCU's (transformer coupling units), three phase transformers and communications equipment. Each substation is equipped with one SPU, two TCU, one 2% or less impedance three phase URD transformers and one radio. If signal to noise ratios are unacceptable or the substation has more than 6000 meters an additional SPU is added. The transformers are connected to the bus of the substation with switches and current limiting fuses. Radio communications are installed unless the terrain affects line of sight, if radios are not effective we are installing land line telephone service to the substations.

Approximately 15 substations remain to be modified with this equipment.

Chris Brewer, PE
VP, Engineering
Blue Grass Energy Cooperative
1201 Lexington Rd
Nicholasville, KY 40340

RUS Reference Code 702: \$750,000

BGE's AMR justification was filed in Case 2004-00251 and granted a CPCN by final order dated 11/15/04

PATTERSON & DEWAR ENGINEERS, INC.

Norcross, Georgia

PRIMARY ANALYSIS – ELECTRIC DISTRIBUTION

Output Legend

LINE SECT	Indicates substation, circuit or line section
+	Denotes adjacent line section and portion of distribution line is operating at the voltage level of 14.4/24.94 kV. All other lines are operating at the nominal voltage level of 12.5kV unless otherwise indicated.
PRIOR SECT	Denotes parent line or line section that feeds the line section indicated to the left.
MILES	Indicates the total accumulated distance from the substation or power source to the end of the line section at the far left.
CONS	Indicates the total number of consumers being served from the source end of the line section to the end of the circuit including all branches.
PHS	Number of primary phases
WIRE CONSTR-N	The conductor wire size or designation for line section or “NODE” section containing capacitor (CAP), or voltage regulator (REGU). Node line sections are used for substation circuit or feeder designations, and for locations of possible sectionalizing devices.

Output Legend (Continued)

MX 3P FAULT	Denotes maximum three-phase fault in amperes at the load end of the indicated line section or substation bus.
MX LLG FAULT	Denotes maximum phase to phase to ground (LLG) fault in amperes at the end of the indicated line section or substation bus. It is provided because typically LLF faults are the worst/maximum conditions at the substation bus.
MX LG FAULT	Denotes maximum phase to ground fault in amperes at the end of the indicated line section or substation bus.
MN LG FAULT	Denotes minimum phase to ground fault in amperes at the end of the indicated line section or substation bus assuming a 40 ohm high resistive (R) ground fault condition for overhead lines and 15 ohm resistance for underground lines, unless otherwise indicated.
TOTAL kW	Denotes the total calculated peak demand in kilowatts being served by and through the indicated substation, circuit or line section as the case may be.
EQUIV AMPS	Equivalent line amperes for total peak kilowatts shown for line section based on estimated power factor.
% CAP	Percent of conductor current loading in line section of its maximum published rating based on quoted ambient temperature and wind condition.
LINE DROP	Denotes the calculated voltage drop within the line section based on the total load down-line of the line section plus 50% of the load within the line section.
TOTAL DROP	Denotes the total accumulated voltage drop from the substation bus to the load-end of the line section and/or circuit.

Output Legend (Continued)

LINE LOSS Denotes the calculated primary line losses in dollars per year (\$/yr) for the line section indicated. The total losses for each circuit, substation and total system are also shown at the end of each location.

Power Factor Denotes the average power factor estimated for the load period and for the substation area during the system peak conditions.

Load Factor Indicates the calculated system annual load factor (ALF) for the calendar year that the consumer billing data was obtained. It was calculated from operating report data using the following equation:

$$ALF = (\text{Total kwh's purchased}) / (8760 \text{ hours per year})(\text{kW peak demand})$$

Loss Factor A number that is calculated using the annual load factor (ALF) per the following equation from RUS bulletins:

$$\text{Loss Factor} = 0.84(ALF)^2 + 0.16(ALF)$$

COST The calculated average cost per kilowatt-hour of energy based on the total annual power cost divided by the total kilowatt-hours (kwh's) purchased. Facility charges are also included where appropriate.

The POWER FACTOR, LOAD FACTOR, LOSS FACTOR and COST are listed at the bottom of each page printout.

APPENDIX # 1

BGE LOAD-FLOW ANALYSIS

2006 SYSTEM WITH 2006 LOADING

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 1	NICHOLASVILLE		1121			5932	6114	6179	176	9229				
SUB 1	CKT 104													
	NICH_104	NICHOLASVILLE	0.00	446 3-	SBS_99_UNK	5932	6114	6179	176	3310	148	0	0.00	0.00
	1515215	NICH_104	0.46	446 3-	4/0 ACSR	4616	4517	4173	175	3310	148	44	0.64	0.64
	1515276	1515215	0.50	1 1-	1/0 URD PRI AL	0	0	4057	455	9	1	1	0.00	0.64
	SW100965-A	1515276	0.50	0 1-	Open	0	0	4057	455	0	0	0	0.00	0.64
	1515216	1515215	0.51	443 3-	4/0 ACSR	4491	4378	4010	175	3278	147	43	0.08	0.72
	1515275	1515216	0.77	7 1-	1/0 URD PRI AL	0	0	3410	443	50	6	4	0.03	0.75
	SW100965-B	1515275	0.77	0 1-	Open	0	0	3410	443	0	0	0	0.00	0.75
	1515217	1515216	1.69	434 3-	4/0 ACSR	2823	2631	2169	171	3201	144	42	1.55	2.27
	1614296	1515217	2.33	291 3-	4/0 ACSR	2344	2159	1734	169	2595	117	35	0.67	2.94
	1614282	1614296	2.44	1 3-	350 MCM URD PRI	2316	2138	1715	413	619	28	9	0.02	2.96
	1614999	1614282	2.44	1 3-	Consumer	2316	2138	1715	413	618	28	0	0.00	2.96
	1614152	1614296	2.90	285 3-	4/0 ACSR	2031	1859	1469	167	1948	88	26	0.41	3.35
	1614153	1614152	3.49	248 3-	4/0 ACSR	1787	1627	1270	166	1769	82	24	0.48	3.84
	1614154	1614153	3.62	224 3-	4/0 ACSR	1740	1583	1232	165	1672	78	23	0.11	3.94
	1614155	1614154	3.69	224 3-	336.4 ACSR	1720	1564	1216	165	1671	78	15	0.04	3.98
	SW100770-A	1614155	3.69	224 3-	Closed	1720	1564	1216	165	1670	78	0	0.00	3.98
	SW100770-B	SW100770-A	3.69	224 3-	Closed	1720	1564	1216	165	1670	78	0	0.00	3.98
	1614156	SW100770-B	4.24	224 3-	336.4 ACSR	1585	1438	1107	164	1670	78	15	0.30	4.28
	OC1846818361	1614156	4.24	224 3-	OCR_100_UNK	1585	1438	1107	164	1667	78	78	0.00	4.28
	1614157	OC1846818361	4.26	224 3-	336.4 ACSR	1580	1434	1104	164	1667	78	15	0.01	4.29
	RG-984448214	1614157	4.26	224 3-	219	1580	1434	1104	164	1667	78	36	-4.29	0.00
	1614158	RG-984448214	4.29	224 3-	336.4 ACSR	1573	1427	1098	164	1667	75	14	0.02	0.02
	1614161	1614158	4.45	165 3-	336.4 ACSR	1538	1396	1071	163	1274	57	11	0.06	0.08
	1614148	1614161	4.64	24 1-	1/0 ACSR	0	0	1025	162	197	26	12	0.06	0.14
	1614281	1614148	4.66	0 1-	1/0 URD PRI AL	0	0	1022	368	0	0	0	0.00	0.14
	SW100968-A	1614281	4.66	0 1-	Open	0	0	1022	368	0	0	0	0.00	0.14
	1614164	1614161	4.51	62 3-	336.4 ACSR	1526	1385	1061	163	489	22	4	0.01	0.09
	1614165	1614164	4.61	35 3-	336.4 ACSR	1504	1365	1044	163	283	12	2	0.01	0.10
	1614253	1614165	4.77	21 1-	1/0 ACSR	0	0	1010	162	176	23	10	0.07	0.17
	1614254	1614253	4.78	14 1-	4 ACSR	0	0	1004	162	125	17	12	0.01	0.18
	1614255	1614254	4.84	6 1-	1/0 ACSR	0	0	993	162	43	5	3	0.00	0.18
	1614166	1614165	4.76	4 3-	336.4 ACSR	1475	1338	1022	163	28	1	0	0.00	0.10
	1614270	1614164	4.67	20 1-	1/0 ACSR	0	0	1024	163	144	19	9	0.04	0.13
	1614290	1614270	4.69	4 1-	1/0 URD PRI AL	0	0	1019	368	20	2	2	0.00	0.13
	SW100967-A	1614290	4.69	0 1-	Open	0	0	1019	368	0	0	0	0.00	0.13
	1614162	1614161	4.96	75 3-	336.4 ACSR	1435	1302	991	162	537	24	5	0.07	0.15
	1614163	1614162	5.05	4 3-	336.4 ACSR	1420	1288	979	162	30	1	0	0.00	0.15
	1614250	1614162	5.00	44 1-	1/0 ACSR	0	0	983	162	299	40	18	0.03	0.18
	OC100772	1614250	5.00	44 1-	REC_50_UNK	0	0	983	162	299	40	82	0.00	0.18
	1614251	OC100772	5.27	44 1-	1/0 ACSR	0	0	931	161	299	40	18	0.17	0.35
	1614252	1614251	5.58	18 1-	4 ACSR	0	0	853	158	107	14	10	0.11	0.45
	1614159	1614158	4.50	57 3-	1/0 ACSR	1499	1364	1046	163	370	16	7	0.05	0.07
	1614289	1614159	4.75	22 1-	1/0 URD PRI AL	0	0	997	362	120	16	10	0.06	0.13
	SW100967-B	1614289	4.75	0 1-	Open	0	0	997	362	0	0	0	0.00	0.13
	1614160	1614159	4.59	21 3-	1/0 ACSR	1470	1339	1025	162	130	5	3	0.01	0.08
	1614280	1614160	4.81	19 1-	1/0 URD PRI AL	0	0	984	360	120	16	10	0.05	0.13
	SW100968-B	1614280	4.81	0 1-	Open	0	0	984	360	0	0	0	0.00	0.13
	SW100730-B	1614153	3.49	0 3-	Open	1787	1627	1270	166	0	0	0	0.00	3.84
	CA100023	1614152	2.90	0 3-	Capacitor	2031	1859	1469	167	0	-14	0	0.00	3.35
	1514367	1515217	1.71	112 2-	4 ACSR	0	2592	2139	171	407	28	20	0.03	2.30

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
OC100767	1514367	1.71	112 2-	REC_70_UNK	0	2592	2139	171	407	28 40	0.00	2.30	0	
1514368	OC100767	2.34	112 2-	4 ACSR	0	1849	1500	164	407	28 20	0.53	2.83	155	
1514352	1514368	2.41	44 1-	4 ACSR	0	0	1450	164	165	22 16	0.07	2.89	9	
1514363	1514352	2.71	21 1-	4 ACSR	0	0	1257	161	100	13 10	0.10	2.99	6	
1514362	1514352	2.64	15 1-	4 ACSR	0	0	1299	161	45	6 4	0.03	2.93	0	
CKT 104 total losses:		\$8,851												
SUB 1, CKT 114														
NICH_114	NICHOLASVILLE	0.00	222 3-	SBS_99_UNK	5932	6114	6179	176	2659	117 0	0.00	0.00	0	
1515223	NICH_114	0.87	222 3-	4/0 ACSR	3823	3656	3202	174	2659	117 34	0.71	0.71	1690	
1515227	1515223	0.95	39 3-	1/0 ACSR	3674	3496	3044	173	291	13 6	0.02	0.73	4	
OC100842	1515227	0.95	39 3-	50-L	3674	3496	3044	173	291	13 27	0.00	0.73	0	
1515205	OC100842	1.59	39 3-	1/0 ACSR	2747	2540	2153	170	291	13 6	0.14	0.87	30	
SW1319271979-A	1515205	1.59	29 3-	Closed	2747	2540	2153	170	235	10 0	0.00	0.87	0	
SW1319271979-B	SW1319271979-A	1.59	29 3-	Closed	2747	2540	2153	170	235	10 0	0.00	0.87	0	
1515206	SW1319271979-B	1.73	29 3-	1/0 ACSR	2600	2405	2022	169	235	10 5	0.03	0.90	5	
SW-1984646295-A	1515206	1.73	28 3-	Closed	2600	2405	2022	169	229	10 0	0.00	0.90	0	
SW-1984646295-B	SW-1984646295-A	1.73	28 3-	Closed	2600	2405	2022	169	229	10 0	0.00	0.90	0	
1515203	SW-1984646295-B	2.92	28 3-	1/0 ACSR	1767	1650	1326	164	229	10 5	0.11	1.01	13	
SW100777-B	1515203	2.92	0 3-	Closed	1767	1650	1326	164	0	0 0	0.00	1.01	0	
SW100777-A	SW100777-B	2.92	0 3-	Closed	1767	1650	1326	164	0	0 0	0.00	1.01	0	
1515220	1515223	0.95	140 3-	4/0 ACSR	3691	3517	3054	173	2089	92 27	0.05	0.77	113	
1515221	1515220	1.04	140 3-	4/0 ACSR	3567	3388	2920	173	2088	93 27	0.07	0.83	114	
SW100789-A	1515221	1.04	140 3-	Closed	3567	3388	2920	173	2087	93 0	0.00	0.83	0	
SW100789-B	SW100789-A	1.04	140 3-	Closed	3567	3388	2920	173	2087	93 0	0.00	0.83	0	
1515218	SW100789-B	1.33	140 3-	4/0 ACSR	3197	3007	2534	172	2087	93 27	0.22	1.05	360	
1515224	1515218	1.49	33 3-	1/0 ACSR	2977	2780	2329	171	264	12 5	0.03	1.09	7	
OC100845	1515224	1.49	30 3-	70-L	2977	2780	2329	171	221	10 14	0.00	1.09	0	
1515225	OC100845	2.04	30 3-	1/0 ACSR	2407	2215	1831	169	221	10 4	0.10	1.18	17	
1515154	1515225	2.65	11 1-	4 ACSR	0	0	1339	163	102	14 10	0.20	1.38	12	
1515226	1515225	3.95	19 3-	1/0 ACSR	1413	1321	1038	160	119	5 2	0.09	1.28	6	
SW100786-A	1515226	3.95	0 3-	Open	1413	1321	1038	160	0	0 0	0.00	1.28	0	
1515219	1515218	1.58	85 3-	4/0 ACSR	2925	2733	2266	171	1628	72 21	0.15	1.20	201	
1514694	1515219	2.80	63 3-	4/0 ACSR	2078	1904	1508	168	1477	65 19	0.54	1.74	679	
SW100780-A	1514694	2.80	11 3-	Closed	2078	1904	1508	168	1176	52 0	0.00	1.74	0	
SW100780-B	SW100780-A	2.80	11 3-	Closed	2078	1904	1508	168	1176	52 0	0.00	1.74	0	
1514440	SW100780-B	3.08	11 3-	4/0 ACSR	1948	1779	1400	167	1176	52 15	0.10	1.84	116	
1514433	1514440	3.12	4 3-	4/0 ACSR	1934	1766	1388	167	1122	51 15	0.02	1.86	14	
1514441	1514433	3.13	0 3-	4/0 ACSR	1926	1759	1382	167	0	0 0	0.00	1.86	0	
SW133-B	1514441	3.13	0 3-	Open	1926	1759	1382	167	0	0 0	0.00	1.86	0	
1514437	1514433	3.14	3 3-	1/0 ACSR	1924	1756	1381	167	1122	51 22	0.02	1.87	15	
SW100783-A	1514437	3.14	3 3-	Closed	1924	1756	1381	167	1122	51 0	0.00	1.87	0	
SW100783-B	SW100783-A	3.14	3 3-	Closed	1924	1756	1381	167	1122	51 0	0.00	1.87	0	
1514426	SW100783-B	3.21	3 3-	1/0 ACSR	1883	1716	1350	166	1122	51 22	0.07	1.94	65	
1514427	1514426	3.42	1 3-	4 ACSR	1730	1590	1241	164	68	3 2	0.01	1.96	0	
1514624	1514426	3.24	1 3-	1/0 URD PRI AL	1870	1704	1342	393	1053	48 29	0.03	1.97	29	
1514998	1514624	3.24	1 3-	Consumer	1870	1704	1342	393	1053	48 0	0.00	1.97	0	
CA100029	1514440	3.08	0 3-	Capacitor	1948	1779	1400	167	0	-14 0	0.00	1.84	0	
1515261	1515219	1.59	8 1-	4 ACSR	0	0	2258	171	63	8 6	0.00	1.20	0	
OC100846	1515261	1.59	8 1-	REC_25_UNK	0	0	2258	171	63	8 35	0.00	1.20	0	
1515262	OC100846	1.95	8 1-	4 ACSR	0	0	1808	168	63	8 6	0.07	1.27	3	
CA100026	1515220	0.95	0 3-	Capacitor	3691	3517	3054	173	0	-14 0	0.00	0.77	0	

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 2	HOLLOWAY		1938		5720	5946	6027	176	9901					
SUB 2, CKT 104														
HLWY_104	HOLLOWAY	0.00	1055 3-	SBS_99_UNK	5720	5946	6027	176	4580	211	0	0.00	0.00	0
1514386	HLWY_104	1.51	1055 3-	336.4 ACSR	3264	3071	2616	173	4580	211	40	2.37	2.37	6508
1514416	1514386	2.31	5 3-	4/0 ACSR	2530	2342	1905	171	7	0	0	0.00	2.37	0
SW152-B	1514416	2.31	1 3-	Closed	2530	2342	1905	171	0	0	0	0.00	2.37	0
SW152-A	SW152-B	2.31	1 3-	Closed	2530	2342	1905	171	0	0	0	0.00	2.37	0
1514383	SW152-A	2.38	1 3-	4/0 ACSR	2483	2296	1863	171	0	0	0	0.00	2.37	0
1514385	1514383	2.47	1 3-	4/0 ACSR	2423	2237	1809	170	0	0	0	0.00	2.37	0
SW151-A	1514385	2.47	0 3-	Open	2423	2237	1809	170	0	0	0	0.00	2.37	0
1514384	1514383	2.38	0 3-	1/0 ACSR	2478	2291	1859	170	0	0	0	0.00	2.37	0
SW148-A	1514384	2.38	0 3-	Open	2478	2291	1859	170	0	0	0	0.00	2.37	0
1514387	1514386	1.93	1028 3-	336.4 ACSR	2910	2714	2256	172	4444	208	39	0.64	3.01	1756
SW132-B	1514387	1.93	1021 3-	Closed	2910	2714	2256	172	4404	206	0	0.00	3.01	0
SW132-A	SW132-B	1.93	1021 3-	Closed	2910	2714	2256	172	4404	206	0	0.00	3.01	0
1514388	SW132-A	2.75	1021 3-	336.4 ACSR	2400	2212	1778	171	4404	206	39	1.21	4.22	3312
1514389	1514388	2.79	985 3-	336.4 ACSR	2383	2195	1762	171	4219	199	38	0.05	4.27	133
OC-1817822462	1514389	2.79	985 3-	_DefaultBayEqui	2383	2195	1762	171	4218	199	0	0.00	4.27	0
1514390	OC-1817822462	2.91	985 3-	336.4 ACSR	2321	2135	1707	170	4218	199	38	0.18	4.45	483
1514391	1514390	2.94	982 3-	336.4 ACSR	2306	2120	1694	170	4212	199	38	0.05	4.50	122
OC-1627501197	1514391	2.94	982 3-	_DefaultBayEqui	2306	2120	1694	170	4211	199	0	0.00	4.50	0
1514374	OC-1627501197	3.08	982 3-	336.4 ACSR	2243	2060	1639	170	4211	199	38	0.19	4.69	525
1514415	1514374	3.09	0 3-	336.4 ACSR	2237	2054	1634	170	0	0	0	0.00	4.69	0
SW133-A	1514415	3.09	0 3-	Open	2237	2054	1634	170	0	0	0	0.00	4.69	0
1514375	1514374	3.12	980 3-	336.4 ACSR	2223	2040	1621	170	4205	199	38	0.07	4.75	176
RG3	1514375	3.12	978 3-	219	2223	2040	1621	170	4203	199	91	-4.75	0.00	0
1514376	RG3	3.28	978 3-	336.4 ACSR	2156	1976	1564	169	4203	191	36	0.21	0.21	553
1514377	1514376	3.57	971 3-	4/0 ACSR	2012	1839	1444	169	4165	190	56	0.58	0.79	1651
1514414	1514377	3.67	1 3-	336.4 ACSR	1977	1805	1415	168	3	0	0	0.00	0.79	0
SW136-A	1514414	3.67	0 3-	Open	1977	1805	1415	168	0	0	0	0.00	0.79	0
1514378	1514377	3.72	969 3-	4/0 ACSR	1945	1776	1390	168	4133	189	56	0.29	1.09	836
1514413	1514378	3.80	0 3-	4/0 ACSR	1912	1744	1363	168	0	0	0	0.00	1.09	0
SW139-A	1514413	3.80	0 3-	Open	1912	1744	1363	168	0	0	0	0.00	1.09	0
1514379	1514378	3.85	969 3-	4/0 ACSR	1890	1724	1345	168	4126	189	56	0.26	1.35	737
1514412	1514379	3.86	16 3-	1/0 ACSR	1885	1719	1342	168	160	7	3	0.00	1.35	0
1514605	1514412	3.88	13 1-	1/0 ACSR	0	0	1337	168	146	20	9	0.00	1.35	0
1514392	1514379	3.95	949 3-	4/0 ACSR	1853	1689	1315	167	3949	181	53	0.17	1.52	473
1514355	1514392	3.98	87 1-	1/0 ACSR	0	0	1304	167	372	51	22	0.04	1.55	10
OC195	1514355	3.98	87 1-	REC_35_UNK	0	0	1304	167	372	51	147	0.00	1.55	0
1514356	OC195	4.37	87 1-	1/0 ACSR	0	0	1178	165	372	51	22	0.23	1.78	43
1514398	1514392	4.02	812 3-	4/0 ACSR	1826	1663	1294	167	3308	152	45	0.11	1.63	244
SW142-B	1514398	4.02	781 3-	Closed	1826	1663	1294	167	3205	147	0	0.00	1.63	0
SW142-A	SW142-B	4.02	781 3-	Closed	1826	1663	1294	167	3205	147	0	0.00	1.63	0
1514399	SW142-A	4.05	781 3-	4/0 ACSR	1813	1650	1283	167	3205	147	43	0.06	1.68	124
1514353	1514399	4.09	87 1-	1/0 ACSR	0	0	1270	167	330	45	20	0.04	1.72	10
OC196	1514353	4.09	86 1-	REC_50_UNK	0	0	1270	167	324	44	90	0.00	1.72	0
1514354	OC196	4.35	86 1-	1/0 ACSR	0	0	1187	166	324	44	19	0.13	1.85	22
1514400	1514399	4.19	693 3-	4/0 ACSR	1765	1605	1245	167	2853	131	39	0.18	1.86	349
1514644	1514400	4.20	1 3-	1/0 URD PRI AL	1760	1601	1242	394	628	28	17	0.01	1.87	4
1514999	1514644	4.20	1 3-	Consumer	1760	1601	1242	394	628	28	0	0.00	1.87	0
1514401	1514400	4.19	684 3-	4/0 ACSR	1763	1604	1244	167	2176	100	30	0.00	1.86	7
1514603	1514401	4.22	52 1-	1/0 ACSR	0	0	1234	166	132	18	8	0.01	1.87	1

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
OC197	1514603	4.22	52 1-	REC_50_UNK	0	0	1234	166	132	18 36	0.00	1.87	0	
1514604	OC197	4.54	52 1-	1/0 ACSR	0	0	1139	165	132	18 8	0.07	1.94	5	
1514402	1514401	4.25	632 3-	4/0 ACSR	1743	1585	1228	166	2045	94 28	0.06	1.92	80	
1514350	1514402	4.28	30 1-	1/0 ACSR	0	0	1218	166	72	9 4	0.01	1.93	0	
OC198	1514350	4.28	29 1-	REC_50_UNK	0	0	1218	166	63	8 18	0.00	1.93	0	
1514351	OC198	4.54	29 1-	1/0 ACSR	0	0	1141	165	63	8 4	0.03	1.95	0	
1514403	1514402	4.30	597 3-	4/0 ACSR	1723	1567	1212	166	1949	90 26	0.05	1.97	71	
1514411	1514403	4.33	0 3-	4/0 ACSR	1716	1560	1207	166	0	0 0	0.00	1.97	0	
SW143-A	1514411	4.33	0 3-	Open	1716	1560	1207	166	0	0 0	0.00	1.97	0	
1514404	1514403	4.33	597 3-	4/0 ACSR	1716	1560	1206	166	1948	90 26	0.02	1.99	28	
1514407	1514404	4.48	387 3-	4/0 ACSR	1667	1513	1168	166	1339	61 18	0.09	2.09	87	
OC201	1514407	4.48	366 3-	REC_70_UNK	1667	1513	1168	166	1288	59 85	0.00	2.09	0	
1514408	OC201	4.57	366 3-	4/0 ACSR	1639	1488	1146	165	1288	59 18	0.05	2.14	48	
1514586	1514408	5.18	48 1-	1/0 ACSR	0	0	996	162	122	16 7	0.12	2.26	7	
1514409	1514408	4.96	308 3-	336.4 ACSR	1549	1403	1076	165	1144	52 10	0.13	2.27	83	
1514410	1514409	5.30	111 3-	336.4 ACSR	1478	1339	1020	164	461	21 4	0.04	2.31	10	
1514372	1514410	5.54	53 2-	1/0 ACSR	0	1275	971	163	256	17 8	0.07	2.37	12	
1514349	1514372	5.67	35 1-	1/0 ACSR	0	0	945	162	160	22 10	0.03	2.41	3	
1514371	1514409	5.11	97 2-	336.4 ACSR	0	1370	1051	164	365	25 5	0.02	2.29	3	
1514345	1514371	5.36	19 1-	1/0 ACSR	0	0	997	163	67	9 4	0.03	2.31	0	
1514405	1514404	4.46	210 3-	1/0 ACSR	1661	1507	1167	166	609	28 12	0.07	2.06	32	
1514602	1514405	4.67	38 1-	1/0 ACSR	0	0	1110	165	132	18 8	0.04	2.10	3	
1514406	1514405	4.64	165 3-	1/0 ACSR	1594	1450	1118	165	461	21 9	0.06	2.12	21	
1514585	1514406	4.92	53 1-	1/0 ACSR	0	0	1048	163	176	24 11	0.08	2.20	7	
1514369	1514406	4.69	88 2-	1/0 ACSR	0	1434	1105	164	193	13 6	0.01	2.13	2	
1514615	1514369	5.04	42 1-	1/0 URD PRI AL	0	0	1030	367	97	13 8	0.07	2.20	4	
SW218-B	1514615	5.04	0 1-	Open	0	0	1030	367	0	0 0	0.00	2.20	0	
1514370	1514369	4.71	46 2-	1/0 ACSR	0	1426	1099	164	97	6 3	0.00	2.13	0	
1514617	1514370	4.72	5 1-	1/0 URD PRI AL	0	0	1097	379	11	1 1	0.00	2.13	0	
SW218-A	1514617	4.72	0 1-	Open	0	0	1097	379	0	0 0	0.00	2.13	0	
1514393	1514392	3.99	34 3-	4/0 ACSR	1837	1674	1303	167	223	10 3	0.00	1.52	0	
1514600	1514393	4.03	22 1-	1/0 ACSR	0	0	1290	167	142	19 8	0.02	1.54	2	
OC194	1514600	4.03	22 1-	REC_35_UNK	0	0	1290	167	142	19 56	0.00	1.54	0	
1514601	OC194	4.29	22 1-	1/0 ACSR	0	0	1204	166	142	19 8	0.06	1.60	4	
1514394	1514393	4.04	12 3-	336.4 ACSR	1821	1658	1288	167	81	3 1	0.00	1.52	0	
1514343	1514394	4.09	9 1-	1/0 ACSR	0	0	1271	167	53	7 3	0.01	1.53	0	
OC1985613253	1514343	4.09	9 1-	35-L	0	0	1271	167	53	7 21	0.00	1.53	0	
1514344	OC1985613253	4.35	9 1-	1/0 ACSR	0	0	1188	166	53	7 3	0.02	1.55	0	
1514625	1514390	3.56	2 1-	1/0 URD PRI AL	0	0	1421	392	0	0 0	0.00	4.45	0	
1514348	1514388	2.85	2 1-	4 ACSR	0	0	1691	169	18	2 2	0.01	4.23	0	
CKT 104 total losses:		\$18,591												
SUB	2, CKT 114													
HLWY_114	HOLLOWAY	0.00	309 3-	SBS_99_UNK	5720	5946	6027	176	1713	78 0	0.00	0.00	0	
1514381	HLWY_114	0.26	309 3-	336.4 ACSR	5079	5062	4989	176	1713	78 15	0.15	0.15	155	
1514382	1514381	2.12	309 3-	4/0 ACSR	2484	2303	1883	170	1712	78 23	1.47	1.62	1671	
1513079	1514382	2.15	286 3-	4/0 ACSR	2459	2278	1860	170	1575	72 21	0.03	1.65	30	
OC865071513	1513079	2.15	286 3-	_DefaultBayEqui	2459	2278	1860	170	1575	72 0	0.00	1.65	0	
1513080	OC865071513	3.53	286 3-	4/0 ACSR	1771	1615	1268	166	1575	72 21	1.04	2.68	1128	
SW100979-B	1513080	3.53	280 3-	Closed	1771	1615	1268	166	1550	72 0	0.00	2.68	0	
SW100979-A	SW100979-B	3.53	280 3-	Closed	1771	1615	1268	166	1550	72 0	0.00	2.68	0	
1513081	SW100979-A	3.57	280 3-	4/0 ACSR	1757	1601	1257	166	1550	72 21	0.03	2.71	31	

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1513083	1513081	3.60	279 3-	4/0 ACSR	1747	1592	1248	165	1543	71	21	0.02	2.73	24
SW100985-B	1513083	3.60	279 3-	Closed	1747	1592	1248	165	1542	71	0	0.00	2.73	0
SW100985-A	SW100985-B	3.60	279 3-	Closed	1747	1592	1248	165	1542	71	0	0.00	2.73	0
1513084	SW100985-A	3.81	279 3-	4/0 ACSR	1677	1526	1192	165	1542	71	21	0.15	2.89	165
1513095	1513084	3.99	108 3-	1/0 ACSR	1606	1461	1139	164	675	31	14	0.10	2.99	54
OC101042	1513095	3.99	106 3-	REC_70_UNK	1606	1461	1139	164	655	30	44	0.00	2.99	0
1513096	OC101042	4.32	106 3-	1/0 ACSR	1487	1359	1053	162	655	30	13	0.18	3.16	95
1513119	1513096	4.33	3 1-	6 ACWC	0	0	1051	162	8	1	1	0.00	3.16	0
OC101043	1513119	4.33	3 1-	REC_25_UNK	0	0	1051	162	8	1	5	0.00	3.16	0
1513122	OC101043	4.80	3 1-	6 ACWC	0	0	907	158	8	1	1	0.01	3.18	0
1513123	1513122	4.93	0 1-	4 ACSR	0	0	873	157	0	0	0	0.00	3.18	0
1513097	1513096	5.35	101 3-	1/0 ACSR	1207	1113	852	158	633	29	13	0.31	3.48	116
1513098	1513097	5.85	19 3-	1/0 ACSR	1104	1021	779	155	88	4	2	0.02	3.49	0
SW100988-B	1513098	5.85	0 3-	Open	1104	1021	779	155	0	0	0	0.00	3.49	0
1513132	1513097	5.89	1 1-	1/0 URD PRI AL	0	0	778	325	11	1	1	0.01	3.49	0
1513085	1513084	4.81	170 3-	1/0 ACSR	1339	1229	946	160	861	40	17	0.69	3.57	468
OC101049	1513085	4.81	150 3-	REC_70_UNK	1339	1229	946	160	783	36	52	0.00	3.57	0
1513090	OC101049	4.91	150 3-	1/0 ACSR	1314	1207	929	160	783	36	16	0.06	3.64	39
1513093	1513090	6.16	87 3-	1/0 ACSR	1048	971	740	154	438	20	9	0.42	4.05	141
1513127	1513093	6.18	30 1-	4 ACSR	0	0	737	154	141	19	14	0.01	4.07	2
OC101046	1513127	6.18	29 1-	REC_50_UNK	0	0	737	154	134	18	38	0.00	4.07	0
1513128	OC101046	6.98	29 1-	4 ACSR	0	0	615	147	134	18	14	0.50	4.56	48
1513129	1513128	7.09	14 1-	2 ACSR	0	0	603	146	58	8	5	0.03	4.59	1
SW992509014-B	1513129	7.09	13 1-	Closed	0	0	603	146	58	8	0	0.00	4.59	0
SW992509014-A	SW992509014-B	7.09	13 1-	Closed	0	0	603	146	58	8	0	0.00	4.59	0
1513130	SW992509014-A	7.13	13 1-	2 ACSR	0	0	600	146	58	8	5	0.01	4.60	0
1513094	1513093	6.69	41 3-	1/0 ACSR	965	897	681	152	220	10	4	0.07	4.12	10
1513115	1513094	6.69	1 1-	4 ACSR	0	0	680	152	0	0	0	0.00	4.12	0
1513116	1513094	6.75	16 1-	2 ACSR	0	0	674	151	95	13	7	0.02	4.15	2
1513113	1513116	6.76	15 1-	4 ACSR	0	0	672	151	88	12	9	0.01	4.15	0
1513114	1513113	7.12	13 1-	2 ACSR	0	0	631	149	74	10	6	0.06	4.21	3
SW100989-B	1513114	7.12	0 1-	Open	0	0	631	149	0	0	0	0.00	4.21	0
1513091	1513090	5.02	63 3-	1/0 ACSR	1284	1181	907	159	345	16	7	0.03	3.67	9
1513068	1513091	5.10	61 1-	1/0 ACSR	0	0	894	159	343	48	21	0.08	3.75	22
OC101044	1513068	5.10	60 1-	REC_50_UNK	0	0	894	159	336	47	95	0.00	3.75	0
1513069	OC101044	6.85	60 1-	1/0 ACSR	0	0	665	151	336	47	21	1.35	5.10	284
1513073	1513069	7.47	14 1-	2 ACSR	0	0	599	147	76	10	6	0.11	5.21	5
1513070	1513069	6.89	10 1-	1/0 ACSR	0	0	661	151	65	9	4	0.01	5.11	0
OC101045	1513070	6.89	10 1-	REC_25_UNK	0	0	661	151	65	9	37	0.00	5.11	0
1513071	OC101045	7.19	10 1-	1/0 ACSR	0	0	633	150	65	9	4	0.04	5.15	2
1513072	1513071	7.51	3 1-	4 ACSR	0	0	593	147	21	3	2	0.02	5.17	0
1513092	1513091	5.29	1 3-	1/0 ACSR	1220	1124	861	158	0	0	0	0.00	3.67	0
SW100140-A	1513092	5.29	0 3-	Open	1220	1124	861	158	0	0	0	0.00	3.67	0
1513082	1513081	3.62	0 3-	4/0 ACSR	1741	1586	1243	165	0	0	0	0.00	2.71	0
SW100982-A	1513082	3.62	0 3-	Open	1741	1586	1243	165	0	0	0	0.00	2.71	0
1513126	1514382	2.17	1 1-	2 ACSR	0	0	1837	170	0	0	0	0.00	1.62	0

CKT 114 total losses: \$4,505

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS	
SUB	2, CKT 124														
	HLWY_124	HOLLOWAY	0.00	301 3-	SBS_99_UNK	5720	5946	6027	176	1523	69	0	0.00	0.00	0
	1514417	HLWY_124	0.67	301 3-	336.4 ACSR	4310	4181	3846	175	1523	69	13	0.33	0.33	309
	1514418	1514417	0.74	295 3-	4/0 ACSR	4170	4030	3667	175	1490	68	20	0.05	0.38	52
	1514395	1514418	0.82	293 3-	336.4 ACSR	4048	3898	3515	174	1474	67	13	0.04	0.42	36
	1514346	1514395	0.90	1 1-	4 ACSR	0	0	3289	174	0	0	0	0.00	0.42	0
	1514616	1514346	1.04	0 1-	1/0 URD PRI AL	0	0	3056	441	0	0	0	0.00	0.42	0
	OC-597387231	1514616	1.04	0 1-	_DefaultBayEqui	0	0	3056	441	0	0	0	0.00	0.42	0
	1514618	OC-597387231	1.32	0 1-	1/0 URD PRI AL	0	0	2621	427	0	0	0	0.00	0.42	0
	SW-1898968368-A	1514618	1.32	0 1-	Open	0	0	2621	427	0	0	0	0.00	0.42	0
	1414496	1514395	1.97	291 3-	336.4 ACSR	2873	2677	2221	172	1467	67	13	0.54	0.96	482
	1413064	1414496	2.10	282 3-	4/0 ACSR	2755	2561	2110	172	1394	64	19	0.09	1.05	84
	SW101056-B	1413064	2.10	280 3-	Closed	2755	2561	2110	172	1388	63	0	0.00	1.05	0
	SW101056-A	SW101056-B	2.10	280 3-	Closed	2755	2561	2110	172	1388	63	0	0.00	1.05	0
	1413065	SW101056-A	2.35	280 3-	4/0 ACSR	2556	2366	1925	171	1388	63	19	0.16	1.21	156
	OC101105	1413065	2.35	275 3-	REC_70_UNK	2556	2366	1925	171	1350	62	89	0.00	1.21	0
	1513135	OC101105	3.00	275 3-	4/0 ACSR	2152	1975	1570	169	1350	62	18	0.39	1.60	345
	1513086	1513135	3.04	234 3-	2 ACSR	2120	1942	1545	169	1152	53	30	0.06	1.66	60
	SW101053-B	1513086	3.04	234 3-	Closed	2120	1942	1545	169	1152	53	0	0.00	1.66	0
	SW101053-A	SW101053-B	3.04	234 3-	Closed	2120	1942	1545	169	1152	53	0	0.00	1.66	0
	1513087	SW101053-A	4.33	234 3-	1/0 ACSR	1511	1394	1083	162	1152	53	23	1.05	2.71	882
	1413067	1513087	5.32	104 3-	1/0 ACSR	1231	1143	879	158	595	27	12	0.45	3.15	205
	1513088	1413067	5.85	83 3-	1/0 ACSR	1117	1040	796	155	466	21	9	0.20	3.35	76
	1513089	1513088	5.93	0 3-	1/0 ACSR	1103	1027	786	155	0	0	0	0.00	3.35	0
	SW100988-A	1513089	5.93	0 3-	Open	1103	1027	786	155	0	0	0	0.00	3.35	0
	1513075	1513088	5.88	43 1-	6 ACWC	0	0	792	155	256	35	26	0.04	3.39	8
	OC101101	1513075	5.88	43 1-	REC_35_UNK	0	0	792	155	256	35	103	0.00	3.39	0
	1513076	OC101101	6.23	43 1-	6 ACWC	0	0	725	152	256	35	26	0.48	3.87	96
	1513067	1513076	7.15	28 1-	4 ACSR	0	0	589	144	171	24	17	0.51	4.38	52
	1513124	1513088	5.86	34 1-	4 ACSR	0	0	795	155	188	26	19	0.01	3.36	0
	OC101100	1513124	5.86	34 1-	REC_50_UNK	0	0	795	155	188	26	53	0.00	3.36	0
	1513120	OC101100	6.56	34 1-	4 ACSR	0	0	669	149	188	26	19	0.62	3.98	84
	1513117	1513120	6.74	13 1-	4 ACSR	0	0	642	148	56	7	6	0.03	4.02	0
	1513118	1513117	6.75	0 1-	2 ACSR	0	0	641	148	0	0	0	0.00	4.02	0
	SW100989-A	1513118	6.75	0 1-	Open	0	0	641	148	0	0	0	0.00	4.02	0
	1513121	1513120	6.92	4 1-	4 ACSR	0	0	617	146	30	4	3	0.04	4.02	0
	1513074	1413067	5.75	7 1-	4 ACSR	0	0	780	154	38	5	4	0.05	3.20	1
	1413092	1513087	4.40	52 1-	4 ACSR	0	0	1058	162	229	31	23	0.10	2.81	20
	OC101102	1413092	4.40	52 1-	REC_35_UNK	0	0	1058	162	228	31	91	0.00	2.81	0
	1413093	OC101102	4.77	52 1-	4 ACSR	0	0	940	158	228	31	23	0.53	3.34	105
	1413096	1413093	4.89	2 1-	6 ACWC	0	0	906	157	2	0	0	0.00	3.34	0
	1413116	1413093	4.95	49 1-	1/0 URD PRI AL	0	0	908	342	220	30	18	0.16	3.50	31
	1413094	1413116	5.20	47 1-	1/0 ACSR	0	0	863	156	196	27	12	0.15	3.64	21
	1413095	1413094	6.04	37 1-	4 ACSR	0	0	691	149	157	21	16	0.42	4.07	39
	SW101050-A	1413095	6.04	0 1-	Closed	0	0	691	149	0	0	0	0.00	4.07	0
	SW101050-B	SW101050-A	6.04	0 1-	Closed	0	0	691	149	0	0	0	0.00	4.07	0
	1413063	1414496	2.01	0 3-	336.4 ACSR	2838	2642	2187	172	0	0	0	0.00	0.96	0
	SW101059-A	1413063	2.01	0 3-	Open	2838	2642	2187	172	0	0	0	0.00	0.96	0

CKT 124 total losses: \$3,144

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LIG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS	
SUB	2, CKT 134														
	HLWY_134	HOLLOWAY	0.00	273 3-	SBS_99_UNK	5720	5946	6027	176	2085	92	0	0.00	0.00	0
	1514397	HLWY_134	0.85	273 3-	336.4 ACSR	4040	3887	3502	175	2085	92	17	0.29	0.29	637
	1414495	1514397	1.43	162 3-	336.4 ACSR	3340	3150	2698	173	1549	68	13	0.21	0.49	269
	1414251	1414495	1.83	147 3-	336.4 ACSR	2987	2791	2333	173	1524	67	13	0.13	0.63	175
	1414255	1414251	1.96	142 3-	336.4 ACSR	2893	2697	2240	172	1501	68	13	0.06	0.69	56
	1414354	1414255	2.62	7 1-	4 ACSR	0	0	1539	165	21	2	2	0.04	0.73	0
	1414256	1414255	2.05	133 3-	336.4 ACSR	2827	2631	2175	172	1480	67	13	0.04	0.73	41
	1414254	1414256	3.27	11 3-	336.4 ACSR	2159	1979	1567	170	44	2	0	0.01	0.74	0
SW-168013	1353-A	1414254	3.27	0 3-	Open	2159	1979	1567	170	0	0	0	0.00	0.74	0
	1414257	1414256	2.42	122 3-	336.4 ACSR	2586	2393	1947	171	1435	65	12	0.17	0.90	151
	1414417	1414257	2.42	2 3-	500 MCM URD PRI	2584	2392	1946	429	651	29	8	0.00	0.90	0
	SW120-B	1414417	2.42	2 3-	Closed	2584	2392	1946	429	651	29	0	0.00	0.90	0
	SW120-A	SW120-B	2.42	2 3-	Closed	2584	2392	1946	429	651	29	0	0.00	0.90	0
	1414418	SW120-A	2.43	2 3-	500 MCM URD PRI	2582	2389	1945	429	651	29	8	0.00	0.90	0
	SW6-B	1414418	2.43	2 3-	Closed	2582	2389	1945	429	651	29	0	0.00	0.90	0
	SW6-A	SW6-B	2.43	2 3-	Closed	2582	2389	1945	429	651	29	0	0.00	0.90	0
	1414397	SW6-A	2.46	2 3-	500 MCM URD PRI	2575	2383	1941	428	651	29	8	0.00	0.91	3
	1414400	1414397	2.47	2 3-	350 MCM URD PRI	2571	2380	1939	428	651	29	9	0.00	0.91	0
	1414401	1414400	2.48	1 3-	350 MCM URD PRI	2568	2378	1936	428	0	0	0	0.00	0.91	0
	1414402	1414401	2.48	1 3-	1/0 URD PRI AL	2568	2377	1936	428	0	0	0	0.00	0.91	0
	SW211-A	1414402	2.48	0 3-	Open	2568	2377	1936	428	0	0	0	0.00	0.91	0
	1414999	1414400	2.47	1 3-	Consumer	2571	2380	1939	428	651	29	0	0.00	0.91	0
	1414398	1414397	2.83	0 3-	1/0 URD PRI AL	2331	2159	1775	414	0	0	0	0.00	0.91	0
	SW211-B	1414398	2.83	0 3-	Open	2331	2159	1775	414	0	0	0	0.00	0.91	0
	1414258	1414257	2.46	116 3-	336.4 ACSR	2563	2370	1925	171	743	33	6	0.01	0.91	4
	1414252	1414258	2.69	55 3-	336.4 ACSR	2433	2244	1808	171	271	12	2	0.02	0.93	3
	1414253	1414252	2.74	0 3-	336.4 ACSR	2405	2216	1782	171	0	0	0	0.00	0.93	0
	SW7-A	1414253	2.74	0 3-	Open	2405	2216	1782	171	0	0	0	0.00	0.93	0
	1414416	1414252	3.07	55 3-	1/0 URD PRI AL	2209	2037	1660	410	271	12	7	0.10	1.02	23
	1414483	1414416	3.55	27 1-	1/0 URD PRI AL	0	0	1438	389	142	19	11	0.15	1.17	12
	1414399	1414416	3.47	19 1-	1/0 URD PRI AL	0	0	1473	393	81	11	7	0.07	1.09	3
	1414442	1414416	3.61	8 1-	1/0 URD PRI AL	0	0	1411	387	35	4	3	0.04	1.07	0
	1414259	1414258	2.53	61 3-	336.4 ACSR	2518	2327	1885	171	472	21	4	0.01	0.92	3
	1414409	1414259	2.97	10 1-	1/0 URD PRI AL	0	0	1643	407	54	7	4	0.05	0.97	2
	SW213-A	1414409	2.97	0 1-	Open	0	0	1643	407	0	0	0	0.00	0.97	0
	1414260	1414259	2.61	51 3-	336.4 ACSR	2478	2287	1848	171	418	19	4	0.01	0.93	3
	1414404	1414260	3.09	23 1-	1/0 URD PRI AL	0	0	1595	404	194	26	16	0.20	1.13	23
	SW212-A	1414404	3.09	0 1-	Open	0	0	1595	404	0	0	0	0.00	1.13	0
	1414249	1414260	2.73	28 3-	336.4 ACSR	2414	2225	1790	171	224	10	2	0.01	0.94	0
	1414482	1414249	3.55	24 1-	1/0 URD PRI AL	0	0	1401	387	206	28	17	0.37	1.31	45
	1414362	1414255	1.96	2 2-	4 ACSR	0	2687	2232	172	0	0	0	0.00	0.69	0
	OC38	1414362	1.96	2 2-	_DefaultBayEqui	0	2687	2232	172	0	0	0	0.00	0.69	0
	1414363	OC38	2.08	2 2-	4 ACSR	0	2500	2084	171	0	0	0	0.00	0.69	0
	CA2	1414251	1.83	0 3-	Capacitor	2987	2791	2333	173	0	-14	0	0.00	0.63	0
	1414250	1414495	1.44	14 3-	1/0 ACSR	3327	3136	2684	173	22	1	0	0.00	0.49	0
	1414415	1414250	1.66	14 3-	1/0 URD PRI AL	3101	2929	2509	436	22	1	1	0.00	0.50	0
	1414481	1414415	2.34	3 1-	1/0 URD PRI AL	0	0	1880	404	15	2	1	0.02	0.52	0
	SW1481789	1414481	2.34	0 1-	Open	0	0	1880	404	0	0	0	0.00	0.52	0
	1414413	1414415	1.93	11 2-	1/0 URD PRI AL	0	2685	2277	424	7	0	0	0.00	0.50	0
	1414403	1414413	2.35	3 1-	1/0 URD PRI AL	0	0	1908	405	2	0	0	0.00	0.50	0
SW-1898968	368-B	1414403	2.35	0 1-	Open	0	0	1908	405	0	0	0	0.00	0.50	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES CONS	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1514419	1514397	0.98	69 3-	4/0 ACSR	3814	3648	3233	174	340	18	5	0.00	0.28	7
OC123	1514419	0.98	68 3-	70-L	3814	3648	3233	174	340	18	26	0.00	0.28	0
1514420	OC123	1.01	68 3-	4/0 ACSR	3765	3597	3177	174	340	18	5	0.00	0.28	2
1414494	1514420	2.01	13 1-	4 ACSR	0	0	1574	164	35	4	3	0.11	0.39	2
1514423	1514420	1.57	55 3-	4/0 ACSR	3056	2868	2415	172	305	17	5	-0.02	0.26	26
1514587	1514423	2.00	10 2-	4 ACSR	0	2217	1839	168	10	0	1	0.01	0.27	0
1514606	1514587	2.39	5 1-	4 ACSR	0	0	1481	164	1	0	0	0.00	0.27	0
1514424	1514423	1.63	44 3-	4 ACSR	2956	2758	2329	172	286	17	12	0.02	0.28	13
1514421	1514424	1.75	43 3-	4/0 ACSR	2843	2646	2218	171	278	16	5	-0.01	0.27	5
1514422	1514421	2.10	40 3-	4/0 ACSR	2550	2357	1941	170	270	12	4	0.03	0.30	4
1514380	1514422	3.23	12 3-	336.4 ACSR	2025	1849	1470	168	76	3	1	0.01	0.31	0
CA1	1514421	1.75	0 3-	Capacitor	2843	2646	2218	171	0	-14	0	0.00	0.27	0
CKT 134 total losses:	\$1,512													
SUB 2 total losses:	\$27,752													

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 3, WEST NICHOLASVI			3175		7878	8223	8345	176	20017					
SUB 3, CKT 104														
WNIC_104	WEST NICHOLASVI	0.00	55 3-	SBS_99_UNK	7878	8223	8345	176	5627	260	0	0.00	0.00	0
1514667	WNIC_104	0.01	55 3-	350 MCM URD PRI	7861	8187	8325	469	5627	260	82	0.01	0.01	58
1514466	1514667	0.01	55 3-	336.4 ACSR	7832	8139	8274	176	5627	260	49	0.01	0.02	37
SW100005-B	1514466	0.01	55 3-	Closed	7832	8139	8274	176	5626	260	0	0.00	0.02	0
SW100005-A	SW100005-B	0.01	55 3-	Closed	7832	8139	8274	176	5626	260	0	0.00	0.02	0
1514485	SW100005-A	0.32	55 3-	336.4 ACSR	6486	6400	6160	176	5626	260	49	0.62	0.64	2051
1514995	1514485	0.32	1 3-	Consumer	6486	6400	6160	176	1280	59	0	0.00	0.64	0
1514486	1514485	0.65	53 3-	336.4 ACSR	5485	5284	4846	175	4327	201	38	0.48	1.12	1225
1514467	1514486	0.66	0 3-	336.4 ACSR	5451	5247	4802	175	0	0	0	0.00	1.12	0
SW100422-B	1514467	0.66	0 3-	Open	5451	5247	4802	175	0	0	0	0.00	1.12	0
1514461	1514486	1.04	5 3-	336.4 ACSR	4606	4356	3837	174	3833	178	34	0.53	1.66	1224
SW100002-B	1514461	1.04	1 3-	Closed	4606	4356	3837	174	3807	178	0	0.00	1.66	0
SW100002-A	SW100002-B	1.04	1 3-	Closed	4606	4356	3837	174	3807	178	0	0.00	1.66	0
1514462	SW100002-A	1.07	1 3-	336.4 ACSR	4550	4298	3776	174	3807	178	34	0.04	1.70	94
1514669	1514462	1.12	1 3-	1/0 URD PRI AL	4463	4220	3706	452	3806	178	105	0.16	1.86	566
1514996	1514669	1.12	1 3-	Consumer	4463	4220	3706	452	3801	178	0	0.00	1.86	0
1514487	1514486	0.75	7 3-	1/0 ACSR	5097	4867	4395	175	277	12	6	0.02	1.15	5
1514488	1514487	0.82	2 3-	336.4 ACSR	4940	4702	4216	174	246	11	2	0.01	1.15	0
1514460	1514488	0.87	1 3-	1/0 ACSR	4784	4537	4046	174	241	11	5	0.01	1.16	2
1514668	1514460	0.89	1 3-	1/0 URD PRI AL	4756	4512	4022	453	241	11	7	0.00	1.17	0
1514997	1514668	0.89	1 3-	Consumer	4756	4512	4022	453	241	11	0	0.00	1.17	0
CKT 104 total losses:		\$5,262												
SUB 3, CKT 114														
WNIC_114	WEST NICHOLASVI	0.00	546 3-	SBS_99_UNK	7878	8223	8345	176	2264	104	0	0.00	0.00	0
1514501	WNIC_114	0.58	546 3-	336.4 ACSR	5662	5463	4961	175	2264	104	20	0.43	0.43	556
1514508	1514501	0.59	1 3-	1/0 ACSR	5598	5393	4886	175	497	23	10	0.01	0.44	3
1514990	1514508	0.59	1 3-	Consumer	5598	5393	4886	175	496	23	0	0.00	0.44	0
1514502	1514501	0.81	472 3-	336.4 ACSR	5074	4833	4252	175	1492	69	13	0.12	0.55	109
1514537	1514502	1.01	207 3-	336.4 ACSR	4654	4395	3782	174	515	23	5	0.03	0.59	10
1514443	1514537	1.10	8 3-	336.4 ACSR	4501	4237	3618	174	13	0	0	0.00	0.59	0
1514538	1514537	1.05	198 3-	336.4 ACSR	4584	4323	3707	174	459	21	4	0.01	0.59	2
OC100419	1514538	1.05	198 3-	REC_70_UNK	4584	4323	3707	174	459	21	30	0.00	0.59	0
1514539	OC100419	1.47	198 3-	336.4 ACSR	3909	3640	3017	173	459	21	4	0.06	0.65	15
SW100310-B	1514539	1.47	131 3-	Closed	3909	3640	3017	173	332	15	0	0.00	0.65	0
SW100310-A	SW100310-B	1.47	131 3-	Closed	3909	3640	3017	173	332	15	0	0.00	0.65	0
1514442	SW100310-A	1.78	131 3-	336.4 ACSR	3534	3269	2661	173	332	15	3	0.02	0.67	2
1514505	1514502	0.90	258 3-	4/0 ACSR	4831	4582	3981	174	966	44	13	0.04	0.60	28
OC100416	1514505	0.90	257 3-	REC_100_UNK	4831	4582	3981	174	965	44	45	0.00	0.60	0
1514506	OC100416	1.00	257 3-	4/0 ACSR	4584	4328	3715	174	965	44	13	0.05	0.64	31
1514507	1514506	1.05	210 3-	4/0 ACSR	4484	4226	3610	174	736	34	10	0.02	0.66	8
1514531	1514507	1.10	180 3-	4/0 ACSR	4367	4108	3489	174	613	28	8	0.02	0.68	7
1514516	1514531	1.22	171 3-	4/0 ACSR	4129	3868	3249	173	575	26	8	0.03	0.71	13
1514536	1514516	1.47	71 3-	1/0 ACSR	3608	3338	2777	172	196	9	4	0.02	0.73	2
1514517	1514516	1.25	94 3-	4/0 ACSR	4067	3805	3187	173	362	16	5	0.01	0.72	1
SW100307-B	1514517	1.25	94 3-	Closed	4067	3805	3187	173	362	16	0	0.00	0.72	0
SW100307-A	SW100307-B	1.25	94 3-	Closed	4067	3805	3187	173	362	16	0	0.00	0.72	0
1514534	SW100307-A	1.44	94 3-	4/0 ACSR	3740	3480	2872	173	362	16	5	0.03	0.75	6
1514535	1514534	1.55	56 3-	1/0 ACSR	3552	3290	2708	172	226	10	5	0.01	0.76	2
1514358	1514535	1.76	26 1-	1/0 ACSR	0	0	2411	171	93	12	6	0.03	0.79	2

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1514533	1514531	1.66	8 3-	4/0 ACSR	3424	3169	2579	172	23	1	0	0.00	0.68	0
SW151-B	1514533	1.66	0 3-	Open	3424	3169	2579	172	0	0	0	0.00	0.68	0
1514532	1514531	1.13	0 3-	4/0 ACSR	4302	4042	3423	174	0	0	0	0.00	0.68	0
SW100250-A	1514532	1.13	0 3-	Open	4302	4042	3423	174	0	0	0	0.00	0.68	0
1514643	1514507	1.18	16 1-	1/0 URD PRI AL	0	0	3338	444	60	8	5	0.02	0.68	0
1514681	1514643	1.27	4 1-	1/0 URD PRI AL	0	0	3159	439	11	1	1	0.00	0.68	0
SW-406862464-A	1514681	1.27	0 1-	Open	0	0	3159	439	0	0	0	0.00	0.68	0
1514680	1514643	1.19	0 1-	1/0 URD PRI AL	0	0	3327	444	0	0	0	0.00	0.68	0
SW100446-A	1514680	1.19	0 1-	Open	0	0	3327	444	0	0	0	0.00	0.68	0
1514642	1514507	1.29	14 1-	1/0 URD PRI AL	0	0	3133	439	62	8	5	0.03	0.69	1
SW100446-B	1514642	1.29	0 1-	Open	0	0	3133	439	0	0	0	0.00	0.69	0
1514650	1514506	1.87	45 1-	1/0 URD PRI AL	0	0	2268	410	204	28	17	0.39	1.03	47
SW443902270-A	1514650	1.87	0 1-	Closed	0	0	2268	410	0	0	0	0.00	1.03	0
SW443902270-B	SW443902270-A	1.87	0 1-	Closed	0	0	2268	410	0	0	0	0.00	1.03	0
1514504	1514502	0.96	7 3-	4/0 ACSR	4682	4429	3820	174	10	0	0	0.00	0.55	0
SW100413-A	1514504	0.96	0 3-	Open	4682	4429	3820	174	0	0	0	0.00	0.55	0
CKT 114 total losses:		\$845												
SUB 3, CKT 124														
WNIC_124	WEST NICHOLASVI	0.00	409 3-	SBS_99_UNK	7878	8223	8345	176	2029	91	0	0.00	0.00	0
1514459	WNIC_124	0.99	409 3-	336.4 ACSR	4706	4448	3838	174	2029	91	17	0.56	0.56	751
1614300	1514459	1.48	397 3-	336.4 ACSR	3895	3626	3003	173	1899	85	16	0.27	0.83	353
SW100024-B	1614300	1.48	396 3-	Closed	3895	3626	3003	173	1895	85	0	0.00	0.83	0
SW100024-A	SW100024-B	1.48	396 3-	Closed	3895	3626	3003	173	1895	85	0	0.00	0.83	0
1614220	SW100024-A	2.55	396 3-	336.4 ACSR	2837	2595	2044	171	1895	85	16	0.57	1.40	756
1614221	1614220	2.74	396 3-	4/0 ACSR	2681	2447	1916	171	1888	85	25	0.14	1.55	205
SW100037-B	1614221	2.74	396 3-	Closed	2681	2447	1916	171	1887	85	0	0.00	1.55	0
SW100037-A	SW100037-B	2.74	396 3-	Closed	2681	2447	1916	171	1887	85	0	0.00	1.55	0
1614222	SW100037-A	3.87	396 3-	4/0 ACSR	1992	1806	1376	167	1887	85	25	0.87	2.42	1228
1614223	1614222	3.92	386 3-	4/0 ACSR	1970	1786	1359	167	1792	84	25	0.05	2.46	55
1614219	1614223	4.14	4 3-	1/0 ACSR	1850	1682	1275	166	344	16	7	0.07	2.53	18
1614283	1614219	4.19	1 3-	1/0 URD PRI AL	1830	1666	1265	389	341	11	9	0.02	2.55	5
1614994	1614283	4.19	1 3-	Consumer	1830	1666	1265	389	341	16	0	0.00	2.55	0
1614224	1614223	4.66	381 3-	4/0 ACSR	1687	1530	1148	165	1443	68	20	0.54	3.00	517
1614225	1614224	5.05	361 3-	4/0 ACSR	1566	1421	1060	163	1376	65	19	0.28	3.29	262
SW100030-B	1614225	5.05	358 3-	Closed	1566	1421	1060	163	1367	64	0	0.00	3.29	0
SW100030-A	SW100030-B	5.05	358 3-	Closed	1566	1421	1060	163	1367	64	0	0.00	3.29	0
1614184	SW100030-A	5.11	358 3-	4/0 ACSR	1549	1406	1048	163	1367	64	19	0.04	3.33	39
1614227	1614184	5.37	203 3-	1/0 ACSR	1462	1331	990	162	770	36	16	0.17	3.50	104
OC100109	1614227	5.37	195 3-	REC_70_UNK	1462	1331	990	162	733	34	50	0.00	3.50	0
1613081	OC100109	8.31	195 3-	1/0 ACSR	881	819	605	149	733	34	15	1.61	5.11	859
1613069	1613081	8.43	58 1-	1/0 ACSR	0	0	596	148	178	25	11	0.08	5.18	10
OC100110	1613069	8.43	58 1-	35-H	0	0	596	148	178	25	74	0.00	5.18	0
1613070	OC100110	9.76	58 1-	1/0 ACSR	0	0	507	143	178	25	11	0.59	5.77	66
1713015	1613070	10.09	26 1-	1/0 ACSR	0	0	489	141	73	10	5	0.06	5.83	3
1713016	1713015	10.10	16 1-	4 ACSR	0	0	488	141	38	5	4	0.00	5.83	0
OC100111	1713016	10.10	16 1-	REC_25_UNK	0	0	488	141	38	5	22	0.00	5.83	0
1713011	OC100111	10.10	16 1-	4 ACSR	0	0	488	141	38	5	4	0.00	5.84	0
1713012	1713011	10.90	16 1-	6 ACWC	0	0	431	135	38	5	4	0.12	5.95	3
1713013	1713012	10.97	2 1-	2 ACSR	0	0	428	135	6	0	1	0.00	5.96	0
1713017	1713013	11.40	2 1-	4 ACSR	0	0	402	132	6	0	1	0.01	5.97	0
1613082	1613070	10.36	6 1-	4 ACSR	0	0	459	138	8	1	1	0.02	5.79	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1613044	1613081	8.48	73 3-	1/0 ACSR	861	801	592	148	336	16	7	0.05	5.16	14
1613053	1613044	8.54	73 1-	1/0 ACSR	0	0	588	148	336	48	21	0.07	5.22	17
RG100000	1613053	8.54	73 1-	50	0	0	588	148	336	48	97	-5.22	0.00	0
1613049	RG100000	8.59	4 1-	1/0 ACSR	0	0	584	148	7	0	0	0.00	0.00	0
1613054	RG100000	8.98	69 1-	1/0 ACSR	0	0	556	146	329	45	20	0.42	0.42	95
1613056	1613054	8.98	27 1-	1/0 ACSR	0	0	556	146	147	20	9	0.00	0.42	0
OC100112	1613056	8.98	27 1-	35-H	0	0	556	146	147	20	59	0.00	0.42	0
1613047	OC100112	9.13	27 1-	1/0 ACSR	0	0	545	145	147	20	9	0.07	0.49	7
1613072	1613047	9.16	24 1-	1/0 URD PRI AL	0	0	544	281	127	17	10	0.01	0.51	1
1613048	1613072	10.18	24 1-	1/0 ACSR	0	0	484	141	127	17	8	0.21	0.72	13
1613050	1613054	8.98	28 1-	1/0 ACSR	0	0	556	146	108	14	7	0.00	0.42	0
OC100113	1613050	8.98	28 1-	35-H	0	0	556	146	108	14	43	0.00	0.42	0
1613051	OC100113	9.13	28 1-	1/0 ACSR	0	0	546	145	108	14	7	0.05	0.47	3
SW100034-B	1613051	9.13	22 1-	Closed	0	0	546	145	82	11	0	0.00	0.47	0
SW100034-A	SW100034-B	9.13	22 1-	Closed	0	0	546	145	82	11	0	0.00	0.47	0
1613052	SW100034-A	9.95	22 1-	1/0 ACSR	0	0	497	142	82	11	5	0.13	0.60	5
1613055	1613052	10.23	3 1-	2 ACSR	0	0	479	141	12	1	1	0.01	0.60	0
1614185	1614184	5.39	155 3-	4/0 ACSR	1477	1340	996	162	597	28	8	0.08	3.41	34
OC100103	1614185	5.39	154 3-	REC_70_UNK	1477	1340	996	162	596	28	40	0.00	3.41	0
1614186	OC100103	5.53	154 3-	4/0 ACSR	1441	1308	970	162	596	28	8	0.04	3.46	18
1614187	1614186	5.56	152 3-	4/0 ACSR	1435	1303	966	162	593	28	8	0.01	3.47	3
OC1554249101	1614187	5.56	152 3-	_DefaultBayEqui	1435	1303	966	162	593	28	0	0.00	3.47	0
1614179	OC1554249101	5.59	118 3-	1/0 ACSR	1424	1293	959	162	499	23	10	0.02	3.48	6
SW100033-B	1614179	5.59	118 3-	Closed	1424	1293	959	162	499	23	0	0.00	3.48	0
SW100033-A	SW100033-B	5.59	118 3-	Closed	1424	1293	959	162	499	23	0	0.00	3.48	0
1614226	SW100033-A	6.54	118 3-	1/0 ACSR	1185	1086	802	157	499	23	10	0.37	3.85	138
1613045	1614226	6.81	69 2-	1/0 ACSR	0	1034	765	156	334	23	10	0.14	3.99	36
1613046	1613045	6.86	25 2-	1/0 ACSR	0	1026	759	156	133	9	4	0.01	4.00	0
1613065	1613046	6.91	24 1-	2 ACSR	0	0	751	155	131	18	10	0.03	4.03	4
OC100104	1613065	6.91	24 1-	REC_35_UNK	0	0	751	155	131	18	54	0.00	4.03	0
1613066	OC100104	7.15	24 1-	2 ACSR	0	0	718	154	131	18	10	0.09	4.12	8
1613067	1613066	7.24	6 1-	4 ACSR	0	0	703	153	34	4	4	0.02	4.14	0
1613068	1613067	7.30	6 1-	2 ACSR	0	0	696	153	34	4	3	0.01	4.15	0
1613071	1613068	7.30	4 1-	1/0 URD PRI AL	0	0	696	316	23	3	2	0.00	4.15	0
1613039	1613045	6.86	42 1-	4 ACSR	0	0	756	156	199	28	20	0.07	4.06	12
OC100105	1613039	6.86	42 1-	REC_35_UNK	0	0	756	156	199	28	81	0.00	4.06	0
1613040	OC100105	7.88	42 1-	4 ACSR	0	0	602	147	199	28	20	0.81	4.87	105
1613041	1613040	8.03	9 1-	1/0 ACSR	0	0	590	146	40	5	3	0.01	4.88	0
1713010	1613041	8.13	2 1-	2 ACSR	0	0	581	145	5	0	0	0.00	4.88	0
1713018	1713010	8.30	1 1-	1/0 URD PRI AL	0	0	568	281	5	0	0	0.00	4.88	0
1613060	1614226	6.63	21 1-	4 ACSR	0	0	783	156	63	8	6	0.04	3.89	2
OC100106	1613060	6.63	19 1-	REC_25_UNK	0	0	783	156	56	7	32	0.00	3.89	0
1613061	OC100106	6.79	19 1-	4 ACSR	0	0	754	155	56	7	6	0.06	3.94	3
1613062	1613061	6.95	17 1-	6 ACWC	0	0	724	153	55	7	6	0.06	4.01	3
1613064	1613062	7.58	15 1-	6 ACWC	0	0	630	148	49	6	5	0.10	4.11	3
1613063	1613062	7.71	2 1-	4 ACSR	0	0	612	147	7	0	1	0.02	4.02	0
1614188	OC1554249101	6.83	34 3-	4/0 ACSR	1186	1077	789	158	94	4	1	0.03	3.50	1
SW100494-A	1614188	6.83	0 3-	Open	1186	1077	789	158	0	0	0	0.00	3.50	0
1614146	1614186	5.57	1 1-	2 ACSR	0	0	962	162	0	0	0	0.00	3.46	0
1614263	1614224	4.66	1 1-	4 ACSR	0	0	1146	165	1	0	0	0.00	3.00	0
OC100100	1614263	4.66	1 1-	REC_15_UNK	0	0	1146	165	1	0	0	0.00	3.00	0
1614264	OC100100	4.90	1 1-	4 ACSR	0	0	1057	162	1	0	0	0.00	3.00	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
CA100002	1614222	3.87	0 3-	Capacitor	1992	1806	1376	167	0	-14	0	0.00	2.42	0
1514548	1514459	1.05	0 3-	336.4 ACSR	4593	4332	3716	174	0	0	0.00	0.56	0	0
SW100021-A	1514548	1.05	0 3-	Open	4593	4332	3716	174	0	0	0.00	0.56	0	0
CKT 124 total losses:		\$5,765												
SUB 3, CKT 134														
WNIC_134	WEST NICHOLASVI	0.00	560 3-	SBS_99_UNK	7878	8223	8345	176	2536	117	0	0.00	0.00	0
1514523	WNIC_134	0.16	560 3-	336.4 ACSR	7120	7126	7040	176	2536	117	22	0.14	0.14	213
1514524	1514523	0.40	560 3-	4/0 ACSR	6014	5876	5439	175	2534	117	35	0.30	0.44	484
1514662	1514524	0.83	42 1-	1/0 URD PRI AL	0	0	3817	439	174	24	14	0.16	0.60	17
SW100435-A	1514662	0.83	0 1-	Open	0	0	3817	439	0	0	0	0.00	0.60	0
1514525	1514524	0.49	462 3-	4/0 ACSR	5683	5512	5012	175	2146	99	29	0.10	0.53	136
1514670	1514525	0.79	29 2-	1/0 URD PRI AL	0	4727	4131	445	119	8	5	0.06	0.59	6
1514472	1514670	0.94	25 2-	1/0 ACSR	0	4190	3614	172	110	7	3	0.02	0.61	1
1514580	1514472	0.99	4 2-	1/0 ACSR	0	4024	3458	172	18	1	1	0.00	0.61	0
1514581	1514580	1.01	3 2-	4/0 ACSR	0	3977	3413	172	12	0	0	0.00	0.61	0
SW100253-B	1514581	1.01	3 2-	Closed	0	3977	3413	172	12	0	0	0.00	0.61	0
SW100253-A	SW100253-B	1.01	3 2-	Closed	0	3977	3413	172	12	0	0	0.00	0.61	0
1514583	SW100253-A	1.03	1 2-	1/0 ACSR	0	3930	3369	172	1	0	0	0.00	0.61	0
1514582	SW100253-A	1.04	2 2-	2 ACSR	0	3878	3326	172	12	0	0	0.00	0.61	0
1514661	1514472	1.11	10 1-	1/0 URD PRI AL	0	0	3199	431	45	6	4	0.02	0.63	0
SW100434-A	1514661	1.11	0 1-	Open	0	0	3199	431	0	0	0	0.00	0.63	0
1514674	1514525	0.79	26 1-	1/0 URD PRI AL	0	0	3968	443	147	20	12	0.12	0.66	12
1514676	1514674	0.85	0 1-	1/0 URD PRI AL	0	0	3780	440	0	0	0	0.00	0.66	0
SW100438-B	1514676	0.85	0 1-	Open	0	0	3780	440	0	0	0	0.00	0.66	0
1514675	1514674	0.95	6 1-	1/0 URD PRI AL	0	0	3523	435	36	4	3	0.01	0.67	0
SW100439-A	1514675	0.95	0 1-	Open	0	0	3523	435	0	0	0	0.00	0.67	0
1514526	1514525	0.61	402 3-	4/0 ACSR	5281	5078	4522	175	1858	86	25	0.11	0.65	140
1514475	1514526	0.69	120 3-	4/0 ACSR	5049	4831	4252	174	485	22	7	0.02	0.67	6
1514638	1514475	0.89	8 1-	1/0 URD PRI AL	0	0	3721	444	24	3	2	0.01	0.68	0
SW100442-A	1514638	0.89	0 1-	Open	0	0	3721	444	0	0	0	0.00	0.68	0
1514476	1514475	0.84	112 3-	4/0 ACSR	4654	4416	3813	174	461	21	6	0.03	0.70	10
1514637	1514476	0.88	5 1-	1/0 URD PRI AL	0	0	3734	449	18	2	1	0.00	0.70	0
SW100442-B	1514637	0.88	0 1-	Open	0	0	3734	449	0	0	0	0.00	0.70	0
1514546	1514476	0.90	102 3-	4/0 ACSR	4512	4270	3661	174	428	19	6	0.01	0.72	4
1514547	1514546	1.02	91 3-	4/0 ACSR	4258	4010	3398	173	397	18	5	0.02	0.74	6
1514477	1514547	1.21	75 3-	4/0 ACSR	3904	3651	3044	173	347	16	5	0.03	0.77	7
1514458	1514477	1.22	52 3-	1/0 ACSR	3895	3642	3036	173	284	13	6	0.00	0.77	0
1514636	1514458	1.28	3 1-	1/0 URD PRI AL	0	0	2934	439	183	1	1	0.00	0.77	0
SW100443-A	1514636	1.28	0 1-	Open	0	0	2934	439	0	0	0	0.00	0.77	0
1514635	1514458	1.96	45 1-	1/0 URD PRI AL	0	0	2090	407	252	35	21	0.42	1.19	62
SW100443-B	1514635	1.96	0 1-	Open	0	0	2090	407	0	0	0	0.00	1.19	0
1514673	1514458	1.27	4 1-	1/0 URD PRI AL	0	0	2953	440	19	2	2	0.00	0.77	0
SW-406862464-B	1514673	1.27	0 1-	Open	0	0	2953	440	0	0	0	0.00	0.77	0
1514478	1514477	1.35	12 3-	4/0 ACSR	3677	3425	2827	172	34	1	0	0.00	0.77	0
SW100250-B	1514478	1.35	0 3-	Open	3677	3425	2827	172	0	0	0	0.00	0.77	0
1514599	1514547	1.03	13 1-	1/0 ACSR	0	0	3376	173	39	5	2	0.00	0.74	0
1514660	1514599	1.17	13 1-	1/0 URD PRI AL	0	0	3114	439	39	5	3	0.01	0.75	0
SW100445-B	1514660	1.17	0 1-	Open	0	0	3114	439	0	0	0	0.00	0.75	0
1514598	1514546	0.97	6 1-	1/0 ACSR	0	0	3491	173	17	2	1	0.00	0.72	0
1514659	1514598	0.98	2 1-	1/0 URD PRI AL	0	0	3476	447	6	0	0	0.00	0.72	0
SW100445-A	1514659	0.98	0 1-	Open	0	0	3476	447	0	0	0	0.00	0.72	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1514658	1514598	0.99	2 1-	1/0 URD PRI AL	0	0	3444	446	5	0	0	0.00	0.72	0
SW100444-A	1514658	0.99	0 1-	Open	0	0	3444	446	0	0	0	0.00	0.72	0
1514431	1514526	0.68	277 3-	4/0 ACSR	5085	4870	4294	174	1349	62	18	0.04	0.69	40
1514672	1514431	0.69	2 1-	1/0 URD PRI AL	0	0	4274	454	12	1	1	0.00	0.69	0
SW100438-A	1514672	0.69	0 1-	Open	0	0	4274	454	0	0	0	0.00	0.69	0
1514432	1514431	0.72	272 3-	4/0 ACSR	4972	4750	4165	174	1323	61	18	0.03	0.72	24
1514434	1514432	0.77	258 3-	4/0 ACSR	4847	4618	4024	174	1271	59	17	0.03	0.75	25
1514439	1514434	0.85	184 3-	4/0 ACSR	4642	4405	3800	174	1025	47	14	0.04	0.79	29
SW100247-B	1514439	0.85	182 3-	Closed	4642	4405	3800	174	1014	47	0	0.00	0.79	0
SW100247-A	SW100247-B	0.85	182 3-	Closed	4642	4405	3800	174	1014	47	0	0.00	0.79	0
1514436	SW100247-A	0.93	182 3-	4/0 ACSR	4456	4212	3603	174	1014	47	14	0.04	0.83	25
1514484	1514436	0.97	86 3-	1/0 ACSR	4337	4088	3486	173	546	25	11	0.02	0.85	9
OC100304	1514484	0.97	86 3-	REC_70_UNK	4337	4088	3486	173	546	25	36	0.00	0.85	0
1514514	OC100304	1.03	86 3-	1/0 ACSR	4196	3941	3350	173	546	25	11	0.03	0.88	11
1514515	1514514	1.56	83 3-	1/0 ACSR	3182	2937	2439	171	530	24	11	0.19	1.07	72
1514584	1514515	2.70	58 2-	1/0 ACSR	0	1872	1510	165	343	24	10	0.29	1.36	50
1514671	1514514	1.07	2 1-	1/0 URD PRI AL	0	0	3283	444	11	1	1	0.00	0.88	0
SW100439-B	1514671	1.07	0 1-	Open	0	0	3283	444	0	0	0	0.00	0.88	0
1514428	1514436	0.99	67 3-	4/0 ACSR	4322	4075	3463	173	363	16	5	0.01	0.84	3
1514429	1514428	1.20	43 3-	4/0 ACSR	3930	3677	3070	173	257	11	4	0.02	0.86	3
1514482	1514429	2.06	26 3-	4/0 ACSR	2837	2604	2075	170	165	7	2	0.04	0.90	3
1514483	1514482	2.08	0 3-	1/0 ACSR	2815	2582	2057	170	0	0	0	0.00	0.90	0
SW148-B	1514483	2.08	0 3-	Open	2815	2582	2057	170	0	0	0	0.00	0.90	0
1514683	1514429	1.21	1 1-	1/0 URD PRI AL	0	0	3045	442	2	0	0	0.00	0.86	0
SW100440-A	1514683	1.21	0 1-	Open	0	0	3045	442	0	0	0	0.00	0.86	0
1514589	1514428	1.05	20 1-	1/0 ACSR	0	0	3323	173	79	10	5	0.02	0.86	0
1514682	1514589	1.26	20 1-	1/0 URD PRI AL	0	0	2943	435	79	10	6	0.04	0.89	2
SW100440-B	1514682	1.26	0 1-	Open	0	0	2943	435	0	0	0	0.00	0.89	0
1514435	1514434	0.78	72 3-	1/0 ACSR	4805	4574	3981	174	230	10	5	0.00	0.75	0
OC100301	1514435	0.78	72 3-	70-L	4805	4574	3981	174	230	10	15	0.00	0.75	0
1514438	OC100301	1.10	72 3-	1/0 ACSR	3959	3692	3148	173	230	10	5	0.04	0.80	7
1514596	1514438	1.18	30 1-	1/0 ACSR	0	0	2993	172	99	13	6	0.02	0.82	2
1514657	1514596	1.24	24 1-	1/0 URD PRI AL	0	0	2887	435	76	10	6	0.02	0.84	1
1514597	1514657	1.42	20 1-	1/0 ACSR	0	0	2593	171	61	8	4	0.02	0.86	0
1514656	1514432	0.98	14 1-	1/0 URD PRI AL	0	0	3495	440	52	7	4	0.03	0.75	0
SW100444-B	1514656	0.98	0 1-	Open	0	0	3495	440	0	0	0	0.00	0.75	0
CKT 134 total losses:	\$1,410													
SUB 3, CKT 144														
WNIC_144	WEST NICHOLASVI	0.00	769 3-	SBS_99_UNK	7878	8223	8345	176	3678	167	0	0.00	0.00	0
1514468	WNIC_144	0.01	769 3-	336.4 ACSR	7835	8152	8270	176	3678	167	32	0.01	0.01	22
1514473	1514468	0.16	769 3-	4/0 ACSR	6954	6955	6870	176	3678	167	49	0.27	0.28	674
1514474	1514473	0.69	769 3-	336.4 ACSR	5272	5048	4526	175	3672	167	32	0.60	0.88	1389
1514480	1514474	0.77	742 3-	4/0 ACSR	5040	4805	4255	175	3542	161	48	0.13	1.01	325
1514481	1514480	1.01	742 3-	336.4 ACSR	4553	4295	3706	174	3540	161	31	0.26	1.27	574
SW100116-B	1514481	1.01	641 3-	Closed	4553	4295	3706	174	3296	150	0	0.00	1.27	0
SW100116-A	SW100116-B	1.01	641 3-	Closed	4553	4295	3706	174	3296	150	0	0.00	1.27	0
1514489	SW100116-A	1.05	641 3-	336.4 ACSR	4471	4211	3618	174	3296	150	28	0.05	1.31	100
1514503	1514489	1.13	641 3-	336.4 ACSR	4345	4082	3484	174	3295	150	28	0.08	1.39	160
SW100119-B	1514503	1.13	640 3-	Closed	4345	4082	3484	174	3269	149	0	0.00	1.39	0
SW100119-A	SW100119-B	1.13	640 3-	Closed	4345	4082	3484	174	3269	149	0	0.00	1.39	0
1514454	SW100119-A	1.20	640 3-	336.4 ACSR	4218	3953	3352	174	3269	149	28	0.08	1.47	166

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LIG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1514541	1514454	1.22	52 3-	1/0 ACSR	4192	3926	3327	174	167	7	3	0.00	1.47	0
1514542	1514541	1.28	51 3-	4 ACSR	4008	3723	3155	173	164	7	5	0.02	1.49	2
1514677	1514542	1.34	46 1-	1/0 URD PRI AL	0	0	3046	441	135	18	11	0.04	1.52	5
1514679	1514677	1.63	39 1-	1/0 URD PRI AL	0	0	2601	426	104	14	9	0.07	1.59	4
SW100435-B	1514679	1.63	0 1-	Open	0	0	2601	426	0	0	0	0.00	1.59	0
1514678	1514677	1.48	5 1-	1/0 URD PRI AL	0	0	2828	434	28	3	2	0.01	1.53	0
SW100434-B	1514678	1.48	0 1-	Open	0	0	2828	434	0	0	0	0.00	1.53	0
1514455	1514454	1.29	574 3-	336.4 ACSR	4094	3827	3225	174	3047	139	26	0.08	1.54	152
1514456	1514455	1.45	540 3-	336.4 ACSR	3864	3597	2995	173	2927	133	25	0.15	1.69	282
1514588	1514456	1.53	32 1-	1/0 ACSR	0	0	2848	173	115	16	7	0.03	1.72	3
1514632	1514588	2.18	30 1-	1/0 URD PRI AL	0	0	2098	411	111	15	9	0.16	1.88	11
1514457	1514456	1.50	507 3-	336.4 ACSR	3795	3529	2928	173	2800	127	24	0.04	1.73	83
SW100122-B	1514457	1.50	507 3-	Closed	3795	3529	2928	173	2800	127	0	0.00	1.73	0
SW100122-A	SW100122-B	1.50	507 3-	Closed	3795	3529	2928	173	2800	127	0	0.00	1.73	0
1514444	SW100122-A	1.78	507 3-	336.4 ACSR	3465	3203	2614	173	2800	127	24	0.24	1.97	441
1514664	1514444	1.90	1 3-	350 MCM URD PRI	3403	3156	2570	438	324	15	5	0.01	1.98	3
1514993	1514664	1.90	1 3-	Consumer	3403	3156	2570	438	324	15	0	0.00	1.98	0
1514445	1514444	1.96	497 3-	336.4 ACSR	3286	3028	2450	172	2432	110	21	0.13	2.10	208
1514540	1514445	2.25	37 3-	1/0 ACSR	2892	2645	2130	171	151	7	3	0.02	2.12	2
1514446	1514445	2.11	454 3-	336.4 ACSR	3147	2894	2326	172	2250	102	19	0.10	2.19	150
1514357	1514446	2.16	23 1-	2 ACSR	0	0	2262	172	123	17	10	0.03	2.22	3
1514607	1514357	2.18	19 1-	1/0 URD PRI AL	0	0	2241	431	103	14	9	0.01	2.23	0
1514364	1514607	2.39	18 1-	1/0 ACSR	0	0	2041	170	101	14	6	0.04	2.27	2
1514447	1514446	2.32	421 3-	336.4 ACSR	2969	2722	2169	171	2092	95	18	0.13	2.32	185
1514451	1514447	2.36	397 3-	336.4 ACSR	2933	2688	2138	171	2024	92	17	0.03	2.35	38
1514470	1514451	2.39	105 3-	336.4 ACSR	2917	2673	2124	171	469	22	4	0.00	2.35	0
OC100236	1514470	2.39	105 3-	REC_100_UNK	2917	2673	2124	171	469	22	22	0.00	2.35	0
1514471	OC100236	2.69	105 3-	336.4 ACSR	2702	2467	1941	171	469	22	4	0.05	2.40	14
1514492	1514471	2.72	60 3-	1/0 ACSR	2676	2441	1921	171	234	11	5	0.01	2.41	0
1514663	1514492	2.75	60 3-	1/0 URD PRI AL	2648	2415	1904	423	234	11	6	0.01	2.41	2
1614297	1514663	2.85	60 3-	1/0 ACSR	2556	2326	1834	170	234	11	5	0.01	2.43	2
1614150	1614297	2.88	28 1-	2 ACSR	0	0	1532	167	132	18	10	0.15	2.58	12
1614151	1614150	3.70	4 1-	4 ACSR	0	0	1269	163	17	2	2	0.02	2.60	0
1614299	1514471	2.84	45 3-	336.4 ACSR	2609	2379	1863	170	235	11	2	0.01	2.41	2
1614287	1614299	2.84	41 3-	1/0 URD PRI AL	2605	2375	1861	423	210	9	6	0.00	2.41	0
SW100131-B	1614287	2.84	41 3-	Closed	2605	2375	1861	423	210	9	0	0.00	2.41	0
SW100131-A	SW100131-B	2.84	41 3-	Closed	2605	2375	1861	423	210	9	0	0.00	2.41	0
1614288	SW100131-A	2.86	41 3-	1/0 URD PRI AL	2592	2363	1853	422	210	9	6	0.00	2.42	0
1614197	1614288	2.86	41 3-	336.4 ACSR	2589	2360	1850	170	210	9	2	0.00	2.42	0
SW100134-B	1614197	2.86	41 3-	Closed	2589	2360	1850	170	210	9	0	0.00	2.42	0
SW100134-A	SW100134-B	2.86	41 3-	Closed	2589	2360	1850	170	210	9	0	0.00	2.42	0
1614198	SW100134-A	3.17	41 3-	336.4 ACSR	2417	2198	1710	170	210	9	2	0.01	2.43	1
1614199	1614198	3.35	13 3-	1/0 ACSR	2274	2070	1604	169	59	2	1	0.01	2.44	0
1614149	1614199	3.38	3 1-	1/0 ACSR	0	0	1591	169	10	1	1	0.00	2.44	0
1514452	1514451	2.51	292 3-	336.4 ACSR	2827	2586	2047	171	1554	70	13	0.06	2.40	68
SW100125-B	1514452	2.51	289 3-	Closed	2827	2586	2047	171	1546	69	0	0.00	2.40	0
SW100125-A	SW100125-B	2.51	289 3-	Closed	2827	2586	2047	171	1546	69	0	0.00	2.40	0
1514453	SW100125-A	2.61	289 3-	336.4 ACSR	2754	2517	1985	171	1546	69	13	0.04	2.45	49
1514491	1514453	2.73	32 3-	4/0 ACSR	2656	2423	1904	170	520	24	7	0.03	2.48	11
1514594	1514491	2.78	22 1-	1/0 ACSR	0	0	1865	170	70	9	4	0.01	2.49	0
OC100233	1514594	2.78	22 1-	70-L	0	0	1865	170	70	9	14	0.00	2.49	0
1514595	OC100233	3.79	22 1-	1/0 ACSR	0	0	1332	165	70	9	4	0.21	2.70	10

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1514464	1514595	4.24	14 1-	1/0 URD PRI AL	0	0	1188	372	52	7	4	0.05	2.75	2
1514469	1514491	2.74	3 3-	4/0 ACSR	2651	2419	1900	170	439	20	6	0.00	2.48	0
SW100128-B	1514469	2.74	3 3-	Closed	2651	2419	1900	170	439	20	0	0.00	2.48	0
SW100128-A	SW100128-B	2.74	3 3-	Closed	2651	2419	1900	170	439	20	0	0.00	2.48	0
1514463	SW100128-A	2.87	3 3-	4/0 ACSR	2546	2319	1814	170	439	20	6	0.03	2.51	9
1514464	1514463	2.91	1 3-	4 ACSR	2497	2272	1779	170	432	20	15	0.03	2.54	12
1514994	1514464	2.91	1 3-	Consumer	2497	2272	1779	170	432	20	0	0.00	2.54	0
1513136	1514453	3.57	257 3-	4/0 ACSR	2117	1920	1476	168	1026	46	14	0.32	2.76	300
SW100137-B	1513136	3.57	236 3-	Closed	2117	1920	1476	168	960	43	0	0.00	2.76	0
SW100137-A	SW100137-B	3.57	236 3-	Closed	2117	1920	1476	168	960	43	0	0.00	2.76	0
1513104	SW100137-A	3.82	236 3-	4/0 ACSR	1997	1812	1384	167	960	43	13	0.08	2.84	72
1513105	1513104	4.11	228 3-	4/0 ACSR	1870	1697	1288	166	932	42	12	0.09	2.93	78
OC100239	1513105	4.11	217 3-	REC_100_UNK	1870	1697	1288	166	889	40	40	0.00	2.93	0
1513106	OC100239	4.17	217 3-	4/0 ACSR	1848	1677	1271	166	889	40	12	0.01	2.94	13
1513111	1513106	5.08	129 3-	1/0 ACSR	1478	1356	1018	162	543	25	11	0.22	3.16	163
OC100242	1513111	5.08	115 3-	REC_50_UNK	1478	1356	1018	162	469	22	45	0.00	3.16	0
1513107	OC100242	5.15	12 3-	1/0 ACSR	1454	1336	1002	161	57	13	6	-0.01	3.15	4
1513108	1513107	5.90	12 3-	1/0 ACSR	1248	1153	862	158	57	2	1	0.02	3.17	0
SW100140-B	1513108	5.90	0 3-	Open	1248	1153	862	158	0	0	0	0.00	3.17	0
CA100005	1513107	5.15	0 3-	Capacitor	1454	1336	1002	161	0	-14	0	0.00	3.15	0
1513112	OC100242	5.35	103 3-	1/0 ACSR	1392	1281	960	160	411	19	8	0.09	3.25	29
1513077	1513112	6.12	20 1-	4 ACSR	0	0	773	153	106	15	11	0.27	3.52	17
1513101	1513112	5.84	76 3-	1/0 ACSR	1261	1164	871	158	258	12	5	0.10	3.35	20
1613080	1513101	6.05	0 3-	2 ACSR	1202	1114	832	157	0	0	0	0.00	3.35	0
1613043	1613080	6.20	0 3-	2 ACSR	1163	1080	806	156	0	0	0	0.00	3.35	0
1613074	1613043	6.35	0 1-	1/0 URD PRI AL	0	0	786	329	0	0	0	0.00	3.35	0
SW100431-A	1613074	6.35	0 1-	Open	0	0	786	329	0	0	0	0.00	3.35	0
1613059	1613080	6.17	0 1-	2 ACSR	0	0	811	156	0	0	0	0.00	3.35	0
1613073	1613059	6.40	0 1-	1/0 URD PRI AL	0	0	781	327	0	0	0	0.00	3.35	0
SW100431-B	1613073	6.40	0 1-	Open	0	0	781	327	0	0	0	0.00	3.35	0
1613079	1513101	6.74	63 3-	1/0 ACSR	1072	996	743	154	214	10	4	0.16	3.52	28
1613057	1613079	6.81	27 1-	4 ACSR	0	0	731	153	105	15	11	0.04	3.56	4
OC100243	1613057	6.81	25 1-	35-H	0	0	731	153	100	14	41	0.00	3.56	0
1613058	OC100243	7.57	25 1-	4 ACSR	0	0	615	147	100	14	10	0.25	3.82	15
1613042	1613079	6.94	31 1-	4 ACSR	0	0	708	152	99	14	10	0.13	3.64	11
OC100244	1613042	6.94	29 1-	REC_50_UNK	0	0	708	152	91	12	26	0.00	3.64	0
1613038	OC100244	9.05	29 1-	4 ACSR	0	0	465	135	91	12	9	0.71	4.35	40
1612028	1613038	9.32	2 1-	2 ACSR	0	0	450	134	10	1	1	0.01	4.36	0
1513102	1513106	4.31	75 3-	4/0 ACSR	1795	1629	1232	166	297	14	4	0.02	2.96	4
1513103	1513102	4.53	67 3-	4/0 ACSR	1717	1559	1174	165	270	12	4	0.03	2.99	5
1513110	1513103	5.07	47 3-	1/0 ACSR	1508	1378	1032	162	176	8	4	0.04	3.03	4
1513109	1513103	4.86	12 3-	4/0 ACSR	1610	1462	1095	164	54	2	1	0.00	3.00	0
SW100982-B	1513109	4.86	0 3-	Open	1610	1462	1095	164	0	0	0	0.00	3.00	0
1513078	1513102	4.37	2 1-	4 ACSR	0	0	1203	165	9	1	1	0.00	2.97	0
SW-1723145351-B	1513078	4.37	1 1-	Closed	0	0	1203	165	4	0	0	0.00	2.97	0
SW-1723145351-A	SW-1723145351-B	4.37	1 1-	Closed	0	0	1203	165	4	0	0	0.00	2.97	0
1513131	SW-1723145351-A	4.37	1 1-	1/0 URD PRI AL	0	0	1203	385	4	0	0	0.00	2.97	0
1513125	1513104	3.99	6 1-	4 ACSR	0	0	1291	165	20	2	2	0.01	2.85	0
1514450	1514447	2.33	12 3-	336.4 ACSR	2960	2713	2161	171	33	1	0	0.00	2.32	0
1514591	1514450	2.36	12 1-	4 ACSR	0	0	2126	171	33	4	3	0.01	2.33	0
1514592	1514591	2.49	12 1-	6 ACWC	0	0	1968	170	33	4	3	0.02	2.34	0
1514593	1514592	2.69	3 1-	4 ACSR	0	0	1751	168	5	0	1	0.00	2.35	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
OC100167	1514593	2.69	0 1-	_DefaultBayEqui	0	0	1751	168	0	0	0	0.00	2.35	0
1514590	1514455	1.29	30 1-	1/0 ACSR	0	0	3205	173	105	14	6	0.00	1.55	0
1514684	1514590	1.94	30 1-	1/0 URD PRI AL	0	0	2297	416	105	14	9	0.15	1.70	9
1514490	1514489	1.10	0 3-	336.4 ACSR	4395	4134	3538	174	0	0	0	0.00	1.31	0
SW100021-B	1514490	1.10	0 3-	Open	4395	4134	3538	174	0	0	0	0.00	1.31	0
CKT 144 total losses:		\$5,994												
SUB	3, CKT 154													
WNIC_154	WEST NICHOLASVI	0.00	677 3-	SBS_99_UNK	7878	8223	8345	176	3445	153	0	0.00	0.00	0
1514543	WNIC_154	0.01	677 3-	336.4 ACSR	7833	8148	8266	176	3445	153	29	0.01	0.01	20
1514544	1514543	0.28	677 3-	4/0 ACSR	6406	6333	5990	175	3445	153	45	0.38	0.39	990
1514545	1514544	0.94	677 3-	336.4 ACSR	4660	4410	3802	174	3436	153	29	0.62	1.00	1522
1514549	1514545	1.77	677 3-	336.4 ACSR	3473	3212	2611	173	3423	156	29	0.88	1.88	1949
1514551	1514549	1.82	671 3-	336.4 ACSR	3411	3152	2555	172	3171	145	27	0.06	1.94	119
1514552	1514551	1.86	671 3-	336.4 ACSR	3370	3111	2517	172	3170	148	28	0.04	1.98	85
1514499	1514552	1.98	3 3-	336.4 ACSR	3259	3003	2417	172	177	8	2	0.01	1.99	0
1514500	1514499	2.02	0 3-	336.4 ACSR	3221	2966	2383	172	0	0	0	0.00	1.99	0
SW136-B	1514500	2.02	0 3-	Open	3221	2966	2383	172	0	0	0	0.00	1.99	0
1514619	1514499	2.00	1 3-	1/0 URD PRI AL	3233	2979	2400	435	156	7	4	0.00	1.99	0
1514991	1514619	2.00	1 3-	Consumer	3233	2979	2400	435	156	7	0	0.00	1.99	0
1514553	1514552	1.90	666 3-	4/0 ACSR	3327	3069	2479	172	2958	138	41	0.05	2.03	100
1514559	1514553	1.99	331 3-	4/0 ACSR	3218	2964	2383	172	1987	93	27	0.09	2.12	121
SW100316-B	1514559	1.99	323 3-	Closed	3218	2964	2383	172	1956	91	0	0.00	2.12	0
SW100316-A	SW100316-B	1.99	323 3-	Closed	3218	2964	2383	172	1956	91	0	0.00	2.12	0
1514560	SW100316-A	2.04	323 3-	4/0 ACSR	3154	2902	2327	172	1956	91	27	0.06	2.18	72
1514562	1514560	2.20	308 3-	4/0 ACSR	2986	2741	2182	171	1906	89	26	0.15	2.32	181
SW100319-B	1514562	2.20	300 3-	Closed	2986	2741	2182	171	1708	80	0	0.00	2.32	0
SW100319-A	SW100319-B	2.20	300 3-	Closed	2986	2741	2182	171	1708	80	0	0.00	2.32	0
1514563	SW100319-A	2.25	300 3-	4/0 ACSR	2933	2690	2137	171	1708	80	24	0.05	2.37	53
1514564	1514563	2.29	296 3-	1/0 ACSR	2894	2652	2107	171	1707	80	35	0.05	2.42	65
1514495	1514564	2.48	12 3-	1/0 ACSR	2678	2440	1938	170	361	17	7	0.03	2.45	6
1514498	1514495	2.50	1 3-	1/0 ACSR	2657	2423	1923	170	4	0	0	0.00	2.45	0
1514614	1514498	2.51	1 3-	1/0 URD PRI AL	2650	2417	1919	420	4	0	0	0.00	2.45	0
SW100448-A	1514614	2.51	0 3-	Open	2650	2417	1919	420	0	0	0	0.00	2.45	0
1514496	1514495	2.52	1 3-	1/0 ACSR	2638	2406	1908	170	0	0	0	0.00	2.45	0
1514613	1514496	2.56	1 3-	1/0 URD PRI AL	2607	2379	1889	418	0	0	0	0.00	2.45	0
1514497	1514613	2.66	0 3-	336.4 ACSR	2550	2327	1841	169	0	0	0	0.00	2.45	0
SW100313-B	1514497	2.66	0 3-	Open	2550	2327	1841	169	0	0	0	0.00	2.45	0
1514565	1514564	2.35	284 3-	4/0 ACSR	2832	2592	2054	171	1345	63	19	0.04	2.46	38
1514494	1514565	2.53	13 3-	4 ACSR	2569	2363	1860	169	189	8	6	0.03	2.49	4
1514566	1514565	2.42	268 3-	4/0 ACSR	2772	2535	2004	171	1015	47	14	0.03	2.50	24
1514493	1514566	2.46	0 3-	4/0 ACSR	2736	2501	1974	170	0	0	0	0.00	2.50	0
SW143-B	1514493	2.46	0 3-	Open	2736	2501	1974	170	0	0	0	0.00	2.50	0
1514567	1514566	2.50	268 3-	4/0 ACSR	2703	2470	1947	170	1015	47	14	0.04	2.54	28
1514569	1514567	2.62	259 3-	4/0 ACSR	2609	2380	1870	170	957	45	13	0.05	2.59	31
1514572	1514569	2.66	183 3-	4/0 ACSR	2579	2352	1845	170	673	31	9	0.01	2.60	6
1514629	1514572	2.79	24 1-	1/0 URD PRI AL	0	0	1767	413	68	9	6	0.02	2.62	0
SW100451-B	1514629	2.79	0 1-	Open	0	0	1767	413	0	0	0	0.00	2.62	0
1514649	1514572	2.76	12 1-	1/0 URD PRI AL	0	0	1784	415	35	4	3	0.01	2.61	0
SW100449-A	1514649	2.76	0 1-	Open	0	0	1784	415	0	0	0	0.00	2.61	0
1514573	1514572	2.69	130 3-	4/0 ACSR	2554	2328	1825	170	527	24	7	0.01	2.61	3
1514612	1514573	2.74	129 3-	1/0 URD PRI AL	2515	2292	1802	417	515	24	14	0.03	2.64	13

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1514574	1514612	2.97	129 3-	4/0 ACSR	2360	2146	1676	169	515	24	7	0.04	2.68	11
1514575	1514574	2.99	1 3-	4/0 ACSR	2349	2136	1668	169	35	1	0	0.00	2.68	0
1514366	1514574	3.12	66 1-	1/0 ACSR	0	0	1594	168	139	19	9	0.03	2.71	2
1514630	1514572	2.73	17 1-	1/0 URD PRI AL	0	0	1799	416	43	6	4	0.01	2.61	0
SW100450-A	1514630	2.73	0 1-	Open	0	0	1799	416	0	0	0	0.00	2.61	0
1514570	1514569	2.68	30 3-	1/0 ACSR	2553	2326	1828	170	85	4	2	0.00	2.59	0
1514628	1514570	2.68	0 1-	1/0 URD PRI AL	0	0	1824	418	0	0	0	0.00	2.59	0
SW100451-A	1514628	2.68	0 1-	Open	0	0	1824	418	0	0	0	0.00	2.59	0
1514571	1514570	2.68	16 3-	1/0 ACSR	2550	2322	1825	170	38	1	1	0.00	2.59	0
1514623	1514571	2.69	8 1-	1/0 URD PRI AL	0	0	1820	418	16	2	1	0.00	2.59	0
SW100450-B	1514623	2.69	0 1-	Open	0	0	1820	418	0	0	0	0.00	2.59	0
1514648	1514571	2.72	8 1-	1/0 URD PRI AL	0	0	1804	417	22	3	2	0.00	2.60	0
SW100449-B	1514648	2.72	0 1-	Open	0	0	1804	417	0	0	0	0.00	2.60	0
1514568	1514567	2.54	8 3-	1/0 ACSR	2665	2433	1918	170	51	2	1	0.00	2.54	0
1514665	1514568	2.72	5 3-	1/0 URD PRI AL	2527	2306	1834	415	15	0	0	0.00	2.54	0
SW100448-B	1514665	2.72	0 3-	Open	2527	2306	1834	415	0	0	0	0.00	2.54	0
1514561	1514560	2.10	0 3-	4/0 ACSR	3097	2848	2278	172	0	0	0	0.00	2.18	0
SW139-B	1514561	2.10	0 3-	Open	3097	2848	2278	172	0	0	0	0.00	2.18	0
1514554	1514553	2.24	333 3-	4/0 ACSR	2952	2708	2153	171	866	40	12	0.13	2.16	70
1514558	1514554	2.74	96 3-	336.4 ACSR	2604	2375	1859	170	284	13	3	0.03	2.19	3
SW100313-A	1514558	2.74	0 3-	Open	2604	2375	1859	170	0	0	0	0.00	2.19	0
1514555	1514554	2.28	206 3-	4/0 ACSR	2905	2663	2114	171	362	17	5	0.01	2.17	2
1514610	1514555	2.37	38 1-	1/0 URD PRI AL	0	0	2045	424	34	4	3	0.01	2.18	0
1514365	1514610	2.38	8 1-	1/0 ACSR	0	0	2037	170	9	1	1	0.00	2.18	0
1514622	1514365	2.39	0 1-	1/0 URD PRI AL	0	0	2033	423	0	0	0	0.00	2.18	0
SW100455-A	1514622	2.39	0 1-	Open	0	0	2033	423	0	0	0	0.00	2.18	0
1514611	1514365	2.45	8 1-	1/0 URD PRI AL	0	0	1988	421	9	1	1	0.00	2.18	0
SW100452-A	1514611	2.45	0 1-	Open	0	0	1988	421	0	0	0	0.00	2.18	0
1514640	1514555	2.37	7 1-	1/0 URD PRI AL	0	0	2046	424	12	1	1	0.00	2.18	0
1514627	1514640	2.43	1 1-	1/0 URD PRI AL	0	0	2004	421	3	0	0	0.00	2.18	0
SW100456-A	1514627	2.43	0 1-	Open	0	0	2004	421	0	0	0	0.00	2.18	0
1514641	1514640	2.42	6 1-	1/0 URD PRI AL	0	0	2013	422	9	1	1	0.00	2.18	0
SW100454-A	1514641	2.42	0 1-	Open	0	0	2013	422	0	0	0	0.00	2.18	0
1514651	1514555	2.37	11 1-	1/0 URD PRI AL	0	0	2046	424	11	1	1	0.00	2.18	0
1514653	1514651	2.45	11 1-	1/0 URD PRI AL	0	0	1987	420	11	1	1	0.00	2.18	0
SW100453-A	1514653	2.45	0 1-	Open	0	0	1987	420	0	0	0	0.00	2.18	0
1514652	1514651	2.43	0 1-	1/0 URD PRI AL	0	0	2003	421	0	0	0	0.00	2.18	0
SW100457-A	1514652	2.43	0 1-	Open	0	0	2003	421	0	0	0	0.00	2.18	0
1514556	1514555	2.48	146 3-	4/0 ACSR	2731	2497	1968	170	292	13	4	0.02	2.19	3
1514557	1514556	2.61	38 3-	4/0 ACSR	2625	2396	1881	170	65	3	1	0.00	2.19	0
1514647	1514557	2.61	0 1-	1/0 URD PRI AL	0	0	1878	421	0	0	0	0.00	2.19	0
SW100457-B	1514647	2.61	0 1-	Open	0	0	1878	421	0	0	0	0.00	2.19	0
1514639	1514557	2.61	6 1-	1/0 URD PRI AL	0	0	1877	421	6	0	1	0.00	2.19	0
SW100456-B	1514639	2.61	0 1-	Open	0	0	1877	421	0	0	0	0.00	2.19	0
1514609	1514557	2.67	6 1-	1/0 URD PRI AL	0	0	1844	418	6	0	1	0.00	2.19	0
SW100455-B	1514609	2.67	0 1-	Open	0	0	1844	418	0	0	0	0.00	2.19	0
1514626	1514556	2.51	6 1-	1/0 URD PRI AL	0	0	1943	422	9	1	1	0.00	2.19	0
SW100454-B	1514626	2.51	0 1-	Open	0	0	1943	422	0	0	0	0.00	2.19	0
1514608	1514556	2.48	8 1-	1/0 URD PRI AL	0	0	1964	424	9	1	1	0.00	2.19	0
SW100452-B	1514608	2.48	0 1-	Open	0	0	1964	424	0	0	0	0.00	2.19	0
1514646	1514556	2.48	11 1-	1/0 URD PRI AL	0	0	1966	424	10	1	1	0.00	2.19	0
SW100453-B	1514646	2.48	0 1-	Open	0	0	1966	424	0	0	0	0.00	2.19	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
CA100011	1514551	1.82	0 3-	Capacitor	3411	3152	2555	172	0	-14	0	0.00	1.94	0
1514550	1514549	1.84	5 3-	1/0 ACSR	3346	3085	2504	172	236	11	5	0.01	1.89	2
1514992	1514550	1.84	1 1-	Consumer	0	0	2504	172	77	10	0	0.00	1.89	0
CA100008	1514545	0.94	0 3-	Capacitor	4660	4410	3802	174	0	-14	0	0.00	1.00	0
CKT 154 total losses:		\$5,523												
SUB 3, CKT 164														
WNIC_164	WEST NICHOLASVI	0.00	159 3-	SBS_99_UNK	7878	8223	8345	176	437	20	0	0.00	0.00	0
1514620	WNIC_164	0.03	159 3-	350 MCM URD PRI	7811	8079	8266	468	437	20	6	0.00	0.00	1
1514430	1514620	0.04	60 3-	336.4 ACSR	7746	7964	8147	176	172	7	1	0.00	0.00	0
SW-1591154014-B	1514430	0.04	60 3-	Closed	7746	7964	8147	176	172	7	0	0.00	0.00	0
SW-1591154014-A	SW-1591154014-B	0.04	60 3-	Closed	7746	7964	8147	176	172	7	0	0.00	0.00	0
1514522	SW-1591154014-A	0.09	2 3-	336.4 ACSR	7516	7670	7737	176	10	0	0	0.00	0.00	0
SW679042338-A	1514522	0.09	0 3-	Closed	7516	7670	7737	176	0	0	0	0.00	0.00	0
SW679042338-B	SW679042338-A	0.09	0 3-	Closed	7516	7670	7737	176	0	0	0	0.00	0.00	0
1514621	SW-1591154014-A	0.08	58 3-	500 MCM URD PRI	7674	7912	8076	468	162	7	2	0.00	0.01	0
SW1743295580-B	1514621	0.08	58 3-	Closed	7674	7912	8076	468	162	7	0	0.00	0.01	0
SW1743295580-A	SW1743295580-B	0.08	58 3-	Closed	7674	7912	8076	468	162	7	0	0.00	0.01	0
1514666	SW1743295580-A	0.08	58 3-	500 MCM URD PRI	7671	7909	8073	468	162	7	2	0.00	0.01	0
1514576	1514666	0.11	58 3-	336.4 ACSR	7535	7732	7828	176	162	7	1	0.00	0.01	0
1514521	1514576	0.22	0 3-	1/0 ACSR	6818	6871	6701	175	0	0	0	0.00	0.01	0
1514577	1514576	0.47	58 3-	336.4 ACSR	6099	5983	5580	175	162	7	1	0.02	0.03	2
1514655	1514577	0.74	0 1-	1/0 URD PRI AL	0	0	4456	448	0	0	0	0.00	0.03	0
SW1574294373-A	1514655	0.74	0 1-	Open	0	0	4456	448	0	0	0	0.00	0.03	0
1514578	1514577	0.52	52 3-	336.4 ACSR	5933	5795	5355	175	151	6	1	0.00	0.03	0
OC1164237350	1514578	0.52	52 3-	_DefaultBayEqui	5933	5795	5355	175	151	6	0	0.00	0.03	0
1514579	OC1164237350	0.55	52 3-	336.4 ACSR	5852	5703	5247	175	151	6	1	0.00	0.03	0
1514527	1514579	0.58	52 3-	336.4 ACSR	5760	5600	5126	175	151	6	1	0.00	0.03	0
OC1423929816	1514527	0.58	52 3-	_DefaultBayEqui	5760	5600	5126	175	151	6	0	0.00	0.03	0
1514528	OC1423929816	0.84	52 3-	336.4 ACSR	5083	4860	4290	175	151	6	1	0.01	0.05	1
1514520	1514528	1.09	2 3-	4/0 ACSR	4460	4214	3605	174	2	0	0	0.00	0.05	0
SW100413-B	1514520	1.09	0 3-	Open	4460	4214	3605	174	0	0	0	0.00	0.05	0
1514529	1514528	0.92	50 3-	4/0 ACSR	4872	4640	4051	174	149	6	2	0.01	0.05	0
1514519	1514529	0.93	3 3-	4/0 ACSR	4859	4626	4036	174	0	0	0	0.00	0.05	0
1514361	1514519	1.17	3 1-	1/0 ACSR	0	0	3367	173	0	0	0	0.00	0.05	0
1514634	1514361	1.17	0 1-	1/0 URD PRI AL	0	0	3364	446	0	0	0	0.00	0.05	0
1514449	1514529	0.93	47 3-	4/0 ACSR	4862	4629	4040	174	149	6	2	0.00	0.05	0
OC1885356904	1514449	0.93	47 3-	70-L	4862	4629	4040	174	149	6	10	0.00	0.05	0
1514518	OC1885356904	0.97	47 3-	4/0 ACSR	4753	4515	3919	174	149	6	2	0.00	0.06	0
1514360	1514518	1.32	17 1-	4 ACSR	0	0	2763	170	62	8	6	0.07	0.13	3
1514654	1514579	0.80	0 1-	1/0 URD PRI AL	0	0	4285	447	0	0	0	0.00	0.03	0
SW1574294373-B	1514654	0.80	0 1-	Open	0	0	4285	447	0	0	0	0.00	0.03	0
1514509	1514620	0.11	99 3-	336.4 ACSR	7422	7552	7574	176	266	12	2	0.01	0.01	0
1514513	1514509	0.27	12 3-	336.4 ACSR	6748	6726	6485	176	19	0	0	0.00	0.01	0
SW100422-A	1514513	0.27	0 3-	Open	6748	6726	6485	176	0	0	0	0.00	0.01	0
1514510	1514509	0.22	82 3-	336.4 ACSR	6930	6945	6768	176	232	10	2	0.01	0.02	1
1514511	1514510	0.25	23 3-	336.4 ACSR	6832	6827	6614	176	68	3	1	0.00	0.02	0
1514633	1514511	0.43	10 1-	1/0 URD PRI AL	0	0	5534	455	30	4	2	0.01	0.03	0
SW-1141229715-A	1514633	0.43	0 1-	Open	0	0	5534	455	0	0	0	0.00	0.03	0
1514512	1514511	0.51	13 3-	336.4 ACSR	5899	5745	5281	175	38	1	0	0.00	0.02	0
1514359	1514510	0.29	56 1-	2 ACSR	0	0	6179	175	156	21	12	0.03	0.05	2
1514631	1514359	0.48	6 1-	1/0 URD PRI AL	0	0	5137	452	16	2	1	0.01	0.05	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES CONS	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW-1141229715-B	1514631	0.48	0 1-	Open	0	0	5137	452	0	0	0	0.00	0.05	0
CKT 164 total losses:		\$10												
SUB 3 total losses:		\$24,809												

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 4	DAVIS		1836		5790	5968	6021	176	10627					
SUB 4, CKT 104														
DAVS_104	DAVIS	0.00	648 3-	SBS_99_UNK	5790	5968	6021	176	3502	155 0	0.00	0.00	0.00	0
1515164	DAVS_104	0.74	648 3-	4/0 ACSR	3977	3826	3407	174	3502	155 46	0.94	0.94	2604	0
1515244	1515164	0.74	0 1-	4 ACSR	0	0	3390	174	0	0 0	0.00	0.94	0	0
SW101886-A	1515244	0.74	0 1-	Open	0	0	3390	174	0	0 0	0.00	0.94	0	0
1515165	1515164	1.35	620 3-	4/0 ACSR	3131	2944	2483	172	3245	144 43	0.73	1.67	1923	0
1515243	1515165	2.51	27 1-	2 ACSR	0	0	1429	164	160	21 12	0.38	2.06	35	0
1515166	1515165	1.64	570 3-	4/0 ACSR	2835	2645	2192	171	2954	132 39	0.31	1.98	768	0
1515193	1515166	2.04	25 3-	1/0 ACSR	2439	2246	1849	169	122	5 2	0.03	2.01	2	0
OC101654	1515193	2.04	12 3-	REC_35_UNK	2439	2246	1849	169	47	2 6	0.00	2.01	0	0
1515168	OC101654	2.00	12 3-	1/0 ACSR	1914	1768	1421	166	47	2 1	0.02	2.03	0	0
1515148	1515168	3.21	5 1-	4 ACSR	0	0	1194	162	15	2 1	0.02	2.05	0	0
1515167	1515166	2.00	525 3-	4/0 ACSR	2540	2353	1917	170	2666	119 35	0.34	2.33	787	0
1515146	1515167	2.06	25 1-	4 ACSR	0	0	1854	169	150	20 15	0.05	2.38	7	0
OC101646	1515146	2.06	25 1-	4 ACSR	0	0	1854	169	150	20 41	0.00	2.38	0	0
1515147	OC101646	2.59	25 1-	4 ACSR	0	0	1413	164	150	20 15	0.24	2.62	21	0
1515177	1515167	2.22	486 3-	4/0 ACSR	2392	2208	1784	169	2441	109 32	0.19	2.51	398	0
SW101601-B	1515177	2.22	485 3-	Closed	2392	2208	1784	169	2427	109 0	0.00	2.51	0	0
SW101601-A	SW101601-B	2.22	485 3-	Closed	2392	2208	1784	169	2427	109 0	0.00	2.51	0	0
1515178	SW101601-A	2.73	485 3-	4/0 ACSR	2098	1924	1530	168	2427	109 32	0.43	2.94	927	0
SW101598-B	1515178	2.73	470 3-	Closed	2098	1924	1530	168	2351	106 0	0.00	2.94	0	0
SW101598-A	SW101598-B	2.73	470 3-	Closed	2098	1924	1530	168	2351	106 0	0.00	2.94	0	0
1515161	SW101598-A	2.79	470 3-	4/0 ACSR	2068	1895	1505	168	2351	106 31	0.05	2.99	106	0
1515179	1515161	3.23	468 3-	4/0 ACSR	1873	1710	1343	166	2337	105 31	0.26	3.25	485	0
1515180	1515179	3.28	275 3-	4/0 ACSR	1852	1689	1326	166	1189	54 16	0.02	3.27	24	0
1515181	1515180	3.31	275 3-	4/0 ACSR	1840	1678	1316	166	1189	54 16	0.02	3.29	15	0
1515240	1515181	3.32	5 1-	6 ACWC	0	0	1309	166	10	1 1	0.00	3.29	0	0
OC101647	1515240	3.32	5 1-	REC_35_UNK	0	0	1309	166	10	1 4	0.00	3.29	0	0
1515241	OC101647	3.92	5 1-	6 ACWC	0	0	1050	160	10	1 1	0.03	3.31	0	0
1515242	1515241	4.09	1 1-	4 ACSR	0	0	991	158	4	0 0	0.00	3.32	0	0
1515182	1515181	3.45	270 3-	4/0 ACSR	1787	1628	1274	166	1178	54 16	0.07	3.36	62	0
OC101650	1515182	3.45	269 3-	REC_100_UNK	1787	1628	1274	166	1171	53 54	0.00	3.36	0	0
1515183	OC101650	3.89	269 3-	4/0 ACSR	1638	1487	1155	164	1171	53 16	0.22	3.58	196	0
1515257	1515183	3.92	48 1-	1/0 ACSR	0	0	1147	164	131	18 8	0.01	3.59	1	0
1515258	1515257	3.93	48 1-	2 ACSR	0	0	1145	164	131	18 10	0.00	3.59	0	0
OC101651	1515258	3.93	48 1-	REC_35_UNK	0	0	1145	164	131	18 52	0.00	3.59	0	0
1515250	OC101651	4.12	48 1-	2 ACSR	0	0	1083	163	131	18 10	0.08	3.67	8	0
1515251	1515250	4.34	24 1-	4 ACSR	0	0	1009	161	64	8 6	0.04	3.72	2	0
1515184	1515183	3.95	219 3-	4/0 ACSR	1621	1471	1141	164	1023	47 14	0.02	3.60	19	0
1515191	1515184	3.98	31 3-	4/0 ACSR	1611	1462	1133	164	190	8 3	0.00	3.61	0	0
1515192	1515191	4.44	31 3-	1/0 ACSR	1452	1325	1019	162	190	8 4	0.03	3.64	4	0
1415730	1515184	4.81	184 3-	1/0 ACSR	1340	1228	941	160	819	37 16	0.50	4.11	331	0
1415394	1415730	5.64	96 3-	1/0 ACSR	1147	1058	804	156	684	31 14	0.35	4.45	175	0
1415547	1415394	5.70	56 1-	4 ACSR	0	0	792	156	403	55 40	0.14	4.60	52	0
1415548	1415547	6.10	56 1-	1/0 ACSR	0	0	740	154	403	55 24	0.24	4.84	53	0
1415387	1415730	4.83	25 3-	1/0 ACSR	1335	1224	937	160	0	0 0	0.00	4.11	0	0
1415610	1415387	4.83	25 3-	500 MCM URD PRI	1335	1224	937	355	0	0 0	0.00	4.11	0	0
SW-194515190-B	1415610	4.83	25 3-	Closed	1335	1224	937	355	0	0 0	0.00	4.11	0	0
SW-194515190-A	SW-194515190-B	4.83	25 3-	Closed	1335	1224	937	355	0	0 0	0.00	4.11	0	0
1415611	SW-194515190-A	4.95	25 3-	500 MCM URD PRI	1325	1215	933	354	0	0 0	0.00	4.11	0	0
SW2078374425-B	1415611	4.95	25 3-	Closed	1325	1215	933	354	0	0 0	0.00	4.11	0	0

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW2078374425-A	SW2078374425-B	4.95	25 3-	Closed	1325	1215	933	354	0	0	0	0.00	4.11	0
1415388	SW2078374425-A	4.96	25 3-	336.4 ACSR	1324	1214	932	160	0	0	0	0.00	4.11	0
1415620	1415388	4.96	2 3-	4/0 AL URD PRI	1324	1214	932	354	0	0	0	0.00	4.11	0
OC1310839836	1415620	4.96	2 3-	_DefaultBayEqui	1324	1214	932	354	0	0	0	0.00	4.11	0
1415621	OC1310839836	5.03	2 3-	4/0 AL URD PRI	1314	1204	924	352	0	0	0	0.00	4.11	0
1415622	1415621	5.05	2 3-	1/0 URD PRI AL	1310	1200	922	352	0	0	0	0.00	4.11	0
1415612	1415388	5.13	23 3-	500 MCM URD PRI	1311	1203	925	353	0	0	0	0.00	4.11	0
1415613	1415612	5.13	20 3-	1/0 URD PRI AL	1310	1202	925	353	0	0	0	0.00	4.11	0
OC1179294980	1415613	5.13	20 3-	_DefaultBayEqui	1310	1202	925	353	0	0	0	0.00	4.11	0
1415374	OC1179294980	5.42	20 3-	336.4 ACSR	1267	1162	890	159	0	0	0	0.00	4.11	0
1415617	1415374	5.42	2 3-	4/0 AL URD PRI	1267	1162	890	349	0	0	0	0.00	4.11	0
OC358487544	1415617	5.42	2 3-	_DefaultBayEqui	1267	1162	890	349	0	0	0	0.00	4.11	0
1415618	OC358487544	5.77	2 3-	4/0 AL URD PRI	1221	1115	856	342	0	0	0	0.00	4.11	0
1415619	1415618	5.89	0 3-	1/0 URD PRI AL	1197	1095	843	339	0	0	0	0.00	4.11	0
1415375	1415374	5.45	18 3-	336.4 ACSR	1262	1157	886	159	0	0	0	0.00	4.11	0
1415376	1415375	5.53	15 3-	336.4 ACSR	1250	1147	877	159	0	0	0	0.00	4.11	0
1415564	1415376	5.53	12 3-	1/0 URD PRI AL	1250	1146	877	347	0	0	0	0.00	4.11	0
OC1874110221	1415564	5.53	12 3-	_DefaultBayEqui	1250	1146	877	347	0	0	0	0.00	4.11	0
1415562	OC1874110221	5.57	12 3-	1/0 URD PRI AL	1244	1141	873	346	0	0	0	0.00	4.11	0
1415393	1415376	5.57	3 3-	336.4 ACSR	1246	1142	873	159	0	0	0	0.00	4.11	0
1415616	1415393	5.57	3 3-	1/0 URD PRI AL	1245	1142	873	347	0	0	0	0.00	4.11	0
OC1130261872	1415616	5.57	3 3-	_DefaultBayEqui	1245	1142	873	347	0	0	0	0.00	4.11	0
1415563	OC1130261872	5.58	3 3-	1/0 URD PRI AL	1243	1140	872	346	0	0	0	0.00	4.11	0
1415614	1415375	5.46	3 3-	1/0 URD PRI AL	1261	1157	886	348	0	0	0	0.00	4.11	0
OC1362282729	1415614	5.46	3 3-	_DefaultBayEqui	1261	1157	886	348	0	0	0	0.00	4.11	0
1415615	OC1362282729	5.48	3 3-	1/0 URD PRI AL	1257	1153	883	348	0	0	0	0.00	4.11	0
CA100050	1515180	3.28	0 3-	Capacitor	1852	1689	1326	166	0	-14	0	0.00	3.27	0
1515145	1515179	3.97	16 1-	2 ACSR	0	0	1070	161	88	12	7	0.14	3.39	7
1515162	1515161	2.83	1 3-	1/0 ACSR	2044	1871	1486	168	7	0	0	0.00	2.99	0
1515163	1515162	2.87	0 3-	4/0 ACSR	2024	1852	1469	167	0	0	0	0.00	2.99	0
SW100786-B	1515163	2.87	0 3-	Open	2024	1852	1469	167	0	0	0	0.00	2.99	0
CKT 104 total losses:		\$9,012												

SUB 4, CKT 114

DAVS_114	DAVIS	0.00	158 3-	SBS_99_UNK	5790	5968	6021	176	1089	48	0	0.00	0.00	0
1515194	DAVS_114	0.02	158 3-	336.4 ACSR	5745	5896	5944	176	1089	48	9	0.00	0.00	4
SW101657-B	1515194	0.02	158 3-	Closed	5745	5896	5944	176	1089	48	0	0.00	0.00	0
SW101657-A	SW101657-B	0.02	158 3-	Closed	5745	5896	5944	176	1089	48	0	0.00	0.00	0
1515195	SW101657-A	0.06	158 3-	336.4 ACSR	5635	5729	5763	176	1089	48	9	0.01	0.02	9
1515196	1515195	0.16	158 3-	4/0 ACSR	5321	5312	5277	176	1089	48	14	0.05	0.06	36
1515197	1515196	1.08	154 3-	1/0 ACSR	3193	2991	2655	171	1051	46	20	0.59	0.66	453
1515198	1515197	2.90	48 3-	1/0 ACSR	1685	1588	1287	163	434	19	8	0.35	1.01	91
1415389	1515198	2.91	2 3-	4/0 ACSR	1680	1583	1283	163	19	0	0	0.00	1.01	0
1415390	1415389	3.43	2 3-	336.4 ACSR	1559	1465	1170	162	19	0	0	0.00	1.01	0
SW101660-B	1415390	3.43	0 3-	Open	1559	1465	1170	162	0	0	0	0.00	1.01	0
1415549	1515198	2.91	9 1-	4/0 ACSR	0	0	1285	163	56	7	2	0.00	1.01	0
1415681	1415549	2.91	9 1-	1/0 URD PRI AL	0	0	1283	376	56	7	4	0.00	1.01	0
OC101701	1415681	2.91	9 1-	REC_99_UNK	0	0	1283	376	56	7	0	0.00	1.01	0
1415682	OC101701	2.92	9 1-	1/0 URD PRI AL	0	0	1280	376	56	7	4	0.00	1.01	0
1516150	1515197	1.93	55 1-	1/0 URD PRI AL	0	0	1799	394	236	31	19	0.72	1.37	136
1516079	1516150	1.96	45 1-	4 ACSR	0	0	1766	165	168	22	16	0.03	1.40	4
OC101702	1516079	1.96	45 1-	REC_35_UNK	0	0	1766	165	168	22	65	0.00	1.40	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1516080	OC101702	2.62	45 1-	4 ACSR	0	0	1237	158	168	22	16	0.54	1.95	70
1516125	1516080	3.19	15 1-	1/0 URD PRI AL	0	0	1057	338	75	10	6	0.16	2.11	10
1516082	1516125	3.46	11 1-	4 ACSR	0	0	955	152	59	8	6	0.08	2.18	3
1516126	1516082	3.91	3 1-	1/0 URD PRI AL	0	0	864	314	34	4	3	0.03	2.21	0
SW101880-B	1516126	3.91	0 1-	Open	0	0	864	314	0	0	0	0.00	2.21	0
1516081	1516080	2.71	8 1-	4 ACSR	0	0	1189	158	27	3	3	0.01	1.95	0
1516124	1516081	2.73	2 1-	1/0 URD PRI AL	0	0	1184	352	4	0	0	0.00	1.95	0
SW101880-A	1516124	2.73	0 1-	Open	0	0	1184	352	0	0	0	0.00	1.95	0
CKT 114 total losses:		\$816												
SUB 4, CKT 124														
DAVS_124	DAVIS	0.00	665 3-	SBS_99_UNK	5790	5968	6021	176	3605	159	0	0.00	0.00	0
1515186	DAVS_124	0.02	665 3-	4/0 ACSR	5736	5883	5932	176	3605	159	47	0.02	0.02	64
SW101705-B	1515186	0.02	664 3-	Closed	5736	5883	5932	176	3604	159	0	0.00	0.02	0
SW101705-A	SW101705-B	0.02	664 3-	Closed	5736	5883	5932	176	3604	159	0	0.00	0.02	0
1515187	SW101705-A	0.13	664 3-	4/0 ACSR	5376	5380	5366	176	3604	159	47	0.16	0.18	443
1515259	1515187	0.16	5 1-	4 ACSR	0	0	5153	175	48	6	5	0.01	0.19	0
OC101836	1515259	0.16	5 1-	REC_50_UNK	0	0	5153	175	48	6	13	0.00	0.19	0
1515260	OC101836	1.01	5 1-	4 ACSR	0	0	2134	166	48	6	5	0.12	0.31	3
1515199	1515187	0.89	651 3-	4/0 ACSR	3729	3562	3133	174	3511	155	46	0.01	1.18	2804
1515189	1515199	1.19	536 3-	1/0 ACSR	3235	3041	2627	172	2890	129	56	0.61	1.80	1543
SW101708-B	1515189	1.19	535 3-	Closed	3235	3041	2627	172	2871	128	0	0.00	1.80	0
SW101708-A	SW101708-B	1.19	535 3-	Closed	3235	3041	2627	172	2871	128	0	0.00	1.80	0
1515190	SW101708-A	2.20	535 3-	1/0 ACSR	2181	2027	1672	167	2871	128	56	1.99	3.79	4964
1516083	1515190	2.56	506 3-	1/0 ACSR	1949	1816	1478	165	2578	117	51	0.65	4.44	1529
1516084	1516083	3.93	491 3-	1/0 ACSR	1375	1291	1021	159	2399	109	48	2.25	6.68	4960
REG27	1516084	3.93	463 3-	219	1375	1291	1021	159	2264	105	48	-6.68	0.00	0
1616098	REG27	4.03	463 3-	1/0 ACSR	1345	1264	998	159	2264	99	43	0.15	0.15	318
SW101711-B	1616098	4.03	463 3-	Closed	1345	1264	998	159	2262	99	0	0.00	0.15	0
SW101711-A	SW101711-B	4.03	463 3-	Closed	1345	1264	998	159	2262	99	0	0.00	0.15	0
1616099	SW101711-A	4.07	463 3-	1/0 ACSR	1334	1254	989	159	2262	99	43	0.06	0.21	117
1616101	1616099	4.44	270 3-	4/0 ACSR	1262	1184	927	157	1335	59	17	0.14	0.35	200
1516148	1616101	4.89	267 3-	4/0 ACSR	1185	1109	862	156	1326	59	17	0.25	0.60	242
SW101717-B	1516148	4.89	260 3-	Closed	1185	1109	862	156	1304	58	0	0.00	0.60	0
SW101717-A	SW101717-B	4.89	260 3-	Closed	1185	1109	862	156	1304	58	0	0.00	0.60	0
1516085	SW101717-A	4.98	260 3-	4/0 ACSR	1171	1096	850	156	1304	58	17	0.05	0.65	46
1516086	1516085	5.20	256 3-	4/0 ACSR	1136	1062	821	155	1290	57	17	0.12	0.77	116
1516113	1516086	5.45	5 1-	2 ACSR	0	0	778	154	22	2	2	0.02	0.78	0
OC101841	1516113	5.45	3 1-	REC_35_UNK	0	0	778	154	12	1	5	0.00	0.78	0
1616172	OC101841	6.23	3 1-	2 ACSR	0	0	670	149	12	1	1	0.02	0.80	0
1516087	1516086	5.49	246 3-	4/0 ACSR	1094	1022	787	154	1238	55	16	0.15	0.92	137
1516094	1516087	5.83	116 3-	1/0 ACSR	1035	968	744	153	728	32	14	0.18	1.10	108
OC101849	1516094	5.83	112 3-	REC_50_UNK	1035	968	744	153	702	31	63	0.00	1.10	0
1516095	OC101849	6.84	112 3-	1/0 ACSR	888	834	637	149	702	31	14	0.50	1.60	280
1516121	1516095	7.26	17 1-	2 ACSR	0	0	594	146	103	14	8	0.14	1.73	10
OC101850	1516121	7.26	12 1-	REC_15_UNK	0	0	594	146	53	7	48	0.00	1.73	0
1516122	OC101850	7.33	12 1-	2 ACSR	0	0	588	146	53	7	4	0.01	1.75	0
1516115	1516122	7.57	11 1-	6 ACWC	0	0	560	144	50	6	5	0.07	1.82	3
1516116	1516115	7.74	9 1-	4 ACSR	0	0	542	142	43	5	4	0.04	1.86	1
1516117	1516116	8.31	6 1-	6 ACWC	0	0	490	138	37	4	4	0.08	1.94	2
1516123	1516117	8.41	1 1-	4 ACSR	0	0	481	137	9	1	1	0.00	1.94	0
1516096	1516095	7.22	76 3-	1/0 ACSR	842	792	605	147	505	22	10	0.15	1.74	61

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1516097	1516096	7.93	52 3-	1/0 ACSR	769	724	552	144	283	12	6	0.12	1.86	24
1516107	1516097	7.94	23 1-	1/0 ACSR	0	0	551	144	114	15	7	0.00	1.86	0
OC101852	1516107	7.94	23 1-	REC_35_UNK	0	0	551	144	114	15	44	0.00	1.86	0
1516108	OC101852	9.30	23 1-	1/0 ACSR	0	0	472	139	114	15	7	0.38	2.24	31
1516110	1516108	9.31	14 1-	1/0 ACSR	0	0	472	139	65	8	4	0.00	2.24	0
OC101853	1516110	9.31	14 1-	REC_35_UNK	0	0	472	139	65	8	25	0.00	2.24	0
1516111	OC101853	10.16	14 1-	1/0 ACSR	0	0	433	136	65	8	4	0.10	2.35	4
1516112	1516111	10.71	5 1-	4 ACSR	0	0	400	132	18	2	2	0.03	2.37	0
1516109	1516108	9.34	2 1-	2 ACSR	0	0	470	139	13	1	1	0.00	2.24	0
1516106	1516097	7.94	9 1-	4 ACSR	0	0	551	144	44	5	4	0.00	1.86	0
1516076	1516096	7.22	22 1-	2 ACSR	0	0	604	147	212	28	16	0.01	1.75	0
OC101851	1516076	7.22	22 1-	REC_35_UNK	0	0	604	147	212	28	82	0.00	1.75	0
1516077	OC101851	7.50	22 1-	2 ACSR	0	0	578	145	212	28	16	0.20	1.94	31
1516078	1516077	8.29	13 1-	1/0 ACSR	0	0	524	142	125	16	7	0.14	2.09	10
1516088	1516087	5.72	125 3-	4/0 ACSR	1063	993	762	154	475	21	6	0.04	0.96	15
1516089	1516088	5.72	118 3-	336.4 ACSR	1063	992	762	154	446	20	4	0.00	0.96	0
OC101844	1516089	5.72	118 3-	70-L	1063	992	762	154	446	20	29	0.00	0.96	0
1516090	OC101844	6.25	118 3-	336.4 ACSR	1012	943	720	153	446	20	4	0.06	1.02	20
1516091	1516090	6.73	108 3-	4/0 ACSR	958	892	677	151	422	18	6	0.08	1.11	25
1516073	1516091	6.75	20 1-	4 ACSR	0	0	674	151	61	8	6	0.01	1.11	0
OC101845	1516073	6.75	20 1-	REC_35_UNK	0	0	674	151	61	8	23	0.00	1.11	0
1616168	OC101845	8.46	20 1-	4 ACSR	0	0	482	137	61	8	6	0.55	1.66	27
1616084	1616168	9.34	10 1-	6 ACWC	0	0	419	131	45	6	4	0.13	1.79	4
1616085	1616084	9.51	3 1-	4 ACSR	0	0	408	130	6	0	1	0.00	1.80	0
1516092	1516091	7.77	76 3-	4/0 ACSR	859	798	600	148	326	14	4	0.12	1.23	27
1616103	1516092	8.03	2 3-	4/0 ACSR	837	777	583	148	4	0	0	0.00	1.23	0
1516093	1616103	8.04	0 3-	336.4 ACSR	837	777	583	148	0	0	0	0.00	1.23	0
SW120799-A	1516093	8.04	0 3-	Open	837	777	583	148	0	0	0	0.00	1.23	0
1516075	1616103	8.22	2 1-	4 ACSR	0	0	563	146	4	0	0	0.00	1.23	0
1616137	1516092	7.80	51 1-	1/0 ACSR	0	0	597	148	228	30	13	0.02	1.25	4
1616140	1616137	7.94	51 1-	2 ACSR	0	0	584	147	228	30	17	0.13	1.38	25
OC101846	1616140	7.94	51 1-	REC_35_UNK	0	0	584	147	227	30	88	0.00	1.38	0
1616141	OC101846	8.80	51 1-	2 ACSR	0	0	515	142	227	30	17	0.63	2.01	102
1616142	1616141	8.90	25 1-	4 ACSR	0	0	506	142	123	16	12	0.05	2.06	5
1616138	1616142	8.96	13 1-	2 ACSR	0	0	502	141	57	7	4	0.01	2.07	0
OC101860	1616138	8.96	13 1-	REC_25_UNK	0	0	502	141	57	7	31	0.00	2.07	0
1616139	OC101860	9.60	13 1-	2 ACSR	0	0	462	138	57	7	4	0.08	2.15	2
1516120	1516085	5.57	4 1-	4 ACSR	0	0	725	151	14	1	1	0.03	0.67	0
CA100053	1616101	4.44	0 3-	Capacitor	1262	1184	927	157	0	-14	0	0.00	0.35	0
1616100	1616099	4.12	193 3-	4/0 ACSR	1324	1244	980	158	925	41	12	0.02	0.23	13
SW101714-B	1616100	4.12	193 3-	Closed	1324	1244	980	158	925	41	0	0.00	0.23	0
SW101714-A	SW101714-B	4.12	193 3-	Closed	1324	1244	980	158	925	41	0	0.00	0.23	0
1616104	SW101714-A	4.26	193 3-	4/0 ACSR	1297	1218	957	158	925	41	12	0.05	0.28	36
1616105	1616104	4.30	193 3-	4 ACSR	1278	1201	943	158	925	41	30	0.07	0.36	60
OC101859	1616105	4.30	193 3-	REC_50_UNK	1278	1201	943	158	925	41	83	0.00	0.36	0
1616106	OC101859	4.60	193 3-	4 ACSR	1162	1101	862	155	925	41	30	0.43	0.79	336
1616107	1616106	4.72	83 3-	4 ACSR	1117	1062	831	154	471	21	15	0.10	0.89	44
SW101723-B	1616107	4.72	83 3-	Closed	1117	1062	831	154	470	21	0	0.00	0.89	0
SW101723-A	SW101723-B	4.72	83 3-	Closed	1117	1062	831	154	470	21	0	0.00	0.89	0
1616108	SW101723-A	6.17	83 3-	4 ACSR	761	741	581	142	470	21	15	0.80	1.69	263
SW101726-B	1616108	6.17	45 3-	Closed	761	741	581	142	156	7	0	0.00	1.69	0
SW101726-A	SW101726-B	6.17	45 3-	Closed	761	741	581	142	156	7	0	0.00	1.69	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1616109	SW101726-A	6.44	45 3-	4 ACSR	717	700	550	140	156	7	5	0.07	1.76	10
1616096	1616109	6.55	40 2-	4 ACSR	0	684	537	139	148	10	7	0.04	1.80	5
OC101856	1616096	6.55	32 2-	REC_35_UNK	0	684	537	139	106	7	21	0.00	1.80	0
1616097	OC101856	8.00	32 2-	4 ACSR	0	526	417	129	106	7	5	0.22	2.02	14
1615061	1616097	8.15	2 1-	4 ACSR	0	0	408	128	2	0	0	0.00	2.02	0
1616143	1616106	4.64	68 1-	4 ACSR	0	0	852	154	289	39	28	0.07	0.86	18
OC101854	1616143	4.64	68 1-	REC_35_UNK	0	0	852	154	289	39	111	0.00	0.86	0
1616144	OC101854	4.84	68 1-	4 ACSR	0	0	803	153	289	39	28	0.33	1.19	79
1616145	1616144	4.91	57 1-	2 ACSR	0	0	792	152	249	33	19	0.07	1.26	14
1616146	1616145	6.77	56 1-	4 ACSR	0	0	517	137	243	32	23	1.55	2.81	235
1616147	1616146	6.99	11 1-	6 ACWC	0	0	496	136	33	4	3	0.04	2.85	0
1616136	1616147	7.00	8 1-	4 ACSR	0	0	496	136	27	3	3	0.00	2.85	0
SW100849-B	1616104	4.26	0 3-	Open	1297	1218	957	158	0	0	0	0.00	0.28	0
1516119	1516083	2.81	14 1-	1/0 ACSR	0	0	1369	164	166	23	10	0.12	4.55	15
1516137	1516119	2.95	12 1-	1/0 URD PRI AL	0	0	1315	380	153	21	12	0.10	4.65	13
1516133	1516137	3.16	1 1-	1/0 URD PRI AL	0	0	1241	371	1	0	0	0.00	4.65	0
SW101884-A	1516133	3.16	0 1-	Open	0	0	1241	371	0	0	0	0.00	4.65	0
1516132	1516137	3.32	4 1-	1/0 URD PRI AL	0	0	1192	366	66	9	5	0.05	4.70	2
SW101884-B	1516132	3.32	0 1-	Open	0	0	1192	366	0	0	0	0.00	4.70	0
1516138	1516137	2.96	7 1-	1/0 URD PRI AL	0	0	1311	379	86	11	7	0.00	4.65	0
1516140	1516138	3.22	2 1-	1/0 URD PRI AL	0	0	1222	369	15	2	1	0.01	4.66	0
SW101882-B	1516140	3.22	0 1-	Open	0	0	1222	369	0	0	0	0.00	4.66	0
1516139	1516138	3.53	5 1-	1/0 URD PRI AL	0	0	1129	358	71	9	6	0.09	4.74	4
SW101883-B	1516139	3.53	0 1-	Open	0	0	1129	358	0	0	0	0.00	4.74	0
1516118	1515190	2.22	8 1-	1/0 ACSR	0	0	1664	167	84	11	5	0.00	3.79	0
1516134	1516118	2.25	8 1-	1/0 URD PRI AL	0	0	1642	401	84	11	7	0.01	3.80	0
1516136	1516134	2.93	7 1-	1/0 URD PRI AL	0	0	1330	374	68	9	6	0.10	3.90	4
SW101883-A	1516136	2.93	0 1-	Open	0	0	1330	374	0	0	0	0.00	3.90	0
1516135	1516134	2.36	1 1-	1/0 URD PRI AL	0	0	1586	397	16	2	1	0.00	3.81	0
SW101882-A	1516135	2.36	0 1-	Open	0	0	1586	397	0	0	0	0.00	3.81	0
1515200	1515199	1.06	93 3-	4/0 ACSR	3482	3302	2874	173	501	22	7	0.04	1.22	13
OC101839	1515200	1.06	92 3-	REC_70_UNK	3482	3302	2874	173	496	22	32	0.00	1.22	0
1515201	OC101839	1.49	92 3-	4/0 ACSR	2985	2795	2355	172	496	22	7	0.09	1.31	31
1515152	1515201	1.55	23 1-	2 ACSR	0	0	2274	171	108	14	8	0.03	1.33	3
OC101840	1515152	1.55	23 1-	REC_35_UNK	0	0	2274	171	108	14	8	0.00	1.33	0
1515153	OC101840	1.60	23 1-	2 ACSR	0	0	2213	171	108	14	8	0.01	1.35	0
1515144	1515153	2.44	7 1-	4 ACSR	0	0	1375	162	28	3	3	0.07	1.42	0
1515202	1515201	2.42	62 3-	4/0 ACSR	2264	2084	1681	169	356	16	5	0.10	1.41	22
1515277	1515202	3.34	16 1-	1/0 URD PRI AL	0	0	1288	375	100	13	8	0.19	1.60	11
SW101881-B	1515277	3.34	0 1-	Open	0	0	1288	375	0	0	0	0.00	1.60	0
1515188	1515202	2.85	10 3-	4/0 ACSR	2036	1865	1485	168	57	2	1	0.01	1.42	0
1515151	1515188	3.20	8 1-	4 ACSR	0	0	1283	164	46	6	4	0.05	1.46	1
SW101720-B	1515188	2.85	0 3-	Open	2036	1865	1485	168	0	0	0	0.00	1.42	0

CKT 124 total losses: \$19,553

SUB	LINE SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS	
4, CKT 134	DAVS_134														
	DAVS_134	0.00	365 3-	SBS_99_UNK	5790	5968	6021	176	2431	107	0	0.00	0.00	0	
	1515169	DAVS_134	0.01	365 3-	4/0 ACSR	5759	5920	5970	176	2431	107	32	0.01	0.01	16
	1515274	1515169	0.06	365 3-	4/0 URD PRI AL	5666	5799	5836	466	2431	107	48	0.05	0.06	113
	1515170	1515274	0.53	365 3-	4/0 ACSR	4404	4316	3946	175	2430	107	32	0.38	0.44	811
	1515171	1515170	0.58	329 3-	4/0 ACSR	4312	4212	3827	174	2183	96	28	0.03	0.47	64
	1515172	1515171	0.88	245 3-	4/0 ACSR	3773	3622	3175	173	1661	73	22	0.14	0.61	219

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 5 FAYETTE1			2067		6126	6247	6308	176	12076					
SUB 5, CKT 144														
FAY1_144	FAYETTE1	0.00	693 3-	SBS_99_UNK	6126	6247	6308	176	4309	192	0	0.00	0.00	0
1415596	FAY1_144	0.15	693 3-	350 MCM URD PRI	5926	6160	6078	466	4309	192	60	0.18	0.18	654
1415460	1415596	0.49	693 3-	336.4 ACSR	5053	5053	4750	175	4303	192	36	0.41	0.59	1220
1415465	1415460	0.80	543 3-	336.4 ACSR	4464	4368	3975	175	3513	157	30	0.29	0.88	699
1415472	1415465	0.87	407 3-	336.4 ACSR	4337	4225	3819	175	2590	116	22	0.05	0.94	99
1415439	1415472	0.93	200 3-	4/0 ACSR	4226	4102	3680	174	1117	50	15	0.02	0.96	18
SW101488-A	1415439	0.93	164 3-	Closed	4226	4102	3680	174	889	39	0	0.00	0.96	0
SW101488-B	SW101488-A	0.93	164 3-	Closed	4226	4102	3680	174	889	39	0	0.00	0.96	0
1415474	SW101488-B	0.98	164 3-	4/0 ACSR	4116	3983	3547	174	889	39	12	0.02	0.98	14
1415532	1415474	1.12	58 1-	1/0 ACSR	0	0	3242	174	328	44	19	0.08	1.07	17
1415533	1415532	1.12	18 1-	4 ACSR	0	0	3221	173	114	15	11	0.00	1.07	0
1415534	1415533	1.28	14 1-	1/0 ACSR	0	0	2924	173	93	12	5	0.02	1.09	0
SW101570-A	1415534	1.28	0 1-	Open	0	0	2924	173	0	0	0	0.00	1.09	0
1415475	1415474	1.04	96 3-	4/0 ACSR	4020	3879	3432	174	512	23	7	0.01	0.99	4
1415427	1415475	1.20	85 3-	1/0 ACSR	3698	3529	3082	173	442	19	9	0.04	1.04	13
1415428	1415427	1.23	25 3-	1/0 ACSR	3645	3472	3026	173	149	6	3	0.00	1.04	0
1415558	1415428	1.25	20 3-	1/0 URD PRI AL	3616	3446	3002	444	113	5	3	0.00	1.04	0
1415545	1415558	1.33	20 1-	1/0 ACSR	0	0	2863	173	113	15	7	0.02	1.06	1
1415651	1415545	1.34	4 1-	1/0 URD PRI AL	0	0	2854	441	23	3	2	0.00	1.06	0
SW101569-B	1415651	1.34	0 1-	Open	0	0	2854	441	0	0	0	0.00	1.06	0
1415546	1415545	1.35	4 1-	1/0 ACSR	0	0	2825	172	18	2	1	0.00	1.06	0
SW101570-B	1415546	1.35	0 1-	Open	0	0	2825	172	0	0	0	0.00	1.06	0
1415429	1415558	1.29	0 3-	1/0 ACSR	3546	3372	2930	173	0	0	0	0.00	1.04	0
SW101434-A	1415429	1.29	0 3-	Open	3546	3372	2930	173	0	0	0	0.00	1.04	0
1415650	1415427	1.34	20 1-	1/0 URD PRI AL	0	0	2864	438	100	13	8	0.03	1.07	2
SW101569-A	1415650	1.34	0 1-	Open	0	0	2864	438	0	0	0	0.00	1.07	0
1415473	1415472	1.11	207 3-	336.4 ACSR	3976	3828	3394	174	1471	66	12	0.10	1.03	96
1415370	1415473	1.15	200 3-	336.4 ACSR	3924	3771	3334	174	1323	59	11	0.01	1.05	13
1415371	1415370	1.28	161 3-	336.4 ACSR	3746	3580	3127	174	1008	45	9	0.04	1.09	27
1415372	1415371	1.41	156 3-	4/0 ACSR	3566	3392	2927	173	977	44	13	0.05	1.13	35
1415652	1415372	1.41	21 1-	1/0 URD PRI AL	0	0	2921	466	135	18	11	0.00	1.14	0
1415653	1415652	1.61	21 1-	1/0 URD PRI AL	0	0	2655	436	135	18	11	0.06	1.19	5
1415373	1415372	1.46	126 3-	4/0 ACSR	3494	3317	2849	173	769	34	10	0.02	1.15	10
1415552	1415373	1.64	35 1-	1/0 URD PRI AL	0	0	2617	436	159	21	13	0.06	1.21	6
1415415	1415373	1.56	91 3-	4/0 ACSR	3366	3185	2714	173	610	27	8	0.02	1.18	11
1415438	1415415	1.59	0 3-	1/0 ACSR	3316	3132	2665	173	0	0	0	0.00	1.18	0
SW101434-B	1415438	1.59	0 3-	Open	3316	3132	2665	173	0	0	0	0.00	1.18	0
1415416	1415415	1.94	83 3-	1/0 ACSR	2853	2654	2229	171	568	25	11	0.14	1.31	58
1415437	1415416	1.96	54 3-	1/0 ACSR	2836	2638	2214	171	375	16	7	0.00	1.32	1
OC101491	1415437	1.96	49 3-	REC_50_UNK	2836	2638	2214	171	347	15	31	0.00	1.32	0
1415597	OC101491	1.97	49 3-	1/0 URD PRI AL	2824	2627	2206	428	347	15	9	0.00	1.32	1
SW101442-A	1415597	1.97	49 3-	Closed	2824	2627	2206	428	347	15	0	0.00	1.32	0
SW101442-B	SW101442-A	1.97	49 3-	Closed	2824	2627	2206	428	347	15	0	0.00	1.32	0
1415598	SW101442-B	2.06	49 3-	1/0 URD PRI AL	2747	2557	2150	425	347	15	9	0.03	1.35	9
1416021	1415598	2.11	48 3-	1/0 ACSR	2695	2504	2103	170	347	15	7	0.01	1.36	4
1416031	1416021	2.32	46 3-	1/0 URD PRI AL	2522	2347	1977	415	335	15	9	0.06	1.43	19
1416033	1416031	2.50	1 3-	1/0 URD PRI AL	2385	2223	1876	408	47	2	1	0.01	1.44	0
1416034	1416033	2.54	1 1-	1/0 URD PRI AL	0	0	1848	406	47	6	4	0.01	1.44	0
SW101440-A	1416034	2.54	1 1-	Closed	0	0	1848	406	47	6	0	0.00	1.44	0
SW101440-B	SW101440-A	2.54	1 1-	Closed	0	0	1848	406	47	6	0	0.00	1.44	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1416035	SW101440-B	2.60	1 1-	1/0 URD PRI AL	0	0	1808	404	47	6	4	0.01	1.45	0
1416032	1416031	2.38	45 3-	1/0 URD PRI AL	2475	2304	1942	413	288	13	8	0.02	1.44	4
1416027	1416032	2.39	15 1-	1/0 URD PRI AL	0	0	1935	412	82	11	7	0.00	1.45	0
1416019	1416027	2.60	15 1-	4 ACSR	0	0	1706	166	82	11	8	0.10	1.54	7
1416028	1416019	2.76	14 1-	1/0 URD PRI AL	0	0	1614	392	70	9	6	0.04	1.59	3
1416020	1416028	2.79	12 1-	4 ACSR	0	0	1588	165	65	8	6	0.01	1.60	0
1416026	1416020	3.14	3 1-	1/0 URD PRI AL	0	0	1415	377	21	2	2	0.02	1.62	0
SW101575-A	1416026	3.14	0 1-	Open	0	0	1415	377	0	0	0	0.00	1.62	0
1416029	1416020	3.31	9 1-	1/0 URD PRI AL	0	0	1341	370	45	6	4	0.08	1.68	3
1416025	1416029	3.74	5 1-	1/0 URD PRI AL	0	0	1182	355	31	4	3	0.03	1.71	0
1416024	1416029	3.32	0 1-	1/0 URD PRI AL	0	0	1338	370	0	0	0	0.00	1.68	0
SW101575-B	1416024	3.32	0 1-	Open	0	0	1338	370	0	0	0	0.00	1.68	0
1416036	1416032	2.45	30 1-	1/0 URD PRI AL	0	0	1894	410	206	27	16	0.06	1.50	10
1416023	1416036	2.90	8 1-	4 ACSR	0	0	1472	163	58	7	6	0.08	1.58	3
1416022	1416036	3.18	22 1-	4 ACSR	0	0	1283	161	148	20	14	0.33	1.83	28
1416030	1416021	2.17	1 1-	1/0 URD PRI AL	0	0	2051	420	0	0	0	0.00	1.36	0
1415436	1415416	1.96	0 3-	1/0 ACSR	2840	2642	2218	171	0	0	0	0.00	1.31	0
SW101437-B	1415436	1.96	0 3-	Open	2840	2642	2218	171	0	0	0	0.00	1.31	0
1415543	1415370	1.20	34 1-	4 ACSR	0	0	3182	173	278	37	27	0.09	1.13	20
1415544	1415543	1.32	25 1-	1/0 ACSR	0	0	2960	173	249	33	15	0.04	1.18	6
1415635	1415544	1.33	2 1-	1/0 URD PRI AL	0	0	2943	442	14	1	1	0.00	1.18	0
1415542	1415473	1.11	1 1-	4 ACSR	0	0	3376	174	58	7	6	0.00	1.04	0
1415999	1415542	1.11	1 1-	Consumer	0	0	3376	174	58	7	0	0.00	1.04	0
1415466	1415465	0.99	131 3-	4/0 ACSR	4083	3948	3502	174	751	33	10	0.06	0.94	31
1415468	1415466	1.14	92 3-	4/0 ACSR	3829	3675	3208	174	562	25	7	0.03	0.97	12
1415471	1415468	1.20	31 3-	4/0 ACSR	3724	3563	3089	173	169	7	2	0.00	0.98	0
1415527	1415471	1.32	21 1-	4 ACSR	0	0	2796	172	109	14	10	0.04	1.02	3
1415469	1415468	1.33	39 3-	4/0 ACSR	3541	3371	2889	173	272	12	4	0.01	0.98	2
1415573	1415469	1.35	2 1-	1/0 URD PRI AL	0	0	2858	443	11	1	1	0.00	0.98	0
SW101573-B	1415573	1.35	0 1-	Open	0	0	2858	443	0	0	0	0.00	0.98	0
1415470	1415469	1.35	0 3-	1/0 ACSR	3506	3334	2854	173	0	0	0	0.00	0.98	0
SW101437-A	1415470	1.35	0 3-	Open	3506	3334	2854	173	0	0	0	0.00	0.98	0
1415467	1415466	1.00	27 3-	1/0 ACSR	4062	3925	3479	174	106	4	2	0.00	0.94	0
1415634	1415467	1.19	20 1-	1/0 URD PRI AL	0	0	3132	442	82	11	7	0.03	0.97	2
SW101574-B	1415634	1.19	0 1-	Open	0	0	3132	442	0	0	0	0.00	0.97	0
1415646	1415467	1.04	3 1-	1/0 URD PRI AL	0	0	3390	449	15	1	1	0.00	0.94	0
SW101571-A	1415646	1.04	0 1-	Open	0	0	3390	449	0	0	0	0.00	0.94	0
1415588	1415467	1.10	4 1-	1/0 URD PRI AL	0	0	3286	446	9	1	1	0.00	0.94	0
SW101572-A	1415588	1.10	0 1-	Open	0	0	3286	446	0	0	0	0.00	0.94	0
1415461	1415460	0.68	142 3-	4/0 ACSR	4585	4512	4108	175	737	33	10	0.06	0.65	31
1415645	1415461	0.79	4 1-	1/0 URD PRI AL	0	0	3830	450	25	3	2	0.01	0.66	0
SW101428-B	1415645	0.79	0 1-	Open	0	0	3830	450	0	0	0	0.00	0.66	0
1415587	1415461	0.70	3 1-	1/0 URD PRI AL	0	0	4076	456	16	2	1	0.00	0.65	0
SW101430-B	1415587	0.70	0 1-	Open	0	0	4076	456	0	0	0	0.00	0.65	0
1415462	1415461	0.84	121 3-	4/0 ACSR	4258	4146	3695	174	641	28	8	0.04	0.69	16
1415464	1415462	0.85	75 3-	1/0 ACSR	4236	4121	3670	174	409	18	8	0.00	0.69	0
1415629	1415464	1.02	5 1-	1/0 URD PRI AL	0	0	3310	443	21	2	2	0.01	0.70	0
SW101574-A	1415629	1.02	0 1-	Open	0	0	3310	443	0	0	0	0.00	0.70	0
1415567	1415464	1.08	41 1-	1/0 URD PRI AL	0	0	3199	440	263	35	21	0.24	0.93	53
1415586	1415567	1.30	14 1-	1/0 URD PRI AL	0	0	2817	430	108	14	9	0.05	0.98	3
SW101573-A	1415586	1.30	0 1-	Open	0	0	2817	430	0	0	0	0.00	0.98	0
1415572	1415567	1.25	22 1-	1/0 URD PRI AL	0	0	2896	432	117	15	9	0.04	0.97	3

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS	
SW101572-B	1415572	1.25	0 1-		Open	0	0	2896	432	0	0	0.00	0.97	0	
1415644	1415464	1.15	29 1-	1/0 URD PRI AL	0	0	3066	437	125	16	10	0.08	0.77	6	
SW101571-B	1415644	1.15	0 1-		Open	0	0	3066	437	0	0	0.00	0.77	0	
1415463	1415462	0.88	11 3-		4/0 ACSR	4167	4044	3584	174	56	2	1	0.00	0.69	0
1415628	1415463	0.93	2 1-	1/0 URD PRI AL	0	0	3486	449	8	1	1	0.00	0.69	0	
SW101426-B	1415628	0.93	0 1-		Open	0	0	3486	449	0	0	0.00	0.69	0	
1415566	1415463	0.94	7 1-	1/0 URD PRI AL	0	0	3466	449	41	5	3	0.01	0.69	0	
SW101427-B	1415566	0.94	0 1-		Open	0	0	3466	449	0	0	0.00	0.69	0	
1415643	1415463	1.02	2 1-	1/0 URD PRI AL	0	0	3310	445	7	0	1	0.00	0.69	0	
SW101425-B	1415643	1.02	0 1-		Open	0	0	3310	445	0	0	0.00	0.69	0	
1415627	1415461	0.77	7 1-	1/0 URD PRI AL	0	0	3898	452	34	4	3	0.01	0.66	0	
SW101429-B	1415627	0.77	0 1-		Open	0	0	3898	452	0	0	0.00	0.66	0	
CKT 144 total losses:		\$3,282													
SUB 5, CKT 164															
FAY1_164	FAYETTE1	0.00	851 3-		SBS_99_UNK	6126	6247	6308	176	4725	211	0	0.00	0.00	0
1415623	FAY1_164	0.10	851 3-	500 MCM URD PRI	6011	6113	6202	467	4725	211	55	0.12	0.12	472	
1415391	1415623	0.29	851 3-		336.4 ACSR	5479	5470	5323	176	4721	211	40	0.26	0.38	831
1415392	1415391	0.97	851 3-		4/0 ACSR	3900	3727	3252	174	4714	211	62	1.36	1.74	4729
SW101497-A	1415392	0.97	843 3-		Closed	3900	3727	3252	174	4624	209	0	0.00	1.74	0
SW101497-B	SW101497-A	0.97	843 3-		Closed	3900	3727	3252	174	4624	209	0	0.00	1.74	0
1415377	SW101497-B	0.98	843 3-		4/0 ACSR	3889	3715	3239	174	4624	209	62	0.01	1.75	46
1415396	1415377	1.09	712 3-		336.4 ACSR	3741	3558	3072	173	3741	169	32	0.12	1.87	316
1415399	1415396	1.27	614 3-		336.4 ACSR	3538	3346	2853	173	3097	140	27	0.15	2.02	322
1415451	1415399	1.29	286 3-		4/0 ACSR	3503	3309	2816	173	1130	51	15	0.01	2.03	10
1415452	1415451	1.31	262 3-		4/0 ACSR	3477	3283	2789	173	1066	48	14	0.01	2.04	7
SW101494-A	1415452	1.31	262 3-		Closed	3477	3283	2789	173	1066	48	0	0.00	2.04	0
SW101494-B	SW101494-A	1.31	262 3-		Closed	3477	3283	2789	173	1066	48	0	0.00	2.04	0
1415453	SW101494-B	1.35	262 3-		4/0 ACSR	3421	3225	2731	173	1066	48	14	0.02	2.06	15
1415454	1415453	1.41	238 3-		4/0 ACSR	3343	3146	2652	173	912	41	12	0.02	2.09	16
1415626	1415454	1.43	0 1-	1/0 URD PRI AL	0	0	2637	440	0	0	0	0.00	2.09	0	
SW101584-A	1415626	1.43	0 1-		Open	0	0	2637	440	0	0	0.00	2.09	0	
1415455	1415454	1.56	219 3-		4/0 ACSR	3165	2966	2475	172	863	39	12	0.05	2.14	33
1415636	1415455	1.73	17 1-	1/0 URD PRI AL	0	0	2308	429	94	12	8	0.03	2.17	2	
SW101586-B	1415636	1.73	0 1-		Open	0	0	2308	429	0	0	0.00	2.17	0	
1415456	1415455	1.59	163 3-		4/0 ACSR	3136	2937	2446	172	590	26	8	0.01	2.14	3
1415457	1415456	1.62	106 3-		4/0 ACSR	3102	2903	2413	172	463	21	6	0.01	2.15	2
1415458	1415457	1.65	55 3-		4/0 ACSR	3074	2874	2386	172	161	7	2	0.00	2.15	0
1415609	1415458	1.93	34 1-	1/0 URD PRI AL	0	0	2125	421	73	9	6	0.04	2.20	2	
SW101583-B	1415609	1.93	0 1-		Open	0	0	2125	421	0	0	0.00	2.20	0	
1415459	1415458	1.66	21 3-		4/0 ACSR	3061	2861	2373	172	88	3	1	0.00	2.15	0
1415565	1415459	1.83	21 1-	1/0 URD PRI AL	0	0	2218	427	88	11	7	0.03	2.18	2	
SW101585-A	1415565	1.83	0 1-		Open	0	0	2218	427	0	0	0.00	2.18	0	
1415365	1415457	1.77	50 1-		1/0 ACSR	0	0	2243	171	299	40	18	0.10	2.25	19
1415571	1415365	1.93	20 1-	1/0 URD PRI AL	0	0	2112	423	137	18	11	0.04	2.29	4	
SW101587-B	1415571	1.93	0 1-		Open	0	0	2112	423	0	0	0.00	2.29	0	
1415625	1415456	1.97	57 1-	1/0 URD PRI AL	0	0	2090	418	127	17	10	0.10	2.25	8	
SW101582-B	1415625	1.97	0 1-		Open	0	0	2090	418	0	0	0.00	2.25	0	
1415608	1415455	1.71	17 1-	1/0 URD PRI AL	0	0	2330	430	100	13	8	0.03	2.17	2	
SW101586-A	1415608	1.71	0 1-		Open	0	0	2330	430	0	0	0.00	2.17	0	
1415570	1415454	1.66	18 1-	1/0 URD PRI AL	0	0	2376	428	43	5	3	0.02	2.11	0	
SW101581-B	1415570	1.66	0 1-		Open	0	0	2376	428	0	0	0.00	2.11	0	

LINE SECT	PRIOR SECT	MILES CONS	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1415607	1415453	1.53	21 1-	1/0 URD PRI AL	0	0	2526	433	129	17	10	0.05	2.11	4
SW101584-B	1415607	1.53	0 1-	Open	0	0	2526	433	0	0	0	0.00	2.11	0
SW101279-B	1415451	1.29	0 3-	Open	3503	3309	2816	173	0	0	0	0.00	2.03	0
1415423	1415399	1.30	313 3-	4/0 ACSR	3494	3300	2806	173	1872	84	25	0.03	2.05	36
SW101523-A	1415423	1.30	313 3-	Closed	3494	3300	2806	173	1872	84	0	0.00	2.05	0
SW101523-B	SW101523-A	1.30	313 3-	Closed	3494	3300	2806	173	1872	84	0	0.00	2.05	0
1415424	SW101523-B	1.53	313 3-	4/0 ACSR	3198	2999	2507	172	1872	84	25	0.16	2.21	206
1415430	1415424	1.58	233 3-	1/0 ACSR	3135	2935	2450	172	1337	60	26	0.05	2.26	51
1415684	1415430	1.67	24 1-	1/0 URD PRI AL	0	0	2362	432	86	11	7	0.02	2.27	0
SW101580-B	1415684	1.67	0 1-	Open	0	0	2362	432	0	0	0	0.00	2.27	0
1415431	1415430	1.63	204 3-	1/0 ACSR	3073	2871	2393	172	1211	55	24	0.04	2.30	43
1415683	1415431	1.65	8 1-	1/0 URD PRI AL	0	0	2368	433	30	4	2	0.00	2.30	0
SW101580-A	1415683	1.65	0 1-	Open	0	0	2368	433	0	0	0	0.00	2.30	0
1415432	1415431	1.67	189 3-	1/0 ACSR	3016	2812	2341	172	1139	51	23	0.04	2.33	32
1415538	1415432	1.73	51 2-	1/0 ACSR	0	2734	2269	171	261	17	8	0.02	2.35	3
1415550	1415538	1.84	38 1-	1/0 ACSR	0	0	2153	171	190	25	11	0.03	2.38	3
1415433	1415432	1.71	111 3-	1/0 ACSR	2968	2764	2298	171	696	31	14	0.02	2.35	12
OC101529	1415433	1.71	111 3-	REC_70_UNK	2968	2764	2298	171	696	31	15	0.00	2.35	0
1415434	OC101529	1.87	111 3-	1/0 ACSR	2779	2572	2131	171	696	31	44	0.07	2.42	33
1415435	1415434	1.94	45 3-	1/0 ACSR	2705	2498	2068	170	278	12	5	0.01	2.44	3
1415368	1415435	1.95	40 1-	4 ACSR	0	0	2055	170	245	33	24	0.01	2.45	3
1415364	1415368	2.04	12 1-	4 ACSR	0	0	1942	169	91	12	9	0.03	2.48	1
1415369	1415368	2.04	24 1-	4 ACSR	0	0	1949	169	128	17	13	0.03	2.48	3
1415526	1415434	2.10	17 1-	1/0 ACSR	0	0	1933	170	107	14	6	0.04	2.46	2
1415400	1415399	1.28	0 3-	336.4 ACSR	3521	3328	2835	173	0	0	0	0.00	2.02	0
OC101500	1415400	1.28	0 3-	REC_600_UNK	3521	3328	2835	173	0	0	0	0.00	2.02	0
1415397	1415396	1.13	87 3-	1/0 ACSR	3681	3495	3012	173	570	25	11	0.01	1.89	7
OC101526	1415397	1.13	87 3-	REC_50_UNK	3681	3495	3012	173	570	25	11	0.00	1.89	0
1415398	OC101526	1.23	87 3-	1/0 ACSR	3500	3304	2831	173	570	25	11	0.04	1.93	17
1415525	1415398	1.42	30 1-	1/0 ACSR	0	0	2552	172	197	26	12	0.05	1.98	6
1415367	1415398	1.40	37 1-	1/0 ACSR	0	0	2567	172	234	31	14	0.06	1.99	7
1415378	1415377	1.16	131 3-	4/0 ACSR	3608	3422	2932	173	882	39	12	0.06	1.82	41
1415395	1415378	1.23	33 3-	4/0 ACSR	3503	3333	2822	173	241	10	3	0.01	1.82	0
1415522	1415395	1.44	27 1-	4 ACSR	0	0	2407	171	192	26	19	0.12	1.95	14
1415520	1415378	1.21	82 2-	1/0 ACSR	0	3318	2837	173	537	36	16	0.03	1.85	11
1415363	1415520	1.52	41 1-	1/0 ACSR	0	0	2406	171	289	39	17	0.13	1.97	20
CKT 164 total losses:		\$7,399												

SUB	LINE SECT	PRIOR SECT	MILES CONS	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
5, CKT 174															
FAY1_174	FAYETTE1	0.00	523 3-		SBS_99_UNK	6126	6247	6308	176	3043	134	0	0.00	0.00	0
1415551	FAY1_174	0.02	523 3-	500	MCM URD PRI	6108	6226	6292	468	3043	134	35	0.01	0.01	29
1415379	1415551	0.62	523 3-		336.4 ACSR	4649	4510	4174	175	3043	134	25	0.42	0.43	1041
1415409	1415379	0.65	83 3-		4/0 ACSR	4567	4422	4068	175	480	21	6	0.01	0.44	3
1415665	1415409	0.89	31 1-	1/0	URD PRI AL	0	0	3543	446	187	25	15	0.09	0.53	10
SW101594-B	1415665	0.89	0 1-		Open	0	0	3543	446	0	0	0	0.00	0.53	0
1415410	1415409	0.66	26 3-		1/0 ACSR	4553	4406	4050	175	137	6	3	0.00	0.44	0
SW101532-A	1415410	0.66	26 3-		Closed	4553	4406	4050	175	137	6	0	0.00	0.44	0
SW101532-B	SW101532-A	0.66	26 3-		Closed	4553	4406	4050	175	137	6	0	0.00	0.44	0
1415411	SW101532-B	0.82	26 3-		1/0 ACSR	4172	3995	3603	174	137	6	3	0.01	0.45	1
1415412	1415411	0.86	11 3-		1/0 ACSR	4077	3893	3495	174	53	2	1	0.00	0.46	0
1415640	1415412	0.86	0 1-	1/0	URD PRI AL	0	0	3489	451	0	0	0	0.00	0.46	0
SW101397-B	1415640	0.86	0 1-		Open	0	0	3489	451	0	0	0	0.00	0.46	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 6	FAYETTE2		2391		6237	6362	6426	176	8995					
SUB 6, CKT 104														
FAY2_104	FAYETTE2	0.00	490 3-	SBS_99_UNK	6237	6362	6426	176	2372	106 0	0.00	0.00	0.00	0
1415606	FAY2_104	0.07	490 3-	350 MCM URD PRI	6140	6299	6318	467	2372	106 33	0.05	0.05	0.05	92
1415447	1415606	0.20	490 3-	4/0 ACSR	5692	5757	5580	176	2371	106 31	0.12	0.17	0.17	218
1415421	1415447	0.41	407 3-	4/0 ACSR	5039	4990	4623	175	2001	89 26	0.18	0.35	0.35	269
1415445	1415421	0.42	3 3-	4 ACSR	5000	4942	4570	175	192	8 6	0.00	0.36	0.36	0
OC1547456399	1415445	0.42	3 3-	_DefaultBayEqui	5000	4942	4570	175	192	8 0	0.00	0.36	0.36	0
1415605	OC1547456399	0.47	1 3-	1/0 URD PRI AL	4892	4847	4461	456	158	7 4	0.01	0.36	0.36	0
1415997	1415605	0.47	1 3-	Consumer	4892	4847	4461	456	158	7 0	0.00	0.36	0.36	0
1415604	OC1547456399	0.45	2 3-	1/0 URD PRI AL	4930	4881	4499	457	34	1 1	0.00	0.36	0.36	0
1415585	1415604	0.50	1 1-	1/0 URD PRI AL	0	0	4351	455	0	0 0	0.00	0.36	0.36	0
1415422	1415421	0.49	404 3-	4/0 ACSR	4839	4762	4355	175	1807	81 24	0.06	0.41	0.41	78
1415515	1415422	0.52	380 3-	4/0 ACSR	4757	4670	4248	175	1675	75 22	0.02	0.43	0.43	29
1415541	1415515	0.53	58 2-	1/0 ACSR	0	4637	4214	175	183	12 5	0.00	0.44	0.44	0
1415709	1415541	0.86	26 1-	1/0 URD PRI AL	0	0	3395	439	83	11 7	0.06	0.49	0.49	3
SW101394-B	1415709	0.86	0 1-	Open	0	0	3395	439	0	0 0	0.00	0.49	0.49	0
1415699	1415541	0.77	32 1-	1/0 URD PRI AL	0	0	3606	444	101	13 8	0.05	0.49	0.49	3
SW101393-B	1415699	0.77	0 1-	Open	0	0	3606	444	0	0 0	0.00	0.49	0.49	0
1415516	1415515	0.55	322 3-	4/0 ACSR	4674	4576	4141	175	1491	66 20	0.02	0.46	0.46	24
1415519	1415516	0.57	316 3-	4/0 ACSR	4636	4533	4092	175	1472	66 19	0.01	0.47	0.47	11
1415698	1415519	0.91	36 1-	1/0 URD PRI AL	0	0	3284	438	191	25 15	0.14	0.60	0.60	15
SW101391-B	1415698	0.91	0 1-	Open	0	0	3284	438	0	0 0	0.00	0.60	0.60	0
1415708	1415519	0.81	14 1-	1/0 URD PRI AL	0	0	3519	443	71	9 6	0.04	0.50	0.50	1
SW101392-B	1415708	0.81	0 1-	Open	0	0	3519	443	0	0 0	0.00	0.50	0.50	0
1415584	1415519	0.85	31 1-	1/0 URD PRI AL	0	0	3429	441	153	20 12	0.09	0.55	0.55	8
SW101390-B	1415584	0.85	0 1-	Open	0	0	3429	441	0	0 0	0.00	0.55	0.55	0
1415440	1415519	0.58	235 3-	4/0 ACSR	4623	4519	4076	175	1056	47 14	0.00	0.47	0.47	2
SW101276-B	1415440	0.58	235 3-	Closed	4623	4519	4076	175	1056	47 0	0.00	0.47	0.47	0
SW101276-A	SW101276-B	0.58	235 3-	Closed	4623	4519	4076	175	1056	47 0	0.00	0.47	0.47	0
1415441	SW101276-A	0.72	235 3-	4/0 ACSR	4304	4167	3686	174	1056	47 14	0.06	0.53	0.53	45
1415697	1415441	0.75	5 1-	1/0 URD PRI AL	0	0	3636	451	26	3 2	0.00	0.53	0.53	0
SW101595-A	1415697	0.75	0 1-	Open	0	0	3636	451	0	0 0	0.00	0.53	0.53	0
1415442	1415441	0.77	201 3-	4/0 ACSR	4202	4056	3566	174	864	38 11	0.02	0.55	0.55	12
1415583	1415442	0.79	0 1-	1/0 URD PRI AL	0	0	3538	450	0	0 0	0.00	0.55	0.55	0
SW101587-A	1415583	0.79	0 1-	Open	0	0	3538	450	0	0 0	0.00	0.55	0.55	0
1415696	1415442	0.89	9 1-	1/0 URD PRI AL	0	0	3328	445	50	6 4	0.01	0.56	0.56	0
SW101396-A	1415696	0.89	0 1-	Open	0	0	3328	445	0	0 0	0.00	0.56	0.56	0
1415443	1415442	0.98	186 3-	4/0 ACSR	3828	3656	3144	173	786	35 10	0.06	0.60	0.60	28
1415694	1415443	1.32	19 1-	1/0 URD PRI AL	0	0	2647	430	96	12 8	0.08	0.68	0.68	5
1415695	1415694	1.36	3 1-	1/0 URD PRI AL	0	0	2589	428	13	1 1	0.00	0.68	0.68	0
SW101397-A	1415695	1.36	0 1-	Open	0	0	2589	428	0	0 0	0.00	0.68	0.68	0
SW101396-B	1415694	1.32	0 1-	Open	0	0	2647	430	0	0 0	0.00	0.68	0.68	0
1415444	1415443	1.09	29 3-	4/0 ACSR	3658	3478	2962	173	103	4 1	0.00	0.61	0.61	0
SW101279-A	1415444	1.09	0 3-	Open	3658	3478	2962	173	0	0 0	0.00	0.61	0.61	0
1415705	1415443	1.11	44 1-	1/0 URD PRI AL	0	0	2951	440	158	21 13	0.07	0.68	0.68	10
1415707	1415705	1.22	8 1-	1/0 URD PRI AL	0	0	2774	434	36	4 3	0.01	0.69	0.69	0
SW101593-A	1415707	1.22	0 1-	Open	0	0	2774	434	0	0 0	0.00	0.69	0.69	0
1415706	1415705	1.28	26 1-	1/0 URD PRI AL	0	0	2696	431	99	13 8	0.04	0.71	0.71	2
SW101399-A	1415706	1.28	0 1-	Open	0	0	2696	431	0	0 0	0.00	0.71	0.71	0
1415582	1415443	1.22	29 1-	1/0 URD PRI AL	0	0	2777	434	119	16 9	0.06	0.66	0.66	4
SW101398-A	1415582	1.22	0 1-	Open	0	0	2777	434	0	0 0	0.00	0.66	0.66	0

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1415517	1415516	0.60	6 3-	4/0 ACSR	4564	4453	4002	175	19	0	0	0.00	0.46	0
1415518	1415517	0.79	0 3-	4/0 ACSR	4176	4028	3535	174	0	0	0	0.00	0.46	0
1415540	1415517	0.61	6 2-	1/0 ACSR	0	4429	3978	174	19	1	1	0.00	0.46	0
1415693	1415540	0.81	4 1-	1/0 URD PRI AL	0	0	3502	444	13	1	1	0.01	0.46	0
SW101393-A	1415693	0.81	0 1-	Open	0	0	3502	444	0	0	0	0.00	0.46	0
1415704	1415540	0.62	2 1-	1/0 URD PRI AL	0	0	3960	454	6	0	0	0.00	0.46	0
SW101394-A	1415704	0.62	0 1-	Open	0	0	3960	454	0	0	0	0.00	0.46	0
1415692	1415422	0.75	24 1-	1/0 URD PRI AL	0	0	3656	444	131	17	10	0.07	0.48	6
SW101387-B	1415692	0.75	0 1-	Open	0	0	3656	444	0	0	0	0.00	0.48	0
1415448	1415447	0.20	83 3-	1/0 ACSR	5674	5737	5554	176	369	16	7	0.00	0.17	0
1415691	1415448	0.23	2 1-	1/0 URD PRI AL	0	0	5437	463	10	1	1	0.00	0.17	0
SW101387-A	1415691	0.23	0 1-	Open	0	0	5437	463	0	0	0	0.00	0.17	0
1415449	1415448	0.37	81 3-	1/0 ACSR	5071	5026	4704	175	359	16	7	0.04	0.21	12
1415486	1415449	0.43	69 3-	1/0 ACSR	4883	4808	4459	175	304	13	6	0.01	0.23	3
1415487	1415486	0.46	11 3-	1/0 ACSR	4796	4708	4349	174	54	2	1	0.00	0.23	0
1415690	1415487	0.46	5 1-	1/0 URD PRI AL	0	0	4327	455	25	3	2	0.00	0.23	0
SW101391-A	1415690	0.46	0 1-	Open	0	0	4327	455	0	0	0	0.00	0.23	0
1415703	1415487	0.51	6 1-	1/0 URD PRI AL	0	0	4184	452	28	3	2	0.00	0.23	0
SW101392-A	1415703	0.51	0 1-	Open	0	0	4184	452	0	0	0	0.00	0.23	0
1415689	1415486	0.72	27 1-	1/0 URD PRI AL	0	0	3612	441	112	15	9	0.07	0.30	5
SW101389-B	1415689	0.72	0 1-	Open	0	0	3612	441	0	0	0	0.00	0.30	0
1415702	1415486	0.68	25 1-	1/0 URD PRI AL	0	0	3733	443	113	15	9	0.06	0.29	4
SW101388-B	1415702	0.68	0 1-	Open	0	0	3733	443	0	0	0	0.00	0.29	0
1415581	1415449	0.40	3 1-	1/0 URD PRI AL	0	0	4611	457	9	1	1	0.00	0.22	0
SW101390-A	1415581	0.40	0 1-	Open	0	0	4611	457	0	0	0	0.00	0.22	0
CKT 104 total losses:		\$889												
SUB 6, CKT 114														
FAY2_114	FAYETTE2	0.00	690 3-	SBS_99_UNK	6237	6362	6426	176	2322	103	0	0.00	0.00	0
1415568	FAY2_114	0.03	690 3-	500 MCM URD PRI	6203	6322	6395	468	2322	103	27	0.02	0.02	33
1415413	1415568	0.03	690 3-	1/0 ACSR	6180	6285	6357	176	2322	103	45	0.01	0.03	18
1415504	1415413	0.09	53 3-	336.4 ACSR	5991	6035	6049	176	144	6	1	0.00	0.03	0
1415673	1415504	0.57	26 1-	1/0 URD PRI AL	0	0	4090	442	78	10	6	0.08	0.11	4
SW101406-A	1415673	0.57	0 1-	Open	0	0	4090	442	0	0	0	0.00	0.11	0
1415505	1415504	0.13	23 3-	336.4 ACSR	5883	5907	5879	176	53	2	0	0.00	0.03	0
1415713	1415505	0.14	4 1-	1/0 URD PRI AL	0	0	5851	466	9	1	1	0.00	0.03	0
SW101405-A	1415713	0.14	0 1-	Open	0	0	5851	466	0	0	0	0.00	0.03	0
1415506	1415505	0.22	19 3-	336.4 ACSR	5620	5598	5477	176	44	1	0	0.00	0.03	0
1415599	1415506	0.25	3 1-	1/0 URD PRI AL	0	0	5382	464	13	1	1	0.00	0.03	0
SW101407-A	1415599	0.25	0 1-	Open	0	0	5382	464	0	0	0	0.00	0.03	0
1415672	1415506	0.23	4 1-	1/0 URD PRI AL	0	0	5454	465	8	1	1	0.00	0.03	0
SW101406-B	1415672	0.23	0 1-	Open	0	0	5454	465	0	0	0	0.00	0.03	0
1415414	1415413	0.12	637 3-	336.4 ACSR	5919	5949	5935	176	2177	97	18	0.05	0.08	78
1415671	1415414	0.17	3 1-	1/0 URD PRI AL	0	0	5711	464	9	1	1	0.00	0.08	0
SW101404-A	1415671	0.17	0 1-	Open	0	0	5711	464	0	0	0	0.00	0.08	0
1415489	1415414	0.26	634 3-	336.4 ACSR	5531	5495	5345	176	2168	97	18	0.08	0.16	123
1415490	1415489	0.37	601 3-	336.4 ACSR	5250	5171	4943	176	2050	91	17	0.07	0.23	92
1415670	1415490	0.42	2 1-	1/0 URD PRI AL	0	0	4774	460	6	0	1	0.00	0.23	0
SW101403-B	1415670	0.42	0 1-	Open	0	0	4774	460	0	0	0	0.00	0.23	0
1415491	1415490	0.39	589 3-	336.4 ACSR	5206	5122	4883	176	2014	90	17	0.01	0.24	15
1415492	1415491	0.41	586 3-	4/0 ACSR	5154	5065	4810	176	2008	89	26	0.02	0.25	23
1415500	1415492	0.47	137 3-	4/0 ACSR	4989	4882	4579	175	599	26	8	0.02	0.27	7

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1415602	1415500	0.49	136 3-	1/0 URD PRI AL	4950	4851	4541	460	594	26	16	0.01	0.28	5
SW101313-B	1415602	0.49	136 3-	Closed	4950	4851	4541	460	594	26	0	0.00	0.28	0
SW101313-A	SW101313-B	0.49	136 3-	Closed	4950	4851	4541	460	594	26	0	0.00	0.28	0
1415594	SW101313-A	0.54	136 3-	1/0 URD PRI AL	4849	4767	4441	458	594	26	16	0.03	0.31	14
1415712	1415594	0.54	4 1-	1/0 URD PRI AL	0	0	4427	458	47	6	4	0.00	0.31	0
1415531	1415712	0.81	4 1-	4 ACSR	0	0	3305	172	47	6	5	0.04	0.34	0
1415595	1415594	0.58	128 3-	1/0 URD PRI AL	4750	4683	4342	456	538	24	14	0.02	0.33	11
1415501	1415595	0.59	122 3-	4/0 ACSR	4736	4666	4323	175	511	22	7	0.00	0.33	0
SW101310-B	1415501	0.59	122 3-	Closed	4736	4666	4323	175	511	22	0	0.00	0.33	0
SW101310-A	SW101310-B	0.59	122 3-	Closed	4736	4666	4323	175	511	22	0	0.00	0.33	0
1415502	SW101310-A	0.69	122 3-	4/0 ACSR	4496	4393	4007	174	511	22	7	0.02	0.35	8
1415711	1415502	1.30	33 1-	1/0 URD PRI AL	0	0	2736	423	152	20	12	0.19	0.54	17
1415503	1415502	0.79	28 3-	4/0 ACSR	4291	4165	3750	174	114	5	1	0.00	0.36	0
1415710	1415503	1.07	21 1-	1/0 URD PRI AL	0	0	3154	437	85	11	7	0.05	0.41	3
SW101400-B	1415710	1.07	0 1-	Open	0	0	3154	437	0	0	0	0.00	0.41	0
1415537	1415503	0.92	4 1-	1/0 ACSR	0	0	3416	173	15	2	1	0.00	0.36	0
1415687	1415537	0.92	0 1-	1/0 URD PRI AL	0	0	3398	446	0	0	0	0.00	0.36	0
SW101400-A	1415687	0.92	0 1-	Open	0	0	3398	446	0	0	0	0.00	0.36	0
1415661	1415502	0.87	58 1-	1/0 URD PRI AL	0	0	3570	444	230	30	18	0.16	0.51	30
1415669	1415661	1.26	28 1-	1/0 URD PRI AL	0	0	2804	425	100	13	8	0.08	0.59	5
1415662	1415661	1.15	21 1-	1/0 URD PRI AL	0	0	2994	430	92	12	7	0.05	0.56	3
1415660	1415595	0.61	3 1-	1/0 URD PRI AL	0	0	4266	455	15	2	1	0.00	0.33	0
SW101402-A	1415660	0.61	0 1-	Open	0	0	4266	455	0	0	0	0.00	0.33	0
1415591	1415595	0.66	3 1-	1/0 URD PRI AL	0	0	4129	452	11	1	1	0.00	0.33	0
SW101401-A	1415591	0.66	0 1-	Open	0	0	4129	452	0	0	0	0.00	0.33	0
1415493	1415492	0.48	449 3-	4/0 ACSR	4963	4854	4544	175	1409	63	19	0.04	0.30	43
1415659	1415493	0.76	28 1-	1/0 URD PRI AL	0	0	3759	446	83	11	7	0.05	0.34	2
SW101404-B	1415659	0.76	0 1-	Open	0	0	3759	446	0	0	0	0.00	0.34	0
1415494	1415493	0.54	415 3-	4/0 ACSR	4802	4679	4329	175	1300	58	17	0.03	0.33	33
1415658	1415494	0.80	16 1-	1/0 URD PRI AL	0	0	3679	446	81	10	6	0.04	0.37	2
SW101402-B	1415658	0.80	0 1-	Open	0	0	3679	446	0	0	0	0.00	0.37	0
1415686	1415494	1.20	61 1-	1/0 URD PRI AL	0	0	2834	426	192	25	15	0.26	0.59	30
SW101405-B	1415686	1.20	0 1-	Open	0	0	2834	426	0	0	0	0.00	0.59	0
1415495	1415494	0.58	336 3-	4/0 ACSR	4715	4584	4216	175	1021	45	13	0.02	0.35	12
1415657	1415495	0.80	8 1-	1/0 URD PRI AL	0	0	3671	447	39	5	3	0.02	0.36	0
SW101411-A	1415657	0.80	0 1-	Open	0	0	3671	447	0	0	0	0.00	0.36	0
1415496	1415495	0.61	328 3-	4/0 ACSR	4637	4499	4115	175	981	43	13	0.01	0.36	10
1415685	1415496	0.85	16 1-	1/0 URD PRI AL	0	0	3550	445	53	7	4	0.03	0.39	0
SW101412-A	1415685	0.85	0 1-	Open	0	0	3550	445	0	0	0	0.00	0.39	0
1415497	1415496	0.64	312 3-	4/0 ACSR	4565	4422	4024	175	928	41	12	0.01	0.37	8
1415590	1415497	0.93	26 1-	1/0 URD PRI AL	0	0	3378	442	100	13	8	0.06	0.43	4
SW101413-B	1415590	0.93	0 1-	Open	0	0	3378	442	0	0	0	0.00	0.43	0
1415498	1415497	0.75	286 3-	4/0 ACSR	4332	4171	3737	174	828	37	11	0.04	0.41	22
1415569	1415498	0.76	239 3-	1/0 URD PRI AL	4322	4162	3728	454	676	30	18	0.00	0.41	2
SW101307-B	1415569	0.76	239 3-	Closed	4322	4162	3728	454	676	30	0	0.00	0.41	0
SW101307-A	SW101307-B	0.76	239 3-	Closed	4322	4162	3728	454	676	30	0	0.00	0.41	0
1415559	SW101307-A	0.93	239 3-	1/0 URD PRI AL	4037	3905	3473	447	676	30	18	0.10	0.52	62
1415668	1415559	1.54	57 1-	1/0 URD PRI AL	0	0	2437	417	106	14	8	0.14	0.65	9
SW101408-A	1415668	1.54	0 1-	Open	0	0	2437	417	0	0	0	0.00	0.65	0
1415589	1415559	1.62	50 1-	1/0 URD PRI AL	0	0	2346	414	196	26	15	0.28	0.80	33
SW101401-B	1415589	1.62	0 1-	Open	0	0	2346	414	0	0	0	0.00	0.80	0
1415574	1415559	0.98	0 1-	1/0 URD PRI AL	0	0	3364	444	0	0	0	0.00	0.52	0

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW101413-A	1415574	0.98	0 1-	Open	0	0	3364	444	0	0	0	0.00	0.52	0
1415656	1415559	1.26	16 1-	1/0 URD PRI AL	0	0	2846	430	49	6	4	0.03	0.55	0
SW101414-A	1415656	1.26	0 1-	Open	0	0	2846	430	0	0	0	0.00	0.55	0
1415667	1415559	0.96	0 1-	1/0 URD PRI AL	0	0	3415	445	0	0	0	0.00	0.52	0
SW101412-B	1415667	0.96	0 1-	Open	0	0	3415	445	0	0	0	0.00	0.52	0
1415560	1415559	1.06	113 3-	1/0 URD PRI AL	3813	3698	3272	441	314	14	8	0.04	0.55	11
1415655	1415560	1.35	18 1-	1/0 URD PRI AL	0	0	2755	427	64	8	5	0.04	0.59	1
1415666	1415560	1.60	48 1-	1/0 URD PRI AL	0	0	2401	415	171	23	14	0.19	0.75	20
1415555	1415560	1.07	47 1-	1/0 URD PRI AL	0	0	3256	441	79	10	6	0.00	0.56	0
1415557	1415555	1.10	0 1-	1/0 URD PRI AL	0	0	3195	439	0	0	0	0.00	0.56	0
SW101409-A	1415557	1.10	0 1-	Open	0	0	3195	439	0	0	0	0.00	0.56	0
1415556	1415555	1.36	44 1-	1/0 URD PRI AL	0	0	2749	427	75	10	6	0.05	0.60	2
SW101409-B	1415556	1.36	0 1-	Open	0	0	2749	427	0	0	0	0.00	0.60	0
1415561	1415560	1.15	0 3-	1/0 URD PRI AL	3673	3566	3145	438	0	0	0	0.00	0.55	0
SW101316-A	1415561	1.15	0 3-	Open	3673	3566	3145	438	0	0	0	0.00	0.55	0
1415654	1415559	0.99	3 1-	1/0 URD PRI AL	0	0	3348	444	10	1	1	0.00	0.52	0
SW101411-B	1415654	0.99	0 1-	Open	0	0	3348	444	0	0	0	0.00	0.52	0
1415499	1415498	0.78	34 3-	4/0 ACSR	4280	4116	3675	174	100	4	1	0.00	0.41	0
1415554	1415499	1.10	32 1-	1/0 URD PRI AL	0	0	3050	437	95	12	8	0.06	0.47	4
SW101407-B	1415554	1.10	0 1-	Open	0	0	3050	437	0	0	0	0.00	0.47	0
1415641	1415489	0.27	9 1-	1/0 URD PRI AL	0	0	5317	464	29	3	2	0.00	0.16	0
1415523	1415641	0.29	9 1-	1/0 ACSR	0	0	5183	176	29	3	2	0.00	0.17	0
1415642	1415523	0.42	8 1-	1/0 URD PRI AL	0	0	4715	456	24	3	2	0.01	0.17	0
SW101403-A	1415642	0.42	0 1-	Open	0	0	4715	456	0	0	0	0.00	0.17	0
CKT 114 total losses:		\$799												
SUB 6, CKT 124														
FAY2_124	FAYETTE2	0.00	1048 3-	SBS_99_UNK	6237	6362	6426	176	3684	165	0	0.00	0.00	0
1415633	FAY2_124	0.03	1048 3-	500 MCM URD PRI	6206	6326	6398	468	3684	165	43	0.02	0.02	74
1415510	1415633	0.25	1048 3-	4/0 ACSR	5414	5381	5141	176	3683	165	49	0.36	0.38	963
1415539	1415510	0.29	8 2-	4/0 ACSR	0	5254	4985	175	30	2	1	0.00	0.38	0
1415701	1415539	0.31	3 1-	1/0 URD PRI AL	0	0	4913	461	11	1	1	0.00	0.38	0
SW101388-A	1415701	0.31	0 1-	Open	0	0	4913	461	0	0	0	0.00	0.38	0
1415688	1415539	0.30	5 1-	1/0 URD PRI AL	0	0	4959	462	19	2	2	0.00	0.38	0
SW101389-A	1415688	0.30	0 1-	Open	0	0	4959	462	0	0	0	0.00	0.38	0
1415511	1415510	0.32	1040 3-	4/0 ACSR	5221	5162	4863	175	3645	163	48	0.10	0.48	269
1415407	1415511	0.51	50 3-	4/0 ACSR	4717	4598	4186	175	229	10	3	0.02	0.50	2
1415446	1415407	0.54	28 3-	1/0 ACSR	4638	4509	4090	175	145	6	3	0.00	0.50	0
1415700	1415446	0.83	25 1-	1/0 URD PRI AL	0	0	3406	441	129	17	10	0.08	0.58	6
SW101421-B	1415700	0.83	0 1-	Open	0	0	3406	441	0	0	0	0.00	0.58	0
1415366	1415446	0.58	0 1-	1/0 ACSR	0	0	3953	174	0	0	0	0.00	0.50	0
SW101340-A	1415366	0.58	0 1-	Closed	0	0	3953	174	0	0	0	0.00	0.50	0
SW101340-B	SW101340-A	0.58	0 1-	Closed	0	0	3953	174	0	0	0	0.00	0.50	0
1415512	1415511	0.48	990 3-	4/0 ACSR	4774	4661	4260	175	3413	153	45	0.24	0.72	600
1415580	1415512	0.53	2 1-	1/0 URD PRI AL	0	0	4133	455	5	0	0	0.00	0.72	0
SW101585-B	1415580	0.53	0 1-	Open	0	0	4133	455	0	0	0	0.00	0.72	0
1415513	1415512	0.53	956 3-	4/0 ACSR	4673	4549	4130	175	3308	148	44	0.06	0.78	145
1415680	1415513	0.58	5 1-	1/0 URD PRI AL	0	0	3996	454	15	2	1	0.00	0.78	0
SW101422-A	1415680	0.58	0 1-	Open	0	0	3996	454	0	0	0	0.00	0.78	0
1415514	1415513	0.57	951 3-	4/0 ACSR	4580	4447	4013	175	3291	148	44	0.06	0.84	137
1415724	1415514	0.59	2 1-	1/0 URD PRI AL	0	0	3947	454	4	0	0	0.00	0.84	0
SW101423-A	1415724	0.59	0 1-	Open	0	0	3947	454	0	0	0	0.00	0.84	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS	
	1415476	1415514	0.63	949 3-	4/0 ACSR	4436	4290	3836	174	3286	148	44	0.09	0.93	222
	1415579	1415476	0.65	2 1-	1/0 URD PRI AL	0	0	3786	453	7	0	1	0.00	0.93	0
SW101424-A		1415579	0.65	0 1-	Open	0	0	3786	453	0	0	0	0.00	0.93	0
	1415477	1415476	0.71	947 3-	4/0 ACSR	4282	4124	3653	174	3278	147	43	0.10	1.03	250
	1415478	1415477	0.74	876 3-	4/0 ACSR	4219	4056	3579	174	3135	141	42	0.04	1.07	99
	1415406	1415478	0.75	162 3-	1/0 ACSR	4182	4017	3539	174	688	31	13	0.01	1.08	4
	1415723	1415406	0.90	86 1-	1/0 URD PRI AL	0	0	3264	444	357	48	28	0.11	1.19	23
SW101418-A		1415723	0.90	0 1-	Open	0	0	3264	444	0	0	0	0.00	1.19	0
	1415578	1415406	0.94	57 1-	1/0 URD PRI AL	0	0	3193	442	258	34	21	0.10	1.18	15
SW101420-A		1415578	0.94	0 1-	Open	0	0	3193	442	0	0	0	0.00	1.18	0
	1415479	1415478	0.83	714 3-	4/0 ACSR	4040	3866	3374	174	2447	110	32	0.10	1.17	180
	1415577	1415479	0.86	2 1-	1/0 URD PRI AL	0	0	3333	449	4	0	0	0.00	1.17	0
SW101581-A		1415577	0.86	0 1-	Open	0	0	3333	449	0	0	0	0.00	1.17	0
	1415722	1415479	0.86	4 1-	1/0 URD PRI AL	0	0	3319	448	7	0	1	0.00	1.17	0
SW101582-A		1415722	0.86	0 1-	Open	0	0	3319	448	0	0	0	0.00	1.17	0
	1415679	1415479	0.87	11 1-	1/0 URD PRI AL	0	0	3300	448	47	6	4	0.00	1.18	0
SW101583-A		1415679	0.87	0 1-	Open	0	0	3300	448	0	0	0	0.00	1.18	0
	1415480	1415479	0.92	697 3-	4/0 ACSR	3886	3704	3203	174	2388	107	32	0.09	1.26	160
	1415404	1415480	0.96	236 3-	1/0 ACSR	3801	3614	3116	173	958	43	19	0.03	1.29	25
	1415576	1415404	1.03	54 1-	1/0 URD PRI AL	0	0	3006	443	219	29	17	0.03	1.33	4
SW101420-B		1415576	1.03	0 1-	Open	0	0	3006	443	0	0	0	0.00	1.33	0
	1415405	1415404	1.09	182 3-	1/0 ACSR	3564	3363	2879	173	739	33	15	0.05	1.34	23
	1415721	1415405	1.15	67 1-	1/0 URD PRI AL	0	0	2797	439	252	34	20	0.03	1.37	5
SW101418-B		1415721	1.15	0 1-	Open	0	0	2797	439	0	0	0	0.00	1.37	0
	1415481	1415480	1.41	461 3-	4/0 ACSR	3203	3002	2497	172	1429	64	19	0.29	1.55	297
	1415420	1415481	1.55	236 3-	4/0 ACSR	3052	2850	2352	172	620	28	8	0.04	1.59	17
	1415678	1415420	1.66	69 1-	1/0 URD PRI AL	0	0	2247	428	171	23	14	0.04	1.63	4
SW101417-B		1415678	1.66	0 1-	Open	0	0	2247	428	0	0	0	0.00	1.63	0
	1415488	1415420	1.60	163 3-	4/0 ACSR	3002	2800	2304	171	442	19	6	0.01	1.59	3
	1415402	1415488	1.70	78 3-	4/0 ACSR	2905	2704	2214	171	177	8	2	0.01	1.60	0
	1415575	1415402	1.81	68 1-	1/0 URD PRI AL	0	0	2117	424	157	21	13	0.04	1.64	4
SW101415-B		1415575	1.81	0 1-	Open	0	0	2117	424	0	0	0	0.00	1.64	0
	1415403	1415402	1.70	0 3-	4/0 ACSR	2901	2699	2210	171	0	0	0	0.00	1.60	0
SW101316-B		1415403	1.70	0 3-	Open	2901	2699	2210	171	0	0	0	0.00	1.60	0
	1415720	1415488	1.73	79 1-	1/0 URD PRI AL	0	0	2189	426	247	33	20	0.07	1.66	10
SW101416-B		1415720	1.73	0 1-	Open	0	0	2189	426	0	0	0	0.00	1.66	0
	1415482	1415481	1.44	191 3-	4/0 ACSR	3170	2969	2465	172	689	31	9	0.01	1.56	4
SW101343-B		1415482	1.44	190 3-	Closed	3170	2969	2465	172	688	31	0	0.00	1.56	0
SW101343-A		SW101343-B	1.44	190 3-	Closed	3170	2969	2465	172	688	31	0	0.00	1.56	0
	1415483	SW101343-A	1.50	190 3-	4/0 ACSR	3110	2908	2407	172	688	31	9	0.02	1.57	8
	1415624	1415483	1.51	1 3-	1/0 URD PRI AL	3092	2892	2395	434	184	8	5	0.00	1.58	0
	1415998	1415624	1.51	1 3-	Consumer	3092	2892	2395	434	184	8	0	0.00	1.58	0
	1415484	1415483	1.52	189 3-	4/0 ACSR	3081	2879	2380	172	504	22	7	0.01	1.58	2
	1415485	1415484	1.57	75 3-	4/0 ACSR	3033	2831	2334	172	196	8	3	0.00	1.58	0
	1415419	1415485	1.59	7 3-	4/0 ACSR	3006	2804	2308	172	6	0	0	0.00	1.58	0
	1415677	1415419	1.61	5 1-	1/0 URD PRI AL	0	0	2293	431	5	0	0	0.00	1.58	0
SW101414-B		1415677	1.61	0 1-	Open	0	0	2293	431	0	0	0	0.00	1.58	0
	1415719	1415419	1.64	2 1-	1/0 URD PRI AL	0	0	2266	430	1	0	0	0.00	1.58	0
SW101408-B		1415719	1.64	0 1-	Open	0	0	2266	430	0	0	0	0.00	1.58	0
	1415593	1415485	1.69	67 1-	1/0 URD PRI AL	0	0	2218	427	190	25	15	0.05	1.63	6
SW101415-A		1415593	1.69	0 1-	Open	0	0	2218	427	0	0	0	0.00	1.63	0
	1415718	1415484	1.65	62 1-	1/0 URD PRI AL	0	0	2259	428	168	22	13	0.04	1.62	4

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 7 NEWBY			1694		5226	5554	5589	176	10797					
SUB 7, CKT 104														
NWBY_104	NEWBY	0.00	248 3-	SBS_99_SBS	5226	5554	5589	176	1845	83	0	0.00	0.00	0
1716148	NWBY_104	0.02	248 3-	350 MCM URD PRI	5207	5513	5566	466	1845	83	26	0.01	0.01	14
1716124	1716148	0.27	248 3-	4/0 ACSR	4561	4546	4478	175	1844	83	24	0.21	0.22	274
1716125	1716124	1.42	248 3-	336.4 ACSR	3121	2944	2571	173	1842	83	16	0.62	0.83	739
1717115	1716125	4.21	231 3-	4/0 ACSR	1567	1426	1118	164	1752	79	23	2.13	2.96	2721
OC120580	1717115	4.21	230 3-	100-L	1567	1426	1118	164	1721	78	79	0.00	2.96	0
1717089	OC120580	5.14	230 3-	4/0 ACSR	1342	1221	939	161	1721	78	23	0.53	3.49	567
1717086	1717089	5.38	52 3-	4/0 ACSR	1294	1178	903	161	355	16	5	0.03	3.53	9
1717087	1717086	5.40	28 3-	4/0 ACSR	1289	1173	899	161	184	8	2	0.00	3.53	0
1717061	1717087	5.58	5 2-	4 ACSR	0	1120	856	159	34	2	2	0.01	3.54	0
1717058	1717087	5.99	22 1-	4 ACSR	0	0	769	155	138	19	14	0.25	3.78	21
1717107	1717086	5.95	19 1-	4 ACSR	0	0	776	155	134	18	13	0.24	3.76	19
1717084	1717089	5.36	81 3-	1/0 ACSR	1286	1172	900	160	512	23	10	0.09	3.58	37
1717085	1717084	5.42	57 3-	1/0 ACSR	1270	1159	888	160	366	16	7	0.02	3.60	6
1717057	1717085	5.66	28 1-	1/0 ACSR	0	0	850	159	179	24	11	0.06	3.66	6
1717102	1717085	5.71	29 1-	1/0 ACSR	0	0	841	159	188	25	11	0.08	3.68	8
1717106	1717084	5.61	23 1-	1/0 ACSR	0	0	858	159	138	19	8	0.05	3.63	4
CKT 104 total losses:	\$4,425													
SUB 7, CKT 114														
NWBY_114	NEWBY	0.00	137 3-	SBS_99_SBS	5226	5554	5589	176	602	27	0	0.00	0.00	0
1716119	NWBY_114	1.66	137 3-	4/0 ACSR	2663	2490	2109	171	602	27	8	0.41	0.41	172
1716135	1716119	1.67	5 1-	2 ACSR	0	0	2103	171	18	2	1	0.00	0.41	0
OC120594	1716135	1.67	5 1-	REC_25_UNK	0	0	2103	171	18	2	9	0.00	0.41	0
1716136	OC120594	1.85	5 1-	2 ACSR	0	0	1923	170	18	2	1	0.01	0.42	0
1716137	1716136	2.25	3 1-	6 ACWC	0	0	1549	165	17	2	2	0.04	0.46	0
1716138	1716137	2.28	2 1-	4 ACSR	0	0	1528	165	14	1	1	0.00	0.46	0
1716139	1716138	2.43	2 1-	6 ACWC	0	0	1421	164	14	1	1	0.01	0.47	0
1716120	1716119	2.29	117 3-	4/0 ACSR	2240	2070	1703	169	520	23	7	0.14	0.55	52
OC120597	1716120	2.29	113 3-	50-L	2240	2070	1703	169	513	23	46	0.00	0.55	0
1716121	OC120597	2.38	113 3-	4/0 ACSR	2187	2018	1654	169	513	23	7	0.02	0.57	7
1716122	1716121	3.21	30 3-	4/0 ACSR	1809	1653	1322	166	138	6	2	0.03	0.60	2
1716078	1716122	3.22	5 1-	1/0 ACSR	0	0	1320	166	20	2	1	0.00	0.60	0
OC120599	1716078	3.22	5 1-	REC_99_UNK	0	0	1320	166	20	2	0	0.00	0.60	0
1616169	OC120599	3.73	5 1-	1/0 ACSR	0	0	1153	164	20	2	1	0.02	0.61	0
1616092	1616169	5.33	2 1-	4 ACSR	0	0	710	149	2	0	0	0.01	0.63	0
1616171	1716122	4.35	3 3-	4/0 ACSR	1463	1332	1038	163	17	0	0	0.01	0.60	0
1616110	1616171	4.35	0 3-	4/0 ACSR	1462	1331	1038	163	0	0	0	0.00	0.60	0
SW120584-A	1616110	4.35	0 3-	Open	1462	1331	1038	163	0	0	0	0.00	0.60	0
1616160	1616171	4.38	2 1-	6 ACWC	0	0	1027	162	7	0	1	0.00	0.60	0
1716086	1716121	2.42	75 1-	1/0 ACSR	0	0	1632	169	335	45	20	0.04	0.60	10
SW120581-B	1716086	2.42	74 1-	Closed	0	0	1632	169	335	45	0	0.00	0.60	0
SW120581-A	SW120581-B	2.42	74 1-	Closed	0	0	1632	169	335	45	0	0.00	0.60	0
1716087	SW120581-A	2.48	74 1-	1/0 ACSR	0	0	1600	168	335	45	20	0.06	0.66	15
1716092	1716087	2.67	58 1-	1/0 ACSR	0	0	1500	167	278	37	16	0.15	0.81	32
OC120600	1716092	2.67	53 1-	REC_25_UNK	0	0	1500	167	255	34	138	0.00	0.81	0
1716093	OC120600	3.93	53 1-	1/0 ACSR	0	0	1064	161	255	34	15	0.80	1.61	146
1716077	1716093	4.35	35 1-	1/0 ACSR	0	0	969	159	163	22	10	0.14	1.75	15
1715046	1716077	4.45	16 1-	4 ACSR	0	0	938	158	65	8	6	0.04	1.79	2
1715047	1715046	4.53	15 1-	1/0 ACSR	0	0	924	158	58	7	3	0.01	1.80	0

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LIG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1715062	1715047	4.93	13 1-	4 ACSR	0	0	822	154	53	7	5	0.12	1.92	5
1715063	1715062	5.03	11 1-	1/0 ACSR	0	0	807	154	45	6	3	0.01	1.93	0
1715064	1715063	5.41	5 1-	4 ACSR	0	0	729	151	15	2	1	0.02	1.95	0
1716094	1716093	4.36	2 1-	4 ACSR	0	0	926	157	18	2	2	0.02	1.64	0
1716088	1716087	2.58	16 1-	4 ACSR	0	0	1523	167	56	7	5	0.03	0.69	2
OC120598	1716088	2.58	11 1-	25-H	0	0	1523	167	49	6	27	0.00	0.69	0
1716089	OC120598	2.63	11 1-	4 ACSR	0	0	1489	167	49	6	5	0.01	0.71	0
1716090	1716089	3.05	10 1-	2 ACSR	0	0	1283	164	43	5	3	0.05	0.76	1
1716091	1716090	3.22	2 1-	4 ACSR	0	0	1199	162	13	1	1	0.01	0.76	0
CKT 114 total losses:		\$461												
SUB 7, CKT 124														
NWBY 124	NWBY	0.00	155 3-	SBS_99_SBS	5226	5554	5589	176	1043	46	0	0.00	0.00	0
1716103	NWBY_124	1.54	155 3-	336.4 ACSR	3067	2882	2504	173	1043	46	9	0.44	0.44	301
SW120603-B	1716103	1.54	135 3-	Closed	3067	2882	2504	173	938	42	0	0.00	0.44	0
SW120603-A	SW120603-B	1.54	135 3-	Closed	3067	2882	2504	173	938	42	0	0.00	0.44	0
1716104	SW120603-A	2.21	135 3-	336.4 ACSR	2588	2401	2009	171	938	42	8	0.18	0.62	112
1716105	1716104	2.30	126 3-	336.4 ACSR	2535	2348	1956	171	887	39	8	0.02	0.64	14
OC962591505	1716105	2.30	126 3-	_DefaultBayEqui	2535	2348	1956	171	887	39	0	0.00	0.64	0
1716095	OC962591505	3.06	126 3-	336.4 ACSR	2162	1985	1608	170	887	39	8	0.19	0.84	118
1717071	1716095	3.42	106 3-	336.4 ACSR	2022	1850	1483	169	799	36	7	0.08	0.92	44
OC120628	1717071	3.42	101 3-	REC_70_UNK	2022	1850	1483	169	775	34	50	0.00	0.92	0
1717072	OC120628	3.87	101 3-	336.4 ACSR	1869	1705	1352	168	775	34	7	0.09	1.01	46
1717066	1717072	3.88	45 1-	4 ACSR	0	0	1345	168	360	48	35	0.03	1.04	9
OC120629	1717066	3.88	45 1-	REC_99_UNK	0	0	1345	168	360	48	0	0.00	1.04	0
1717067	OC120629	4.04	45 1-	4 ACSR	0	0	1268	166	360	48	35	0.28	1.31	76
1717068	1717067	4.47	28 1-	1/0 ACSR	0	0	1136	164	224	30	13	0.14	1.45	17
1717073	1717072	4.28	34 3-	336.4 ACSR	1748	1590	1249	167	285	12	2	0.03	1.04	5
SW120606-B	1717073	4.28	27 3-	Closed	1748	1590	1249	167	214	9	0	0.00	1.04	0
SW120606-A	SW120606-B	4.28	27 3-	Closed	1748	1590	1249	167	214	9	0	0.00	1.04	0
1717074	SW120606-A	4.34	27 3-	336.4 ACSR	1733	1576	1237	167	214	9	2	0.00	1.04	0
1717079	1717074	4.35	0 3-	336.4 ACSR	1731	1574	1235	167	0	0	0	0.00	1.04	0
SW120639-A	1717079	4.35	0 3-	Open	1731	1574	1235	167	0	0	0	0.00	1.04	0
1717075	1717074	4.45	22 3-	336.4 ACSR	1704	1549	1213	167	182	8	2	0.01	1.05	0
1717078	1717075	4.64	6 3-	336.4 ACSR	1653	1501	1172	166	47	2	0	0.00	1.05	0
1717100	1717078	4.85	5 1-	1/0 ACSR	0	0	1117	165	37	4	2	0.02	1.06	0
1717101	1717100	4.87	2 1-	4 ACSR	0	0	1110	165	15	2	1	0.00	1.07	0
1717099	1717075	4.89	15 1-	1/0 ACSR	0	0	1090	165	127	17	7	0.08	1.13	6
SW120607-A	1717099	4.89	0 1-	Open	0	0	1090	165	0	0	0	0.00	1.13	0
1717069	1716095	4.05	18 3-	1/0 ACSR	1653	1524	1204	165	86	3	2	0.03	0.87	2
1717065	1717069	4.14	2 1-	4 ACSR	0	0	1166	164	2	0	0	0.00	0.87	0
1717070	1717069	4.14	0 3-	1/0 ACSR	1617	1492	1177	164	0	0	0	0.00	0.87	0
SW120796-A	1717070	4.14	0 3-	Open	1617	1492	1177	164	0	0	0	0.00	0.87	0
1716076	1716104	2.75	0 1-	2 ACSR	0	0	1593	168	0	0	0	0.00	0.62	0
CKT 124 total losses:		\$750												
SUB 7, CKT 134														
NWBY 134	NWBY	0.00	372 3-	SBS_99_SBS	5226	5554	5589	176	2813	124	0	0.00	0.00	0
1716111	NWBY_134	1.76	372 3-	4/0 ACSR	2585	2412	2032	171	2813	124	37	1.83	1.83	4143
SW120633-B	1716111	1.76	351 3-	Closed	2585	2412	2032	171	2688	120	0	0.00	1.83	0
SW120633-A	SW120633-B	1.76	351 3-	Closed	2585	2412	2032	171	2688	120	0	0.00	1.83	0
1716112	SW120633-A	2.18	351 3-	4/0 ACSR	2306	2135	1764	169	2688	120	35	0.41	2.24	924

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1717116	1716112	2.44	315 3-	4/0 ACSR	2153	1985	1624	169	2482	111 33	0.24	2.49	521	
1717105	1717116	2.46	29 1-	4 ACSR	0	0	1611	168	195	26 19	0.02	2.51	3	
1717110	1717105	3.03	28 1-	1/0 URD PRI AL	0	0	1367	385	193	26 16	0.23	2.74	27	
SW120785-B	1717110	3.03	0 1-	Open	0	0	1367	385	0	0 0	0.00	2.74	0	
1717088	1717116	3.19	285 3-	4/0 ACSR	1818	1662	1330	166	2275	102 30	0.59	3.08	1176	
1717093	1717088	3.49	230 3-	4/0 ACSR	1711	1561	1240	165	1881	85 25	0.18	3.26	300	
1717098	1717093	4.08	29 1-	1/0 ACSR	0	0	1072	163	196	27 12	0.17	3.43	18	
SW120607-B	1717098	4.08	0 1-	Open	0	0	1072	163	0	0 0	0.00	3.43	0	
1717094	1717093	3.56	168 3-	4/0 ACSR	1688	1539	1221	165	1464	66 19	0.03	3.29	47	
1717077	1717094	4.23	74 3-	1/0 ACSR	1445	1326	1038	162	527	24 11	0.17	3.46	54	
1717104	1717077	4.62	17 1-	1/0 ACSR	0	0	953	160	109	15 7	0.06	3.52	4	
1717095	1717094	3.67	90 3-	4/0 ACSR	1652	1504	1191	165	916	42 12	0.03	3.31	31	
1717060	1717095	4.11	27 1-	4 ACSR	0	0	1022	160	180	24 18	0.25	3.56	26	
1717096	1717095	3.75	62 3-	4/0 ACSR	1627	1491	1171	164	736	34 10	0.01	3.33	15	
1717080	1717096	3.80	48 3-	4/0 ACSR	1611	1465	1157	164	653	30 9	0.01	3.33	8	
1717081	1717080	3.84	48 3-	4/0 ACSR	1601	1458	1149	164	653	30 9	0.01	3.34	5	
1717082	1717081	3.98	41 3-	4/0 ACSR	1559	1419	1115	164	595	27 8	0.04	3.38	17	
1717083	1717082	4.26	27 3-	4/0 ACSR	1484	1351	1055	163	487	22 7	0.04	3.42	13	
1717076	1717083	4.88	2 3-	336.4 ACSR	1371	1248	963	162	235	10 2	0.04	3.47	7	
1717108	1717076	4.89	1 3-	1/0 URD PRI AL	1368	1246	962	362	235	10 6	0.00	3.47	0	
1717999	1717108	4.89	1 3-	Consumer	1368	1246	962	362	235	10 0	0.00	3.47	0	
1717062	1717082	4.03	12 1-	1/0 ACSR	0	0	1102	164	103	14 6	0.01	3.39	0	
1717063	1717062	4.21	10 1-	4 ACSR	0	0	1038	162	84	11 8	0.07	3.46	4	
1717064	1717063	4.27	6 1-	1/0 ACSR	0	0	1024	161	42	5 2	0.01	3.47	0	
1717059	1717064	4.64	4 1-	4 ACSR	0	0	914	158	24	3 2	0.03	3.50	0	
1717056	1717081	4.21	7 1-	4 ACSR	0	0	1012	160	58	8 6	0.07	3.41	2	
CA120026	1717080	3.80	0 3-	Capacitor	1611	1465	1157	164	0	-14 0	0.00	3.33	0	
1717097	1717096	4.07	14 1-	4 ACSR	0	0	1049	161	83	11 8	0.08	3.41	4	
1717090	1717088	3.21	38 3-	1/0 ACSR	1809	1653	1323	166	294	13 6	0.00	3.09	0	
OC120667	1717090	3.21	38 3-	REC_70_UNK	1809	1653	1323	166	294	13 19	0.00	3.09	0	
1717091	OC120667	3.82	38 3-	1/0 ACSR	1555	1427	1128	163	294	13 6	0.09	3.17	16	
SW120636-B	1717091	3.82	10 3-	Closed	1555	1427	1128	163	78	3 0	0.00	3.17	0	
SW120636-A	SW120636-B	3.82	10 3-	Closed	1555	1427	1128	163	78	3 0	0.00	3.17	0	
1717092	SW120636-A	4.27	10 3-	1/0 ACSR	1405	1295	1014	161	78	3 2	0.01	3.19	0	
SW120639-B	1717092	4.27	0 3-	Open	1405	1295	1014	161	0	0 0	0.00	3.19	0	
1717118	1716112	2.24	28 1-	1/0 ACSR	0	0	1724	169	181	24 11	0.03	2.28	5	
1717109	1717118	2.69	26 1-	1/0 URD PRI AL	0	0	1501	394	178	24 14	0.17	2.44	18	
SW120785-A	1717109	2.69	0 1-	Open	0	0	1501	394	0	0 0	0.00	2.44	0	

CKT 134 total losses: \$7,388

SUB	LINE SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
7, CKT 144	NWBY_144	0.00	550 3-	SBS_99_SBS	5226	5554	5589	176	3291	148 0	0.00	0.00	0	
1716099	NWBY_144	1.85	550 3-	336.4 ACSR	2825	2637	2247	172	3291	148 28	1.74	1.74	3688	
1716116	1716099	2.00	149 3-	1/0 ACSR	2673	2483	2105	172	1043	47 21	0.12	1.86	103	
SW120671-B	1716116	2.00	149 3-	Closed	2673	2483	2105	172	1043	47 0	0.00	1.86	0	

SW120671-A	SW120671-B	2.00	149 3-	Closed	2673	2483	2105	172	1043	47 0	0.00	1.86	0
1716114	SW120671-A	2.37	149 3-	1/0 ACSR	2345	2166	1810	170	1043	47 21	0.28	2.14	231
OC120743	1716114	2.37	127 3-	REC_70_UNK	2345	2166	1810	170	901	41 59	0.00	2.14	0
1716115	OC120743	2.48	127 3-	1/0 ACSR	2260	2089	1736	169	901	41 18	0.08	2.22	58
1716133	1716115	3.68	98 1-	1/0 ACSR	0	0	1199	163	711	97 42	1.42	3.64	571
OC120744	1716133	3.68	14 1-	REC_25_UNK	0	0	1199	163	91	12 50	0.00	3.64	0
1717103	OC120744	4.95	14 1-	1/0 ACSR	0	0	898	158	91	12 5	0.17	3.81	8

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1716110	1716115	2.52	29 3-	1/0 ACSR	2230	2062	1711	169	190	8	4	0.00	2.23	0
1816068	1716110	3.00	16 1-	1/0 ACSR	0	0	1457	167	99	13	6	0.07	2.29	4
1716100	1716099	1.89	349 3-	336.4 ACSR	2800	2612	2222	172	1939	88	17	0.02	1.76	26
OC120747	1716100	1.89	349 3-	REC_70_UNK	2800	2612	2222	172	1939	88	126	0.00	1.76	0
1716101	OC120747	1.93	349 3-	336.4 ACSR	2768	2580	2189	172	1939	88	17	0.03	1.79	35
1716102	1716101	2.01	343 3-	4/0 ACSR	2704	2517	2125	172	1904	86	26	0.06	1.86	88
1716106	1716102	2.02	340 3-	1/0 ACSR	2694	2507	2116	172	1882	85	37	0.02	1.87	23
1716107	1716106	2.33	338 3-	4/0 ACSR	2461	2277	1891	171	1876	85	25	0.26	2.13	348
1716108	1716107	2.37	327 3-	1/0 ACSR	2428	2245	1862	171	1809	82	36	0.06	2.18	84
1716109	1716108	2.63	324 3-	4/0 ACSR	2265	2087	1712	170	1801	82	24	0.21	2.39	272
1816065	1716109	3.31	282 3-	4/0 ACSR	1927	1762	1413	168	1625	74	22	0.49	2.89	586
SW120684-B	1816065	3.31	281 3-	Closed	1927	1762	1413	168	1616	74	0	0.00	2.89	0
SW120684-A	SW120684-B	3.31	281 3-	Closed	1927	1762	1413	168	1616	74	0	0.00	2.89	0
1816038	SW120684-A	5.00	281 3-	4/0 ACSR	1403	1277	985	162	1616	74	22	1.21	4.09	1441
SW120674-B	1816038	5.00	278 3-	Closed	1403	1277	985	162	1590	73	0	0.00	4.09	0
SW120674-A	SW120674-B	5.00	278 3-	Closed	1403	1277	985	162	1590	73	0	0.00	4.09	0
1816039	SW120674-A	5.11	278 3-	4/0 ACSR	1379	1255	966	162	1590	73	22	0.08	4.17	90
1816043	1816039	5.33	158 3-	4/0 ACSR	1332	1213	930	161	707	32	10	0.07	4.24	37
OC120754	1816043	5.33	158 3-	70-L	1332	1213	930	161	707	32	47	0.00	4.24	0
1816044	OC120754	5.39	158 3-	4/0 ACSR	1319	1201	920	161	707	32	10	0.02	4.26	11
1816052	1816044	5.56	154 2-	1/0 ACSR	0	1164	892	160	665	46	20	0.15	4.40	80
OC120756	1816052	5.56	154 2-	REC_35_UNK	0	1164	892	160	664	46	132	0.00	4.40	0
1816053	OC120756	8.33	154 2-	1/0 ACSR	0	756	579	148	664	46	20	2.08	6.48	1008
1816034	1816053	8.38	17 1-	2 ACSR	0	0	574	148	99	13	8	0.02	6.50	2
OC120757	1816034	8.38	15 1-	REC_25_UNK	0	0	574	148	80	11	45	0.00	6.50	0
1816035	OC120757	9.04	15 1-	2 ACSR	0	0	522	144	80	11	6	0.12	6.62	6
1816031	1816035	9.15	1 1-	2 ACSR	0	0	514	143	4	0	0	0.00	6.62	0
1816036	1816035	9.05	0 1-	4 ACSR	0	0	521	144	0	0	0	0.00	6.62	0
SW120786-A	1816036	9.05	0 1-	Open	0	0	521	144	0	0	0	0.00	6.62	0
1816054	1816053	8.47	73 2-	1/0 ACSR	0	743	569	147	336	23	10	0.06	6.55	18
1816032	1816054	8.50	11 1-	4 ACSR	0	0	565	147	46	6	5	0.01	6.56	0
OC120758	1816032	8.50	11 1-	REC_25_UNK	0	0	565	147	46	6	26	0.00	6.56	0
1816033	OC120758	9.35	11 1-	4 ACSR	0	0	487	140	46	6	5	0.21	6.77	8
1815006	1816033	9.91	2 1-	4 ACSR	0	0	445	136	0	0	0	0.00	6.77	0
SW120786-B	1815006	9.91	0 1-	Open	0	0	445	136	0	0	0	0.00	6.77	0
1815005	1816033	10.21	7 1-	4 ACSR	0	0	425	134	33	4	3	0.09	6.86	2
1816055	1816054	8.53	60 2-	1/0 ACSR	0	737	565	147	286	20	9	0.02	6.57	6
SW120679-B	1816055	8.53	60 2-	Closed	0	737	565	147	286	20	0	0.00	6.57	0
SW120679-A	SW120679-B	8.53	60 2-	Closed	0	737	565	147	286	20	0	0.00	6.57	0
1815010	SW120679-A	11.07	60 2-	1/0 ACSR	0	557	428	137	286	20	9	0.50	7.07	80
1815008	1815010	11.12	1 1-	2 ACSR	0	0	426	137	1	0	0	0.00	7.07	0
1815007	1815010	11.13	0 2-	1/0 ACSR	0	554	426	137	0	0	0	0.00	7.07	0
SW120681-B	1815007	11.13	0 2-	Open	0	554	426	137	0	0	0	0.00	7.07	0
1816045	1816044	5.73	3 3-	4/0 ACSR	1255	1142	871	160	40	1	1	0.01	4.26	0
1816046	1816045	6.60	2 3-	4/0 ACSR	1114	1014	765	157	31	1	0	0.01	4.27	0
1816047	1816046	7.19	0 3-	4/0 ACSR	1035	942	707	156	0	0	0	0.00	4.27	0
SW120677-A	1816047	7.19	0 3-	Open	1035	942	707	156	0	0	0	0.00	4.27	0
1816058	1816046	6.94	1 1-	4 ACSR	0	0	709	154	8	1	1	0.01	4.28	0
OC120668	1816045	5.73	0 3-	_DefaultBayEqui	1255	1142	871	160	0	0	0	0.00	4.26	0
1816040	1816039	5.17	119 3-	4/0 ACSR	1365	1242	956	162	867	40	12	0.02	4.19	16
OC120751	1816040	5.17	119 3-	REC_50_UNK	1365	1242	956	162	867	40	80	0.00	4.19	0
1816041	OC120751	5.32	119 3-	4/0 ACSR	1334	1214	931	161	867	40	12	0.06	4.25	37

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
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LINE SECT	PRIOR SECT	MILES CONS	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
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 SUB 7 total losses: \$24,820

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS	
SUB SUB	8 WEST BEREA 8, CRT 104		2377		5711	5899	5961	176	12230						
	WBEB_104	WEST BEREA	0.00	635 3-	SBS_99_SBS	5711	5899	5961	176	3755	169	0	0.00	0.00	0
	2017343	WBEB_104	0.05	635 3-	1/0 URD PRI AL	5606	5746	5836	466	3755	169	100	0.16	0.16	525
	2017265	2017343	0.05	0 3-	336.4 ACSR	5590	5726	5808	176	0	0	0.00	0.16	0	
	SW121136-A	2017265	0.05	0 3-	Open	5590	5726	5808	176	0	0	0.00	0.16	0	
	2017232	2017343	0.39	635 3-	336.4 ACSR	4817	4779	4605	175	3750	169	32	0.40	0.55	951
	2017233	2017232	0.65	632 3-	336.4 ACSR	4339	4232	3954	175	3659	166	31	0.29	0.85	680
	2017237	2017233	0.76	626 3-	4/0 ACSR	4128	4000	3677	174	3496	159	47	0.17	1.02	428
	1917274	2017237	1.07	502 3-	4/0 ACSR	3614	3451	3053	174	3122	142	42	0.45	1.46	981
	1917186	1917274	1.47	46 3-	336.4 ACSR	3206	3022	2596	173	281	12	2	0.02	1.48	2
	1917189	1917274	1.31	450 3-	4/0 ACSR	3292	3116	2696	173	2810	128	38	0.31	1.78	624
	1917184	1917189	1.37	64 3-	1/0 ACSR	3203	3022	2606	172	325	14	6	0.02	1.79	4
	OC121023	1917184	1.37	64 3-	70-L	3203	3022	2606	172	325	14	21	0.00	1.79	0
	1917185	OC121023	1.95	64 3-	1/0 ACSR	2537	2342	1980	170	325	14	6	0.12	1.91	29
	1917235	1917185	2.58	16 1-	4 ACSR	0	0	1409	163	76	10	7	0.15	2.06	7
	1917226	1917185	1.96	22 1-	4 ACSR	0	0	1973	170	137	18	13	0.00	1.92	0
	1917212	1917189	1.60	386 3-	4/0 ACSR	2977	2794	2367	172	2479	113	33	0.33	2.10	575
	SW120928-B	1917212	1.60	386 3-	Closed	2977	2794	2367	172	2474	113	0	0.00	2.10	0
	SW120928-A	SW120928-B	1.60	386 3-	Closed	2977	2794	2367	172	2474	113	0	0.00	2.10	0
	1917213	SW120928-A	1.94	386 3-	4/0 ACSR	2672	2488	2066	171	2474	113	33	0.38	2.49	679
	1917206	1917213	2.09	245 3-	4/0 ACSR	2555	2372	1956	170	1824	84	25	0.13	2.61	166
	1917191	1917206	2.10	245 3-	1/0 ACSR	2549	2367	1951	170	1823	84	37	0.01	2.62	13
	OC121026	1917191	2.10	245 3-	70-L	2549	2367	1951	170	1823	84	120	0.00	2.62	0
	1917192	OC121026	3.05	245 3-	1/0 ACSR	1879	1733	1395	166	1823	84	37	1.39	4.01	2071
	1917144	1917192	3.27	13 1-	1/0 ACSR	0	0	1307	165	71	9	4	0.02	4.03	0
	SW121249-A	1917144	3.27	0 1-	Open	0	0	1307	165	0	0	0	0.00	4.03	0
	1917193	1917192	3.09	228 3-	1/0 ACSR	1860	1716	1380	166	1708	79	35	0.05	4.06	72
	1917181	1917193	3.30	78 3-	1/0 ACSR	1758	1625	1299	165	433	20	9	0.07	4.13	23
	1917143	1917181	3.51	10 1-	1/0 ACSR	0	0	1224	164	61	8	4	0.02	4.15	0
	SW121249-B	1917143	3.51	0 1-	Open	0	0	1224	164	0	0	0.00	4.15	0	
	1917182	1917181	3.40	56 3-	1/0 ACSR	1711	1582	1262	164	301	13	6	0.02	4.15	6
	1917183	1917182	3.52	41 3-	1/0 ACSR	1657	1534	1221	164	243	11	5	0.02	4.17	3
	1917154	1917183	3.68	22 2-	1/0 ACSR	0	1476	1173	163	130	9	4	0.02	4.18	1
	1917142	1917154	3.75	4 1-	1/0 ACSR	0	0	1151	162	25	3	2	0.00	4.19	0
	SW121250-B	1917142	3.75	0 1-	Open	0	0	1151	162	0	0	0.00	4.19	0	
	1917138	1917182	3.40	10 1-	1/0 ACSR	0	0	1260	164	26	3	2	0.00	4.15	0
	SW121020-B	1917138	3.40	10 1-	Closed	0	0	1260	164	26	3	0	0.00	4.15	0
	SW121020-A	SW121020-B	3.40	10 1-	Closed	0	0	1260	164	26	3	0	0.00	4.15	0
	1917140	SW121020-A	3.67	10 1-	1/0 ACSR	0	0	1174	163	26	3	2	0.02	4.17	0
	1917141	1917140	4.26	9 1-	4 ACSR	0	0	955	157	26	3	3	0.05	4.22	0
	1917239	1917141	4.26	2 1-	1/0 URD PRI AL	0	0	954	344	2	0	0	0.00	4.22	0
	1917194	1917193	3.27	150 3-	1/0 ACSR	1770	1635	1309	165	1274	59	26	0.19	4.25	197
	1917137	1917194	3.34	0 1-	1/0 ACSR	0	0	1284	164	0	0	0	0.00	4.25	0
	SW121250-A	1917137	3.34	0 1-	Open	0	0	1284	164	0	0	0	0.00	4.25	0
	1917195	1917194	3.87	147 3-	1/0 ACSR	1524	1415	1118	162	1258	58	26	0.57	4.82	575
	1917136	1917195	4.30	23 1-	1/0 ACSR	0	0	1009	160	196	27	12	0.13	4.95	14
	1917196	1917195	3.94	98 3-	1/0 ACSR	1498	1391	1098	162	906	42	18	0.05	4.87	41
	OC121029	1917196	3.94	91 3-	REC_50_UNK	1498	1391	1098	162	871	40	82	0.00	4.87	0
	1917197	OC121029	4.36	91 3-	1/0 ACSR	1364	1270	996	160	871	40	18	0.30	5.17	217
	1917200	1917197	4.47	1 3-	1/0 ACSR	1332	1242	972	159	157	7	3	0.01	5.18	2
	SW120931-B	1917200	4.47	1 3-	Closed	1332	1242	972	159	157	7	0	0.00	5.18	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW120931-A	SW120931-B	4.47	1 3-	Closed	1332	1242	972	159	157	7	0	0.00	5.18	0
1917207	SW120931-A	4.86	1 3-	1/0 ACSR	1233	1152	898	157	157	7	3	0.05	5.23	7
1917251	1917207	4.91	1 3-	1/0 URD PRI AL	1224	1143	892	342	157	7	4	0.01	5.24	0
1917994	1917251	4.91	1 3-	Consumer	1224	1143	892	342	157	7	0	0.00	5.24	0
1917198	1917197	4.61	87 3-	1/0 ACSR	1297	1209	946	159	698	32	14	0.14	5.31	81
1917199	1917198	6.65	63 3-	1/0 ACSR	915	860	662	150	618	29	13	1.01	6.31	515
SW120934-B	1917199	6.65	45 3-	Closed	915	860	662	150	583	27	0	0.00	6.31	0
SW120934-A	SW120934-B	6.65	45 3-	Closed	915	860	662	150	583	27	0	0.00	6.31	0
1817007	SW120934-A	8.95	45 3-	1/0 ACSR	685	648	494	140	583	27	12	0.99	7.30	457
1818004	1817007	8.99	1 3-	1/0 URD PRI AL	683	645	493	263	384	18	11	0.01	7.32	5
1818999	1818004	8.99	1 3-	Consumer	683	645	493	263	384	18	0	0.00	7.32	0
1818003	1817007	9.35	7 3-	1/0 ACSR	656	621	473	139	78	3	2	0.01	7.32	0
1917232	1917198	4.79	22 1-	4 ACSR	0	0	893	157	75	10	8	0.09	5.40	6
OC121030	1917232	4.79	22 1-	REC_25_UNK	0	0	893	157	75	10	42	0.00	5.40	0
1917233	OC121030	5.35	22 1-	4 ACSR	0	0	763	152	75	10	8	0.24	5.64	15
SW120935-B	1917233	5.35	19 1-	Closed	0	0	763	152	61	8	0	0.00	5.64	0
SW120935-A	SW120935-B	5.35	19 1-	Closed	0	0	763	152	61	8	0	0.00	5.64	0
1917234	SW120935-A	6.42	19 1-	4 ACSR	0	0	592	143	61	8	6	0.21	5.85	8
1917214	1917213	2.36	140 3-	4/0 ACSR	2369	2189	1785	170	629	28	8	0.12	2.61	55
SW120938-B	1917214	2.36	139 3-	Closed	2369	2189	1785	170	628	28	0	0.00	2.61	0
SW120938-A	SW120938-B	2.36	139 3-	Closed	2369	2189	1785	170	628	28	0	0.00	2.61	0
1917215	SW120938-A	2.48	139 3-	4/0 ACSR	2292	2114	1716	169	628	28	8	0.04	2.64	16
SW120941-B	1917215	2.48	139 3-	Closed	2292	2114	1716	169	628	28	0	0.00	2.64	0
SW120941-A	SW120941-B	2.48	139 3-	Closed	2292	2114	1716	169	628	28	0	0.00	2.64	0
1917216	SW120941-A	2.54	139 3-	4/0 ACSR	2258	2081	1686	169	628	28	8	0.02	2.66	7
1917221	1917216	2.60	15 3-	4/0 ACSR	2223	2047	1654	169	91	4	1	0.00	2.66	0
1917222	1917221	2.66	15 3-	4/0 ACSR	2190	2015	1625	169	91	4	1	0.00	2.66	0
1917204	1917222	2.73	0 3-	4/0 ACSR	2152	1979	1593	168	0	0	0	0.00	2.66	0
1917205	1917204	2.79	0 3-	1/0 ACSR	2112	1939	1560	168	0	0	0	0.00	2.66	0
SW120282-B	1917205	2.79	0 3-	Open	2112	1939	1560	168	0	0	0	0.00	2.66	0
1917223	1917222	2.73	15 3-	1/0 ACSR	2146	1972	1590	168	91	4	2	0.00	2.67	0
SW120944-B	1917223	2.73	13 3-	Closed	2146	1972	1590	168	57	2	0	0.00	2.67	0
SW120944-A	SW120944-B	2.73	13 3-	Closed	2146	1972	1590	168	57	2	0	0.00	2.67	0
1917201	SW120944-A	3.36	13 3-	1/0 ACSR	1791	1644	1310	165	57	2	1	0.01	2.68	0
1917135	1917201	3.36	0 1-	4 ACSR	0	0	1307	165	0	0	0	0.00	2.68	0
SW120310-B	1917135	3.36	0 1-	Open	0	0	1307	165	0	0	0	0.00	2.68	0
1917202	1917201	3.49	0 3-	1/0 ACSR	1728	1589	1261	165	0	0	0	0.00	2.68	0
1917276	1917202	3.54	0 3-	336.4 ACSR	1716	1577	1250	165	0	0	0	0.00	2.68	0
SW120335-B	1917276	3.54	0 3-	Open	1716	1577	1250	165	0	0	0	0.00	2.68	0
1917275	1917202	3.65	0 3-	336.4 ACSR	1687	1550	1226	164	0	0	0	0.00	2.68	0
SW120238-B	1917275	3.65	0 3-	Open	1687	1550	1226	164	0	0	0	0.00	2.68	0
SW120344-B	1917221	2.60	0 3-	Open	2223	2047	1654	169	0	0	0	0.00	2.66	0
1917217	1917216	2.62	124 3-	1/0 ACSR	2203	2027	1640	169	537	24	11	0.03	2.69	15
OC121033	1917217	2.62	124 3-	70-L	2203	2027	1640	169	537	24	35	0.00	2.69	0
1917218	OC121033	2.91	124 3-	1/0 ACSR	2017	1843	1490	167	537	24	11	0.12	2.81	54
1917133	1917218	3.07	27 1-	4 ACSR	0	0	1386	166	105	14	10	0.10	2.91	8
OC121034	1917133	3.07	21 1-	REC_25_UNK	0	0	1386	166	85	11	47	0.00	2.91	0
1917134	OC121034	3.80	21 1-	4 ACSR	0	0	1039	158	85	11	8	0.19	3.10	10
1917219	1917218	3.20	95 3-	1/0 ACSR	1856	1703	1363	166	424	19	8	0.10	2.91	34
1917220	1917219	3.59	77 3-	1/0 ACSR	1672	1540	1221	164	353	16	7	0.11	3.02	31
1917130	1917220	3.68	63 1-	1/0 ACSR	0	0	1194	164	302	41	18	0.08	3.10	19
OC121035	1917130	3.68	63 1-	REC_35_UNK	0	0	1194	164	301	41	119	0.00	3.10	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1917131	OC121035	3.75	63 1-	1/0 ACSR	0	0	1171	163	301	41	18	0.07	3.17	16
1917132	1917131	5.36	63 1-	4 ACSR	0	0	711	148	301	41	30	1.52	4.69	270
1917229	1917220	3.64	8 1-	1/0 ACSR	0	0	1205	164	31	4	2	0.00	3.02	0
OC121036	1917229	3.64	8 1-	REC_25_UNK	0	0	1205	164	31	4	17	0.00	3.02	0
1917230	OC121036	4.06	8 1-	1/0 ACSR	0	0	1085	162	31	4	2	0.03	3.06	0
1917231	1917230	4.97	4 1-	4 ACSR	0	0	815	153	20	2	2	0.06	3.11	0
1917225	1917219	4.18	15 1-	4 ACSR	0	0	945	156	65	8	6	0.20	3.11	8
2017238	2017237	0.97	123 3-	336.4 ACSR	3828	3672	3300	174	364	16	3	0.02	1.04	6
2017348	2017238	0.99	1 1-	1/0 URD PRI AL	0	0	3271	450	0	0	0	0.00	1.04	0
SW121248-A	2017348	0.99	0 1-	Open	0	0	3271	450	0	0	0	0.00	1.04	0
2017253	2017238	1.04	122 3-	336.4 ACSR	3742	3579	3195	174	364	16	3	0.01	1.05	2
2017254	2017253	1.10	57 3-	336.4 ACSR	3674	3507	3115	174	180	8	2	0.00	1.05	0
1917272	2017254	1.39	57 1-	1/0 URD PRI AL	0	0	2689	434	180	24	14	0.11	1.17	12
1917273	2017253	1.39	64 1-	1/0 URD PRI AL	0	0	2673	432	182	24	15	0.14	1.19	15
SW121248-B	1917273	1.39	0 1-	Open	0	0	2673	432	0	0	0	0.00	1.19	0
2017996	2017232	0.39	1 1-	Consumer	0	0	4605	175	68	9	0	0.00	0.55	0
CKT 104 total losses:	\$10,558													
SUB 8, CKT 114														
WBEB_114	WEST BERA	0.00	53 3-	SBS_99_SBS	5711	5899	5961	176	476	23	0	0.00	0.00	0
2017247	WBEB_114	0.17	53 3-	336.4 ACSR	5268	5264	5210	176	476	23	4	0.00	0.00	9
2017249	2017247	0.56	13 3-	336.4 ACSR	4481	4365	4094	175	267	16	3	-0.03	-0.03	9
2017250	2017249	0.75	9 3-	336.4 ACSR	4177	4032	3708	175	185	8	2	0.01	-0.03	0
2017252	2017250	0.91	5 3-	336.4 ACSR	3941	3778	3424	174	142	6	1	0.01	-0.02	0
2017229	2017252	1.02	4 3-	336.4 ACSR	3797	3624	3247	174	142	6	1	0.00	-0.02	0
2017230	2017229	1.32	1 3-	4/0 ACSR	3385	3198	2805	173	0	0	0	0.00	-0.02	0
2017231	2017230	1.32	1 3-	6 ACWC	3381	3193	2800	173	0	0	0	0.00	-0.02	0
2017227	2017252	0.96	1 3-	336.4 ACSR	3873	3706	3340	174	1	0	0	0.00	-0.02	0
SW121039-B	2017227	0.96	1 3-	Closed	3873	3706	3340	174	1	0	0	0.00	-0.02	0
SW121039-A	SW121039-B	0.96	1 3-	Closed	3873	3706	3340	174	1	0	0	0.00	-0.02	0
2017228	SW121039-A	1.02	1 3-	336.4 ACSR	3801	3629	3252	174	1	0	0	0.00	-0.02	0
2017251	2017250	0.79	0 3-	336.4 ACSR	4114	3963	3631	175	0	0	0	0.00	-0.03	0
SW120363-B	2017251	0.79	0 3-	Open	4114	3963	3631	175	0	0	0	0.00	-0.03	0
CA120029	2017249	0.56	0 3-	Capacitor	4481	4365	4094	175	0	-14	0	0.00	-0.03	0
2017248	2017247	0.39	35 3-	336.4 ACSR	4797	4717	4491	175	207	9	2	0.01	0.00	0
CKT 114 total losses:	\$18													
SUB 8, CKT 124														
WBEB_124	WEST BERA	0.00	961 3-	SBS_99_SBS	5711	5899	5961	176	4526	202	0	0.00	0.00	0
2017278	WBEB_124	0.07	961 3-	336.4 ACSR	5536	5612	5654	176	4526	202	38	0.08	0.08	262
2017279	2017278	0.53	961 3-	336.4 ACSR	4544	4432	4136	175	4523	202	38	0.57	0.66	1797
2017300	2017279	0.64	45 3-	336.4 ACSR	4350	4216	3876	175	164	7	1	0.00	0.66	0
2017327	2017300	1.05	19 1-	1/0 URD PRI AL	0	0	3063	437	75	10	6	0.06	0.73	3
SW121256-A	2017327	1.05	0 1-	Open	0	0	3063	437	0	0	0	0.00	0.73	0
2017301	2017300	0.77	15 3-	336.4 ACSR	4144	3992	3614	175	51	2	0	0.00	0.66	0
2017350	2017301	1.24	14 1-	1/0 URD PRI AL	0	0	2792	432	47	6	4	0.05	0.71	1
SW121257-A	2017350	1.24	0 1-	Open	0	0	2792	432	0	0	0	0.00	0.71	0
2017280	2017279	0.67	895 3-	336.4 ACSR	4296	4157	3806	175	4243	190	36	0.17	0.83	514
2017241	2017280	0.77	829 3-	336.4 ACSR	4143	3990	3612	175	3970	178	34	0.11	0.94	305
2017193	2017241	1.18	22 1-	1/0 ACSR	0	0	2785	173	121	16	7	0.07	1.01	5
2017297	2017241	0.92	807 3-	336.4 ACSR	3932	3764	3354	174	3846	172	33	0.15	1.09	428
2017291	2017297	1.01	779 3-	336.4 ACSR	3819	3644	3220	174	3743	168	32	0.09	1.18	237

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
2017323	2017291	1.78	22 1-	1/0 ACSR	0	0	2123	170	77	10	5	0.09	1.27	4
SW121255-B	2017323	1.78	0 1-	Open	0	0	2123	170	0	0	0	0.00	1.27	0
2017242	2017291	1.48	755 3-	336.4 ACSR	3294	3098	2638	173	3659	164	31	0.46	1.64	1233
2017292	2017242	1.50	125 3-	1/0 ACSR	3265	3069	2610	173	594	27	12	0.01	1.65	5
OC121122	2017292	1.50	125 3-	70-L	3265	3069	2610	173	594	27	39	0.00	1.65	0
2017298	OC121122	1.93	125 3-	1/0 ACSR	2741	2535	2124	171	594	27	12	0.16	1.81	68
2017205	2017298	2.00	7 1-	4 ACSR	0	0	2036	170	38	5	4	0.02	1.83	0
2017326	2017205	2.05	6 1-	1/0 URD PRI AL	0	0	1997	421	38	5	3	0.01	1.84	0
2017191	2017326	2.14	6 1-	4 ACSR	0	0	1900	169	38	5	4	0.02	1.85	0
2017192	2017191	2.40	3 1-	1/0 ACSR	0	0	1711	168	26	3	2	0.01	1.86	0
SW121254-A	2017192	2.40	0 1-	Open	0	0	1711	168	0	0	0	0.00	1.86	0
2017299	2017298	2.09	74 3-	1/0 ACSR	2582	2376	1984	170	320	14	6	0.04	1.85	9
2017293	2017299	2.12	64 3-	4 ACSR	2531	2335	1941	170	276	12	9	0.02	1.87	5
2017294	2017293	2.24	63 3-	1/0 ACSR	2425	2240	1851	169	276	12	5	0.03	1.89	6
2017319	2017294	2.31	9 1-	6 ACWC	0	0	1786	169	19	2	2	0.01	1.90	0
2017320	2017319	2.51	7 1-	4 ACSR	0	0	1601	166	15	2	1	0.01	1.91	0
2017321	2017320	2.61	4 1-	6 ACWC	0	0	1526	165	5	0	0	0.00	1.91	0
2017204	2017294	2.80	53 1-	6 ACWC	0	0	1392	164	252	34	25	0.59	2.48	102
2017196	2017204	3.18	12 1-	4 ACSR	0	0	1178	160	53	7	5	0.06	2.55	2
2017195	2017204	2.81	0 1-	1/0 ACSR	0	0	1390	164	0	0	0	0.00	2.48	0
SW121254-B	2017195	2.81	0 1-	Open	0	0	1390	164	0	0	0	0.00	2.48	0
2017194	2017204	3.38	7 1-	4 ACSR	0	0	1090	158	38	5	4	0.07	2.55	2
2017255	2017242	1.83	621 3-	336.4 ACSR	2986	2787	2323	173	3019	135	26	0.27	1.91	600
2017226	2017255	2.22	14 3-	4 ACSR	2407	2249	1835	168	97	4	3	0.03	1.94	2
2017256	2017255	2.42	555 3-	336.4 ACSR	2581	2387	1937	171	2736	123	23	0.38	2.29	779
2017260	2017256	2.44	487 3-	1/0 ACSR	2563	2369	1922	171	2229	100	44	0.03	2.32	62
OC121116	2017260	2.44	487 3-	REC_100_UNK	2563	2369	1922	171	2229	100	100	0.00	2.32	0
2017243	OC121116	3.14	487 3-	1/0 ACSR	2050	1880	1504	168	2229	100	44	0.97	3.29	1797
2017244	2017243	3.49	422 3-	1/0 ACSR	1851	1704	1350	166	1756	81	35	0.48	3.77	669
2017261	2017244	3.68	274 3-	1/0 ACSR	1761	1625	1281	165	1025	47	21	0.15	3.92	124
2017202	2017261	3.84	15 1-	4 ACSR	0	0	1205	164	41	5	4	0.04	3.95	1
OC121123	2017202	3.84	12 1-	REC_99_UNK	0	0	1205	164	33	4	0	0.00	3.95	0
2017203	OC121123	4.11	12 1-	4 ACSR	0	0	1087	161	33	4	3	0.03	3.98	0
2017262	2017261	3.94	250 3-	1/0 ACSR	1646	1522	1194	164	922	42	19	0.19	4.11	149
2017263	2017262	4.17	241 3-	2 ACSR	1540	1430	1116	162	913	42	24	0.25	4.36	201
2017264	2017263	4.40	234 3-	1/0 ACSR	1461	1360	1057	161	892	41	18	0.16	4.52	119
OC121126	2017264	4.40	230 3-	50-L	1461	1360	1057	161	872	40	81	0.00	4.52	0
2017223	OC121126	4.48	230 3-	1/0 ACSR	1433	1334	1036	161	872	40	18	0.06	4.58	45
2017224	2017223	5.04	151 3-	1/0 ACSR	1277	1192	921	158	562	26	11	0.20	4.79	84
2017225	2017224	5.54	59 3-	1/0 ACSR	1160	1085	835	156	212	9	4	0.06	4.84	8
2117002	2017225	6.32	29 1-	2 ACSR	0	0	711	151	74	10	6	0.13	4.97	5
2017306	2017224	5.18	45 1-	4 ACSR	0	0	883	157	142	19	14	0.11	4.89	12
2017307	2017306	5.26	20 1-	4 ACSR	0	0	861	156	59	8	6	0.02	4.91	0
2017336	2017307	5.30	2 1-	1/0 URD PRI AL	0	0	855	336	9	1	1	0.00	4.91	0
SW121253-B	2017336	5.30	0 1-	Open	0	0	855	336	0	0	0	0.00	4.91	0
2017346	2017306	5.26	14 1-	1/0 URD PRI AL	0	0	869	338	39	5	3	0.01	4.90	0
SW121253-A	2017346	5.26	0 1-	Open	0	0	869	338	0	0	0	0.00	4.90	0
2017206	2017223	4.92	78 2-	1/0 ACSR	0	1213	942	159	307	21	9	0.16	4.74	36
2017303	2017206	4.95	44 1-	2 ACSR	0	0	935	159	153	21	12	0.02	4.76	3
2017304	2017303	5.41	42 1-	1/0 ACSR	0	0	854	157	144	20	9	0.01	4.87	9
2017305	2017304	5.73	4 1-	6 ACWC	0	0	783	154	10	1	1	0.01	4.88	0
2017200	2017206	5.35	13 1-	6 ACWC	0	0	832	155	67	9	7	0.17	4.91	9

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
2017201	2017200	5.67	11 1-	4 ACSR	0	0	763	152	57	8	6	0.06	4.97	2
2017245	2017244	4.93	116 3-	1/0 ACSR	1319	1228	950	159	540	25	11	0.42	4.19	148
2017199	2017245	4.99	1 1-	4 ACSR	0	0	930	159	8	1	1	0.00	4.19	0
2017246	2017245	5.00	38 3-	1/0 ACSR	1300	1211	936	159	182	8	4	0.01	4.20	1
2017198	2017246	5.97	32 1-	4 ACSR	0	0	715	150	162	22	16	0.50	4.70	48
CA120032	2017243	3.14	0 3-	Capacitor	2050	1880	1504	168	0	-14	0	0.00	3.29	0
2017257	2017256	2.56	38 3-	1/0 ACSR	2466	2271	1840	171	175	8	3	0.02	2.31	2
2017259	2017257	2.60	33 3-	2 ACSR	2428	2233	1809	170	159	7	4	0.01	2.32	0
2017315	2017259	2.60	27 1-	4 ACSR	0	0	1804	170	115	15	11	0.00	2.32	0
OC121127	2017315	2.60	27 1-	REC_25_UNK	0	0	1804	170	115	15	63	0.00	2.32	0
2017316	OC121127	2.62	27 1-	4 ACSR	0	0	1786	170	115	15	11	0.01	2.33	1
2017317	2017316	2.68	25 1-	2 ACSR	0	0	1740	170	111	15	8	0.03	2.36	2
2017318	2017317	2.84	21 1-	6 ACWC	0	0	1609	168	97	13	10	0.08	2.44	5
2017302	2017318	3.16	13 1-	4 ACSR	0	0	1388	165	55	7	5	0.05	2.49	2
2017258	2017257	2.58	0 3-	1/0 ACSR	2447	2253	1825	171	0	0	0	0.00	2.31	0
SW121051-A	2017258	2.58	0 3-	Open	2447	2253	1825	171	0	0	0	0.00	2.31	0
2017314	2017297	1.32	26 1-	1/0 ACSR	0	0	2634	172	98	13	6	0.06	1.15	3
2017281	2017280	0.71	61 3-	1/0 ACSR	4223	4077	3718	175	244	11	5	0.01	0.83	1
OC121119	2017281	0.71	59 3-	REC_50_UNK	4223	4077	3718	175	241	10	22	0.00	0.83	0
2017282	OC121119	0.74	59 3-	1/0 ACSR	4147	3995	3629	175	241	10	5	0.01	0.84	1
2017345	2017282	1.12	33 1-	1/0 URD PRI AL	0	0	2936	435	134	18	11	0.11	0.95	9
2017289	2017282	1.15	22 3-	1/0 ACSR	3379	3180	2791	173	91	4	2	0.02	0.86	0
2017324	2017289	1.15	0 1-	1/0 ACSR	0	0	2782	172	0	0	0	0.00	0.86	0
SW121255-A	2017324	1.15	0 1-	Open	0	0	2782	172	0	0	0	0.00	0.86	0
2017290	2017289	1.21	3 3-	336.4 ACSR	3317	3116	2721	172	3	0	0	0.00	0.86	0
2017325	2017290	1.30	2 1-	1/0 URD PRI AL	0	0	2608	435	2	0	0	0.00	0.86	0
SW121256-B	2017325	1.30	0 1-	Open	0	0	2608	435	0	0	0	0.00	0.86	0
2017296	2017290	1.29	1 3-	336.4 ACSR	3238	3034	2633	172	1	0	0	0.00	0.86	0
2017349	2017296	1.33	0 1-	1/0 URD PRI AL	0	0	2590	436	0	0	0	0.00	0.86	0
SW121257-B	2017349	1.33	0 1-	Open	0	0	2590	436	0	0	0	0.00	0.86	0
2017240	2017296	1.38	1 3-	336.4 ACSR	3157	2953	2545	172	1	0	0	0.00	0.86	0
2017295	2017240	1.42	1 2-	1/0 ACSR	0	2899	2497	172	1	0	0	0.00	0.86	0
SW121260-B	2017278	0.07	0 3-	Open	5536	5612	5654	176	0	0	0	0.00	0.86	0
CKT 124 total losses:		\$9,927												

SUB	LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 8, CKT 134															
WBER_134															
2017234	WBER_134	0.03	413 3-	SBS_99_SBS	5711	5899	5961	176	2244	99	0	0.00	0.00	0	
2017283	WBER_134	0.03	413 3-	336.4 ACSR	5639	5778	5832	176	2244	99	19	0.01	0.01	26	
2017283	2017234	2.39	413 3-	336.4 ACSR	2599	2404	1953	171	2244	99	19	1.16	1.17	1960	
SW121130-B	2017283	2.39	350 3-	Closed	2599	2404	1953	171	1873	83	0	0.00	0.17	0	
SW121130-A	SW121130-B	2.39	350 3-	Closed	2599	2404	1953	171	1873	83	0	0.00	0.17	0	
2017284	SW121130-A	2.48	350 3-	336.4 ACSR	2546	2352	1905	171	1873	83	16	0.04	1.21	57	
2017285	2017284	3.17	329 3-	1/0 ACSR	2045	1875	1499	168	1772	78	34	0.79	2.00	1240	
2017310	2017285	3.25	14 1-	6 ACWC	0	0	1447	167	73	10	7	0.03	2.03	2	
2017311	2017310	3.52	9 1-	4 ACSR	0	0	1290	164	51	6	5	0.08	2.12	4	
2017312	2017311	3.64	9 1-	2 ACSR	0	0	1239	163	51	6	4	0.03	2.14	0	
2017313	2017312	4.14	9 1-	4 ACSR	0	0	1024	158	51	6	5	0.08	2.22	2	
2017286	2017285	3.47	289 3-	1/0 ACSR	1874	1724	1366	166	1562	69	30	0.31	2.31	448	
2017288	2017286	3.90	256 3-	1/0 ACSR	1672	1544	1212	164	1410	63	28	0.39	2.70	514	
2017276	2017288	4.04	244 3-	1/0 ACSR	1615	1494	1170	164	1329	59	26	0.12	2.82	153	
OC121187	2017276	4.04	241 3-	70-L	1615	1494	1170	164	1321	59	85	0.00	2.82	0	
2017277	OC121187	4.22	241 3-	1/0 ACSR	1546	1432	1118	163	1321	59	26	0.15	2.98	196	

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
2017268	2017277	4.44	158 3-	1/0 ACSR	1470	1363	1061	162	867	39 17	0.11	3.08	103	
SW121134-B	2017268	4.44	147 3-	Closed	1470	1363	1061	162	817	37 0	0.00	3.08	0	
SW121134-A	SW121134-B	4.44	147 3-	Closed	1470	1363	1061	162	817	37 0	0.00	3.08	0	
2017269	SW121134-A	4.57	147 3-	1/0 ACSR	1431	1328	1032	161	817	37 16	0.05	3.14	52	
2017270	2017269	4.83	145 3-	2/0 ACSR	1360	1264	978	160	798	36 14	0.08	3.21	75	
2017271	2017270	6.06	119 3-	1/0 ACSR	1079	1009	773	155	666	31 14	0.28	3.49	261	
2017273	2017271	6.19	50 3-	1/0 ACSR	1056	988	756	154	335	15 7	0.03	3.52	8	
2017274	2017273	6.49	37 3-	1/0 ACSR	1006	942	720	153	241	11 5	0.03	3.55	4	
SW121051-B	2017274	6.49	0 3-	Open	1006	942	720	153	0	0 0	0.00	3.55	0	
2017309	2017273	6.40	3 1-	4 ACSR	0	0	718	152	25	3 2	0.02	3.54	0	
2017272	2017271	6.24	3 3-	1/0 ACSR	1046	979	749	154	61	13 6	-0.03	3.46	11	
CA120035	2017272	6.24	0 3-	Capacitor	1046	979	749	154	0	-14 0	0.00	3.46	0	
2017267	2017277	4.30	75 3-	1/0 ACSR	1517	1406	1094	162	415	19 8	0.03	3.60	9	
2017308	2017267	4.70	37 1-	1/0 ACSR	0	0	1000	160	210	28 13	0.13	3.13	14	
2017197	2017267	5.32	30 1-	1/0 ACSR	0	0	880	158	166	22 10	0.26	3.26	22	
2017332	2017288	4.06	0 1-	4 ACSR	0	0	1141	163	0	0 0	0.00	2.70	0	
SW121131-A	2017332	4.06	0 1-	Open	0	0	1141	163	0	0 0	0.00	2.70	0	
2017287	2017286	3.72	20 3-	4 ACSR	1690	1573	1234	164	92	4 3	0.03	2.35	2	
2017328	2017287	3.96	9 1-	4 ACSR	0	0	1128	161	49	6 5	0.07	2.41	3	
2017330	2017328	4.06	8 1-	4 ACSR	0	0	1086	160	43	5 4	0.03	2.44	0	
OC121184	2017330	4.06	8 1-	25-H	0	0	1086	160	43	5 24	0.00	2.44	0	
2017331	OC121184	4.85	8 1-	4 ACSR	0	0	837	153	43	5 4	0.11	2.55	3	
SW121131-B	2017331	4.85	0 1-	Open	0	0	837	153	0	0 0	0.00	2.55	0	
2017329	2017328	3.96	0 1-	4 ACSR	0	0	1126	161	0	0 0	0.00	2.41	0	
SW121261-A	2017329	3.96	0 1-	Open	0	0	1126	161	0	0 0	0.00	2.41	0	
2017235	2017234	0.04	0 3-	336.4 ACSR	5616	5740	5792	176	0	0 0	0.00	0.01	0	
SW121136-B	2017235	0.04	0 3-	Open	5616	5740	5792	176	0	0 0	0.00	0.01	0	
CKT 134 total losses:	\$5,169													
SUB	8, CKT 144													
WBER_144	WEST BERE A	0.00	315 3-	SBS_99_SBS	5711	5899	5961	176	1229	55 0	0.00	0.00	0	
2017266	WBER_144	0.04	315 3-	336.4 ACSR	5615	5747	5798	176	1229	55 10	0.01	0.01	11	
2017222	2017266	2.70	315 3-	336.4 ACSR	2428	2237	1799	171	1229	55 10	0.94	0.95	725	
1917236	2017222	2.71	52 1-	1/0 ACSR	0	0	1787	171	187	25 11	0.01	0.96	1	
1917237	1917236	2.72	52 1-	4 ACSR	0	0	1782	171	187	25 18	0.01	0.97	0	
OC121227	1917237	2.72	52 1-	REC_70_UNK	0	0	1782	171	187	25 36	0.00	0.97	0	
1917240	OC121227	2.73	1 1-	1/0 ACSR	0	0	1778	171	5	0 0	0.00	0.97	0	
2017366	OC121227	3.84	51 1-	4 ACSR	0	0	1090	159	182	24 18	1.19	2.16	180	
2017365	2017366	4.65	4 1-	4 ACSR	0	0	831	152	13	1 1	0.03	2.19	0	
2016007	2017366	4.17	42 1-	4 ACSR	0	0	969	156	147	20 14	0.30	2.46	39	
2016010	2016007	4.17	19 1-	4 ACSR	0	0	967	156	95	13 9	0.00	2.46	0	
OC121247	2016010	4.17	19 1-	25-H	0	0	967	156	95	13 52	0.00	2.46	0	
2016011	OC121247	5.97	19 1-	4 ACSR	0	0	593	141	95	13 9	0.53	3.00	30	
2016008	2016007	4.33	23 1-	4 ACSR	0	0	918	155	52	7 5	0.05	2.51	2	
OC121246	2016008	4.33	21 1-	25-H	0	0	918	155	46	6 25	0.00	2.51	0	
2016009	OC121246	5.86	21 1-	4 ACSR	0	0	607	142	46	6 4	0.22	2.73	6	
SW121261-B	2016009	5.86	0 1-	Open	0	0	607	142	0	0 0	0.00	2.73	0	
1917180	2017222	3.38	231 3-	336.4 ACSR	2112	1933	1524	169	899	40 8	0.19	1.14	111	
1917152	1917180	3.51	20 1-	4 ACSR	0	0	1446	168	160	21 16	0.12	1.26	17	
OC121245	1917152	3.51	20 1-	REC_25_UNK	0	0	1446	168	160	21 87	0.00	1.26	0	
1917153	OC121245	5.13	20 1-	4 ACSR	0	0	814	152	160	21 16	0.81	2.07	75	
1917187	1917180	3.81	208 3-	336.4 ACSR	1953	1782	1390	168	731	33 6	0.10	1.24	46	

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LIG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
OC121230	1917187	3.81	206 3-	REC_100_UNK	1953	1782	1390	168	728	33 33	0.00	1.24	0	
1917188	OC121230	3.86	206 3-	336.4 ACSR	1938	1767	1378	168	728	33 6	0.01	1.25	5	
1917210	1917188	4.00	173 3-	4/0 ACSR	1880	1713	1332	168	627	28 8	0.04	1.28	18	
1917211	1917210	5.01	115 3-	4/0 ACSR	1546	1400	1071	165	455	20 6	0.18	1.47	55	
SW121190-B	1917211	5.01	86 3-	Closed	1546	1400	1071	165	348	15 0	0.00	1.47	0	
SW121190-A	SW121190-B	5.01	86 3-	Closed	1546	1400	1071	165	348	15 0	0.00	1.47	0	
1916027	SW121190-A	5.38	86 3-	4/0 ACSR	1451	1314	999	163	348	15 5	0.06	1.52	15	
1916028	1916027	7.08	75 3-	4/0 ACSR	1130	1025	763	158	319	14 4	0.22	1.75	48	
SW121193-B	1916028	7.08	59 3-	Closed	1130	1025	763	158	261	11 0	0.00	1.75	0	
SW121193-A	SW121193-B	7.08	59 3-	Closed	1130	1025	763	158	261	11 0	0.00	1.75	0	
1916029	SW121193-A	7.50	59 3-	4/0 ACSR	1071	971	720	157	261	11 4	0.05	1.79	9	
1816066	1916029	8.28	30 3-	4/0 ACSR	977	887	654	154	139	6 2	0.05	1.84	5	
1816051	1816066	8.38	30 3-	1/0 ACSR	963	874	644	154	138	6 3	0.01	1.85	1	
OC121243	1816051	8.38	30 3-	35-H	963	874	644	154	138	6 18	0.00	1.85	0	
1816048	OC121243	8.71	30 3-	1/0 ACSR	919	837	616	152	138	6 3	0.04	1.89	4	
1816049	1816048	9.77	30 3-	4/0 ACSR	826	753	551	149	138	6 2	0.07	1.96	7	
1817006	1816049	10.94	29 3-	1/0 ACSR	720	660	483	144	138	6 3	0.11	2.07	12	
1817008	1817006	11.17	18 1-	4 ACSR	0	0	466	142	107	14 11	0.08	2.15	5	
1816050	1816066	8.60	0 3-	4/0 ACSR	944	856	630	153	0	0 0	0.00	1.84	0	
SW120677-B	1816050	8.60	0 3-	Open	944	856	630	153	0	0 0	0.00	1.84	0	
1916021	1916029	7.51	26 1-	2 ACSR	0	0	719	157	113	15 9	0.00	1.80	0	
OC121240	1916021	7.51	26 1-	35-L	0	0	719	157	113	15 44	0.00	1.80	0	
1916022	OC121240	8.91	26 1-	2 ACSR	0	0	573	148	113	15 9	0.43	2.23	31	
1917269	1916022	9.37	7 1-	4 ACSR	0	0	527	144	31	4 3	0.04	2.27	0	
1916033	1916027	5.56	11 1-	4 ACSR	0	0	948	162	28	3 3	0.03	1.55	0	
OC121239	1916033	5.56	8 1-	REC_35_UNK	0	0	948	162	22	3 9	0.00	1.55	0	
1916034	OC121239	6.14	8 1-	4 ACSR	0	0	809	156	22	3 2	0.04	1.59	0	
1917145	1917210	4.00	58 1-	4 ACSR	0	0	1329	168	171	23 17	0.01	1.29	0	
OC121237	1917145	4.00	58 1-	REC_50_UNK	0	0	1329	168	171	23 47	0.00	1.29	0	
1917146	OC121237	6.46	58 1-	4 ACSR	0	0	635	145	171	23 17	1.84	3.13	220	
1917148	1917146	6.57	27 1-	4 ACSR	0	0	618	144	70	9 7	0.05	3.18	3	
OC121238	1917148	6.57	27 1-	25-H	0	0	618	144	70	9 39	0.00	3.18	0	
1917149	OC121238	6.69	27 1-	4 ACSR	0	0	602	143	70	9 7	0.05	3.23	3	
1917150	1917149	6.90	22 1-	2 ACSR	0	0	582	142	55	7 4	0.05	3.28	2	
1917151	1917150	7.69	22 1-	4 ACSR	0	0	498	136	55	7 5	0.24	3.52	11	
OC121244	1917151	7.69	17 1-	REC_15_UNK	0	0	498	136	42	5 39	0.00	3.52	0	
1917139	OC121244	8.85	17 1-	4 ACSR	0	0	410	128	42	5 4	0.15	3.67	4	
1917147	1917146	6.62	1 1-	4 ACSR	0	0	612	144	0	0 0	0.00	3.13	0	
1917208	1917188	4.02	32 3-	1/0 ACSR	1856	1688	1317	167	101	4 2	0.01	1.26	0	
OC121233	1917208	4.02	32 3-	50-H	1856	1688	1317	167	101	4 9	0.00	1.26	0	
1916042	OC121233	5.16	32 3-	1/0 ACSR	1420	1305	1000	162	101	4 2	0.08	1.34	6	
1916040	1916042	5.16	7 1-	6 ACWC	0	0	998	162	15	1 1	0.00	1.34	0	
OC121234	1916040	5.16	7 1-	REC_25_UNK	0	0	998	162	15	1 8	0.00	1.34	0	
1916031	OC121234	5.82	7 1-	6 ACWC	0	0	826	156	15	1 1	0.03	1.37	0	
1916032	1916031	5.94	0 1-	4 ACSR	0	0	798	155	0	0 0	0.00	1.37	0	
1916026	1916042	5.45	17 3-	1/0 ACSR	1336	1231	940	161	59	2 1	0.01	1.35	0	
1916025	1916026	5.47	16 2-	1/0 ACSR	0	1227	937	160	55	3 2	0.00	1.35	0	
1916035	1916025	5.53	7 1-	4 ACSR	0	0	919	160	23	3 2	0.01	1.36	0	
OC121235	1916035	5.53	7 1-	REC_35_UNK	0	0	919	160	23	3 9	0.00	1.36	0	
1916036	OC121235	5.57	7 1-	4 ACSR	0	0	909	159	23	3 2	0.01	1.36	0	
1916037	1916036	5.67	5 1-	6 ACWC	0	0	884	159	18	2 2	0.01	1.37	0	
1916038	1916037	5.79	2 1-	2 ACSR	0	0	860	158	13	1 1	0.00	1.38	0	

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 9, HICKORY PLAINS			3291		7492	7837	7934	176	17454					
SUB 9, CKT 104														
HKPL_104	HICKORY PLAINS	0.00	184 3-	SBS_99_SBS	7492	7837	7934	176	925	41	0	0.00	0.00	0
1918291	HKPL_104	0.03	184 3-	350 MCM URD PRI	7438	7719	7869	468	925	41	13	0.01	0.01	5
1918179	1918291	0.58	184 3-	4/0 ACSR	5148	4978	4468	174	925	41	12	0.22	0.23	135
1918252	1918179	0.61	26 1-	4 ACSR	0	0	4345	174	135	18	13	0.02	0.25	2
OC120023	1918252	0.61	26 1-	REC_35_UNK	0	0	4345	174	135	18	52	0.00	0.25	0
1918253	OC120023	0.89	26 1-	4 ACSR	0	0	3146	171	135	18	13	0.16	0.41	15
1918254	1918253	1.23	11 1-	1/0 ACSR	0	0	2553	170	49	6	3	0.03	0.44	0
1918290	1918254	1.29	1 1-	1/0 URD PRI AL	0	0	2466	419	5	0	0	0.00	0.44	0
SW120318-A	1918290	1.29	0 1-	Open	0	0	2466	419	0	0	0	0.00	0.44	0
1918180	1918179	2.94	129 3-	4/0 ACSR	2161	1965	1534	167	660	29	9	0.48	0.71	172
1918183	1918180	3.32	46 3-	336.4 ACSR	2010	1825	1412	167	223	10	2	0.03	0.73	4
1918184	1918183	3.90	19 3-	336.4 ACSR	1819	1651	1261	165	89	4	1	0.01	0.74	0
SW120314-B	1918184	3.90	0 1-	Open	0	0	1261	165	0	0	0	0.00	0.74	0
1918285	1918183	3.49	22 1-	1/0 URD PRI AL	0	0	1353	390	118	16	9	0.07	0.80	6
1918289	1918285	3.59	3 1-	1/0 URD PRI AL	0	0	1316	386	17	2	1	0.00	0.80	0
SW120313-A	1918289	3.59	0 1-	Open	0	0	1316	386	0	0	0	0.00	0.80	0
1918288	1918285	3.64	10 1-	1/0 URD PRI AL	0	0	1299	384	53	7	4	0.02	0.82	0
SW120313-B	1918288	3.64	0 1-	Open	0	0	1299	384	0	0	0	0.00	0.82	0
1918181	1918180	3.22	1 3-	4/0 ACSR	2018	1832	1421	167	0	0	0	0.00	0.71	0
1918182	1918181	3.80	0 3-	4/0 ACSR	1778	1615	1235	165	0	0	0	0.00	0.71	0
SW120521-A	1918182	3.80	0 3-	Open	1778	1615	1235	165	0	0	0	0.00	0.71	0
1918154	1918181	3.53	1 1-	4 ACSR	0	0	1248	163	0	0	0	0.00	0.71	0
CKT 104 total losses:		\$339												
SUB 9, CKT 124														
HKPL_124	HICKORY PLAINS	0.00	722 3-	SBS_99_SBS	7492	7837	7934	176	3670	164	0	0.00	0.00	0
1918174	HKPL_124	0.01	722 3-	336.4 ACSR	7433	7738	7831	176	3670	164	31	0.01	0.01	33
1918169	1918174	0.02	722 3-	336.4 ACSR	7389	7668	7756	176	3669	164	31	0.01	0.02	24
1918170	1918169	0.65	722 3-	4/0 ACSR	4927	4727	4199	174	3669	164	48	0.97	0.99	2601
1918251	1918170	0.91	11 1-	1/0 ACSR	0	0	3422	173	73	10	4	0.03	1.02	0
SW120317-A	1918251	0.91	0 1-	Open	0	0	3422	173	0	0	0	0.00	1.02	0
1918171	1918170	0.88	700 3-	4/0 ACSR	4365	4137	3570	174	3520	158	47	0.34	1.33	891
1918257	1918171	0.90	34 1-	1/0 ACSR	0	0	3536	174	225	30	13	0.01	1.34	2
OC120057	1918257	0.90	34 1-	REC_50_UNK	0	0	3536	174	225	30	62	0.00	1.34	0
1918258	OC120057	1.40	34 1-	1/0 ACSR	0	0	2573	171	225	30	13	0.26	1.60	36
1918250	1918258	1.42	17 1-	1/0 ACSR	0	0	2543	171	105	14	6	0.01	1.60	0
1918286	1918250	1.80	17 1-	1/0 URD PRI AL	0	0	2129	412	105	14	9	0.09	1.69	5
SW120318-B	1918286	1.80	0 1-	Open	0	0	2129	412	0	0	0	0.00	1.69	0
1918249	1918258	1.44	0 1-	1/0 ACSR	0	0	2516	171	0	0	0	0.00	1.60	0
SW120317-B	1918249	1.44	0 1-	Open	0	0	2516	171	0	0	0	0.00	1.60	0
1918172	1918171	1.66	649 3-	4/0 ACSR	3152	2915	2374	171	3175	143	42	0.98	2.31	2310
1918173	1918172	1.91	539 3-	4/0 ACSR	2898	2668	2149	171	2655	120	35	0.26	2.57	543
1918255	1918173	1.94	95 1-	1/0 ACSR	0	0	2111	170	421	58	25	0.05	2.62	17
OC120059	1918255	1.94	95 1-	REC_99_UNK	0	0	2111	170	420	58	0	0.00	2.62	0
1918256	OC120059	3.08	95 1-	1/0 ACSR	0	0	1391	165	420	58	25	0.85	3.47	199
2018187	1918256	3.34	12 1-	4 ACSR	0	0	1240	162	61	8	6	0.06	3.53	2
2018188	2018187	3.39	1 1-	2 ACSR	0	0	1220	162	5	0	0	0.00	3.53	0
1918166	1918173	2.00	439 3-	4/0 ACSR	2812	2585	2074	170	2218	100	30	0.08	2.65	144
1918236	1918166	2.02	93 3-	1/0 ACSR	2791	2564	2057	170	526	24	11	0.01	2.66	3
OC120067	1918236	2.02	93 3-	REC_50_UNK	2791	2564	2057	170	526	24	49	0.00	2.66	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1918229	OC120067	2.48	93 3-	1/0 ACSR	2345	2149	1708	168	526	24 11	0.17	2.83	68	
1918163	1918229	2.51	42 1-	1/0 ACSR	0	0	1692	168	247	34 15	0.02	2.85	4	
1918165	1918163	3.01	17 1-	1/0 ACSR	0	0	1425	165	106	14 6	0.08	2.93	5	
SW120319-A	1918165	3.01	0 1-	Open	0	0	1425	165	0	0 0	0.00	2.93	0	
1918164	1918163	3.15	24 1-	1/0 ACSR	0	0	1365	165	141	19 8	0.14	2.99	10	
SW120319-B	1918164	3.15	0 1-	Open	0	0	1365	165	0	0 0	0.00	2.99	0	
1918230	1918229	2.64	21 3-	1/0 ACSR	2221	2040	1613	167	141	6 3	0.02	2.85	2	
1918273	1918230	3.12	18 1-	4 ACSR	0	0	1283	162	125	17 12	0.19	3.04	14	
1918167	1918166	2.39	345 3-	4/0 ACSR	2498	2283	1808	169	1691	76 22	0.24	2.89	345	
1918264	1918167	2.62	81 1-	1/0 ACSR	0	0	1659	168	414	57 25	0.29	3.18	92	
OC120060	1918264	2.62	75 1-	REC_70_UNK	0	0	1659	168	387	54 77	0.00	3.18	0	
1918265	OC120060	4.22	75 1-	1/0 ACSR	0	0	1050	160	387	54 23	1.27	4.44	293	
1918272	1918265	4.36	0 1-	1/0 ACSR	0	0	1015	160	0	0 0	0.00	4.44	0	
SW120440-A	1918272	4.36	0 1-	Open	0	0	1015	160	0	0 0	0.00	4.44	0	
1918266	1918265	4.52	21 1-	4 ACSR	0	0	950	158	115	16 12	0.11	4.56	8	
1918271	1918266	4.56	0 1-	336.4 ACSR	0	0	945	157	0	0 0	0.00	4.56	0	
SW120314-A	1918271	4.56	0 1-	Open	0	0	945	157	0	0 0	0.00	4.56	0	
1918211	1918167	2.64	252 3-	4/0 ACSR	2331	2125	1671	168	1224	56 17	0.14	3.03	123	
1918214	1918211	2.64	244 3-	1/0 ACSR	2328	2122	1669	168	1204	55 24	0.00	3.03	3	
1918261	1918214	3.08	16 1-	1/0 ACSR	0	0	1441	166	111	15 7	0.08	3.11	4	
SW120315-A	1918261	3.08	0 1-	Open	0	0	1441	166	0	0 0	0.00	3.11	0	
1918233	1918214	2.82	226 3-	1/0 ACSR	2195	2000	1569	167	1080	50 22	0.15	3.18	133	
1918260	1918233	3.62	19 1-	1/0 ACSR	0	0	1230	164	122	17 7	0.15	3.34	10	
SW120315-B	1918260	3.62	0 1-	Open	0	0	1230	164	0	0 0	0.00	3.34	0	
1918234	1918233	3.13	198 3-	1/0 ACSR	1989	1821	1417	166	904	42 18	0.23	3.41	168	
OC120063	1918234	3.13	191 3-	REC_99_UNK	1989	1821	1417	166	871	40 0	0.00	3.41	0	
1918235	OC120063	3.71	191 3-	1/0 ACSR	1693	1561	1202	163	871	40 18	0.40	3.81	279	
2018226	1918235	3.87	175 3-	4/0 ACSR	1641	1512	1161	163	808	37 11	0.06	3.88	35	
2018162	2018226	4.04	51 3-	4/0 ACSR	1590	1464	1121	162	292	13 4	0.02	3.90	5	
2018167	2018162	4.88	50 3-	1/0 ACSR	1319	1223	930	158	289	13 6	0.10	4.00	16	
SW120076-B	2018167	4.88	0 3-	Open	1319	1223	930	158	0	0 0	0.00	4.00	0	
2018121	2018226	4.18	123 2-	4 ACSR	0	1354	1039	160	510	35 26	0.46	4.34	210	
1918155	2018121	4.22	112 1-	4 ACSR	0	0	1026	159	486	68 49	0.11	4.45	47	
1918156	1918155	4.47	112 1-	6 ACWC	0	0	945	157	486	68 49	0.72	5.17	296	
1918159	1918156	4.56	24 1-	6 ACWC	0	0	918	156	128	18 13	0.07	5.24	8	
1918160	1918159	4.93	22 1-	4 ACSR	0	0	821	153	115	16 12	0.28	5.52	28	
1918161	1918160	5.11	21 1-	1/0 ACSR	0	0	795	152	115	16 7	0.04	5.55	2	
1918162	1918161	5.34	2 1-	2 ACSR	0	0	756	151	10	1 1	0.01	5.56	0	
1918157	1918156	4.47	72 1-	4 ACSR	0	0	943	157	286	40 29	0.01	5.18	3	
OC120064	1918157	4.47	72 1-	REC_35_UNK	0	0	943	157	286	40 116	0.00	5.18	0	
2018221	OC120064	6.09	72 1-	4 ACSR	0	0	611	143	286	40 29	1.50	6.68	256	
1918175	1918167	3.88	1 3-	4/0 ACSR	1747	1588	1212	165	10	14 4	-0.27	2.62	48	
1919123	1918175	4.85	0 3-	4/0 ACSR	1459	1327	996	162	0	0 0	0.00	2.62	0	
SW120449-A	1919123	4.85	0 3-	Open	1459	1327	996	162	0	0 0	0.00	2.62	0	
CA120002	1918175	3.88	0 3-	Capacitor	1747	1588	1212	165	0	-14 0	0.00	2.62	0	
1918267	1918172	1.74	63 1-	4 ACSR	0	0	2253	170	245	33 24	0.12	2.43	25	
OC120058	1918267	1.74	63 1-	REC_50_UNK	0	0	2253	170	245	33 68	0.00	2.43	0	
1918268	OC120058	2.17	63 1-	4 ACSR	0	0	1713	166	245	33 24	0.53	2.96	99	
1918269	1918268	2.38	42 1-	6 ACWC	0	0	1528	164	143	19 14	0.16	3.12	18	
1918259	1918269	2.74	30 1-	4 ACSR	0	0	1279	160	96	13 10	0.11	3.23	6	
1918168	1918174	0.01	0 3-	336.4 ACSR	7426	7727	7819	176	0	0 0	0.00	0.01	0	
SW120316-B	1918168	0.01	0 3-	Open	7426	7727	7819	176	0	0 0	0.00	0.01	0	

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS	
CKT 124 total losses:		\$9,473													
SUB	9, CKT 134														
	HKPL_134	HICKORY PLAINS	0.00	1119 3-	SBS_99_SBS	7492	7837	7934	176	5354	245	0	0.00	0.00	0
	1918213	HKPL_134	0.01	1119 3-	336.4 ACSR	7432	7737	7829	176	5354	245	46	0.02	0.02	76
	1918210	1918213	0.01	0 3-	336.4 ACSR	7425	7725	7817	176	0	0	0	0.00	0.02	0
	SW120316-A	1918210	0.01	0 3-	Open	7425	7725	7817	176	0	0	0	0.00	0.02	0
	1918215	1918213	0.08	1119 3-	336.4 ACSR	7128	7261	7317	176	5353	245	46	0.12	0.15	397
	1918148	1918215	0.14	34 1-	6 ACWC	0	0	6609	175	210	28	20	0.08	0.22	13
	1918149	1918148	0.23	31 1-	2 ACSR	0	0	5894	175	183	24	14	0.06	0.28	8
	1918152	1918149	0.27	20 1-	4 ACSR	0	0	5518	174	133	18	13	0.03	0.31	4
	2018222	1918152	0.74	19 1-	1/0 ACSR	0	0	3540	172	133	18	8	0.10	0.41	6
	1918216	1918215	0.53	1085 3-	336.4 ACSR	5591	5415	4999	175	5140	236	45	0.77	0.91	2373
	1918282	1918216	0.55	41 1-	1/0 URD PRI AL	0	0	4931	460	180	24	14	0.01	0.93	2
	2018220	1918282	1.04	39 1-	1/0 ACSR	0	0	3277	173	173	23	10	0.13	1.06	12
	2018225	1918216	1.10	999 3-	336.4 ACSR	4367	4115	3542	174	4794	221	42	0.89	1.81	2576
	2018154	2018225	1.60	923 3-	336.4 ACSR	3652	3394	2811	173	4456	207	39	0.74	2.55	2018
	2018155	2018154	3.46	854 3-	336.4 ACSR	2268	2060	1593	169	4058	189	36	2.44	4.99	6144
	OC120203	2018155	3.46	792 3-	REC_99_VWE	2268	2060	1593	169	3733	176	0	0.00	4.99	0
	2018156	OC120203	3.70	792 3-	336.4 ACSR	2165	1964	1511	169	3733	176	33	0.29	5.28	703
	2018139	2018156	3.89	758 3-	336.4 ACSR	2085	1888	1447	168	3539	167	32	0.23	5.51	539
	2018197	2018139	3.90	84 1-	1/0 ACSR	0	0	1445	168	382	54	24	0.01	5.52	2
	OC120187	2018197	3.90	84 1-	REC_50_UNK	0	0	1445	168	382	54	108	0.00	5.52	0
	2018198	OC120187	3.98	84 1-	1/0 ACSR	0	0	1412	168	382	54	24	0.09	5.61	28
	2018200	2018198	4.73	78 1-	6 ACWC	0	0	1062	160	352	50	36	0.93	6.54	204
	2019042	2018200	6.04	13 1-	4 ACSR	0	0	715	149	30	4	3	0.13	6.67	2
	2018199	2018198	4.07	3 1-	1/0 ACSR	0	0	1374	167	15	2	1	0.00	5.61	0
	SW120320-B	2018199	4.07	0 1-	Open	0	0	1374	167	0	0	0	0.00	5.61	0
	2018140	2018139	3.97	670 3-	336.4 ACSR	2057	1863	1426	168	3123	148	28	0.07	5.59	152
	RG120002	2018140	3.97	670 3-	219	2057	1863	1426	168	3122	148	68	-5.59	0.00	0
	2018141	RG120002	4.58	670 3-	336.4 ACSR	1848	1674	1265	167	3122	141	27	0.60	0.60	1161
	2018163	2018141	4.59	289 3-	1/0 ACSR	1840	1667	1259	167	1347	61	27	0.02	0.61	18
	OC120190	2018163	4.59	289 3-	REC_70_UNK	1840	1667	1259	167	1347	61	88	0.00	0.61	0
	2018164	OC120190	5.67	289 3-	1/0 ACSR	1427	1310	978	162	1347	61	27	1.04	1.65	1041
	2018115	2018164	5.67	44 1-	6 ACWC	0	0	977	162	188	25	18	0.01	1.66	0
	OC120191	2018115	5.67	44 1-	REC_35_UNK	0	0	977	162	188	25	74	0.00	1.66	0
	2018116	OC120191	6.47	44 1-	6 ACWC	0	0	781	154	188	25	18	0.48	2.14	53
	2018117	2018116	6.56	2 1-	4 ACSR	0	0	763	153	6	0	1	0.00	2.14	0
	2018122	2018164	5.97	178 3-	1/0 ACSR	1340	1234	920	160	861	39	17	0.19	1.84	126
	2018127	2018122	6.18	48 3-	1/0 ACSR	1284	1184	882	159	227	10	5	0.03	1.87	6
	2018177	2018127	6.45	10 1-	6 ACWC	0	0	820	157	39	5	4	0.03	1.91	0
	2018207	2018127	6.55	25 1-	1/0 ACSR	0	0	824	157	117	16	7	0.08	1.95	5
	2018196	2018207	6.61	4 1-	4 ACSR	0	0	811	157	19	2	2	0.00	1.96	0
	2018123	2018122	6.34	103 3-	1/0 ACSR	1245	1149	856	158	493	22	10	0.13	1.97	48
	2018124	2018123	6.42	74 3-	4 ACSR	1216	1125	838	158	365	16	12	0.05	2.02	16
	2019054	2018124	6.63	16 3-	1/0 ACSR	1170	1085	807	157	69	3	1	0.01	2.03	0
	SW120070-B	2019054	6.63	0 3-	Open	1170	1085	807	157	0	0	0	0.00	2.03	0
	2018189	2018124	6.47	51 2-	1/0 ACSR	0	1115	830	157	265	18	8	0.02	2.04	4
	OC120192	2018189	6.47	51 2-	REC_35_UNK	0	1115	830	157	265	18	52	0.00	2.04	0
	2019056	OC120192	6.64	51 2-	1/0 ACSR	0	1080	805	157	265	18	8	0.05	2.09	9
	2019041	2019056	7.19	32 1-	4 ACSR	0	0	703	152	171	23	17	0.30	2.39	29
	2018148	2018141	4.67	366 3-	336.4 ACSR	1818	1647	1242	167	1663	75	14	0.05	0.65	55

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
2019055	2018148	5.19	365 3-	1/0 ACSR	1603	1462	1095	164	1655	75 33	0.68	1.33	893	
2019032	2019055	5.32	311 3-	1/0 ACSR	1554	1419	1062	164	1296	59 26	0.14	1.47	146	
OC120198	2019032	5.32	309 3-	70-L	1554	1419	1062	164	1295	59 85	0.00	1.47	0	
2019033	OC120198	7.60	309 3-	1/0 ACSR	1009	938	696	153	1295	59 26	1.80	3.27	1575	
2019034	2019033	7.88	158 3-	1/0 ACSR	966	899	667	152	540	25 11	0.13	3.39	55	
2019045	2019034	7.92	35 1-	2 ACSR	0	0	663	152	118	16 9	0.02	3.41	2	
OC120199	2019045	7.92	35 1-	REC_25_UNK	0	0	663	152	118	16 66	0.00	3.41	0	
2019046	OC120199	8.09	35 1-	2 ACSR	0	0	643	150	118	16 9	0.09	3.50	9	
2019043	2019046	8.94	33 1-	4 ACSR	0	0	544	143	117	16 12	0.53	4.03	48	
1919114	2019043	9.14	3 1-	4 ACSR	0	0	524	142	10	1 1	0.01	4.04	0	
1919110	2019043	9.03	18 1-	2 ACSR	0	0	537	143	68	9 5	0.02	4.06	1	
1919119	1919110	9.06	16 1-	1/0 URD PRI AL	0	0	534	273	60	8 5	0.01	4.07	0	
1919111	1919119	9.11	16 1-	4 ACSR	0	0	530	142	60	8 6	0.02	4.08	0	
1919112	1919111	9.22	15 1-	2 ACSR	0	0	521	142	58	8 5	0.02	4.10	0	
1919113	1919112	10.02	7 1-	4 ACSR	0	0	455	136	26	3 3	0.09	4.19	2	
1919120	1919113	10.17	3 1-	1/0 URD PRI AL	0	0	448	245	9	1 1	0.00	4.20	0	
2019035	2019034	8.69	121 3-	1/0 ACSR	861	804	596	148	412	19 8	0.22	3.62	66	
2019036	2019035	8.94	72 3-	1/0 ACSR	833	779	578	147	253	11 5	0.05	3.66	10	
2019048	2019036	8.97	63 1-	1/0 ACSR	0	0	575	147	233	32 14	0.03	3.69	5	
OC120200	2019048	8.97	63 1-	REC_50_UNK	0	0	575	147	233	32 65	0.00	3.69	0	
2019049	OC120200	9.47	63 1-	1/0 ACSR	0	0	541	145	233	32 14	0.36	4.05	66	
2019044	2019049	11.13	9 1-	2 ACSR	0	0	436	136	11	1 1	0.04	4.10	0	
2019050	2019049	10.90	53 1-	1/0 ACSR	0	0	462	139	221	31 13	0.76	4.82	111	
2020003	2019050	11.00	26 1-	4 ACSR	0	0	455	139	114	16 11	0.07	4.88	7	
OC120201	2020003	11.00	20 1-	REC_25_UNK	0	0	455	139	100	14 56	0.00	4.88	0	
1920002	OC120201	12.10	20 1-	4 ACSR	0	0	388	131	100	14 10	0.36	5.24	21	
2019047	2019035	8.92	2 1-	4 ACSR	0	0	571	146	8	1 1	0.01	3.62	0	
2019039	2019033	9.22	25 1-	2 ACSR	0	0	536	143	106	14 8	0.38	3.65	23	
2019026	2019055	5.40	46 3-	1/0 ACSR	1526	1396	1044	163	324	14 6	0.05	1.38	14	
OC120195	2019026	5.40	45 3-	REC_70_UNK	1526	1396	1044	163	315	14 21	0.00	1.38	0	
2019027	OC120195	6.51	45 3-	1/0 ACSR	1215	1122	835	158	315	14 6	0.27	1.65	65	
2019031	2019027	7.01	31 3-	1/0 ACSR	1111	1030	765	156	258	11 5	0.08	1.72	13	
2019040	2019031	7.03	25 1-	4 ACSR	0	0	762	155	117	16 11	0.01	1.73	0	
OC120202	2019040	7.03	25 1-	REC_25_UNK	0	0	762	155	117	16 64	0.00	1.73	0	
2019038	OC120202	7.05	8 1-	4 ACSR	0	0	758	155	29	3 3	0.00	1.73	0	
2019037	OC120202	7.99	17 1-	4 ACSR	0	0	613	147	88	12 9	0.27	2.00	14	
2019030	2019027	6.58	8 3-	4 ACSR	1190	1101	819	157	20	0 1	0.00	1.65	0	
SW120073-B	2019030	6.58	8 3-	Closed	1190	1101	819	157	20	0 0	0.00	1.65	0	
SW120073-A	SW120073-B	6.58	8 3-	Closed	1190	1101	819	157	20	0 0	0.00	1.65	0	
2019028	SW120073-A	6.96	8 3-	4 ACSR	1068	1000	743	154	20	0 1	0.01	1.66	0	
2019029	2019028	6.97	0 3-	1/0 ACSR	1067	999	743	154	0	0 0	0.00	1.66	0	
SW120070-A	2019029	6.97	0 3-	Open	1067	999	743	154	0	0 0	0.00	1.66	0	
2018157	2018156	3.95	21 3-	1/0 ACSR	2010	1829	1400	168	108	5 2	0.01	5.29	0	
SW120076-A	2018157	3.95	0 3-	Open	2010	1829	1400	168	0	0 0	0.00	5.29	0	
2018211	2018156	4.01	8 1-	1/0 ACSR	0	0	1375	167	52	7 3	0.03	5.31	0	
SW120320-A	2018211	4.01	0 1-	Open	0	0	1375	167	0	0 0	0.00	5.31	0	
2018114	2018154	2.32	31 1-	4 ACSR	0	0	1722	166	155	21 15	0.35	2.90	32	
2018210	2018225	1.10	0 1-	1/0 ACSR	0	0	3528	174	0	0 0	0.00	1.81	0	
SW120326-A	2018210	1.10	0 1-	Open	0	0	3528	174	0	0 0	0.00	1.81	0	

CKT 134 total losses: \$21,008

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS	
SUB	9, CKT 144														
	HKPL_144	HICKORY PLAINS	0.00	580 3-	SBS_99_SBS	7492	7837	7934	176	2946	133	0	0.00	0.00	0
	2018223	HKPL_144	0.42	580 3-	336.4 ACSR	5912	5778	5501	175	2946	133	25	0.38	0.38	705
	2018138	2018223	0.75	14 3-	1/0 ACSR	4697	4462	4035	174	75	3	1	0.01	0.39	0
	2018126	2018223	0.50	549 3-	336.4 ACSR	5667	5504	5174	175	2775	126	24	0.07	0.46	127
	2018153	2018126	0.73	18 3-	1/0 ACSR	4847	4620	4193	174	98	4	2	0.01	0.47	0
	2018212	2018153	0.95	10 1-	1/0 URD PRI AL	0	0	3589	442	61	8	5	0.03	0.50	0
	2018128	2018126	0.82	517 3-	336.4 ACSR	4883	4659	4211	175	2593	118	22	0.26	0.72	430
	2018129	2018128	0.88	469 3-	336.4 ACSR	4771	4541	4082	175	2368	107	20	0.04	0.76	62
	2018165	2018129	0.94	416 3-	336.4 ACSR	4655	4419	3950	175	2147	97	18	0.04	0.80	55
	2018120	2018165	1.18	25 1-	1/0 ACSR	0	0	3298	173	131	17	8	0.05	0.85	3
	2018166	2018165	1.00	389 3-	336.4 ACSR	4536	4296	3819	174	2003	91	17	0.04	0.84	52
	2018152	2018166	1.08	66 3-	1/0 ACSR	4325	4076	3595	174	377	17	7	0.02	0.86	6
	2018192	2018152	1.12	55 1-	1/0 ACSR	0	0	3494	174	260	35	15	0.03	0.89	6
	OC120226	2018192	1.12	53 1-	50-L	0	0	3494	174	248	33	68	0.00	0.89	0
	2018191	OC120226	1.17	53 1-	1/0 ACSR	0	0	3387	174	248	33	15	0.03	0.92	6
	2018209	2018191	1.31	16 1-	1/0 ACSR	0	0	3068	173	111	15	7	0.03	0.95	1
	2018208	2018191	1.40	33 1-	1/0 ACSR	0	0	2910	172	115	15	7	0.04	0.96	2
	2018136	2018166	1.12	323 3-	336.4 ACSR	4321	4074	3573	174	1626	74	14	0.06	0.90	61
	2018151	2018136	1.26	80 3-	1/0 ACSR	4001	3744	3250	173	300	13	6	0.03	0.93	8
	2018195	2018151	1.30	72 1-	4 ACSR	0	0	3145	173	278	38	27	0.06	1.00	15
	2018201	2018195	1.33	70 1-	2 ACSR	0	0	3066	173	270	37	21	0.04	1.04	9
	2018202	2018201	1.39	69 1-	4 ACSR	0	0	2912	172	269	36	26	0.10	1.14	23
	OC120227	2018202	1.39	68 1-	REC_70_UNK	0	0	2912	172	263	36	52	0.00	1.14	0
	2018203	OC120227	1.40	68 1-	4 ACSR	0	0	2894	172	263	36	26	0.01	1.15	3
	2018204	2018203	2.04	67 1-	1/0 ACSR	0	0	2071	169	258	35	15	0.40	1.54	67
	2018206	2018204	2.22	6 1-	1/0 ACSR	0	0	1911	168	29	3	2	0.01	1.55	0
	SW120326-B	2018206	2.22	0 1-	Open	0	0	1911	168	0	0	0	0.00	1.55	0
	2018205	2018204	2.59	19 1-	1/0 ACSR	0	0	1658	166	117	16	7	0.10	1.64	6
	2018132	2018136	1.43	228 3-	1/0 ACSR	3664	3402	2925	173	1165	53	23	0.28	1.18	263
	OC120230	2018132	1.43	222 3-	100-L	3664	3402	2925	173	1141	52	52	0.00	1.18	0
	2018133	OC120230	1.45	222 3-	1/0 ACSR	3620	3358	2884	173	1141	52	23	0.02	1.20	19
	2018137	2018133	1.51	108 3-	1/0 ACSR	3517	3260	2788	172	621	28	12	0.03	1.23	14
	2018150	2018137	1.83	105 3-	1/0 ACSR	3022	2808	2343	171	598	27	12	0.10	1.33	38
	2018119	2018150	2.11	17 1-	4 ACSR	0	0	1941	168	100	13	10	0.09	1.42	5
	SW120323-B	2018119	2.11	0 1-	Open	0	0	1941	168	0	0	0	0.00	1.42	0
	2018186	2018150	2.19	16 1-	4 ACSR	0	0	1842	167	90	12	9	0.10	1.43	5
	2018118	2018137	1.52	0 1-	4 ACSR	0	0	2775	172	0	0	0	0.00	1.23	0
	SW120323-A	2018118	1.52	0 1-	Open	0	0	2775	172	0	0	0	0.00	1.23	0
	2018180	2018133	2.33	104 1-	1/0 ACSR	0	0	1868	168	446	61	27	1.05	2.25	325
	2018182	2018180	2.46	79 1-	1/0 ACSR	0	0	1778	168	319	44	19	0.12	2.38	30
	OC120231	2018182	2.46	78 1-	REC_50_UNK	0	0	1778	168	317	43	88	0.00	2.38	0
	2018183	OC120231	2.50	78 1-	1/0 ACSR	0	0	1749	168	317	43	19	0.04	2.42	10
	2018184	2018183	4.03	77 1-	4 ACSR	0	0	903	153	315	43	31	1.80	4.21	359
	OC120232	2018184	4.03	12 1-	REC_25_UNK	0	0	903	153	54	7	30	0.00	4.21	0
	2018185	OC120232	5.17	12 1-	4 ACSR	0	0	653	143	54	7	5	0.20	4.41	6
	2018181	2018180	2.41	1 1-	4 ACSR	0	0	1784	167	0	0	0	0.00	2.25	0
	2018193	2018129	1.55	52 1-	1/0 ACSR	0	0	2594	171	219	29	13	0.25	1.01	30
	2018194	2018193	1.57	10 1-	4 ACSR	0	0	2560	171	23	3	2	0.00	1.01	0
	2018178	2018128	0.83	39 1-	1/0 ACSR	0	0	4192	175	164	22	10	0.00	0.72	0
	OC120225	2018178	0.83	39 1-	REC_50_UNK	0	0	4192	175	164	22	45	0.00	0.72	0
	2018179	OC120225	1.14	39 1-	1/0 ACSR	0	0	3319	173	164	22	10	0.08	0.80	7

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS	
CKT 144 total losses:		\$2,758													
SUB	9, CKT 154														
	HKPL_154	HICKORY PLAINS	0.00	391 3-	SBS_99_SBS	7492	7837	7934	176	2892	131	0	0.00	0.00	0
	1918283	HKPL_154	0.02	391 3-	350 MCM URD PRI	7454	7755	7889	468	2892	131	41	0.02	0.02	37
	2018224	1918283	1.05	391 3-	336.4 ACSR	4471	4226	3651	174	2891	131	25	0.94	0.95	1707
	2017364	2018224	1.95	32 3-	336.4 ACSR	3287	3037	2466	172	149	6	1	0.03	0.98	2
	1917265	2017364	2.16	4 1-	4 ACSR	0	0	2140	170	33	4	3	0.03	1.01	0
	SW120239-B	1917265	2.16	1 1-	Closed	0	0	2140	170	15	1	0	0.00	1.01	0
	SW120239-A	SW120239-B	2.16	1 1-	Closed	0	0	2140	170	15	1	0	0.00	1.01	0
	1917127	SW120239-A	2.29	1 1-	4 ACSR	0	0	1978	169	15	1	1	0.01	1.02	0
	SW120310-A	1917127	2.29	0 1-	Open	0	0	1978	169	0	0	0	0.00	1.02	0
	2017221	2017364	2.03	0 3-	336.4 ACSR	3210	2961	2395	172	0	0	0	0.00	0.98	0
	SW120238-A	2017221	2.03	0 3-	Open	3210	2961	2395	172	0	0	0	0.00	0.98	0
	2018146	2018224	1.44	17 3-	4 ACSR	3241	3066	2547	170	68	3	2	0.02	0.98	0
	SW120235-B	2018146	1.44	0 3-	Open	3241	3066	2547	170	0	0	0	0.00	0.98	0
	2018142	2018224	1.26	334 3-	336.4 ACSR	4122	3868	3280	174	2622	119	23	0.18	1.13	295
	OC120267	2018142	1.26	324 3-	100-L	4122	3868	3280	174	2589	118	118	0.00	1.13	0
	2018143	OC120267	1.38	324 3-	336.4 ACSR	3952	3696	3106	174	2589	118	22	0.10	1.23	160
	2018109	2018143	1.41	31 1-	4 ACSR	0	0	3037	173	168	23	16	0.03	1.25	4
	OC120268	2018109	1.41	31 1-	50-4H	0	0	3037	173	168	23	46	0.00	1.25	0
	2017359	OC120268	1.72	31 1-	4 ACSR	0	0	2353	170	168	23	16	0.25	1.50	30
	2017176	2017359	1.88	15 1-	1/0 ACSR	0	0	2181	169	81	11	5	0.02	1.52	0
	2017333	2017176	1.88	1 1-	1/0 URD PRI AL	0	0	2176	417	4	0	0	0.00	1.52	0
	2018144	2018143	1.42	293 3-	336.4 ACSR	3901	3645	3055	173	2419	110	21	0.03	1.25	44
	2018130	2018144	1.48	260 3-	336.4 ACSR	3811	3554	2965	173	2269	103	20	0.05	1.30	71
	2018134	2018130	1.55	28 3-	4 ACSR	3649	3377	2819	173	279	12	9	0.03	1.33	8
	2018145	2018134	1.58	26 3-	1/0 ACSR	3587	3315	2765	172	269	12	5	0.01	1.34	0
	2017361	2018145	1.81	25 1-	4 ACSR	0	0	2324	170	138	18	14	0.10	1.44	8
	SW120311-B	2017361	1.81	0 1-	Open	0	0	2324	170	0	0	0	0.00	1.44	0
	2018131	2018130	1.57	230 3-	336.4 ACSR	3700	3444	2856	173	1983	90	17	0.05	1.36	70
	2018175	2018131	1.58	48 1-	4 ACSR	0	0	2844	173	250	34	25	0.01	1.37	2
	OC120270	2018175	1.58	48 1-	REC_50_UNK	0	0	2844	173	250	34	69	0.00	1.37	0
	2018176	OC120270	2.00	48 1-	4 ACSR	0	0	2086	169	250	34	25	0.33	1.70	48
	2018135	2018131	1.66	177 3-	336.4 ACSR	3598	3343	2758	173	1709	78	15	0.05	1.40	51
	2018158	2018135	1.69	166 3-	336.4 ACSR	3555	3300	2717	173	1671	76	14	0.02	1.42	21
	2017360	2018158	1.84	24 1-	4 ACSR	0	0	2446	171	100	13	10	0.04	1.47	3
	2018159	2018158	1.75	140 3-	336.4 ACSR	3491	3237	2656	173	1567	71	14	0.03	1.45	29
	2018160	2018159	1.79	100 3-	336.4 ACSR	3451	3197	2618	173	1306	59	11	0.02	1.47	13
	2017363	2018160	1.90	26 1-	4 ACSR	0	0	2416	171	162	22	16	0.06	1.53	5
	2018161	2018160	2.09	68 3-	336.4 ACSR	3161	2914	2351	172	1123	51	10	0.09	1.56	62
	2017334	2018161	2.20	19 3-	1/0 URD PRI AL	3050	2812	2278	431	851	39	23	0.09	1.65	66
	2017341	2017334	2.59	2 3-	1/0 URD PRI AL	2677	2471	2028	416	722	33	19	0.27	1.91	173
	2017998	2017341	2.59	1 3-	Consumer	2677	2471	2028	416	721	33	0	0.00	1.91	0
	2017335	2017334	2.24	15 3-	1/0 URD PRI AL	3003	2768	2247	430	128	5	3	0.01	1.65	0
	2017217	2017335	2.30	15 3-	336.4 ACSR	2960	2726	2210	171	128	5	1	0.00	1.66	0
	2017219	2017217	2.72	15 3-	1/0 ACSR	2501	2294	1841	169	128	5	3	0.03	1.69	3
	2017218	2017219	2.74	2 3-	1/0 ACSR	2487	2282	1830	169	69	3	1	0.00	1.69	0
	2017342	2017218	2.83	2 3-	1/0 URD PRI AL	2422	2224	1789	411	69	3	2	0.00	1.69	0
	2017220	2017219	2.77	0 3-	1/0 ACSR	2461	2259	1809	169	0	0	0	0.00	1.69	0
	2017362	2018159	1.97	39 1-	4 ACSR	0	0	2273	170	246	33	24	0.17	1.62	24
	2018111	2018135	1.69	3 1-	4 ACSR	0	0	2686	173	13	1	1	0.00	1.41	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW120311-A	2018111	1.69	0 1-	Open	0	0	2686	173	0	0	0	0.00	1.41	0
2018168	2018144	1.45	33 1-	4 ACSR	0	0	2965	173	150	20	15	0.03	1.29	4
2018169	2018168	1.46	33 1-	6 ACWC	0	0	2951	173	150	20	15	0.01	1.29	0
OC120269	2018169	1.46	33 1-	REC_50_UNK	0	0	2951	173	150	20	41	0.00	1.29	0
2018174	OC120269	1.47	1 1-	4 ACSR	0	0	2926	173	3	0	0	0.00	1.29	0
2018170	OC120269	1.52	32 1-	6 ACWC	0	0	2802	172	148	20	14	0.06	1.35	7
2018171	2018170	1.60	31 1-	4 ACSR	0	0	2637	171	138	18	14	0.06	1.41	7
2018173	2018171	1.76	21 1-	4 ACSR	0	0	2333	170	92	12	9	0.05	1.46	2
2018172	2018171	1.74	5 1-	4 ACSR	0	0	2360	170	21	2	2	0.01	1.42	0
CKT 154 total losses:		\$2,956												
SUB 9, CKT 164														
HKPL_164	HICKORY PLAINS	0.00	295 3-	SBS_99_SBS	7492	7837	7934	176	1668	75	0	0.00	0.00	0
1918287	HKPL_164	0.02	295 3-	350 MCM URD PRI	7456	7758	7891	468	1668	75	24	0.01	0.01	12
1918218	1918287	0.40	295 3-	336.4 ACSR	5979	5861	5519	175	1668	75	14	0.20	0.21	204
1918219	1918218	0.94	276 3-	4/0 ACSR	4429	4199	3628	174	1559	70	21	0.38	0.59	404
1918222	1918219	0.96	262 3-	4/0 ACSR	4386	4154	3582	174	1495	68	20	0.01	0.60	14
1918232	1918222	1.24	6 3-	4/0 ACSR	3854	3611	3033	173	291	13	4	0.04	0.64	8
SW120276-B	1918232	1.24	6 3-	Closed	3854	3611	3033	173	290	13	0	0.00	0.64	0
SW120276-A	SW120276-B	1.24	6 3-	Closed	3854	3611	3033	173	290	13	0	0.00	0.64	0
1917178	SW120276-A	1.26	6 3-	4/0 ACSR	3824	3581	3003	173	290	13	4	0.00	0.64	0
1917175	1917178	1.29	3 3-	4/0 ACSR	3764	3521	2944	173	5	0	0	0.00	0.64	0
SW120279-B	1917175	1.29	3 3-	Closed	3764	3521	2944	173	5	0	0	0.00	0.64	0
SW120279-A	SW120279-B	1.29	3 3-	Closed	3764	3521	2944	173	5	0	0	0.00	0.64	0
1917176	SW120279-A	1.27	3 3-	4/0 ACSR	2733	2508	2002	170	5	0	0	0.00	0.64	0
SW120282-A	1917176	2.17	0 3-	Open	2733	2508	2002	170	0	0	0	0.00	0.64	0
1917179	1917178	1.35	2 3-	1/0 ACSR	3646	3399	2840	172	280	12	6	0.02	0.66	5
1917177	1917179	1.35	1 3-	4/0 ACSR	3643	3396	2837	172	275	12	4	0.00	0.66	0
1917993	1917177	1.35	1 3-	Consumer	3643	3396	2837	172	275	12	0	0.00	0.66	0
1918223	1918222	1.55	256 3-	4/0 ACSR	3390	3148	2587	172	1204	54	16	0.33	0.93	272
OC120309	1918223	1.55	251 3-	100-L	3390	3148	2587	172	1164	53	53	0.00	0.93	0
1918224	OC120309	3.22	251 3-	4/0 ACSR	2057	1866	1449	167	1164	53	16	0.82	1.75	627
1918242	1918224	3.49	24 1-	4 ACSR	0	0	1289	164	160	22	16	0.14	1.89	13
1918243	1918242	3.56	0 1-	2 ACSR	0	0	1260	164	0	0	0	0.00	1.89	0
SW120312-A	1918243	3.56	0 1-	Open	0	0	1260	164	0	0	0	0.00	1.89	0
1918151	1918224	3.54	14 1-	1/0 ACSR	0	0	1317	165	66	9	4	0.03	1.78	0
1918225	1918224	3.48	169 3-	4/0 ACSR	1939	1761	1357	166	722	33	10	0.09	1.83	44
1918226	1918225	3.53	169 3-	1/0 ACSR	1911	1737	1337	166	722	33	14	0.03	1.86	17
1918279	1918226	3.55	66 1-	4 ACSR	0	0	1326	166	234	32	23	0.03	1.89	6
1918275	1918279	3.57	40 1-	4 ACSR	0	0	1312	165	97	13	10	0.02	1.91	1
1918276	1918275	3.71	39 1-	6 ACWC	0	0	1241	164	95	13	9	0.08	1.99	6
1918280	1918276	4.02	35 1-	4 ACSR	0	0	1106	161	80	11	8	0.08	2.06	4
SW120563-A	1918280	4.02	0 1-	Open	0	0	1106	161	0	0	0	0.00	2.06	0
1918292	1918279	3.61	26 1-	1/0 URD PRI AL	0	0	1305	388	136	18	11	0.03	1.92	3
1918274	1918292	4.24	17 1-	1/0 ACSR	0	0	1107	162	85	11	5	0.08	2.01	4
1918239	1918226	3.58	61 1-	2 ACSR	0	0	1312	165	301	41	23	0.07	1.94	17
1918241	1918239	3.73	13 1-	2 ACSR	0	0	1250	164	55	7	4	0.02	1.95	0
SW120312-B	1918241	3.73	0 1-	Open	0	0	1250	164	0	0	0	0.00	1.95	0
1918240	1918239	4.47	43 1-	2 ACSR	0	0	1007	159	220	30	17	0.43	2.36	52
1918227	1918226	3.63	42 3-	1/0 ACSR	1857	1690	1299	165	186	8	4	0.02	1.88	2
1918231	1918227	4.06	3 3-	1/0 ACSR	1660	1519	1159	163	5	0	0	0.00	1.88	0
SW120273-A	1918231	4.06	0 3-	Open	1660	1519	1159	163	0	0	0	0.00	1.88	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
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LINE SECT	PRIOR SECT	MILES CONS	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1918277	1918227	4.27	39 1-	4 ACSR	0	0	1024	159	182	25	18	0.47	2.35	57
1918278	1918277	4.43	8 1-	1/0 ACSR	0	0	988	158	54	7	3	0.01	2.37	0
1918220	1918219	0.98	0 3-	1/0 ACSR	4332	4096	3530	174	0	0	0	0.00	0.59	0
1918221	1918220	0.98	0 3-	4 ACSR	4313	4074	3510	174	0	0	0	0.00	0.59	0
SW120235-A	1918221	0.98	0 3-	Open	4313	4074	3510	174	0	0	0	0.00	0.59	0
CKT 164 total losses:	\$1,772													
SUB 9 total losses:	\$38,306													

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 10	ALCAN 1		49		5868	6042	6107	176	5358					
SUB 10, CKT 114														
ALCN_114	ALCAN 1	0.00	3 3-	SBS_99_SBS	5868	6042	6107	176	3096	165	0	0.00	0.00	0
2017207	ALCN_114	0.01	3 3-	336.4 ACSR	5848	6011	6074	176	3096	165	31	0.01	0.01	18
2017184	2017207	0.01	0 3-	336.4 ACSR	5832	5985	6047	176	0	0	0	0.00	0.01	0
SW120338-A	2017184	0.01	0 3-	Open	5832	5985	6047	176	0	0	0	0.00	0.01	0
2017208	2017207	0.24	3 3-	336.4 ACSR	5250	5219	5086	176	3096	165	31	0.37	0.38	614
SW120329-B	2017208	0.24	1 3-	Closed	5250	5219	5086	176	3090	165	0	0.00	0.38	0
SW120329-A	SW120329-B	0.24	1 3-	Closed	5250	5219	5086	176	3090	165	0	0.00	0.38	0
2017181	SW120329-A	0.30	1 3-	336.4 ACSR	5117	5064	4882	176	3090	165	31	0.09	0.48	155
2017340	2017181	0.30	0 3-	1/0 URD PRI AL	5106	5056	4870	463	0	0	0	0.00	0.48	0
SW120332-A	2017340	0.30	0 3-	Open	5106	5056	4870	463	0	0	0	0.00	0.48	0
2017182	2017181	0.41	1 3-	336.4 ACSR	4880	4793	4536	175	3089	165	31	0.18	0.65	295
1917267	2017182	0.75	0 3-	336.4 ACSR	4262	4107	3711	175	0	0	0	0.00	0.65	0
SW120335-A	1917267	0.75	0 3-	Open	4262	4107	3711	175	0	0	0	0.00	0.65	0
2017337	2017182	0.41	1 3-	4/0 URD PRI	4872	4788	4526	462	3086	165	74	0.01	0.67	32
2017999	2017337	0.41	1 3-	Consumer	4872	4788	4526	462	3086	165	0	0.00	0.67	0
2017338	2017337	0.42	0 3-	4/0 URD PRI	4856	4778	4506	461	0	0	0	0.00	0.67	0
2017339	2017338	0.55	0 3-	1/0 URD PRI AL	4604	4568	4250	455	0	0	0	0.00	0.67	0
SW120332-B	2017339	0.55	0 3-	Open	4604	4568	4250	455	0	0	0	0.00	0.67	0
CKT 114 total losses:	\$1,114													
SUB 10, CKT 124														
ALCN_124	ALCAN 1	0.00	46 3-	SBS_99_SBS	5868	6042	6107	176	2262	100	0	0.00	0.00	0
2017211	ALCN_124	0.01	46 3-	336.4 ACSR	5843	6003	6066	176	2262	100	19	0.00	0.00	8
2017212	2017211	0.02	46 3-	336.4 ACSR	5815	5959	6020	176	2262	100	19	0.01	0.01	10
2017216	2017212	0.02	0 3-	336.4 ACSR	5801	5937	5995	176	0	0	0	0.00	0.01	0
SW120338-B	2017216	0.02	0 3-	Open	5801	5937	5995	176	0	0	0	0.00	0.01	0
2017213	2017212	0.31	46 3-	336.4 ACSR	5081	5026	4877	176	2262	100	19	0.17	0.18	286
1917270	2017213	0.53	45 3-	4/0 ACSR	4550	4434	4164	175	2258	100	29	0.19	0.37	338
1917158	1917270	0.57	43 3-	4/0 ACSR	4457	4332	4047	175	2252	102	30	0.04	0.41	70
1917159	1917158	0.68	10 3-	4/0 ACSR	4236	4092	3774	175	2182	99	29	0.11	0.52	166
1917160	1917159	0.73	10 3-	4/0 ACSR	4142	3991	3662	175	2181	103	30	0.06	0.58	81
1917163	1917160	0.96	9 3-	4/0 ACSR	3752	3577	3214	174	1000	44	13	0.08	0.66	70
1917173	1917163	1.05	1 3-	4/0 ACSR	3608	3426	3056	174	78	4	1	0.00	0.66	0
1917174	1917173	1.07	0 3-	1/0 ACSR	3577	3394	3023	174	0	0	0	0.00	0.66	0
1917245	1917174	1.30	0 3-	1/0 URD PRI AL	3291	3138	2780	437	0	0	0	0.00	0.66	0
SW120377-B	1917245	1.30	0 3-	Open	3291	3138	2780	437	0	0	0	0.00	0.66	0
1917164	1917163	0.97	8 3-	4/0 ACSR	3733	3557	3193	174	921	40	12	0.00	0.66	3
1917166	1917164	1.02	7 3-	4/0 ACSR	3664	3484	3117	174	547	27	8	0.00	0.66	5
1917167	1917166	1.07	7 3-	4/0 ACSR	3583	3400	3029	174	547	24	7	0.01	0.67	4
1917168	1917167	1.26	5 3-	336.4 ACSR	3377	3186	2794	173	462	20	4	0.02	0.69	7
1917169	1917168	1.33	2 3-	4/0 ACSR	3291	3098	2700	173	425	18	6	0.01	0.69	4
1917171	1917169	1.48	1 3-	336.4 ACSR	3149	2953	2546	173	396	17	3	0.01	0.70	5
1917172	1917171	1.50	1 3-	336.4 ACSR	3137	2940	2533	173	396	21	4	0.00	0.71	0
1917243	1917172	1.52	1 3-	1/0 URD PRI AL	3115	2921	2516	439	396	21	13	0.01	0.72	4
1917997	1917243	1.52	1 3-	Consumer	3115	2921	2516	439	396	21	0	0.00	0.72	0
1917244	1917243	1.52	0 3-	1/0 URD PRI AL	3111	2917	2513	439	0	0	0	0.00	0.72	0
CA120014	1917171	1.48	0 3-	Capacitor	3149	2953	2546	173	0	-14	0	0.00	0.70	0
1917170	1917169	1.37	0 3-	4/0 ACSR	3250	3056	2656	173	0	0	0	0.00	0.69	0
SW120344-A	1917170	1.37	0 3-	Open	3250	3056	2656	173	0	0	0	0.00	0.69	0
CA120011	1917166	1.02	0 3-	Capacitor	3654	3484	3117	174	0	-14	0	0.00	0.66	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES CONS	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 11 PPG			1		5701	5860	5934	176	5109					
SUB 11, CKT 104														
PPG_104	PPG	0.00	1 3-	SBS_99_SBS	5701	5860	5934	176	5109	234	0	0.00	0.00	0
2017236	PPG_104	0.00	1 3-	336.4 ACSR	5688	5841	5913	176	5109	234	44	0.01	0.01	24
2017997	2017236	0.00	1 3-	Consumer	5688	5841	5913	176	5109	234	0	0.00	0.01	0
CKT 104 total losses:		\$24												
SUB 11 total losses:		\$24												

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 12 SOUTH ELKHORN			1790		5961	6130	6202	176	8707					
SUB 12, CKT 104														
SELK_104	SOUTH ELKHORN	0.00	1042 3-	SBS_99_UNK	5961	6130	6202	176	3605	163	0	0.00	0.00	0
1414419	SELK_104	0.06	1042 3-	350 MCM URD PRI	5884	6038	6111	465	3605	163	51	0.06	0.06	175
1414315	1414419	0.31	1042 3-	336.4 ACSR	5221	5206	5022	175	3603	163	31	0.28	0.34	646
SW101111-B	1414315	0.31	1042 3-	Closed	5221	5206	5022	175	3598	163	0	0.00	0.34	0
SW101111-A	SW101111-B	0.31	1042 3-	Closed	5221	5206	5022	175	3598	163	0	0.00	0.34	0
1414316	SW101111-A	0.65	1042 3-	336.4 ACSR	4511	4382	4020	175	3598	163	31	0.38	0.72	884
1414461	1414316	0.85	7 1-	1/0 URD PRI AL	0	0	3569	446	51	6	4	0.02	0.74	0
SW101263-B	1414461	0.85	0 1-	Open	0	0	3569	446	0	0	0	0.00	0.74	0
1414369	1414316	1.00	5 1-	1/0 URD PRI AL	0	0	3233	438	26	3	2	0.02	0.74	0
SW101264-B	1414369	1.00	0 1-	Open	0	0	3233	438	0	0	0	0.00	0.74	0
1414317	1414316	0.82	1019 3-	336.4 ACSR	4227	4069	3660	174	3474	157	30	0.18	0.90	407
1414296	1414317	1.02	1005 3-	336.4 ACSR	3934	3753	3310	174	3417	155	29	0.21	1.10	461
1414460	1414296	1.11	2 1-	1/0 URD PRI AL	0	0	3156	446	3	0	0	0.00	1.11	0
SW101265-B	1414460	1.11	0 1-	Open	0	0	3156	446	0	0	0	0.00	1.11	0
1414472	1414296	1.09	3 1-	1/0 URD PRI AL	0	0	3193	447	7	0	1	0.00	1.11	0
SW101266-A	1414472	1.09	0 1-	Open	0	0	3193	447	0	0	0	0.00	1.11	0
1414297	1414296	1.24	976 3-	336.4 ACSR	3655	3460	2995	173	3311	150	28	0.22	1.32	475
1414459	1414297	1.88	13 1-	1/0 URD PRI AL	0	0	2204	415	63	8	5	0.09	1.41	3
SW101263-A	1414459	1.88	0 1-	Open	0	0	2204	415	0	0	0	0.00	1.41	0
1414298	1414297	1.35	939 3-	336.4 ACSR	3529	3329	2857	173	3182	145	27	0.11	1.43	223
1414471	1414298	1.41	5 1-	1/0 URD PRI AL	0	0	2784	442	9	1	1	0.00	1.43	0
SW101269-A	1414471	1.41	0 1-	Open	0	0	2784	442	0	0	0	0.00	1.43	0
1414368	1414298	1.82	25 1-	1/0 URD PRI AL	0	0	2299	422	48	6	4	0.05	1.48	1
SW101267-A	1414368	1.82	0 1-	Open	0	0	2299	422	0	0	0	0.00	1.48	0
1414299	1414298	1.40	861 3-	336.4 ACSR	3477	3276	2803	173	3080	140	26	0.04	1.48	90
1414470	1414299	1.62	19 1-	1/0 URD PRI AL	0	0	2531	433	64	8	5	0.03	1.51	0
SW101269-B	1414470	1.62	0 1-	Open	0	0	2531	433	0	0	0	0.00	1.51	0
1414300	1414299	1.41	841 3-	336.4 ACSR	3469	3267	2793	173	3013	137	26	0.01	1.48	15
1414283	1414300	1.55	407 3-	336.4 ACSR	3324	3119	2642	173	1725	78	15	0.07	1.56	85
SW101108-B	1414283	1.55	407 3-	Closed	3324	3119	2642	173	1725	78	0	0.00	1.56	0
SW101108-A	SW101108-B	1.55	407 3-	Closed	3324	3119	2642	173	1725	78	0	0.00	1.56	0
1414318	SW101108-A	1.65	407 3-	336.4 ACSR	3230	3024	2546	173	1725	78	15	0.05	1.61	59
1414384	1414318	2.07	10 1-	1/0 URD PRI AL	0	0	2134	420	58	7	5	0.05	1.66	2
SW101268-A	1414384	2.07	0 1-	Open	0	0	2134	420	0	0	0	0.00	1.66	0
1414458	1414318	2.26	35 1-	1/0 URD PRI AL	0	0	1970	411	160	21	13	0.21	1.82	20
SW101265-A	1414458	2.26	0 1-	Open	0	0	1970	411	0	0	0	0.00	1.82	0
1414271	1414318	1.68	0 3-	336.4 ACSR	3198	2991	2513	173	0	0	0	0.00	1.61	0
SW101120-A	1414271	1.68	0 3-	Closed	3198	2991	2513	173	0	0	0	0.00	1.61	0
SW101120-B	SW101120-A	1.68	0 3-	Closed	3198	2991	2513	173	0	0	0	0.00	1.61	0
1414469	1414318	2.25	29 1-	1/0 URD PRI AL	0	0	1977	411	143	19	11	0.19	1.79	16
SW101266-B	1414469	2.25	0 1-	Open	0	0	1977	411	0	0	0	0.00	1.79	0
1414319	1414318	1.71	332 3-	336.4 ACSR	3176	2969	2491	173	1362	62	12	0.02	1.63	22
1414320	1414319	1.79	251 3-	336.4 ACSR	3101	2894	2416	172	939	42	8	0.02	1.66	15
1414269	1414320	1.92	117 3-	336.4 ACSR	2993	2786	2310	172	503	22	4	0.02	1.68	7
1414350	1414269	1.98	42 2-	2 ACSR	0	0	2704	2242	125	9	5	0.01	1.69	2
1414351	1414350	2.03	42 2-	4 ACSR	0	0	2609	2168	171	135	9	0.02	1.71	2
1414352	1414351	2.04	40 2-	1/0 ACSR	0	0	2602	2162	171	124	8	0.00	1.71	0
1414357	1414352	2.04	21 1-	1/0 ACSR	0	0	2157	171	62	8	4	0.00	1.71	0
1414270	1414269	1.99	75 3-	336.4 ACSR	2940	2733	2259	172	369	16	3	0.01	1.68	2
1414421	1414270	2.01	75 3-	1/0 URD PRI AL	2918	2712	2243	434	369	16	10	0.01	1.69	3

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1414457	1414421	2.31	8 1-	1/0 URD PRI AL	0	0	2006	419	36	4	3	0.03	1.72	0
1414356	1414457	2.34	2 1-	1/0 ACSR	0	0	1981	169	7	1	0	0.00	1.72	0
SW101258-B	1414356	2.34	0 1-	Open	0	0	1981	169	0	0	0	0.00	1.72	0
1414468	1414421	2.25	18 1-	1/0 URD PRI AL	0	0	2052	422	93	12	7	0.05	1.74	3
SW101261-B	1414468	2.25	0 1-	Open	0	0	2052	422	0	0	0	0.00	1.74	0
1414480	1414421	2.34	9 1-	1/0 URD PRI AL	0	0	1983	418	45	6	4	0.03	1.73	0
SW101259-B	1414480	2.34	0 1-	Open	0	0	1983	418	0	0	0	0.00	1.73	0
1414456	1414421	2.25	15 1-	1/0 URD PRI AL	0	0	2054	422	73	9	6	0.04	1.73	2
SW101262-B	1414456	2.25	0 1-	Open	0	0	2054	422	0	0	0	0.00	1.73	0
1414383	1414421	2.40	25 1-	1/0 URD PRI AL	0	0	1942	415	123	16	10	0.10	1.79	7
SW101260-B	1414383	2.40	0 1-	Open	0	0	1942	415	0	0	0	0.00	1.79	0
1414321	1414320	1.83	133 3-	336.4 ACSR	3063	2856	2379	172	435	19	4	0.01	1.66	2
1414322	1414321	1.84	131 3-	4/0 ACSR	3057	2850	2373	172	431	19	6	0.00	1.66	0
OC101177	1414322	1.84	131 3-	REC_100_UNK	3057	2850	2373	172	431	19	20	0.00	1.66	0
1414323	OC101177	1.89	131 3-	4/0 ACSR	3002	2795	2320	172	431	19	6	0.01	1.67	3
1414382	1414323	2.13	17 1-	1/0 URD PRI AL	0	0	2120	424	51	6	4	0.03	1.70	0
SW101257-B	1414382	2.13	0 1-	Open	0	0	2120	424	0	0	0	0.00	1.70	0
1414268	1414323	1.94	14 3-	1/0 ACSR	2944	2736	2268	172	45	2	1	0.00	1.68	0
1414396	1414268	2.25	14 1-	1/0 URD PRI AL	0	0	2018	419	45	6	4	0.03	1.71	0
SW101254-A	1414396	2.25	0 1-	Open	0	0	2018	419	0	0	0	0.00	1.71	0
1414290	1414323	1.96	99 3-	4/0 ACSR	2939	2733	2260	172	328	14	4	0.01	1.68	2
1414479	1414290	1.97	0 1-	1/0 URD PRI AL	0	0	2250	434	0	0	0	0.00	1.68	0
SW101256-B	1414479	1.97	0 1-	Open	0	0	2250	434	0	0	0	0.00	1.68	0
1414291	1414290	2.05	93 3-	4/0 ACSR	2852	2648	2179	172	310	14	4	0.01	1.70	3
1414478	1414291	2.47	30 1-	1/0 URD PRI AL	0	0	1866	412	105	14	8	0.10	1.79	6
SW101256-A	1414478	2.47	0 1-	Open	0	0	1866	412	0	0	0	0.00	1.79	0
1414292	1414291	2.13	56 3-	4/0 ACSR	2780	2576	2111	171	178	8	2	0.01	1.70	0
1414455	1414292	2.15	3 1-	1/0 URD PRI AL	0	0	2100	430	15	2	1	0.00	1.70	0
SW101255-B	1414455	2.15	0 1-	Open	0	0	2100	430	0	0	0	0.00	1.70	0
1414293	1414292	2.20	48 3-	4/0 ACSR	2717	2515	2054	171	147	6	2	0.00	1.71	0
1414294	1414293	2.24	15 3-	4/0 ACSR	2687	2486	2027	171	44	2	1	0.00	1.71	0
SW101119-B	1414294	2.24	15 3-	Closed	2687	2486	2027	171	44	2	0	0.00	1.71	0
SW101119-A	SW101119-B	2.24	15 3-	Closed	2687	2486	2027	171	44	2	0	0.00	1.71	0
1414295	SW101119-A	2.27	15 3-	4/0 ACSR	2661	2460	2002	171	44	2	1	0.00	1.71	0
1414325	1414295	2.41	9 3-	4/0 ACSR	2556	2358	1908	171	26	1	0	0.00	1.71	0
1414395	1414325	2.44	3 1-	1/0 URD PRI AL	0	0	1887	422	9	1	1	0.00	1.71	0
SW101253-B	1414395	2.44	0 1-	Open	0	0	1887	422	0	0	0	0.00	1.71	0
1414326	1414325	2.42	0 3-	4/0 ACSR	2550	2352	1903	170	0	0	0	0.00	1.71	0
1414324	1414295	2.34	4 3-	4/0 ACSR	2612	2412	1958	171	11	0	0	0.00	1.71	0
1414392	1414324	2.39	2 1-	1/0 URD PRI AL	0	0	1921	423	7	0	1	0.00	1.71	0
SW101254-B	1414392	2.39	0 1-	Open	0	0	1921	423	0	0	0	0.00	1.71	0
1414355	1414293	2.21	28 1-	1/0 ACSR	0	0	2050	171	81	11	5	0.00	1.71	0
1414454	1414355	2.47	28 1-	1/0 URD PRI AL	0	0	1870	416	81	11	7	0.05	1.75	2
SW101255-A	1414454	2.47	0 1-	Open	0	0	1870	416	0	0	0	0.00	1.75	0
1414408	1414321	1.87	2 1-	1/0 URD PRI AL	0	0	2348	436	4	0	0	0.00	1.66	0
SW101257-A	1414408	1.87	0 1-	Open	0	0	2348	436	0	0	0	0.00	1.66	0
1414420	1414319	1.84	80 3-	1/0 URD PRI AL	3039	2843	2391	434	417	19	11	0.05	1.68	18
1414451	1414420	2.12	21 1-	1/0 URD PRI AL	0	0	2134	420	136	18	11	0.14	1.82	15
1414452	1414451	2.17	12 1-	1/0 URD PRI AL	0	0	2087	418	44	5	4	0.01	1.83	0
1414361	1414452	2.18	0 1-	1/0 ACSR	0	0	2082	169	0	0	0	0.00	1.83	0
SW101258-A	1414361	2.18	0 1-	Open	0	0	2082	169	0	0	0	0.00	1.83	0
1414453	1414452	2.56	11 1-	1/0 URD PRI AL	0	0	1789	401	40	5	3	0.03	1.86	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW101262-A	1414453	2.56	0 1-	Open	0	0	1789	401	0	0	0	0.00	1.86	0
1414998	1414451	2.12	1 1-	Consumer	0	0	2134	420	52	7	0	0.00	1.82	0
1414412	1414420	2.52	34 1-	1/0 URD PRI AL	0	0	1820	403	155	21	12	0.22	1.91	21
SW101260-A	1414412	2.52	0 1-	Open	0	0	1820	403	0	0	0	0.00	1.91	0
1414487	1414420	1.96	18 1-	2 URD PRI AL	0	0	2233	426	85	11	10	0.06	1.74	4
1414488	1414487	2.17	15 1-	1/0 URD PRI AL	0	0	2049	416	72	9	6	0.05	1.79	3
1414490	1414488	2.49	10 1-	1/0 URD PRI AL	0	0	1807	402	47	6	4	0.03	1.82	0
SW101261-A	1414490	2.49	0 1-	Open	0	0	1807	402	0	0	0	0.00	1.82	0
1414489	1414488	2.18	0 1-	1/0 URD PRI AL	0	0	2045	416	0	0	0	0.00	1.79	0
SW101259-A	1414489	2.18	0 1-	Open	0	0	2045	416	0	0	0	0.00	1.79	0
1414301	1414300	1.45	433 3-	336.4 ACSR	3428	3225	2750	173	1287	58	11	0.02	1.50	13
1414280	1414301	1.52	53 3-	336.4 ACSR	3355	3151	2674	173	134	6	1	0.00	1.50	0
1414450	1414280	1.53	0 1-	1/0 URD PRI AL	0	0	2656	442	0	0	0	0.00	1.50	0
SW101270-A	1414450	1.53	0 1-	Open	0	0	2656	442	0	0	0	0.00	1.50	0
1414281	1414280	1.64	8 3-	336.4 ACSR	3236	3029	2551	173	18	0	0	0.00	1.50	0
1414486	1414281	1.71	0 1-	1/0 URD PRI AL	0	0	2481	437	0	0	0	0.00	1.50	0
SW101271-A	1414486	1.71	0 1-	Open	0	0	2481	437	0	0	0	0.00	1.50	0
1414411	1414281	1.72	4 1-	1/0 URD PRI AL	0	0	2464	436	11	1	1	0.00	1.50	0
SW101272-A	1414411	1.72	0 1-	Open	0	0	2464	436	0	0	0	0.00	1.50	0
1414282	1414281	1.68	2 3-	336.4 ACSR	3195	2988	2510	173	3	0	0	0.00	1.50	0
1414449	1414282	1.72	2 1-	1/0 URD PRI AL	0	0	2475	438	3	0	0	0.00	1.50	0
SW101273-B	1414449	1.72	0 1-	Open	0	0	2475	438	0	0	0	0.00	1.50	0
1414302	1414301	1.59	380 3-	336.4 ACSR	3284	3078	2600	173	1153	52	10	0.05	1.55	38
OC101178	1414302	1.59	376 3-	REC_99_UNK	3284	3078	2600	173	1142	52	0	0.00	1.55	0
1414303	OC101178	1.66	376 3-	336.4 ACSR	3215	3008	2530	173	1142	52	10	0.03	1.57	19
1414279	1414303	1.68	0 3-	336.4 ACSR	3195	2988	2510	173	0	0	0	0.00	1.57	0
SW-211660960-A	1414279	1.68	0 3-	Open	3195	2988	2510	173	0	0	0	0.00	1.57	0
1414304	1414303	1.80	376 3-	336.4 ACSR	3089	2882	2404	172	1142	52	10	0.05	1.62	37
1414306	1414304	1.90	292 3-	4/0 ACSR	2985	2779	2304	172	906	41	12	0.04	1.66	26
1414406	1414306	2.33	31 1-	1/0 URD PRI AL	0	0	1958	415	111	15	9	0.14	1.80	11
1414410	1414406	2.34	0 1-	1/0 URD PRI AL	0	0	1953	415	0	0	0	0.00	1.80	0
SW101251-B	1414410	2.34	0 1-	Open	0	0	1953	415	0	0	0	0.00	1.80	0
1414407	1414406	2.63	12 1-	1/0 URD PRI AL	0	0	1750	402	42	5	3	0.03	1.83	0
SW101253-A	1414407	2.63	0 1-	Open	0	0	1750	402	0	0	0	0.00	1.83	0
1414448	1414306	2.26	40 1-	1/0 URD PRI AL	0	0	2012	418	113	15	9	0.09	1.75	6
SW101249-A	1414448	2.26	0 1-	Open	0	0	2012	418	0	0	0	0.00	1.75	0
1414485	1414306	2.68	49 1-	1/0 URD PRI AL	0	0	1722	400	151	20	12	0.25	1.91	22
SW101250-B	1414485	2.68	0 1-	Open	0	0	1722	400	0	0	0	0.00	1.91	0
1414307	1414306	1.97	163 3-	4/0 ACSR	2923	2717	2245	172	494	22	7	0.01	1.68	5
1414394	1414307	2.32	24 1-	1/0 URD PRI AL	0	0	1966	417	78	10	6	0.06	1.74	3
SW101272-B	1414394	2.32	0 1-	Open	0	0	1966	417	0	0	0	0.00	1.74	0
1414430	1414307	2.41	45 1-	1/0 URD PRI AL	0	0	1900	413	142	19	11	0.14	1.81	11
SW101271-B	1414430	2.41	0 1-	Open	0	0	1900	413	0	0	0	0.00	1.81	0
1414364	1414307	2.08	42 2-	4/0 ACSR	0	2608	2146	171	127	8	3	0.01	1.69	0
1414360	1414364	2.12	33 1-	1/0 ACSR	0	0	2115	171	100	13	6	0.01	1.70	0
1414447	1414360	2.79	33 1-	1/0 URD PRI AL	0	0	1667	399	100	13	8	0.14	1.84	9
SW101273-A	1414447	2.79	0 1-	Open	0	0	1667	399	0	0	0	0.00	1.84	0
1414365	1414364	2.12	3 2-	4/0 ACSR	0	2572	2113	171	5	0	0	0.00	1.69	0
SW101118-A	1414365	2.12	0 2-	Closed	0	2572	2113	171	0	0	0	0.00	1.69	0
SW101118-B	SW101118-A	2.12	0 2-	Closed	0	2572	2113	171	0	0	0	0.00	1.69	0
1414445	1414307	1.99	47 1-	1/0 URD PRI AL	0	0	2226	433	130	17	10	0.01	1.69	1
1414446	1414445	2.43	47 1-	1/0 URD PRI AL	0	0	1890	412	130	17	10	0.12	1.81	9

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Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW101270-B	1414446	2.43	0 1-	Open	0	0	1890	412	0	0	0	0.00	1.81	0
1414305	1414304	2.15	80 3-	336.4 ACSR	2818	2612	2142	172	232	10	2	0.02	1.64	3
1414444	1414305	2.16	0 1-	1/0 URD PRI AL	0	0	2134	432	0	0	0	0.00	1.64	0
SW101249-B	1414444	2.16	0 1-	Open	0	0	2134	432	0	0	0	0.00	1.64	0
1414387	1414305	2.35	37 1-	1/0 URD PRI AL	0	0	2000	423	112	15	9	0.07	1.71	6
1414393	1414387	2.48	11 1-	1/0 URD PRI AL	0	0	1908	417	27	3	2	0.01	1.72	0
SW101252-A	1414393	2.48	0 1-	Open	0	0	1908	417	0	0	0	0.00	1.72	0
1414390	1414387	2.48	11 1-	1/0 URD PRI AL	0	0	1903	416	29	3	2	0.01	1.72	0
1414405	1414390	2.53	0 1-	1/0 URD PRI AL	0	0	1874	414	0	0	0	0.00	1.72	0
SW101251-A	1414405	2.53	0 1-	Open	0	0	1874	414	0	0	0	0.00	1.72	0
1414391	1414390	2.49	0 1-	1/0 URD PRI AL	0	0	1899	416	0	0	0	0.00	1.72	0
SW101252-B	1414391	2.49	0 1-	Open	0	0	1899	416	0	0	0	0.00	1.72	0
1414429	1414305	2.27	14 1-	1/0 URD PRI AL	0	0	2055	426	40	5	3	0.01	1.65	0
SW101250-A	1414429	2.27	0 1-	Open	0	0	2055	426	0	0	0	0.00	1.65	0
1414389	1414296	1.20	11 1-	1/0 URD PRI AL	0	0	3019	441	31	4	3	0.02	1.12	0
1414386	1414389	1.21	2 1-	1/0 URD PRI AL	0	0	3000	441	6	0	0	0.00	1.12	0
SW101267-B	1414386	1.21	0 1-	Open	0	0	3000	441	0	0	0	0.00	1.12	0
1414385	1414389	1.24	2 1-	1/0 URD PRI AL	0	0	2949	439	11	1	1	0.00	1.12	0
SW101268-B	1414385	1.24	0 1-	Open	0	0	2949	439	0	0	0	0.00	1.12	0
1414349	1414317	0.84	8 2-	1/0 ACSR	0	4027	3618	174	33	2	1	0.00	0.90	0
1414381	1414349	0.91	1 1-	1/0 URD PRI AL	0	0	3481	449	5	0	0	0.00	0.90	0
SW101264-A	1414381	0.91	0 1-	Open	0	0	3481	449	0	0	0	0.00	0.90	0

CKT 104 total losses: \$3,925

SUB 12, CKT 114

SELK_114	SOUTH ELKHORN	0.00	323 3-	SBS_99_UNK	5961	6130	6202	176	2351	106	0	0.00	0.00	0
1414272	SELK_114	0.01	323 3-	336.4 ACSR	5927	6077	6145	176	2351	106	20	0.01	0.01	12
1414422	1414272	0.06	323 3-	4/0 URD PRI AL	5831	5976	6004	465	2351	106	47	0.05	0.06	103
1414273	1414422	0.19	323 3-	336.4 ACSR	5471	5517	5402	175	2350	106	20	0.09	0.15	143
1414423	1414273	0.19	323 3-	500 MCM URD PRI	5470	5516	5401	463	2349	106	27	0.00	0.15	0
SW1050464891-B	1414423	0.19	323 3-	Closed	5470	5516	5401	463	2349	106	0	0.00	0.15	0
SW1050464891-A	SW1050464891-B	0.19	323 3-	Closed	5470	5516	5401	463	2349	106	0	0.00	0.15	0
1414274	SW1050464891-A	0.32	323 3-	336.4 ACSR	5146	5123	4922	175	2349	106	20	0.10	0.25	145
SW-479158970-B	1414274	0.32	323 3-	Closed	5146	5123	4922	175	2348	106	0	0.00	0.25	0
SW-479158970-A	SW-479158970-B	0.32	323 3-	Closed	5146	5123	4922	175	2348	106	0	0.00	0.25	0
1414275	SW-479158970-A	0.32	323 3-	336.4 ACSR	5142	5117	4915	175	2348	106	20	0.00	0.25	2
SW2058468913-B	1414275	0.32	323 3-	Closed	5142	5117	4915	175	2347	106	0	0.00	0.25	0
SW2058468913-A	SW2058468913-B	0.32	323 3-	Closed	5142	5117	4915	175	2347	106	0	0.00	0.25	0
1414276	SW2058468913-A	0.35	323 3-	336.4 ACSR	5074	5036	4814	175	2347	106	20	0.02	0.27	33
1414477	1414276	0.60	0 1-	1/0 URD PRI AL	0	0	4027	447	0	0	0	0.00	0.27	0
SW20508999-A	1414477	0.60	0 1-	Open	0	0	4027	447	0	0	0	0.00	0.27	0
1414441	1414276	0.86	0 1-	1/0 URD PRI AL	0	0	3342	434	0	0	0	0.00	0.27	0
SW583968019-B	1414441	0.86	0 1-	Open	0	0	3342	434	0	0	0	0.00	0.27	0
SW-1540355862-B	1414276	0.35	323 3-	Closed	5074	5036	4814	175	2347	106	0	0.00	0.27	0
SW-1540355862-A	SW-1540355862-B	0.35	323 3-	Closed	5074	5036	4814	175	2347	106	0	0.00	0.27	0
1414327	SW-1540355862-A	0.53	323 3-	336.4 ACSR	4709	4610	4294	175	2347	106	20	0.13	0.40	191
1414388	1414327	0.79	2 1-	1/0 URD PRI AL	0	0	3622	444	15	2	1	0.01	0.41	0
SW-751777516-A	1414388	0.79	0 1-	Open	0	0	3622	444	0	0	0	0.00	0.41	0
1414328	1414327	0.58	321 3-	336.4 ACSR	4602	4488	4150	175	2331	105	20	0.04	0.44	61
1414424	1414328	0.59	321 3-	500 MCM URD PRI	4601	4487	4149	457	2330	105	27	0.00	0.44	2
SW-2027811387-B	1414424	0.59	321 3-	Closed	4601	4487	4149	457	2330	105	0	0.00	0.44	0
SW-2027811387-A	SW-2027811387-B	0.59	321 3-	Closed	4601	4487	4149	457	2330	105	0	0.00	0.44	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1414425	SW-2027811387-A	0.80	321 3-	500 MCM URD PRI	4439	4340	4022	454	2330	105 27	0.13	0.57	252	0
SW2085818649-B	1414425	0.80	321 3-	Closed	4439	4340	4022	454	2328	105 0	0.00	0.57	0	0
SW2085818649-A	SW2085818649-B	0.80	321 3-	Closed	4439	4340	4022	454	2328	105 0	0.00	0.57	0	0
1414426	SW2085818649-A	0.80	321 3-	500 MCM URD PRI	4437	4338	4020	454	2328	105 27	0.00	0.57	3	0
1414373	1414426	1.22	2 1-	1/0 URD PRI AL	0	0	3082	433	14	1 1	0.01	0.58	0	0
SW-751777516-B	1414373	1.22	0 1-	Open	0	0	3082	433	0	0 0	0.00	0.58	0	0
SW548407501-B	1414426	0.80	319 3-	Closed	4437	4338	4020	454	2314	104 0	0.00	0.57	0	0
SW548407501-A	SW548407501-B	0.80	319 3-	Closed	4437	4338	4020	454	2314	104 0	0.00	0.57	0	0
1414329	SW548407501-A	0.81	319 3-	336.4 ACSR	4417	4315	3993	174	2314	104 20	0.01	0.58	12	0
1414372	1414329	1.41	14 1-	1/0 URD PRI AL	0	0	2744	424	88	11 7	0.11	0.69	6	0
SW210-A	1414372	1.41	0 1-	Open	0	0	2744	424	0	0 0	0.00	0.69	0	0
1414440	1414329	1.24	2 1-	1/0 URD PRI AL	0	0	3043	432	16	2 1	0.01	0.59	0	0
SW209-A	1414440	1.24	0 1-	Open	0	0	3043	432	0	0 0	0.00	0.59	0	0
SW208-B	1414440	1.24	0 1-	Open	0	0	3043	432	0	0 0	0.00	0.59	0	0
1414330	1414329	0.93	303 3-	336.4 ACSR	4221	4092	3736	174	2210	100 19	0.08	0.65	107	0
1414371	1414330	1.38	15 1-	1/0 URD PRI AL	0	0	2852	430	108	14 9	0.10	0.76	7	0
SW214-B	1414371	1.38	0 1-	Open	0	0	2852	430	0	0 0	0.00	0.76	0	0
1414331	1414330	1.13	254 3-	336.4 ACSR	3922	3762	3364	174	1898	86 16	0.12	0.77	141	0
1414376	1414331	1.17	0 1-	1/0 URD PRI AL	0	0	3298	447	0	0 0	0.00	0.77	0	0
SW214-A	1414376	1.17	0 1-	Open	0	0	3298	447	0	0 0	0.00	0.77	0	0
1414332	1414331	1.29	241 3-	336.4 ACSR	3716	3541	3122	173	1818	82 16	0.09	0.86	101	0
1414333	1414332	1.30	228 3-	336.4 ACSR	3700	3524	3104	173	1724	78 15	0.01	0.86	8	0
1414334	1414333	1.37	228 3-	336.4 ACSR	3616	3435	3007	173	1724	78 15	0.04	0.90	41	0
SW129-B	1414334	1.37	225 3-	Closed	3616	3435	3007	173	1678	76 0	0.00	0.90	0	0
SW129-A	SW129-B	1.37	225 3-	Closed	3616	3435	3007	173	1678	76 0	0.00	0.90	0	0
1414335	SW129-A	1.41	225 3-	336.4 ACSR	3572	3389	2958	173	1678	76 14	0.02	0.92	21	0
1414339	1414335	1.50	159 3-	336.4 ACSR	3475	3286	2850	173	1346	61 12	0.04	0.95	32	0
1414359	1414339	1.54	1 1-	1/0 ACSR	0	0	2787	173	7	0 0	0.00	0.95	0	0
1414439	1414359	1.59	1 1-	1/0 URD PRI AL	0	0	2727	440	7	0 1	0.00	0.96	0	0
SW215-A	1414439	1.59	0 1-	Open	0	0	2727	440	0	0 0	0.00	0.96	0	0
1414340	1414339	1.55	156 3-	336.4 ACSR	3423	3233	2794	173	1329	60 11	0.02	0.97	17	0
1414341	1414340	1.61	134 3-	336.4 ACSR	3360	3167	2725	173	1168	53 10	0.02	0.99	17	0
1414367	1414341	1.65	2 1-	1/0 ACSR	0	0	2652	173	3	0 0	0.00	1.00	0	0
1414476	1414367	1.67	2 1-	1/0 URD PRI AL	0	0	2635	439	3	0 0	0.00	1.00	0	0
SW217-A	1414476	1.67	0 1-	Open	0	0	2635	439	0	0 0	0.00	1.00	0	0
1414358	1414341	1.64	17 1-	1/0 ACSR	0	0	2676	173	103	13 6	0.01	1.01	0	0
1414467	1414358	1.95	14 1-	1/0 URD PRI AL	0	0	2335	425	87	11 7	0.06	1.06	3	0
SW216-B	1414467	1.95	0 1-	Open	0	0	2335	425	0	0 0	0.00	1.06	0	0
1414466	1414358	1.67	3 1-	1/0 URD PRI AL	0	0	2645	439	16	2 1	0.00	1.01	0	0
SW216-A	1414466	1.67	0 1-	Open	0	0	2645	439	0	0 0	0.00	1.01	0	0
1414284	1414341	1.73	115 3-	336.4 ACSR	3241	3044	2599	173	1063	48 9	0.04	1.03	28	0
1414475	1414284	2.10	13 1-	1/0 URD PRI AL	0	0	2216	422	63	8 5	0.05	1.08	2	0
SW204-B	1414475	2.10	0 1-	Open	0	0	2216	422	0	0 0	0.00	1.08	0	0
1414474	1414284	1.79	2 1-	1/0 URD PRI AL	0	0	2534	437	8	1 1	0.00	1.04	0	0
SW204-A	1414474	1.79	0 1-	Open	0	0	2534	437	0	0 0	0.00	1.04	0	0
1414285	1414284	2.00	100 3-	336.4 ACSR	3006	2806	2358	172	992	45 9	0.08	1.11	52	0
1414344	1414285	2.10	41 3-	336.4 ACSR	2925	2724	2277	172	260	11 2	0.01	1.12	1	0
SW14-B	1414344	2.10	40 3-	Closed	2925	2724	2277	172	254	11 0	0.00	1.12	0	0
SW14-A	SW14-B	2.10	40 3-	Closed	2925	2724	2277	172	254	11 0	0.00	1.12	0	0
1414345	SW14-A	2.27	40 3-	336.4 ACSR	2805	2604	2159	171	254	11 2	0.01	1.13	0	0
1414346	1414345	2.33	7 3-	336.4 ACSR	2761	2561	2117	171	35	1 0	0.00	1.13	0	0
1414436	1414346	2.37	2 1-	1/0 URD PRI AL	0	0	2086	428	11	1 1	0.00	1.13	0	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 12, CKT 124														
SELK_124	SOUTH ELKHORN	0.00	335 3-	SBS_99_UNK	5961	6130	6202	176	2075	93	0	0.00	0.00	0
1414308	SELK_124	0.37	335 3-	336.4 ACSR	5006	4918	4735	175	2075	93	18	0.24	0.24	317
1414484	1414308	0.89	1 1-	1/0 URD PRI AL	0	0	3287	434	0	0	0	0.00	0.24	0
SW20509899-B	1414484	0.89	0 1-	Open	0	0	3287	434	0	0	0	0.00	0.24	0
1414309	1414308	1.02	334 3-	336.4 ACSR	3897	3708	3214	174	2072	93	18	0.41	0.65	547
1414310	1414309	1.06	321 3-	1/0 ACSR	3827	3634	3142	174	2035	92	40	0.06	0.70	94
SW101181-B	1414310	1.06	321 3-	Closed	3827	3634	3142	174	2034	92	0	0.00	0.70	0
SW101181-A	SW101181-B	1.06	321 3-	Closed	3827	3634	3142	174	2034	92	0	0.00	0.70	0
1414311	SW101181-A	1.26	321 3-	1/0 ACSR	3455	3244	2771	173	2034	92	40	0.33	1.04	547
1414267	1414311	1.50	314 3-	1/0 ACSR	3103	2884	2441	171	1978	89	39	0.36	1.39	561
1413068	1414267	1.94	267 3-	1/0 ACSR	2587	2391	1985	169	1701	77	34	0.57	1.97	777
1413105	1413068	2.27	19 1-	1/0 URD PRI AL	0	0	1759	403	63	8	5	0.08	2.04	4
MTP109791	1413105	2.27	18 3-	Node	2209	2083	1759	403	47	6	0	0.00	2.05	0
1413107	MTP109791	2.38	18 3-	1/0 URD PRI AL	2135	2012	1704	399	141	6	4	0.01	2.07	1
1413106	1413107	3.06	17 1-	1/0 URD PRI AL	0	0	1358	372	82	11	7	0.12	2.18	6
SW101244-B	1413106	3.06	0 1-	Open	0	0	1358	372	0	0	0	0.00	2.18	0
1413120	1413068	2.24	1 1-	1/0 URD PRI AL	0	0	1775	404	54	7	4	0.07	2.03	3
SW101247-A	1413120	2.24	0 1-	Closed	0	0	1775	404	47	6	0	0.00	2.03	0
SW101247-B	SW101247-A	2.24	0 1-	Closed	0	0	1775	404	47	6	0	0.00	2.03	0
1413119	SW101247-B	2.27	0 1-	1/0 URD PRI AL	0	0	1758	403	47	6	4	0.01	2.04	0
1413110	1413068	2.11	10 1-	1/0 URD PRI AL	0	0	1861	410	109	14	9	0.08	2.05	8
1413112	1413110	2.37	7 1-	1/0 URD PRI AL	0	0	1696	399	46	6	4	0.03	2.07	0
SW101246-B	1413112	2.37	0 1-	Open	0	0	1696	399	0	0	0	0.00	2.07	0
1413111	1413110	2.27	2 1-	1/0 URD PRI AL	0	0	1758	403	61	8	5	0.04	2.08	2
1413069	1413068	2.05	220 3-	1/0 ACSR	2479	2295	1894	169	1353	61	27	0.12	2.09	134
1413070	1413069	2.27	199 3-	1/0 ACSR	2291	2125	1737	168	1216	55	24	0.21	2.30	213
1413118	1413070	2.90	9 1-	1/0 URD PRI AL	0	0	1414	381	47	6	4	0.06	2.37	2
1413104	1413070	3.56	29 1-	1/0 URD PRI AL	0	0	1171	357	194	26	16	0.54	2.84	62
SW101244-A	1413104	3.56	0 1-	Open	0	0	1171	357	0	0	0	0.00	2.84	0
1413071	1413070	2.48	161 3-	1/0 ACSR	2136	1985	1610	167	973	44	19	0.16	2.46	128
1413074	1413071	2.51	80 3-	1/0 ACSR	2115	1966	1593	167	488	22	10	0.01	2.47	5
OC101224	1413074	2.51	80 3-	REC_70_UNK	2115	1966	1593	167	488	22	32	0.00	2.47	0
1413075	OC101224	3.14	80 3-	1/0 ACSR	1756	1640	1306	164	488	22	10	0.21	2.69	78
1413083	1413075	3.19	16 1-	1/0 ACSR	0	0	1285	163	126	17	8	0.02	2.71	2
1413109	1413083	3.49	14 1-	1/0 URD PRI AL	0	0	1190	368	109	15	9	0.08	2.79	6
1413084	1413109	3.64	3 1-	1/0 ACSR	0	0	1145	161	16	2	1	0.00	2.79	0
SW101182-B	1413084	3.64	0 1-	Open	0	0	1145	161	0	0	0	0.00	2.79	0
1413076	1413075	3.24	42 3-	1/0 ACSR	1708	1596	1269	163	238	10	5	0.02	2.71	4
1413077	1413076	3.30	4 3-	1/0 ACSR	1681	1572	1248	163	19	0	0	0.00	2.71	0
1413091	1413077	3.42	2 1-	4 ACSR	0	0	1188	162	14	1	1	0.01	2.71	0
1413115	1413076	3.25	35 1-	1/0 URD PRI AL	0	0	1267	378	218	30	18	0.01	2.71	0
OC101225	1413115	3.25	35 1-	REC_35_UNK	0	0	1267	378	218	30	86	0.00	2.71	0
1413108	OC101225	3.54	35 1-	1/0 URD PRI AL	0	0	1175	367	218	30	18	0.22	2.93	36
1413086	1413108	3.61	26 1-	1/0 ACSR	0	0	1155	161	122	16	7	0.02	2.95	2
1413082	1413086	3.65	0 1-	1/0 ACSR	0	0	1142	161	0	0	0	0.00	2.95	0
SW101182-A	1413082	3.65	0 1-	Open	0	0	1142	161	0	0	0	0.00	2.95	0
1413087	1413086	4.25	24 1-	1/0 ACSR	0	0	991	158	111	15	7	0.16	3.11	11
SW101219-B	1413087	4.25	15 1-	Closed	0	0	991	158	51	7	0	0.00	3.11	0
SW101219-A	SW101219-B	4.25	15 1-	Closed	0	0	991	158	51	7	0	0.00	3.11	0
1413081	SW101219-A	4.88	15 1-	1/0 ACSR	0	0	870	155	51	7	3	0.05	3.16	1
1413072	1413071	2.55	77 3-	1/0 ACSR	2090	1943	1573	166	475	21	9	0.03	2.49	10

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1413073	1413072	2.60	12 3-	1/0 ACSR	2057	1914	1546	166	62	2	1	0.00	2.49	0
1413061	1413073	2.63	2 1-	4 ACSR	0	0	1523	166	8	1	1	0.00	2.49	0
1413099	1413072	2.55	42 1-	2 ACSR	0	0	1569	166	247	34	19	0.01	2.49	1
OC101220	1413099	2.55	42 1-	REC_50_UNK	0	0	1569	166	247	34	68	0.00	2.49	0
1413100	OC101220	3.13	42 1-	2 ACSR	0	0	1266	162	247	34	19	0.44	2.94	74
1413101	1413100	3.21	16 1-	4 ACSR	0	0	1225	162	105	14	10	0.05	2.99	5
1413090	1413101	3.31	3 1-	2 ACSR	0	0	1185	161	19	2	1	0.00	2.99	0
1413102	1413101	3.23	13 1-	1/0 ACSR	0	0	1219	162	87	12	5	0.00	2.99	0
1413088	1413102	3.46	9 1-	4 ACSR	0	0	1112	159	68	9	7	0.08	3.07	4
1413117	1413088	3.76	4 1-	1/0 URD PRI AL	0	0	1035	348	38	5	3	0.03	3.10	0
1413089	1413117	3.81	1 1-	2 ACSR	0	0	1021	157	11	1	1	0.00	3.10	0
1413097	1413072	2.55	20 1-	4 ACSR	0	0	1568	166	156	21	15	0.01	2.49	0
OC101221	1413097	2.55	20 1-	REC_50_UNK	0	0	1568	166	156	21	43	0.00	2.49	0
1413098	OC101221	3.19	20 1-	4 ACSR	0	0	1174	160	156	21	15	0.31	2.80	28
1413085	1413069	2.47	20 1-	1/0 ACSR	0	0	1617	167	136	18	8	0.16	2.25	17
1413114	1413085	3.08	13 1-	1/0 URD PRI AL	0	0	1341	376	120	16	10	0.16	2.41	11
1413080	1414267	1.86	33 1-	4 ACSR	0	0	1910	168	163	22	16	0.20	1.59	20
1413113	1413080	1.96	3 1-	1/0 URD PRI AL	0	0	1837	404	13	1	1	0.00	1.59	0
SW101246-A	1413113	1.96	0 1-	Open	0	0	1837	404	0	0	0	0.00	1.59	0
1414353	1414311	1.29	4 1-	1/0 ACSR	0	0	2736	173	29	3	2	0.00	1.04	0
1414437	1414353	1.44	4 1-	1/0 URD PRI AL	0	0	2549	432	29	3	2	0.02	1.06	0
1414414	1414437	2.40	3 1-	1/0 URD PRI AL	0	0	1685	390	29	3	2	0.06	1.12	0
SW101245-B	1414414	2.40	0 1-	Open	0	0	1685	390	0	0	0	0.00	1.12	0
1414438	1414437	1.45	0 1-	1/0 URD PRI AL	0	0	2531	432	0	0	0	0.00	1.06	0
SW101245-A	1414438	1.45	0 1-	Open	0	0	2531	432	0	0	0	0.00	1.06	0
CKT 124 total losses:		\$3,721												
SUB 12, CKT 134														
SELK_134	SOUTH ELKHORN	0.00	90 3-	SBS_99_UNK	5961	6130	6202	176	677	30	0	0.00	0.00	0
1414261	SELK_134	0.98	90 3-	336.4 ACSR	3952	3758	3320	174	677	30	6	0.05	0.05	91
SW101228-B	1414261	0.98	90 3-	Closed	3952	3758	3320	174	676	30	0	0.00	0.05	0
SW101228-A	SW101228-B	0.98	90 3-	Closed	3952	3758	3320	174	676	30	0	0.00	0.05	0
1414262	SW101228-A	1.30	90 3-	336.4 ACSR	3553	3344	2876	173	676	30	6	0.02	0.07	30
1414264	1414262	1.66	89 3-	336.4 ACSR	3193	2979	2502	173	668	30	6	0.02	0.08	32
1414265	1414264	1.77	61 3-	336.4 ACSR	3091	2878	2401	172	513	24	5	0.00	0.09	7
1414266	1414265	1.85	60 3-	336.4 ACSR	3028	2815	2339	172	475	23	4	0.00	0.08	4
OC1885028253	1414266	1.85	60 3-	_DefaultBayEqui	3028	2815	2339	172	475	23	0	0.00	0.08	0
1414312	OC1885028253	1.91	60 3-	336.4 ACSR	2980	2767	2292	172	475	23	4	0.00	0.08	3
1413124	1414312	2.11	5 1-	4 ACSR	0	0	2020	170	10	1	1	0.01	0.09	0
1414313	1414312	2.02	53 3-	336.4 ACSR	2892	2680	2208	172	465	22	4	0.00	0.08	5
1414428	1414313	3.19	12 1-	1/0 URD PRI AL	0	0	1465	383	116	15	9	0.29	0.37	20
SW1481789196-B	1414428	3.19	0 1-	Open	0	0	1465	383	0	0	0	0.00	0.37	0
1413125	1414313	2.09	35 3-	336.4 ACSR	2841	2630	2160	172	292	17	3	0.00	0.08	2
1413078	1413125	2.13	31 3-	336.4 ACSR	2814	2604	2135	172	289	13	2	0.00	0.08	0
1413062	1413078	2.14	30 1-	1/0 ACSR	0	0	2120	172	289	39	17	0.01	0.09	3
1413103	1413062	3.04	30 1-	1/0 URD PRI AL	0	0	1556	392	289	39	23	0.54	0.64	92
SW101243-B	1413103	3.04	0 1-	Open	0	0	1556	392	0	0	0	0.00	0.64	0
1413079	1413078	2.20	1 3-	336.4 ACSR	2761	2552	2085	172	0	0	0	0.00	0.08	0
SW101059-B	1413079	2.20	0 3-	Open	2761	2552	2085	172	0	0	0	0.00	0.08	0
CA100044	1413125	2.09	0 3-	Capacitor	2841	2630	2160	172	0	-14	0	0.00	0.08	0
1414443	1414265	1.85	1 1-	1/0 URD PRI AL	0	0	2333	435	38	5	3	0.01	0.09	0
1414246	1414264	1.81	22 1-	1/0 ACSR	0	0	2323	172	138	18	8	0.06	0.15	7

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 13	CROOKSVILLE		1719		5308	5628	5688	176	8220					
SUB 13,	CKT 114													
CRKV_114	CROOKSVILLE	0.00	631 3-	SBS_99_SBS	5308	5628	5688	176	2826	127	0	0.00	0.00	0
1918207	CRKV_114	0.03	631 3-	336.4 ACSR	5247	5517	5574	176	2826	127	24	0.02	0.02	40
1918185	1918207	0.05	0 3-	336.4 ACSR	5202	5437	5491	176	0	0	0	0.00	0.02	0
SW120557-B	1918185	0.05	0 3-	Open	5202	5437	5491	176	0	0	0	0.00	0.02	0
1918208	1918207	0.87	631 3-	336.4 ACSR	3786	3641	3333	174	2825	127	24	0.72	0.74	1335
1919092	1918208	0.88	13 1-	1/0 ACSR	0	0	3321	174	60	8	4	0.00	0.74	0
OC120422	1919092	0.88	13 1-	REC_25_UNK	0	0	3321	174	60	8	32	0.00	0.74	0
1919093	OC120422	0.95	13 1-	1/0 ACSR	0	0	3182	174	60	8	4	0.01	0.75	0
1919090	1919093	1.45	10 1-	6 ACWC	0	0	2155	169	42	5	4	0.12	0.87	4
1919091	1919090	2.27	7 1-	4 ACSR	0	0	1333	160	37	5	4	0.09	0.96	2
1919083	1918208	1.25	614 3-	336.4 ACSR	3366	3194	2825	174	2748	124	23	0.31	1.05	561
1919108	1919083	1.29	32 1-	4 ACSR	0	0	2732	173	166	22	16	0.05	1.10	7
1919109	1919108	1.30	32 1-	1/0 ACSR	0	0	2723	173	166	22	10	0.00	1.10	0
OC120423	1919109	1.30	32 1-	50-L	0	0	2723	173	166	22	45	0.00	1.10	0
1919118	OC120423	1.35	19 1-	1/0 ACSR	0	0	2652	173	107	14	6	0.01	1.11	0
1919117	OC120423	1.69	13 1-	4 ACSR	0	0	2062	169	59	7	6	0.07	1.17	2
1919084	1919083	2.87	582 3-	336.4 ACSR	2263	2084	1693	170	2577	116	22	1.24	2.29	2146
1819044	1919084	3.02	350 3-	1/0 ACSR	2163	1985	1610	169	1400	63	28	0.15	2.44	165
1819045	1819044	3.24	315 3-	1/0 ACSR	2027	1855	1500	168	1185	54	24	0.20	2.64	193
OC120432	1819045	3.24	302 3-	REC_70_UNK	2027	1855	1500	168	1127	51	74	0.00	2.64	0
1819046	OC120432	3.55	302 3-	1/0 ACSR	1860	1709	1367	167	1127	51	22	0.26	2.90	236
1819048	1819046	4.62	281 3-	1/0 ACSR	1432	1327	1038	162	1029	47	21	0.82	3.72	679
1819052	1819048	4.67	69 3-	1/0 ACSR	1417	1314	1027	161	268	12	5	0.01	3.73	2
OC120435	1819052	4.67	69 3-	REC_35_UNK	1417	1314	1027	161	268	12	35	0.00	3.73	0
1919124	OC120435	6.08	69 3-	1/0 ACSR	1084	1012	780	155	268	12	5	0.28	4.01	61
1919075	1919124	6.28	54 3-	1/0 ACSR	1048	980	754	154	201	9	4	0.03	4.04	5
1919063	1919075	6.29	14 1-	4 ACSR	0	0	753	154	41	5	4	0.00	4.04	0
1919064	1919063	7.13	13 1-	1/0 ACSR	0	0	660	150	35	4	2	0.06	4.11	1
1819042	1919064	8.06	6 1-	4 ACSR	0	0	545	143	16	2	2	0.05	4.16	0
1919107	1919075	7.07	40 1-	6 ACWC	0	0	629	147	160	22	16	0.39	4.43	37
1919115	1919124	6.08	5 1-	6 ACWC	0	0	779	155	37	5	4	0.00	4.01	0
OC120436	1919115	6.08	5 1-	REC_35_UNK	0	0	779	155	37	5	15	0.00	4.01	0
1919116	OC120436	7.44	5 1-	6 ACWC	0	0	574	144	37	5	4	0.16	4.17	3
1819049	1819048	5.32	169 3-	1/0 ACSR	1242	1156	896	158	641	29	13	0.34	4.06	175
1819050	1819049	5.84	127 3-	1/0 ACSR	1130	1054	814	156	461	21	9	0.18	4.23	66
1819051	1819050	6.00	33 3-	1/0 ACSR	1098	1026	791	155	128	5	3	0.02	4.25	2
1819079	1819051	6.00	31 1-	1/0 ACSR	0	0	790	155	120	16	7	0.00	4.25	0
OC120437	1819079	6.00	31 1-	REC_25_UNK	0	0	790	155	120	16	67	0.00	4.25	0
1819080	OC120437	6.03	31 1-	1/0 ACSR	0	0	786	155	120	16	7	0.01	4.26	0
1819082	1819080	7.46	31 1-	4 ACSR	0	0	568	143	120	16	12	0.54	4.80	38
1819064	1819050	6.34	80 3-	1/0 ACSR	1037	970	746	154	281	13	6	0.11	4.34	26
1819065	1819064	6.48	79 3-	1/0 ACSR	1015	950	730	153	272	12	5	0.03	4.37	7
1819059	1819065	6.53	31 1-	1/0 ACSR	0	0	724	153	102	14	6	0.01	4.39	1
1819069	1819059	6.55	31 1-	2 ACSR	0	0	721	153	102	14	8	0.01	4.40	0
1819070	1819069	7.30	30 1-	1/0 ACSR	0	0	644	150	102	14	6	0.21	4.61	16
1819071	1819070	7.69	18 1-	2 ACSR	0	0	604	147	82	11	6	0.07	4.68	3
1819060	1819071	8.09	2 1-	4 ACSR	0	0	557	144	2	0	0	0.00	4.68	0
1819066	1819065	6.71	48 1-	1/0 ACSR	0	0	704	152	170	23	10	0.12	4.49	16
OC120438	1819066	6.71	48 1-	REC_35_UNK	0	0	704	152	170	23	68	0.00	4.49	0
1819067	OC120438	6.74	48 1-	1/0 ACSR	0	0	700	152	170	23	10	0.02	4.51	3

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1819068	1819067	8.25	47 1-	4 ACSR	0	0	513	140	169	23 17	1.23	5.74	157	
1820005	1819068	8.95	7 1-	4 ACSR	0	0	455	135	15	2 1	0.03	5.77	0	
1820006	1819068	8.66	16 1-	4 ACSR	0	0	478	137	75	10 8	0.16	5.90	9	
OC120439	1820006	8.66	10 1-	REC_15_UNK	0	0	478	137	48	6 45	0.00	5.90	0	
1820004	OC120439	9.65	10 1-	4 ACSR	0	0	407	130	48	6 5	0.15	6.05	4	
1819062	1819049	5.65	26 1-	2 ACSR	0	0	832	156	117	16 9	0.12	4.17	10	
1819063	1819062	6.38	10 1-	4 ACSR	0	0	690	150	48	6 5	0.11	4.28	3	
1819047	1819046	3.61	0 3-	4/0 ACSR	1836	1687	1348	167	0	0 0	0.00	2.90	0	
SW120382-A	1819047	3.61	0 3-	Open	1836	1687	1348	167	0	0 0	0.00	2.90	0	
1819061	1819044	3.19	4 1-	4 ACSR	0	0	1492	168	13	1 1	0.01	2.45	0	
1819054	1919084	2.93	227 3-	1/0 ACSR	2219	2040	1657	170	1141	52 23	0.06	2.35	53	
OC120426	1819054	2.93	227 3-	REC_70_UNK	2219	2040	1657	170	1140	52 75	0.00	2.35	0	
1819055	OC120426	7.29	227 3-	1/0 ACSR	898	843	645	150	1140	52 23	2.74	5.09	2087	
OC120429	1819055	7.29	95 3-	REC_35_UNK	898	843	645	150	459	21 61	0.00	5.09	0	
1819056	OC120429	7.33	95 3-	1/0 ACSR	894	839	642	150	459	21 9	0.01	5.10	5	
1819043	1819056	7.81	49 3-	1/0 ACSR	837	786	600	148	276	12 6	0.09	5.19	19	
1819081	1819043	8.28	35 1-	4 ACSR	0	0	548	144	194	27 19	0.30	5.49	36	
1819078	1819081	8.83	4 1-	6 ACWC	0	0	496	139	10	1 1	0.02	5.51	0	
1819072	1819056	8.85	46 2-	1/0 ACSR	0	687	527	143	183	12 6	0.34	5.44	47	
1819074	1819072	8.86	22 1-	4 ACSR	0	0	527	143	97	13 10	0.00	5.44	0	
SW120420-A	1819074	8.86	22 1-	Closed	0	0	527	143	97	13 0	0.00	5.44	0	
SW120420-B	SW120420-A	8.86	22 1-	Closed	0	0	527	143	97	13 0	0.00	5.44	0	
1819075	SW120420-B	9.03	22 1-	4 ACSR	0	0	511	142	97	13 10	0.09	5.53	8	
1819076	1819075	9.15	18 1-	6 ACWC	0	0	501	141	78	11 8	0.05	5.58	3	
1819077	1819076	9.61	12 1-	4 ACSR	0	0	464	138	53	7 5	0.08	5.66	2	
1819073	1819072	8.91	16 2-	1/0 ACSR	0	682	524	143	44	3 1	0.00	5.44	0	
1819057	1819073	8.91	16 1-	4 ACSR	0	0	523	143	44	6 4	0.00	5.44	0	
SW120421-A	1819057	8.91	16 1-	Closed	0	0	523	143	44	6 0	0.00	5.44	0	
SW120421-B	SW120421-A	8.91	16 1-	Closed	0	0	523	143	44	6 0	0.00	5.44	0	
1819058	SW120421-B	9.00	16 1-	4 ACSR	0	0	515	142	44	6 4	0.01	5.45	0	
CKT 114 total losses:	\$8,275													
SUB 13, CKT 124														
CKRV_124	CROOKSVILLE	0.00	729 3-	SBS_99_SBS	5308	5628	5688	176	3485	157 0	0.00	0.00	0	
1918190	CKRV_124	0.91	729 3-	336.4 ACSR	3739	3590	3274	174	3485	157 30	0.94	0.94	2127	
1918237	1918190	0.96	63 1-	1/0 ACSR	0	0	3169	174	443	60 26	0.07	1.00	23	
OC120504	1918237	0.96	63 1-	REC_50_UNK	0	0	3169	174	443	60 120	0.00	1.00	0	
1918238	OC120504	1.66	63 1-	1/0 ACSR	0	0	2177	171	443	60 26	0.45	1.45	105	
1918191	1918190	1.47	644 3-	336.4 ACSR	3159	2979	2592	173	2914	132 25	0.47	1.40	884	
1918177	1918191	1.49	558 3-	336.4 ACSR	3139	2958	2569	173	2410	109 21	0.02	1.42	27	
SW120443-A	1918177	1.49	558 3-	Closed	3139	2958	2569	173	2410	109 0	0.00	1.42	0	
SW120443-B	SW120443-A	1.49	558 3-	Closed	3139	2958	2569	173	2410	109 0	0.00	1.42	0	
1918178	SW120443-B	3.58	558 3-	336.4 ACSR	1976	1808	1439	169	2410	109 21	1.39	2.81	2156	
1919069	1918178	3.64	482 3-	4/0 ACSR	1951	1784	1417	168	2038	93 27	0.05	2.86	80	
SW120446-A	1919069	3.64	482 3-	Closed	1951	1784	1417	168	2037	93 0	0.00	2.86	0	
SW120446-B	SW120446-A	3.64	482 3-	Closed	1951	1784	1417	168	2037	93 0	0.00	2.86	0	
1919070	SW120446-B	3.65	482 3-	4/0 ACSR	1950	1783	1416	168	2037	93 27	0.00	2.86	4	
RG120006	1919070	3.65	482 3-	219	1950	1783	1416	168	2037	93 43	-2.86	0.00	0	
1919066	RG120006	3.68	482 3-	4/0 ACSR	1936	1769	1405	168	2037	91 27	0.03	0.03	42	
1919068	1919066	3.73	482 3-	4/0 ACSR	1914	1749	1387	168	2036	91 27	0.04	0.07	66	
1919079	1919068	3.81	262 3-	1/0 ACSR	1874	1709	1355	168	1152	51 22	0.07	0.14	67	
OC120507	1919079	3.81	262 3-	REC_70_UNK	1874	1709	1355	168	1151	51 74	0.00	0.14	0	

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1919073	OC120507	4.73	262 3-	1/0 ACSR	1499	1378	1072	163	1151	51	22	0.79	0.94	730
1919074	1919073	5.45	196 3-	1/0 ACSR	1291	1193	920	160	850	38	17	0.43	1.37	284
1919065	1919074	5.48	84 1-	1/0 ACSR	0	0	914	160	349	47	21	0.03	1.40	9
OC120509	1919065	5.48	83 1-	REC_50_UNK	0	0	914	160	342	46	93	0.00	1.40	0
1919061	OC120509	6.94	83 1-	1/0 ACSR	0	0	708	153	342	46	20	0.82	2.22	158
1919062	1919061	7.14	8 1-	2 ACSR	0	0	682	152	44	5	3	0.02	2.24	0
1919080	1919074	6.24	77 3-	1/0 ACSR	1116	1037	794	156	358	16	7	0.21	1.57	58
1919081	1919080	6.80	35 3-	1/0 ACSR	1019	949	724	154	173	7	3	0.06	1.63	7
1919085	1919081	6.84	6 1-	2 ACSR	0	0	717	154	27	3	2	0.00	1.63	0
1919086	1919085	7.19	1 1-	1/0 ACSR	0	0	680	152	0	0	0	0.00	1.63	0
1919082	1919081	7.17	16 3-	1/0 ACSR	962	897	683	152	78	3	2	0.01	1.64	0
SW120382-B	1919082	7.17	0 3-	Open	962	897	683	152	0	0	0	0.00	1.64	0
1919087	1919080	6.25	33 1-	2 ACSR	0	0	792	156	141	19	11	0.01	1.58	0
OC120510	1919087	6.25	33 1-	35-H	0	0	792	156	141	19	55	0.00	1.58	0
1919088	OC120510	7.61	33 1-	2 ACSR	0	0	617	148	141	19	11	0.66	2.24	69
1919089	1919088	7.68	21 1-	4 ACSR	0	0	607	147	89	12	9	0.02	2.26	0
1919102	1919073	4.78	53 1-	1/0 ACSR	0	0	1059	163	232	31	14	0.04	0.97	7
OC120508	1919102	4.78	53 1-	REC_35_UNK	0	0	1059	163	232	31	90	0.00	0.97	0
1919103	OC120508	6.27	53 1-	1/0 ACSR	0	0	789	156	232	31	14	0.53	1.50	66
1919105	1919103	6.34	4 1-	2 ACSR	0	0	779	156	11	1	1	0.00	1.50	0
1919104	1919103	6.30	0 1-	1/0 ACSR	0	0	785	156	0	0	0	0.00	1.50	0
SW120450-B	1919104	6.30	0 1-	Open	0	0	785	156	0	0	0	0.00	1.50	0
1919071	1919068	3.82	220 3-	1/0 ACSR	1868	1704	1351	168	884	39	17	0.06	0.14	45
OC120513	1919071	3.82	220 3-	REC_70_UNK	1868	1704	1351	168	884	39	57	0.00	0.14	0
1919072	OC120513	4.40	220 3-	1/0 ACSR	1616	1481	1159	165	884	39	17	0.39	0.52	275
1919101	1919072	4.48	1 1-	1/0 ACSR	0	0	1138	165	7	0	0	0.00	0.52	0
SW120450-A	1919101	4.48	0 1-	Open	0	0	1138	165	0	0	0	0.00	0.52	0
1919076	1919072	4.51	215 3-	1/0 ACSR	1577	1446	1130	164	841	37	16	0.07	0.59	46
1919098	1919076	4.57	20 1-	6 ACWC	0	0	1106	164	85	11	8	0.03	0.62	2
OC120514	1919098	4.57	20 1-	REC_35_UNK	0	0	1106	164	85	11	33	0.00	0.62	0
1919099	OC120514	4.78	20 1-	6 ACWC	0	0	1032	162	85	11	8	0.06	0.68	3
1919100	1919099	5.38	4 1-	4 ACSR	0	0	859	156	15	1	1	0.03	0.71	0
1919077	1919076	4.71	191 3-	1/0 ACSR	1508	1385	1079	163	730	32	14	0.11	0.70	64
1919096	1919077	5.14	92 1-	1/0 ACSR	0	0	979	161	354	47	21	0.35	1.05	84
1919097	1919096	6.79	49 1-	4 ACSR	0	0	635	146	196	26	19	0.99	2.03	112
1919078	1919077	6.89	94 3-	1/0 ACSR	1003	935	713	153	345	15	7	0.40	1.09	89
1919106	1919078	6.90	40 1-	2 ACSR	0	0	712	153	128	17	10	0.00	1.10	0
OC120515	1919106	6.90	40 1-	REC_25_UNK	0	0	712	153	128	17	70	0.00	1.10	0
1919094	OC120515	7.40	40 1-	2 ACSR	0	0	651	150	128	17	10	0.26	1.35	27
1919095	1919094	8.18	33 1-	4 ACSR	0	0	555	144	116	15	11	0.28	1.63	19
1919067	1919066	3.71	0 3-	4/0 ACSR	1924	1758	1395	168	0	0	0	0.00	0.03	0
SW120449-B	1919067	3.71	0 3-	Open	1924	1758	1395	168	0	0	0	0.00	0.03	0
1918192	1918191	1.55	46 3-	1/0 ACSR	3050	2865	2481	173	279	12	5	0.02	1.42	4
1918270	1918192	2.13	45 1-	1/0 ACSR	0	0	1914	170	278	37	16	0.23	1.65	34
SW120440-B	1918270	2.13	0 1-	Open	0	0	1914	170	0	0	0	0.00	1.65	0
CKT 124 total losses:		\$7,773												
SUB 13, CKT 144														
CRKV_144	CROOKSVILLE	0.00	359 3-	SBS_99_SBS	5308	5628	5688	176	1909	85	0	0.00	0.00	0
1918284	CRKV_144	0.01	359 3-	350 MCM URD PRI	5293	5595	5670	466	1909	85	27	0.01	0.01	12
1918203	1918284	0.02	359 3-	336.4 ACSR	5280	5570	5644	176	1909	85	16	0.00	0.01	4
SW120524-A	1918203	0.02	359 3-	Closed	5280	5570	5644	176	1909	85	0	0.00	0.01	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 14	SOUTH JESSAMINE		1526		6232	6593	6678	176	11243					
SUB 14	CKT 124													
SJES_124	SOUTH JESSAMINE	0.00	985 3-	SBS_99_UNK	6232	6593	6678	176	4302	196 0	0.00	0.00	0.00	0
1615084	SJES_124	0.45	985 3-	336.4 ACSR	5029	4931	4701	175	4302	196 37	0.63	0.63	1667	0
1614192	1615084	0.72	76 3-	336.4 ACSR	4481	4320	3958	175	339	16 3	0.04	0.67	7	7
1614275	1614192	0.79	15 1-	1/0 ACSR	0	0	3766	174	68	9 4	0.02	0.68	0	0
OC100612	1614275	0.79	15 1-	70-L	0	0	3766	174	68	9 14	0.00	0.68	0	0
1614279	OC100612	1.44	15 1-	1/0 ACSR	0	0	2495	171	68	9 4	0.08	0.77	3	0
1614180	1614192	0.83	56 3-	336.4 ACSR	4297	4121	3728	174	261	12 2	0.01	0.68	2	0
1614258	1614180	0.84	25 1-	1/0 ACSR	0	0	3712	174	112	16 7	0.00	0.68	0	0
OC100613	1614258	0.84	25 1-	70-L	0	0	3712	174	112	16 23	0.00	0.68	0	0
1614259	OC100613	1.49	25 1-	1/0 ACSR	0	0	2470	171	112	16 7	0.14	0.82	7	0
1614181	1614180	0.94	29 3-	336.4 ACSR	4134	3946	3529	174	135	6 1	0.00	0.68	0	0
1614271	1614181	1.06	19 1-	336.4 ACSR	0	0	3314	174	92	13 3	0.02	0.70	0	0
1614274	1614271	1.20	1 1-	336.4 ACSR	0	0	3111	174	16	2 0	0.00	0.71	0	0
SW689114204-A	1614274	1.20	0 1-	Closed	0	0	3111	174	0	0 0	0.00	0.71	0	0
SW689114204-B	SW689114204-A	1.20	0 1-	Closed	0	0	3111	174	0	0 0	0.00	0.71	0	0
1614272	1614271	1.07	13 1-	4 ACSR	0	0	3298	174	54	7 6	0.00	0.71	0	0
OC100614	1614272	1.07	13 1-	70-L	0	0	3298	174	54	7 11	0.00	0.71	0	0
1614273	OC100614	2.46	13 1-	4 ACSR	0	0	1303	160	54	7 6	0.26	0.97	8	0
1614172	1615084	1.47	904 3-	4/0 ACSR	3204	3000	2532	172	3920	179 53	1.84	2.47	5011	0
SW100468-B	1614172	1.47	890 3-	Closed	3204	3000	2532	172	3799	175 0	0.00	2.47	0	0
SW100468-A	SW100468-B	1.47	890 3-	Closed	3204	3000	2532	172	3799	175 0	0.00	2.47	0	0
1614173	SW100468-A	1.80	890 3-	4/0 ACSR	2860	2658	2199	171	3799	175 52	0.58	3.06	1580	0
1614174	1614173	2.04	888 3-	4/0 ACSR	2655	2455	2009	170	3781	178 53	0.46	3.51	1180	0
1614176	1614174	2.33	498 3-	4/0 ACSR	2442	2248	1818	170	2342	108 32	0.30	3.82	512	0
SW100482-B	1614176	2.33	479 3-	Closed	2442	2248	1818	170	2262	104 0	0.00	3.82	0	0
SW100482-A	SW100482-B	2.33	479 3-	Closed	2442	2248	1818	170	2262	104 0	0.00	3.82	0	0
1614182	SW100482-A	2.63	479 3-	4/0 ACSR	2251	2064	1651	169	2262	104 31	0.31	4.12	515	0
1614268	1614182	2.75	27 1-	4 ACSR	0	0	1559	167	145	21 16	0.12	4.25	16	0
OC100624	1614268	2.75	27 1-	25-H	0	0	1559	167	145	21 87	0.00	4.25	0	0
1614269	OC100624	4.07	27 1-	4 ACSR	0	0	919	155	145	21 16	0.68	4.93	60	0
1614183	1614182	3.53	450 3-	4/0 ACSR	1827	1661	1301	166	2090	96 28	0.80	4.92	1260	0
1614189	1614183	4.53	423 3-	4/0 ACSR	1509	1372	1051	163	1965	91 27	0.83	5.76	1283	0
OC100641	1614189	4.53	411 3-	REC_99_VWE	1509	1372	1051	163	1937	90 0	0.00	5.76	0	0
1614190	OC100641	4.55	411 3-	4/0 ACSR	1502	1365	1046	163	1937	90 27	0.02	5.78	34	0
1714116	1614190	4.90	411 3-	4/0 ACSR	1417	1289	981	162	1937	93 27	0.34	6.12	459	0
RG100003	1714116	4.90	399 3-	219	1417	1289	981	162	1901	91 42	-6.12	0.00	0	0
1714080	RG100003	5.43	399 3-	4/0 ACSR	1304	1186	896	160	1901	87 26	0.49	0.49	621	0
1714086	1714080	5.98	67 3-	1/0 ACSR	1177	1076	809	157	267	12 6	0.12	0.61	24	0
OC100628	1714086	5.98	57 3-	REC_70_UNK	1177	1076	809	157	218	10 15	0.00	0.61	0	0
1714087	OC100628	7.55	57 3-	1/0 ACSR	917	847	633	150	218	10 5	0.23	0.84	32	0
1714109	1714087	7.56	4 1-	6 ACWC	0	0	631	150	17	2 2	0.00	0.85	0	0
OC100635	1714109	7.56	4 1-	REC_25_UNK	0	0	631	150	17	2 10	0.00	0.85	0	0
1714110	OC100635	8.04	4 1-	6 ACWC	0	0	574	146	17	2 2	0.04	0.88	0	0
1714103	1714110	8.41	1 1-	4 ACSR	0	0	536	143	6	0 1	0.01	0.89	0	0
1714088	1714087	8.48	20 3-	1/0 ACSR	809	751	560	146	81	3 2	0.04	0.88	2	0
SW100488-B	1714088	8.48	4 3-	Closed	809	751	560	146	3	0 0	0.00	0.88	0	0
SW100488-A	SW100488-B	8.48	4 3-	Closed	809	751	560	146	3	0 0	0.00	0.88	0	0
1714089	SW100488-A	8.57	4 3-	1/0 ACSR	800	743	554	146	3	0 0	0.00	0.88	0	0
1714073	1714089	8.62	2 1-	4 ACSR	0	0	549	146	3	0 0	0.00	0.88	0	0
SW100485-B	1714073	8.62	1 1-	Closed	0	0	549	146	0	0 0	0.00	0.88	0	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LIG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW100485-A	SW100485-B	8.62	1 1-	Closed	0	0	549	146	0	0	0	0.00	0.88	0
1714074	SW100485-A	8.85	1 1-	4 ACSR	0	0	527	144	0	0	0	0.00	0.88	0
1714081	1714089	8.77	1 3-	1/0 ACSR	781	725	541	145	0	0	0	0.00	0.88	0
SW100479-B	1714081	8.77	0 3-	Open	781	725	541	145	0	0	0	0.00	0.88	0
1714075	1714080	5.76	325 3-	4/0 ACSR	1241	1128	849	159	1600	73	22	0.25	0.74	272
1614211	1714075	6.17	310 3-	4/0 ACSR	1172	1066	798	158	1528	69	21	0.29	1.03	303
SW100491-B	1614211	6.17	302 3-	Closed	1172	1066	798	158	1491	68	0	0.00	1.03	0
SW100491-A	SW100491-B	6.17	302 3-	Closed	1172	1066	798	158	1491	68	0	0.00	1.03	0
1614170	SW100491-A	6.28	302 3-	4/0 ACSR	1155	1050	786	157	1491	68	20	0.07	1.10	78
1614233	1614170	6.37	235 3-	4/0 ACSR	1141	1038	775	157	1182	53	16	0.05	1.15	41
OC100640	1614233	6.37	233 3-	50-L	1141	1038	775	157	1175	53	106	0.00	1.15	0
1714117	OC100640	7.16	233 3-	4/0 ACSR	1033	940	698	155	1175	53	16	0.36	1.51	303
1714090	1714117	8.31	187 3-	4/0 ACSR	908	826	608	151	989	44	13	0.37	1.88	273
1714082	1714090	8.35	159 3-	1/0 ACSR	903	822	605	151	733	32	14	0.02	1.90	12
1714083	1714082	8.44	159 3-	1/0 ACSR	892	813	598	151	733	35	16	0.06	1.96	36
1714084	1714083	8.55	113 3-	1/0 ACSR	879	802	590	150	551	27	12	0.06	2.02	25
1714085	1714084	8.88	58 3-	1/0 ACSR	842	769	566	149	286	14	6	0.09	2.11	20
1714107	1714085	8.88	58 1-	6 ACWC	0	0	565	149	286	42	30	0.01	2.12	3
OC100632	1714107	8.88	58 1-	25-H	0	0	565	149	286	42	169	0.00	2.12	0
1714108	OC100632	10.12	58 1-	6 ACWC	0	0	460	139	286	42	30	1.22	3.34	208
1714094	1714084	8.62	55 1-	4 ACSR	0	0	582	150	265	39	28	0.13	2.15	32
OC100633	1714094	8.62	55 1-	35-H	0	0	582	150	264	39	111	0.00	2.15	0
1714095	OC100633	9.50	55 1-	4 ACSR	0	0	498	142	264	39	28	1.14	3.30	215
1714091	1714095	10.28	18 1-	4 ACSR	0	0	440	136	81	12	9	0.40	3.69	27
1714093	1714091	10.87	9 1-	4 ACSR	0	0	403	132	36	5	4	0.08	3.77	2
1714092	1714091	11.40	6 1-	4 ACSR	0	0	375	129	28	4	3	0.11	3.80	2
1714096	1714095	9.68	5 1-	4 ACSR	0	0	484	141	22	3	2	0.01	3.31	0
1714059	1714083	8.48	46 1-	1/0 ACSR	0	0	595	151	182	26	12	0.03	1.99	4
OC100634	1714059	8.48	46 1-	REC_35_UNK	0	0	595	151	182	26	77	0.00	1.99	0
1714060	OC100634	9.23	46 1-	1/0 ACSR	0	0	542	147	182	26	12	0.34	2.34	36
1714071	1714060	9.30	1 1-	6 ACWC	0	0	536	147	7	0	1	0.00	2.34	0
1714072	1714071	9.35	1 1-	4 ACSR	0	0	531	146	7	0	1	0.00	2.34	0
1714070	1714060	10.12	15 1-	6 ACWC	0	0	469	140	56	8	6	0.17	2.51	6
CA100020	1714082	8.35	0 3-	Capacitor	903	822	605	151	0	-14	0	0.00	1.90	0
1714057	1714117	7.20	10 1-	4 ACSR	0	0	692	154	31	4	3	0.01	1.52	0
OC100636	1714057	7.20	10 1-	25-H	0	0	692	154	31	4	18	0.00	1.52	0
1714058	OC100636	8.62	10 1-	4 ACSR	0	0	522	142	31	4	3	0.15	1.67	3
1614171	1614170	6.89	65 3-	4/0 ACSR	1068	972	723	156	297	14	4	0.07	1.17	10
1614232	1614171	7.08	24 3-	4 ACSR	1019	933	692	154	93	4	3	0.02	1.19	0
1614147	1614232	7.25	1 1-	4 ACSR	0	0	667	152	2	0	0	0.00	1.19	0
1614231	1614171	6.92	0 3-	4/0 ACSR	1064	968	719	155	0	0	0	0.00	1.17	0
SW100494-B	1614231	6.92	0 3-	Open	1064	968	719	155	0	0	0	0.00	1.17	0
1614256	1714075	5.78	3 1-	4 ACSR	0	0	844	159	15	2	2	0.00	0.74	0
OC100637	1614256	5.78	3 1-	25-H	0	0	844	159	15	2	9	0.00	0.74	0
1614257	OC100637	6.62	3 1-	4 ACSR	0	0	687	151	15	2	2	0.04	0.78	0
CA100017	1614190	4.55	0 3-	Capacitor	1502	1365	1046	163	0	-13	0	0.00	5.78	0
1614276	1614183	3.55	9 1-	4 ACSR	0	0	1287	166	40	6	4	0.01	4.93	0
OC100625	1614276	3.55	9 1-	REC_25_UNK	0	0	1287	166	40	6	24	0.00	4.93	0
1614277	OC100625	3.67	9 1-	4 ACSR	0	0	1232	164	40	6	4	0.03	4.96	0
1614278	1614277	4.21	8 1-	6 ACWC	0	0	1012	159	30	4	3	0.06	5.02	0
SW100483-A	1614278	4.21	0 1-	Open	0	0	1012	159	0	0	0	0.00	5.02	0
1614175	1614174	2.10	383 3-	4/0 ACSR	2606	2408	1964	170	1423	70	21	0.05	3.57	48

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1614168	1614175	2.43	383 3-	1/0 ACSR	2318	2123	1727	169	1422	70	31	0.45	4.02	515
1614169	1614168	2.45	362 3-	1/0 ACSR	2302	2107	1714	169	1310	65	28	0.03	4.04	27
OC100631	1614169	2.45	362 3-	70-L	2302	2107	1714	169	1310	65	94	0.00	4.04	0
1614177	OC100631	2.54	362 3-	1/0 ACSR	2237	2050	1661	168	1310	65	28	0.11	4.15	116
1615128	1614177	5.15	346 3-	1/0 ACSR	1178	1102	851	156	1285	64	28	2.70	6.85	2502
1715065	1615128	5.48	1 3-	336.4 ACSR	1138	1064	818	155	2	0	0	0.00	6.85	0
SW100471-A	1715065	5.48	0 3-	Open	1138	1064	818	155	0	0	0	0.00	6.85	0
1715066	1615128	5.72	258 3-	1/0 ACSR	1066	999	769	153	849	43	19	0.46	7.31	320
1715073	1715066	6.64	18 1-	4 ACSR	0	0	618	146	54	8	6	0.18	7.49	6
1714115	1715066	6.39	227 3-	1/0 ACSR	957	899	689	151	758	38	17	0.49	7.80	309
1714078	1714115	6.70	185 3-	1/0 ACSR	914	860	658	149	637	32	14	0.19	7.99	99
OC100619	1714078	6.70	181 3-	50-H	914	860	658	149	618	31	63	0.00	7.99	0
1714079	OC100619	7.15	181 3-	1/0 ACSR	857	808	617	147	618	31	14	0.27	8.26	137
1714119	1714079	7.51	144 3-	1/0 ACSR	818	771	589	146	486	25	11	0.17	8.43	68
1714101	1714119	7.59	42 1-	4 ACSR	0	0	579	145	118	18	13	0.07	8.50	7
OC100620	1714101	7.59	37 1-	25-H	0	0	579	145	104	16	64	0.00	8.50	0
1714102	OC100620	7.73	37 1-	4 ACSR	0	0	564	144	104	16	12	0.10	8.59	9
1714104	1714102	8.01	31 1-	6 ACWC	0	0	534	142	88	13	10	0.17	8.76	13
1714106	1714104	8.11	10 1-	6 ACWC	0	0	525	141	12	1	1	0.01	8.77	0
1714118	1714106	10.44	9 1-	4 ACSR	0	0	364	125	10	1	1	0.08	8.85	0
1715094	1714104	8.19	15 1-	6 ACWC	0	0	517	141	56	8	6	0.07	8.82	3
1715086	1715094	8.59	11 1-	4 ACSR	0	0	482	138	45	7	5	0.08	8.90	2
1715088	1715086	8.98	2 1-	4 ACSR	0	0	451	135	5	0	1	0.01	8.91	0
1715087	1715086	8.65	1 1-	4 ACSR	0	0	477	137	2	0	0	0.00	8.90	0
1714076	1714119	8.03	102 3-	1/0 ACSR	766	723	551	144	351	18	8	0.18	8.61	51
1714077	1714076	8.77	11 3-	1/0 ACSR	702	664	505	141	52	2	1	0.02	8.62	0
SW100479-A	1714077	8.77	0 3-	Open	702	664	505	141	0	0	0	0.00	8.62	0
1714067	1714076	8.04	82 1-	4 ACSR	0	0	550	144	275	42	31	0.02	8.63	6
OC100621	1714067	8.04	82 1-	REC_35_UNK	0	0	550	144	275	42	122	0.00	8.63	0
1714068	OC100621	9.43	82 1-	4 ACSR	0	0	433	133	275	42	31	2.72	11.35	686
SW100473-B	1714068	9.43	73 1-	Closed	0	0	433	133	246	39	0	0.00	11.35	0
SW100473-A	SW100473-B	9.43	73 1-	Closed	0	0	433	133	246	39	0	0.00	11.35	0
1714069	SW100473-A	9.45	73 1-	4 ACSR	0	0	432	133	246	39	28	0.04	11.39	9
1714064	1714069	9.50	36 1-	4 ACSR	0	0	429	133	99	15	11	0.04	11.42	3
OC100623	1714064	9.50	35 1-	25-H	0	0	429	133	97	15	62	0.00	11.42	0
1714065	OC100623	10.10	35 1-	4 ACSR	0	0	392	129	97	15	11	0.35	11.77	29
SW100475-B	1714065	10.10	24 1-	Closed	0	0	392	129	59	9	0	0.00	11.77	0
SW100475-A	SW100475-B	10.10	24 1-	Closed	0	0	392	129	59	9	0	0.00	11.77	0
1714066	SW100475-A	10.23	24 1-	4 ACSR	0	0	385	128	59	9	7	0.05	11.83	3
SW100476-B	1714066	10.23	21 1-	Closed	0	0	385	128	50	7	0	0.00	11.83	0
SW100476-A	SW100476-B	10.23	21 1-	Closed	0	0	385	128	50	7	0	0.00	11.83	0
1714056	SW100476-A	12.37	21 1-	4 ACSR	0	0	296	116	50	7	6	0.41	12.23	13
1714061	1714069	9.48	34 1-	4 ACSR	0	0	430	133	137	21	16	0.03	11.41	4
OC100622	1714061	9.48	34 1-	25-H	0	0	430	133	137	21	87	0.00	11.41	0
1714062	OC100622	9.83	34 1-	4 ACSR	0	0	408	131	137	21	16	0.33	11.75	42
SW100474-B	1714062	9.83	25 1-	Closed	0	0	408	131	111	17	0	0.00	11.75	0
SW100474-A	SW100474-B	9.83	25 1-	Closed	0	0	408	131	111	17	0	0.00	11.75	0
1714063	SW100474-A	11.38	25 1-	4 ACSR	0	0	332	121	111	17	13	0.65	12.40	47
1714120	1714079	7.67	23 1-	4 ACSR	0	0	556	143	98	15	11	0.32	8.59	27
1714121	1714120	8.04	13 1-	6 ACWC	0	0	518	140	70	10	8	0.16	8.75	9
1714122	1714121	8.92	8 1-	4 ACSR	0	0	446	134	47	7	5	0.15	8.90	5
1714097	1714115	6.43	37 1-	4 ACSR	0	0	683	150	100	15	11	0.03	7.83	3

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
OC100616	1714097	6.43	37 1-	25-H	0	0	683	150	100	15	62	0.00	7.83	0
1714098	OC100616	7.03	37 1-	4 ACSR	0	0	598	145	100	15	11	0.32	8.16	25
1714099	1714098	7.04	21 1-	6 ACWC	0	0	598	145	46	7	5	0.00	8.16	0
SW100472-B	1714099	7.04	21 1-	Closed	0	0	598	145	46	7	0	0.00	8.16	0
SW100472-A	SW100472-B	7.04	21 1-	Closed	0	0	598	145	46	7	0	0.00	8.16	0
1714100	SW100472-A	7.64	21 1-	6 ACWC	0	0	530	140	46	7	5	0.11	8.26	3
1614267	1714100	7.95	5 1-	6 ACWC	0	0	502	138	2	0	0	0.00	8.27	0
SW100483-B	1714100	7.64	0 1-	Open	0	0	530	140	0	0	0	0.00	8.26	0
1614249	1614177	2.69	16 1-	4 ACSR	0	0	1540	167	24	3	3	0.02	4.17	0
1614260	1614249	2.77	10 1-	2 ACSR	0	0	1492	166	20	3	2	0.01	4.18	0
1614261	1614260	2.92	9 1-	4 ACSR	0	0	1390	164	20	2	2	0.02	4.20	0
SW100484-B	1614261	2.92	6 1-	Closed	0	0	1390	164	16	2	0	0.00	4.20	0
SW100484-A	SW100484-B	2.92	6 1-	Closed	0	0	1390	164	16	2	0	0.00	4.20	0
1614262	SW100484-A	2.94	6 1-	4 ACSR	0	0	1381	164	16	2	2	0.00	4.20	0
1614265	1614168	2.47	21 1-	4 ACSR	0	0	1694	168	108	16	12	0.03	4.04	3
OC100615	1614265	2.47	21 1-	REC_99_L	0	0	1694	168	108	16	16	0.00	4.04	0
1615130	OC100615	3.38	21 1-	4 ACSR	0	0	1119	159	108	16	12	0.65	4.69	60
1615098	1615130	4.02	14 1-	4 ACSR	0	0	893	153	90	13	10	0.23	4.92	14
1615099	1615098	4.21	1 1-	2 ACSR	0	0	852	152	13	1	1	0.01	4.93	0
1615119	1615130	3.39	1 1-	1/0 URD PRI AL	0	0	1118	357	0	0	0	0.00	4.69	0
OC287598522	1615119	3.39	1 1-	_DefaultBayEqui	0	0	1118	357	0	0	0	0.00	4.69	0
1615120	OC287598522	3.47	1 1-	1/0 URD PRI AL	0	0	1094	354	0	0	0	0.00	4.69	0
CA100014	1614173	1.80	0 3-	Capacitor	2860	2658	2199	171	0	-14	0	0.00	3.06	0
CKT 124 total losses:		\$21,417												
SUB 14, CKT 134														
SJES_134	SOUTH JESSAMINE	0.00	498 3-	SBS_99_UNK	6232	6593	6678	176	1850	89	0	0.00	0.00	0
1615080	SJES_134	0.52	498 3-	336.4 ACSR	4865	4745	4470	175	1850	89	17	0.40	0.40	408
1615096	1615080	0.61	13 1-	1/0 ACSR	0	0	4168	175	9	1	1	0.00	0.41	0
OC100713	1615096	0.61	13 1-	35-L	0	0	4168	175	9	1	4	0.00	0.41	0
1615097	OC100713	0.94	13 1-	1/0 ACSR	0	0	3253	173	9	1	1	0.01	0.41	0
1615081	1615080	0.71	480 3-	336.4 ACSR	4516	4358	4003	175	1818	88	17	0.14	0.54	139
SW100644-B	1615081	0.71	480 3-	Closed	4516	4358	4003	175	1817	88	0	0.00	0.54	0
SW100644-A	SW100644-B	0.71	480 3-	Closed	4516	4358	4003	175	1817	88	0	0.00	0.54	0
1615078	SW100644-A	1.72	480 3-	336.4 ACSR	3216	3000	2523	173	1817	88	17	0.75	1.29	740
1615085	1615078	1.83	320 3-	336.4 ACSR	3118	2902	2425	172	1176	57	11	0.05	1.34	35
SW100654-B	1615085	1.83	318 3-	Closed	3118	2902	2425	172	1161	56	0	0.00	1.34	0
SW100654-A	SW100654-B	1.83	318 3-	Closed	3118	2902	2425	172	1161	56	0	0.00	1.34	0
1615086	SW100654-A	3.33	318 3-	336.4 ACSR	2194	2004	1581	169	1161	56	11	0.64	1.98	379
1615087	1615086	3.41	174 3-	1/0 ACSR	2145	1956	1543	169	623	30	13	0.04	2.02	22
OC100721	1615087	3.41	174 3-	100-L	2145	1956	1543	169	623	30	31	0.00	2.02	0
1615088	OC100721	3.77	174 3-	1/0 ACSR	1933	1766	1383	167	623	30	13	0.21	2.23	104
1615089	1615088	4.84	140 3-	1/0 ACSR	1478	1365	1049	162	500	24	11	0.48	2.72	186
1715071	1615089	6.06	28 3-	336.4 ACSR	1270	1170	883	159	99	4	1	0.03	2.74	0
SW100471-B	1715071	6.06	0 3-	Open	1270	1170	883	159	0	0	0	0.00	2.74	0
1715068	1615089	5.12	97 3-	1/0 ACSR	1390	1287	986	161	351	17	8	0.09	2.81	24
1715077	1715068	5.23	18 1-	4 ACSR	0	0	953	160	72	10	8	0.05	2.86	3
OC100726	1715077	5.23	16 1-	REC_35_UNK	0	0	953	160	66	9	28	0.00	2.86	0
1715078	OC100726	5.63	16 1-	4 ACSR	0	0	848	156	66	9	7	0.13	2.99	6
1715074	1715078	5.78	8 1-	6 ACWC	0	0	812	155	28	4	3	0.03	3.02	0
1715075	1715074	6.22	5 1-	4 ACSR	0	0	724	151	19	2	2	0.03	3.05	0
1715069	1715068	5.17	72 3-	1/0 ACSR	1376	1275	976	161	244	12	5	0.01	2.82	2

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
OC100725	1715069	5.17	71 3-	50-H	1376	1275	976	161	244	12	24	0.00	2.82	0
1715070	OC100725	5.33	71 3-	1/0 ACSR	1330	1233	943	160	244	12	5	0.03	2.84	4
1715082	1715070	6.92	35 1-	4 ACSR	0	0	624	146	88	13	9	0.70	3.54	45
OC100727	1715082	6.92	18 1-	25-H	0	0	624	146	36	5	22	0.00	3.54	0
1715083	OC100727	7.54	18 1-	4 ACSR	0	0	548	141	36	5	4	0.11	3.65	3
1715084	1715083	7.65	12 1-	6 ACWC	0	0	537	140	13	1	1	0.01	3.66	0
1715085	1715084	8.72	11 1-	4 ACSR	0	0	444	132	10	1	1	0.04	3.70	0
1715076	1715085	8.82	0 1-	4 ACSR	0	0	437	132	0	0	0	0.00	3.70	0
1615094	1615088	3.85	30 1-	4 ACSR	0	0	1335	166	116	17	12	0.07	2.31	7
OC100722	1615094	3.85	29 1-	REC_35_UNK	0	0	1335	166	116	17	49	0.00	2.31	0
1615095	OC100722	4.90	29 1-	4 ACSR	0	0	916	156	116	17	12	0.43	2.73	29
1615108	1615086	3.37	73 1-	1/0 ACSR	0	0	1562	169	240	35	15	0.03	2.01	6
OC100716	1615108	3.37	73 1-	50-L	0	0	1562	169	240	35	71	0.00	2.01	0
1615101	OC100716	3.39	4 1-	4 ACSR	0	0	1548	169	15	2	2	0.00	2.01	0
1615109	OC100716	3.76	69 1-	1/0 ACSR	0	0	1383	167	225	33	14	0.32	2.33	51
SW100655-B	1615109	3.76	64 1-	Closed	0	0	1383	167	204	30	0	0.00	2.33	0
SW100655-A	SW100655-B	3.76	64 1-	Closed	0	0	1383	167	204	30	0	0.00	2.33	0
1615105	SW100655-A	4.11	64 1-	1/0 ACSR	0	0	1256	166	204	30	13	0.25	2.58	36
1615107	1615105	4.71	49 1-	1/0 ACSR	0	0	1081	163	174	25	11	0.32	2.90	35
1615113	1615107	4.77	12 1-	4 ACSR	0	0	1058	162	31	4	3	0.01	2.91	0
OC100718	1615113	4.77	12 1-	25-H	0	0	1058	162	31	4	19	0.00	2.91	0
1615104	OC100718	4.92	12 1-	4 ACSR	0	0	1006	161	31	4	3	0.03	2.95	0
1615100	1615104	5.25	11 1-	6 ACWC	0	0	910	157	31	4	3	0.06	3.01	2
1715079	1615100	5.81	6 1-	4 ACSR	0	0	775	152	23	3	2	0.05	3.06	0
1715080	1715079	5.97	1 1-	1/0 ACSR	0	0	754	152	3	0	0	0.00	3.06	0
1715081	1715080	6.14	1 1-	4 ACSR	0	0	722	150	3	0	0	0.00	3.06	0
1615110	1615107	4.71	20 1-	1/0 ACSR	0	0	1079	163	76	11	5	0.00	2.90	0
OC100717	1615110	4.71	20 1-	25-H	0	0	1079	163	76	11	45	0.00	2.90	0
1615112	OC100717	5.93	18 1-	1/0 ACSR	0	0	839	157	72	10	5	0.20	3.10	8
1715090	1615112	7.01	7 1-	4 ACSR	0	0	642	147	14	2	1	0.05	3.15	0
1615111	OC100717	4.83	2 1-	4 ACSR	0	0	1040	162	4	0	0	0.00	2.90	0
1615106	1615105	4.72	9 1-	4 ACSR	0	0	1011	160	11	1	1	0.02	2.61	0
1615079	1615078	1.72	130 3-	336.4 ACSR	3211	2995	2518	173	546	26	5	0.00	1.29	0
SW100647-B	1615079	1.72	130 3-	Closed	3211	2995	2518	173	546	26	0	0.00	1.29	0
SW100647-A	SW100647-B	1.72	130 3-	Closed	3211	2995	2518	173	546	26	0	0.00	1.29	0
1615082	SW100647-A	2.92	130 3-	336.4 ACSR	2387	2188	1747	170	546	26	5	0.25	1.54	72
1615083	1615082	3.63	12 3-	336.4 ACSR	2071	1887	1478	169	73	3	1	0.01	1.55	0
SW100651-A	1615083	3.63	0 3-	Open	2071	1887	1478	169	0	0	0	0.00	1.55	0
1615066	1615082	2.95	101 1-	4 ACSR	0	0	1723	170	382	56	40	0.07	1.61	25
OC100714	1615066	2.95	101 1-	REC_70_UNK	0	0	1723	170	381	56	80	0.00	1.61	0
1615067	OC100714	3.54	101 1-	4 ACSR	0	0	1310	164	381	56	40	1.38	3.00	430
1615068	1615067	3.99	75 1-	6 ACWC	0	0	1096	159	280	41	30	0.77	3.76	177
1615069	1615068	4.25	60 1-	4 ACSR	0	0	999	157	208	31	22	0.36	4.13	67
1615073	1615069	4.54	9 1-	4 ACSR	0	0	906	154	25	3	3	0.03	4.15	0
1615070	1615069	4.39	47 1-	4 ACSR	0	0	952	156	166	24	18	0.15	4.28	22
OC100715	1615070	4.39	44 1-	REC_35_UNK	0	0	952	156	142	21	61	0.00	4.28	0
1615071	OC100715	5.55	44 1-	4 ACSR	0	0	680	146	142	21	15	0.64	4.92	57
SW100648-B	1615071	5.55	3 1-	Closed	0	0	680	146	12	1	0	0.00	4.92	0
SW100648-A	SW100648-B	5.55	3 1-	Closed	0	0	680	146	12	1	0	0.00	4.92	0
1615072	SW100648-A	6.39	3 1-	4 ACSR	0	0	561	139	12	1	1	0.03	4.96	0

CKT 134 total losses: \$3,124

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 14, CKT 144														
SJES_144	SOUTH JESSAMINE	0.00	43 3-	SBS_99_UNK	6232	6593	6678	176	5092	234	0	0.00	0.00	0
1614298	SJES_144	0.97	43 3-	556.1 ACSR	4194	4022	3641	175	5092	234	32	1.25	1.25	3127
SWL794355222-B	1614298	0.97	43 3-	Closed	4194	4022	3641	175	5065	234	0	0.00	1.25	0
SWL794355222-A	SWL794355222-B	0.97	43 3-	Closed	4194	4022	3641	175	5065	234	0	0.00	1.25	0
1614212	SWL794355222-A	1.01	43 3-	556.1 ACSR	4130	3955	3565	175	5065	234	32	0.06	1.30	147
1614210	1614212	1.03	0 3-	556.1 ACSR	4104	3927	3534	175	0	0	0	0.00	1.30	0
SW722105637-A	1614210	1.03	0 3-	Open	4104	3927	3534	175	0	0	0	0.00	1.30	0
1614213	1614212	1.15	43 3-	556.1 ACSR	3944	3761	3347	175	5064	234	32	0.18	1.48	454
1614214	1614213	1.56	43 3-	556.1 ACSR	3493	3297	2846	174	5060	238	33	0.56	2.05	1348
1614215	1614214	1.99	40 3-	556.1 ACSR	3111	2914	2452	173	5025	242	33	0.66	2.71	1490
SW100936-B	1614215	1.99	36 3-	Closed	3111	2914	2452	173	4989	241	0	0.00	2.71	0
SW100936-A	SW100936-B	1.99	36 3-	Closed	3111	2914	2452	173	4989	241	0	0.00	2.71	0
1614216	SW100936-A	2.04	36 3-	556.1 ACSR	3071	2875	2413	173	4989	241	33	0.08	2.78	174
1614204	1614216	2.10	9 3-	336.4 ACSR	3023	2827	2364	173	369	18	3	0.01	2.79	2
SW100769-B	1614204	2.10	9 3-	Closed	3023	2827	2364	173	369	18	0	0.00	2.79	0
SW100769-A	SW100769-B	2.10	9 3-	Closed	3023	2827	2364	173	369	18	0	0.00	2.79	0
1614205	SW100769-A	2.41	9 3-	336.4 ACSR	2790	2595	2135	173	369	18	3	0.04	2.83	7
OCL276286947	1614205	2.41	5 3-	_DefaultBayEqui	2790	2595	2135	173	229	11	0	0.00	2.83	0
1614207	OCL276286947	2.63	3 3-	336.4 ACSR	2646	2453	1999	172	225	11	2	0.02	2.85	2
1614208	1614207	2.64	0 3-	336.4 ACSR	2644	2451	1997	172	0	0	0	0.00	2.85	0
RG2018065555	1614208	2.64	0 3-	219	2644	2451	1997	172	0	0	0	-2.85	0.00	0
1614209	RG2018065555	2.84	0 3-	336.4 ACSR	2522	2332	1885	172	0	0	0	0.00	0.00	0
1614995	1614207	2.63	1 3-	Consumer	2646	2453	1999	172	163	8	0	0.00	2.85	0
1614206	OCL276286947	2.53	2 3-	1/0 ACSR	2672	2476	2032	172	4	0	0	0.00	2.83	0
1614193	1614216	2.14	26 3-	556.1 ACSR	2993	2798	2336	173	4617	223	31	0.14	2.93	305
1614203	1614193	2.18	0 3-	4/0 ACSR	2955	2760	2299	173	0	0	0	0.00	2.93	0
SW100730-A	1614203	2.18	0 3-	Open	2955	2760	2299	173	0	0	0	0.00	2.93	0
1614194	1614193	2.19	26 3-	4/0 ACSR	2944	2749	2288	173	4614	223	66	0.13	3.06	396
RG100009	1614194	2.19	26 3-	219	2944	2749	2288	173	4611	223	102	-3.06	0.00	0
1614196	RG100009	2.40	25 3-	4/0 ACSR	2763	2571	2115	172	4140	195	57	0.45	0.45	1201
1614217	1614196	2.45	25 3-	4/0 ACSR	2719	2528	2074	172	4130	200	59	0.13	0.58	331
SW100917-B	1614217	2.45	25 3-	Closed	2719	2528	2074	172	4127	200	0	0.00	0.58	0
SW100917-A	SW100917-B	2.45	25 3-	Closed	2719	2528	2074	172	4127	200	0	0.00	0.58	0
1614218	SW100917-A	2.67	25 3-	4/0 ACSR	2547	2359	1915	171	4127	200	59	0.54	1.11	1392
1614200	1614218	2.75	2 3-	4/0 ACSR	2494	2308	1867	171	25	1	0	0.00	1.12	0
SW100932-B	1614200	2.75	2 3-	Closed	2494	2308	1867	171	25	1	0	0.00	1.12	0
SW100932-A	SW100932-B	2.75	2 3-	Closed	2494	2308	1867	171	25	1	0	0.00	1.12	0
1614201	SW100932-A	2.82	2 3-	4/0 ACSR	2447	2261	1825	171	25	1	0	0.00	1.12	0
1614202	1614201	2.83	0 3-	336.4 ACSR	2443	2258	1821	171	0	0	0	0.00	1.12	0
SW100924-A	1614202	2.83	0 3-	Closed	2443	2258	1821	171	0	0	0	0.00	1.12	0
SW100924-B	SW100924-A	2.83	0 3-	Closed	2443	2258	1821	171	0	0	0	0.00	1.12	0
1614229	1614218	2.68	19 3-	336.4 ACSR	2544	2356	1912	171	4035	196	37	0.01	1.12	22
SW100935-B	1614229	2.68	19 3-	Closed	2544	2356	1912	171	4035	196	0	0.00	1.12	0
SW100935-A	SW100935-B	2.68	19 3-	Closed	2544	2356	1912	171	4035	196	0	0.00	1.12	0
1614230	SW100935-A	2.80	19 3-	336.4 ACSR	2475	2289	1849	171	4035	196	37	0.20	1.33	456
1614243	1614230	2.81	1 3-	336.4 ACSR	2470	2284	1844	171	3628	177	33	0.01	1.34	29
OCL100964	1614243	2.81	1 3-	REC_99_VWE	2470	2284	1844	171	3628	177	0	0.00	1.34	0
1614244	OCL100964	2.83	1 3-	336.4 ACSR	2462	2276	1837	171	3628	177	33	0.02	1.36	46
1614245	1614244	2.87	0 3-	336.4 ACSR	2440	2254	1817	171	0	0	0	0.00	1.36	0
1614247	1614245	3.07	0 3-	336.4 ACSR	2339	2156	1726	171	0	0	0	0.00	1.36	0
1614248	1614247	3.07	0 3-	1/0 ACSR	2335	2152	1723	171	0	0	0	0.00	1.36	0

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 15 NORTH MADISON			931		5677	5867	5925	176	6532					
SUB 15, CKT 104														
NMAD_104	NORTH MADISON	0.00	77 3-	SBS_99_UNK	5677	5867	5925	176	667	29 0	0.00	0.00	0.00	0
1616120	NMAD_104	0.48	77 3-	336.4 ACSR	4607	4509	4295	175	667	29 6	0.09	0.09	0.09	42
1616121	1616120	0.54	77 3-	1/0 ACSR	4451	4338	4090	175	667	29 13	0.03	0.12	0.17	17
1616122	1616121	1.03	76 3-	336.4 ACSR	3743	3570	3217	174	650	29 6	0.07	0.19	0.26	26
SW974667890-A	1616122	1.03	45 3-	Closed	3743	3570	3217	174	338	15 0	0.00	0.19	0.19	0
SW974667890-B	SW974667890-A	1.03	45 3-	Closed	3743	3570	3217	174	338	15 0	0.00	0.19	0.19	0
1616123	SW974667890-B	1.68	45 3-	336.4 ACSR	3078	2884	2496	173	338	15 3	0.05	0.25	0.31	11
1616081	1616123	1.76	29 1-	2 ACSR	0 0	0	2389	172	222	29 17	0.07	0.32	0.33	13
1616082	1616081	1.76	29 1-	4 ACSR	0 0	0	2381	172	222	29 21	0.01	0.33	0.32	1
OC120885	1616082	1.76	29 1-	REC_35_UNK	0 0	0	2381	172	222	29 86	0.00	0.33	0.33	0
1616093	OC120885	1.86	18 1-	4 ACSR	0 0	0	2233	171	173	23 17	0.09	0.41	0.42	12
1616094	1616093	2.23	13 1-	2 ACSR	0 0	0	1855	169	117	15 9	0.09	0.50	0.50	6
1616083	OC120885	2.48	11 1-	4 ACSR	0 0	0	1550	165	50	6 5	0.11	0.44	0.44	3
1616111	1616123	1.77	4 3-	336.4 ACSR	3000	2805	2416	173	4	0 0	0.00	0.25	0.25	0
OC120884	1616111	1.77	2 3-	REC_100_UNK	3000	2805	2416	173	4	0 0	0.00	0.25	0.25	0
1616112	OC120884	2.40	2 3-	336.4 ACSR	2571	2379	1999	171	4	0 0	0.00	0.25	0.25	0
CKT 104 total losses:		\$131												
SUB 15, CKT 114														
NMAD_114	NORTH MADISON	0.00	349 3-	SBS_99_UNK	5677	5867	5925	176	2647	119 0	0.00	0.00	0.00	0
1616119	NMAD_114	2.62	349 3-	336.4 ACSR	2462	2274	1896	171	2647	119 23	2.14	2.14	3661	0
1617046	1616119	3.54	349 3-	1/0 ACSR	1861	1722	1389	167	2616	119 52	1.91	4.04	4106	0
1616170	1617046	4.64	15 1-	4 ACSR	0 0	0	924	156	34	4 3	0.12	4.16	2	2
1617062	1617046	3.55	67 1-	4 ACSR	0 0	0	1386	167	441	61 44	0.02	4.06	6	6
OC120886	1617062	3.55	67 1-	REC_35_UNK	0 0	0	1386	167	441	61 175	0.00	4.06	0	0
1617063	OC120886	3.74	67 1-	4 ACSR	0 0	0	1282	165	441	61 44	0.53	4.59	206	0
1617060	1617063	3.90	1 1-	4 ACSR	0 0	0	1203	163	16	2 2	0.01	4.59	0	0
SW120920-B	1617060	3.90	0 1-	Open	0 0	0	1203	163	0	0 0	0.00	4.59	0	0
1617064	1617063	4.69	65 1-	4 ACSR	0 0	0	911	156	422	59 42	1.99	6.58	645	0
1617065	1617064	6.25	36 1-	2 ACSR	0 0	0	655	146	239	33 19	0.82	7.40	115	0
1617047	1617046	3.74	265 3-	1/0 ACSR	1763	1634	1310	166	2105	97 43	0.34	4.39	600	0
1617061	1617047	3.75	0 1-	4 ACSR	0 0	0	1308	166	0	0 0	0.00	4.39	0	0
SW120920-A	1617061	3.75	0 1-	Open	0 0	0	1308	166	0	0 0	0.00	4.39	0	0
1617048	1617047	4.36	265 3-	1/0 ACSR	1515	1410	1116	163	2100	97 43	1.00	5.39	1726	0
RG120009	1617048	4.36	248 3-	219	1515	1410	1116	163	1939	91 42	-5.39	0.00	0	0
1617042	RG120009	4.79	248 3-	1/0 ACSR	1377	1284	1010	161	1939	87 38	0.62	0.62	957	0
SW120793-A	1617042	4.79	227 3-	Closed	1377	1284	1010	161	1785	80 0	0.00	0.62	0	0
SW120793-B	SW120793-A	4.79	227 3-	Closed	1377	1284	1010	161	1785	80 0	0.00	0.62	0	0
1517009	SW120793-B	5.01	227 3-	1/0 ACSR	1318	1230	964	160	1785	80 35	0.29	0.92	425	0
1517014	1517009	5.18	11 1-	1/0 URD PRI AL	0 0	0	933	349	69	9 5	0.02	0.94	0	0
SW120921-A	1517014	5.18	0 1-	Open	0 0	0	933	349	0	0 0	0.00	0.94	0	0
1516149	1517009	5.80	214 3-	1/0 ACSR	1133	1062	825	156	1692	76 33	1.00	1.91	1343	0
1516100	1516149	6.05	197 3-	1/0 ACSR	1085	1018	789	155	1521	69 30	0.29	2.21	362	0
1516105	1516100	6.22	73 3-	1/0 ACSR	1055	990	767	154	611	27 12	0.07	2.28	35	0
1517020	1516105	7.19	23 1-	1/0 URD PRI AL	0 0	0	661	300	161	22 13	0.33	2.61	32	0
SW120921-B	1517020	7.19	0 1-	Open	0 0	0	661	300	0	0 0	0.00	2.61	0	0
1517018	1516105	7.02	8 1-	1/0 URD PRI AL	0 0	0	678	304	70	9 6	0.12	2.40	5	0
SW120924-A	1517018	7.02	0 1-	Open	0 0	0	678	304	0	0 0	0.00	2.40	0	0
1517019	1516105	7.11	32 1-	1/0 URD PRI AL	0 0	0	669	302	280	38 23	0.53	2.81	89	0
SW120925-A	1517019	7.11	0 1-	Open	0 0	0	669	302	0	0 0	0.00	2.81	0	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1516101	1516100	6.18	118 3-	1/0 ACSR	1062	997	772	154	848	38 17	0.08	2.29	56	
1516141	1516101	6.18	16 1-	1/0 URD PRI AL	0	0	772	326	55	7 4	0.00	2.29	0	
1516143	1516141	6.41	12 1-	1/0 URD PRI AL	0	0	745	320	47	6 4	0.02	2.31	0	
SW120922-A	1516143	6.41	0 1-	Open	0	0	745	320	0	0 0	0.00	2.31	0	
1516142	1516141	6.55	4 1-	1/0 URD PRI AL	0	0	728	316	8	1 1	0.01	2.29	0	
SW120922-B	1516142	6.55	0 1-	Open	0	0	728	316	0	0 0	0.00	2.29	0	
1516102	1516101	6.53	95 3-	1/0 ACSR	1003	942	728	153	745	34 15	0.19	2.48	113	
1516103	1516102	6.58	83 3-	336.4 ACSR	999	938	725	153	647	29 6	0.01	2.49	4	
1516104	1516103	8.70	53 3-	336.4 ACSR	840	784	592	149	465	21 4	0.17	2.66	39	
1517010	1516104	8.77	10 3-	336.4 ACSR	835	780	589	148	64	2 1	0.00	2.66	0	
1517011	1517010	8.97	5 3-	336.4 ACSR	823	768	579	148	22	2 0	0.00	2.66	0	
1517013	1517010	8.80	3 1-	1/0 URD PRI AL	0	0	586	293	30	4 2	0.00	2.66	0	
SW120925-B	1517013	8.80	0 1-	Open	0	0	586	293	0	0 0	0.00	2.66	0	
1517012	1516104	8.77	1 1-	1/0 URD PRI AL	0	0	587	293	9	1 1	0.00	2.66	0	
SW120924-B	1517012	8.77	0 1-	Open	0	0	587	293	0	0 0	0.00	2.66	0	
1516128	1516103	6.58	28 1-	1/0 URD PRI AL	0	0	724	318	163	22 13	0.00	2.49	0	
1516130	1516128	6.76	15 1-	1/0 URD PRI AL	0	0	705	313	84	11 7	0.03	2.52	2	
SW120923-A	1516130	6.76	0 1-	Open	0	0	705	313	0	0 0	0.00	2.52	0	
1516129	1516128	6.92	13 1-	1/0 URD PRI AL	0	0	689	309	79	10 6	0.06	2.55	3	
SW120923-B	1516129	6.92	0 1-	Open	0	0	689	309	0	0 0	0.00	2.55	0	
1516098	1516149	6.11	1 3-	4/0 ACSR	1089	1019	789	155	12	0 0	0.00	1.92	0	
1516099	1516098	6.19	0 3-	336.4 ACSR	1080	1011	781	155	0	0 0	0.00	1.92	0	
SW120799-B	1516099	6.19	0 3-	Open	1080	1011	781	155	0	0 0	0.00	1.92	0	
CKT 114 total losses:	\$14,532													
SUB 15, CKT 124														
NMAD_124	NORTH MADISON	0.00	176 3-	SBS_99_SBS	5677	5867	5925	176	1646	73 0	0.00	0.00	0	
1616131	NMAD_124	0.03	176 3-	336.4 ACSR	5587	5725	5773	176	1646	73 14	0.02	0.02	18	
1616132	1616131	0.46	176 3-	1/0 ACSR	4297	4181	3919	174	1645	73 32	0.54	0.56	719	
1616133	1616132	0.89	173 3-	4/0 ACSR	3549	3372	2998	173	1633	73 22	0.30	0.86	350	
1616134	1616133	1.20	162 3-	1/0 ACSR	3075	2877	2514	171	1538	69 30	0.36	1.22	457	
1616154	1616134	1.20	23 1-	1/0 ACSR	0	0	2507	171	202	27 12	0.00	1.22	0	
OC120887	1616154	1.20	23 1-	REC_50_UNK	0	0	2507	171	202	27 55	0.00	1.22	0	
1616155	OC120887	1.28	23 1-	1/0 ACSR	0	0	2404	171	202	27 12	0.05	1.27	8	
1616156	1616155	1.33	23 1-	2 ACSR	0	0	2336	170	202	27 15	0.03	1.30	5	
1617078	1616156	2.99	11 1-	4 ACSR	0	0	993	154	112	15 11	1.04	2.34	95	
1617056	1617078	3.43	2 1-	4 ACSR	0	0	854	151	81	11 8	0.22	2.56	15	
1617999	1617056	3.43	1 1-	Consumer	0	0	854	151	78	10 0	0.00	2.56	0	
1617055	1617078	3.52	3 1-	4 ACSR	0	0	830	150	11	1 1	0.02	2.36	0	
1616135	1616134	2.21	139 3-	1/0 ACSR	2095	1958	1620	166	1332	60 26	0.98	2.20	1026	
1617051	1616135	2.48	93 3-	1/0 ACSR	1927	1804	1478	165	888	40 18	0.18	2.38	132	
1617076	1617051	2.87	9 1-	1/0 URD PRI AL	0	0	1317	375	76	10 6	0.06	2.45	3	
SW120916-B	1617076	2.87	0 1-	Open	0	0	1317	375	0	0 0	0.00	2.45	0	
1617052	1617051	2.53	78 3-	1/0 ACSR	1900	1779	1455	165	763	34 15	0.03	2.41	18	
1617053	1617052	2.58	78 3-	336.4 ACSR	1882	1763	1439	165	762	34 7	0.01	2.42	6	
1617045	1617053	2.69	1 3-	1/0 ACSR	1825	1710	1392	164	14	0 0	0.00	2.42	0	
SW120796-B	1617045	2.69	0 3-	Open	1825	1710	1392	164	0	0 0	0.00	2.42	0	
1617054	1617053	2.61	75 3-	336.4 ACSR	1874	1754	1431	165	721	32 6	0.01	2.43	3	
1617040	1617054	2.65	43 1-	1/0 ACSR	0	0	1413	165	426	58 25	0.05	2.48	17	
1617058	1617040	2.70	43 1-	1/0 URD PRI AL	0	0	1391	385	426	58 34	0.10	2.58	37	
1617073	1617058	3.56	40 1-	1/0 URD PRI AL	0	0	1104	353	396	54 32	0.73	3.30	173	
SW120919-A	1617073	3.56	0 1-	Open	0	0	1104	353	0	0 0	0.00	3.30	0	

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1617059	1617058	2.77	3 1-	4/0 URD PRI AL	0	0	1365	383	29	4	2	0.01	2.58	0
1617069	1617059	2.78	3 1-	1/0 URD PRI AL	0	0	1363	383	29	4	2	0.00	2.58	0
SW120917-B	1617069	2.78	0 1-	Open	0	0	1363	383	0	0	0	0.00	2.58	0
1717117	1617054	3.47	32 3-	336.4 ACSR	1636	1525	1213	163	295	13	3	0.05	2.47	7
1617044	1717117	3.54	3 3-	336.4 ACSR	1618	1508	1197	163	46	2	0	0.00	2.48	0
1617057	1617044	3.61	1 1-	1/0 URD PRI AL	0	0	1177	372	16	2	1	0.00	2.48	0
SW120918-B	1617057	3.61	0 1-	Open	0	0	1177	372	0	0	0	0.00	2.48	0
1617075	1617044	3.55	2 1-	1/0 URD PRI AL	0	0	1195	375	30	4	2	0.00	2.48	0
1617068	1717117	3.50	2 1-	1/0 URD PRI AL	0	0	1203	375	23	3	2	0.00	2.48	0
SW120919-B	1617068	3.50	0 1-	Open	0	0	1203	375	0	0	0	0.00	2.48	0
1617049	1616135	2.27	27 3-	1/0 ACSR	2056	1923	1587	166	265	12	5	0.01	2.21	3
1617074	1617049	2.29	0 1-	1/0 URD PRI AL	0	0	1574	396	0	0	0	0.00	2.21	0
SW120916-A	1617074	2.29	0 1-	Open	0	0	1574	396	0	0	0	0.00	2.21	0
1617050	1617049	2.45	27 3-	1/0 ACSR	1945	1821	1493	165	265	12	5	0.04	2.25	7
1617066	1617050	2.61	22 1-	1/0 URD PRI AL	0	0	1420	385	237	32	19	0.15	2.40	29
1617067	1617066	2.70	0 1-	1/0 URD PRI AL	0	0	1384	382	0	0	0	0.00	2.40	0
SW120917-A	1617067	2.70	0 1-	Open	0	0	1384	382	0	0	0	0.00	2.40	0
1617070	1617066	2.90	18 1-	1/0 URD PRI AL	0	0	1307	374	182	24	15	0.18	2.58	26
1617071	1617070	2.91	12 1-	4/0 URD PRI AL	0	0	1303	374	117	16	7	0.00	2.58	0
1617039	1617071	3.09	10 1-	2 ACSR	0	0	1225	161	99	13	8	0.06	2.64	4
1617072	1617039	3.44	6 1-	1/0 URD PRI AL	0	0	1118	355	51	6	4	0.04	2.68	0
SW120918-A	1617072	3.44	0 1-	Open	0	0	1118	355	0	0	0	0.00	2.68	0
CKT 124 total losses:	\$3,158													

SUB 15, CKT 134

NMAD_134	NORTH MADISON	0.00	329 3-	SBS_99_SBS	5677	5867	5925	176	1573	70	0	0.00	0.00	0
1616113	NMAD_134	0.03	329 3-	336.4 ACSR	5601	5747	5798	176	1573	70	13	0.01	0.01	14
1616114	1616113	0.86	329 3-	1/0 ACSR	3456	3269	2948	172	1573	70	31	0.99	1.00	1236
1616115	1616114	1.11	317 3-	4 ACSR	2887	2741	2396	169	1481	67	48	0.65	1.65	867
1616151	1616115	1.40	16 1-	4 ACSR	0	0	1929	166	74	10	7	0.14	1.79	9
OC120908	1616151	1.40	16 1-	25-H	0	0	1929	166	74	10	41	0.00	1.79	0
1616153	OC120908	2.81	15 1-	4 ACSR	0	0	971	153	74	10	7	0.32	2.11	14
1616152	OC120908	1.47	1 1-	4 ACSR	0	0	1851	166	0	0	0	0.00	1.79	0
1616116	1616115	1.19	300 3-	1/0 ACSR	2787	2645	2298	169	1388	63	27	0.09	1.74	100
1616117	1616116	2.20	300 3-	1/0 ACSR	1928	1831	1513	164	1387	63	27	1.09	2.83	1230
OC120911	1616117	2.20	290 3-	70-L	1928	1831	1513	164	1335	61	88	0.00	2.83	0
1616118	OC120911	2.32	290 3-	1/0 ACSR	1862	1768	1455	164	1335	61	27	0.12	2.95	137
1616127	1616118	2.39	164 3-	1/0 ACSR	1827	1736	1426	163	698	32	14	0.03	2.98	19
1616128	1616127	2.40	155 3-	4 ACSR	1815	1725	1417	163	641	29	21	0.01	3.00	7
1616129	1616128	3.73	97 3-	1/0 ACSR	1310	1247	996	157	425	19	8	0.35	3.35	109
1616087	1616129	3.75	24 1-	4 ACSR	0	0	989	157	98	13	10	0.01	3.36	0
1616088	1616087	3.76	24 1-	2 ACSR	0	0	988	157	98	13	8	0.00	3.37	0
OC120912	1616088	3.76	24 1-	REC_25_UNK	0	0	988	157	98	13	54	0.00	3.37	0
1616089	OC120912	4.00	24 1-	2 ACSR	0	0	927	156	98	13	8	0.10	3.47	8
1616090	1616089	4.16	22 1-	6 ACWC	0	0	881	154	96	13	9	0.07	3.53	5
1616091	1616090	4.49	8 1-	2 ACSR	0	0	816	152	40	5	3	0.04	3.58	1
1615062	1616091	4.61	5 1-	6 ACWC	0	0	788	151	20	2	2	0.01	3.59	0
1615063	1615062	5.05	4 1-	4 ACSR	0	0	702	147	8	1	1	0.01	3.60	0
1615064	1615063	5.11	1 1-	2 ACSR	0	0	693	147	0	0	0	0.00	3.60	0
1616130	1616129	3.98	38 3-	1/0 ACSR	1246	1187	945	156	153	7	3	0.03	3.38	3
1616095	1616130	4.18	6 1-	4 ACSR	0	0	886	154	36	5	4	0.03	3.41	0
1616086	1616095	4.29	1 1-	2 ACSR	0	0	863	154	13	1	1	0.00	3.41	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 21	BRIDGEPORT		3553		3825	3998	4018	350	14680					
SUB 21,	CKT 114													
BPRT_114+		0.00	1142	SBS_99_UNK	3825	3998	4018	350	4914	109	0	0.00	0.00	0
1110022+	BPRT_114	0.03	1142	336.4 ACSR	3806	3967	3986	350	4914	109	21	0.01	0.01	35
1109025+	1110022	1.37	1142	3/0 ACSR	2945	2868	2691	340	4913	109	36	0.81	0.82	3088
1109017+	1109025	1.38	0 1-	4 ACSR	0	0	2685	340	0	0	0	0.00	0.82	0
SW401086-A+	1109017	1.38	0 1-	Open	0	0	2685	340	0	0	0	0.00	0.82	0
1109013+	1109025	4.39	1111	3/0 ACSR	1912	1781	1522	317	4765	106	36	1.71	2.53	6359
1209058+	1109013	4.41	904	3/0 ACSR	1908	1777	1518	317	3977	90	30	0.01	2.54	27
1209059+	1209058	4.41	899	1/0 ACSR	1907	1776	1517	317	3961	89	39	0.00	2.54	7
1209048+	1209059	4.41	899	3/0 ACSR	1906	1775	1516	317	3961	89	30	0.00	2.54	7
OC400857+	1209048	4.41	899	REC_70_UNK	1906	1775	1516	317	3961	89	128	0.00	2.54	0
1209050+	OC400857	5.27	899	3/0 ACSR	1730	1600	1348	311	3961	89	30	0.41	2.95	1289
1209056+	1209050	5.28	871	1/0 ACSR	1729	1599	1347	311	3726	84	37	0.00	2.96	13
RG400021+	1209056	5.28	871	219	1729	1599	1347	311	3726	84	39	-2.96	0.00	0
1209057+	RG400021	5.37	871	3/0 ACSR	1711	1582	1331	310	3726	82	28	0.04	0.04	127
1209051+	1209057	5.79	828	3/0 ACSR	1637	1509	1262	308	3547	78	26	0.18	0.22	506
1210114+	1209051	7.14	521	3/0 ACSR	1438	1323	1084	298	2187	48	16	0.33	0.56	558
1210075+	1210114	7.17	50	3/0 ACSR	1434	1319	1081	298	143	3	1	0.00	0.56	0
OC400871+	1210075	7.17	50	REC_99_UNK	1434	1319	1081	298	143	3	0	0.00	0.56	0
1210076+	OC400871	8.28	50	3/0 ACSR	1303	1199	969	291	143	3	1	0.02	0.57	2
1210059+	1210076	9.65	18	4 ACSR	0	0	796	269	52	3	2	0.05	0.62	2
SW400209-A+	1210059	9.65	0 1-	Open	0	0	796	269	0	0	0	0.00	0.62	0
1310114+	1210076	9.49	10	3/0 ACSR	1184	1090	870	283	32	0	0	0.00	0.57	0
SW401081-A+	1310114	9.49	0 3-	Open	1184	1090	870	283	0	0	0	0.00	0.57	0
1210073+	1210114	7.25	390	1/0 ACSR	1421	1307	1070	297	1755	39	17	0.04	0.59	52
OC400868+	1210073	7.25	366	REC_70_UNK	1421	1307	1070	297	1680	37	54	0.00	0.59	0
1210071+	OC400868	8.85	366	1/0 ACSR	1213	1121	895	283	1680	37	16	0.41	1.00	525
1210072+	1210071	8.92	237	4 ACSR	1201	1111	886	282	1144	25	18	0.03	1.04	34
1210078+	1210072	9.41	155	4 ACSR	1121	1046	833	275	785	17	13	0.11	1.15	65
1210057+	1210078	9.64	59	2 ACSR	0	0	813	273	303	20	11	0.04	1.19	7
1210058+	1210057	9.83	8	4 ACSR	0	0	792	270	37	2	2	0.01	1.20	0
1210074+	1210072	9.47	70	4 ACSR	1112	1037	822	274	291	6	5	0.03	1.07	6
SW400758-A+	1210074	9.47	0 3-	Open	1112	1037	822	274	0	0	0	0.00	1.07	0
1209052+	1209051	5.91	298	1/0 ACSR	1615	1486	1242	306	1290	28	12	0.03	0.25	30
OC400862+	1209052	5.91	297	REC_70_UNK	1615	1486	1242	306	1286	28	41	0.00	0.25	0
1209053+	OC400862	6.77	297	1/0 ACSR	1464	1350	1108	298	1286	28	12	0.19	0.44	198
1209063+	1209053	7.02	79	4 ACSR	0	0	1061	294	325	21	16	0.12	0.56	33
OC400863+	1209063	7.02	75	REC_35_UNK	0	0	1061	294	308	20	59	0.00	0.56	0
1209064+	OC400863	9.20	75	4 ACSR	0	0	765	261	308	20	15	0.61	1.16	123
1209065+	1209064	9.50	14	6 ACWC	0	0	736	257	72	4	3	0.02	1.19	0
1209066+	1209065	9.82	5	4 ACSR	0	0	706	253	30	2	1	0.01	1.19	0
1209054+	1209053	8.09	187	1/0 ACSR	1278	1182	950	287	803	17	8	0.19	0.63	123
1209043+	1209054	8.17	51	2 ACSR	0	0	941	286	223	14	8	0.02	0.64	3
1209044+	1209043	8.45	50	4 ACSR	0	0	902	281	218	14	10	0.08	0.72	15
OC400864+	1209044	8.45	40	35-2E	0	0	902	281	169	11	32	0.00	0.72	0
1209045+	OC400864	10.07	40	4 ACSR	0	0	724	258	169	11	8	0.35	1.08	48
1209046+	1209045	10.29	32	6 ACWC	0	0	705	255	127	8	6	0.04	1.11	4
1209047+	1209046	11.57	22	4 ACSR	0	0	608	240	90	6	4	0.08	1.20	5
1209055+	1209054	8.57	121	1/0 ACSR	1221	1130	903	283	524	11	5	0.04	0.67	19
1209067+	1209055	8.58	116	4 ACSR	0	0	902	283	492	32	24	0.00	0.67	2
1209072+	1209067	9.88	25	4 ACSR	0	0	755	263	69	4	3	0.09	0.76	4

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1309069+	1209072	10.38	8 1-	6 ACWC	0	0	710	257	25	1	1	0.01	0.77	0
1209068+	1209067	8.97	91 1-	4 ACSR	0	0	853	276	423	28	20	0.24	0.91	86
OC400865+	1209068	8.97	85 1-	REC_35_UNK	0	0	853	276	394	26	76	0.00	0.91	0
1209069+	OC400865	11.31	4 85 1-	4 ACSR	0	0	636	245	394	26	19	0.78	1.69	195
1209070+	1209069	11.42	9 1-	6 ACWC	0	0	628	244	58	3	3	0.01	1.70	0
1209071+	1209070	12.19	9 1-	4 ACSR	0	0	579	235	58	3	3	0.03	1.74	0
1209060+	1209057	5.44	43 1-	4 ACSR	0	0	1311	309	178	11	8	0.02	0.06	3
OC400859+	1209060	5.44	43 1-	REC_35_UNK	0	0	1311	309	178	11	34	0.00	0.06	0
1209061+	OC400859	5.81	43 1-	4 ACSR	0	0	1222	303	178	11	8	0.09	0.15	14
1209074+	1209061	5.91	39 1-	1/0 URD PRI AL_	0	0	1207	604	160	10	6	0.02	0.17	2
1209076+	1209074	5.96	36 1-	1/0 URD PRI AL_	0	0	1199	601	149	9	6	0.01	0.18	0
1210116+	1209076	6.06	34 1-	4 ACSR	0	0	1177	299	149	9	7	0.02	0.20	3
SW400759-B+	1210116	6.06	34 1-	Closed	0	0	1177	299	149	9	0	0.00	0.20	0
SW400759-A+	SW400759-B	6.06	34 1-	Closed	0	0	1177	299	149	9	0	0.00	0.20	0
1210109+	SW400759-A	6.20	33 1-	1/0 URD PRI AL_	0	0	1158	587	143	9	6	0.02	0.22	3
SW400760-B+	1210109	6.20	32 1-	Closed	0	0	1158	587	143	9	0	0.00	0.22	0
SW400760-A+	SW400760-B	6.20	32 1-	Closed	0	0	1158	587	143	9	0	0.00	0.22	0
1210097+	SW400760-A	6.25	7 1-	4 ACSR	0	0	1147	296	44	2	2	0.00	0.22	0
1210110+	SW400760-A	6.95	25 1-	1/0 URD PRI AL_	0	0	1063	555	99	6	4	0.04	0.26	2
SW401080-B+	1210110	6.95	0 1-	Open	0	0	1063	555	0	0	0	0.00	0.26	0
1210096+	SW400759-A	6.09	1 1-	4 ACSR	0	0	1171	298	6	0	0	0.00	0.20	0
1209075+	1209074	5.91	0 1-	1/0 URD PRI AL_	0	0	1206	604	0	0	0	0.00	0.17	0
SW401080-A+	1209075	5.91	0 1-	Open	0	0	1206	604	0	0	0	0.00	0.17	0
1209039+	1109013	4.43	113 1-	4 ACSR	0	0	1507	317	415	28	20	0.03	2.56	10
OC400858+	1209039	4.43	112 1-	REC_35_UNK	0	0	1507	317	400	27	78	0.00	2.56	0
1209041+	OC400858	5.11	106 1-	4 ACSR	0	0	1300	304	378	25	18	0.24	2.80	61
1209042+	1209041	5.52	29 1-	2 ACSR	0	0	1217	299	93	6	4	0.02	2.82	0
1209040+	OC400858	4.44	6 1-	4 ACSR	0	0	1505	316	22	1	1	0.00	2.56	0
CKT 114 total losses:		\$13,695												
SUB 21, CTG 124														
BPRT_124+	BRIDGEPORT	0.00	1005 3-	SBS_99_UNK	3825	3998	4018	350	4212	93	0	0.00	0.00	0
1110024+	BPRT_124	0.61	1005 3-	336.4 ACSR	3478	3480	3454	347	4212	93	18	0.17	0.17	520
1110018+	1110024	2.04	958 3-	336.4 ACSR	2860	2758	2587	341	4006	89	17	0.37	0.55	1075
SW400874-B+	1110018	2.04	924 3-	Closed	2860	2758	2587	341	3849	85	0	0.00	0.55	0
SW400874-A+	SW400874-B	2.04	924 3-	Closed	2860	2758	2587	341	3849	85	0	0.00	0.55	0
1110019+	SW400874-A	2.49	924 3-	336.4 ACSR	2709	2596	2398	339	3849	85	16	0.11	0.66	315
1110027+	1110019	2.66	224 3-	1/0 ACSR	2630	2512	2301	338	935	20	9	0.03	0.69	23
OC400965+	1110027	2.66	223 3-	REC_70_UNK	2630	2512	2301	338	931	20	30	0.00	0.69	0
1109026+	OC400965	3.90	223 3-	1/0 ACSR	2153	2012	1765	325	931	20	9	0.21	0.89	160
1109018+	1109026	4.19	91 1-	6 ACWC	0	0	1639	319	414	27	20	0.18	1.07	65
OC400976+	1109018	4.19	86 1-	REC_35_UNK	0	0	1639	319	407	27	78	0.00	1.07	0
1109019+	OC400976	5.17	86 1-	6 ACWC	0	0	1309	301	407	27	20	0.51	1.58	168
1109020+	1109019	5.28	66 1-	2 ACSR	0	0	1285	300	305	20	11	0.03	1.61	8
1109021+	1109020	7.44	62 1-	6 ACWC	0	0	869	266	284	19	14	0.52	2.14	96
1109015+	1109021	7.55	1 1-	6 ACWC	0	0	854	265	8	0	0	0.00	2.14	0
1109016+	1109015	7.59	0 1-	4 ACSR	0	0	849	264	0	0	0	0.00	2.14	0
SW401086-B+	1109016	7.59	0 1-	Open	0	0	849	264	0	0	0	0.00	2.14	0
1109014+	1109021	7.64	7 1-	4 ACSR	0	0	842	264	40	2	2	0.01	2.14	0
1109012+	1109026	4.06	115 3-	1/0 ACSR	2100	1959	1710	323	474	10	5	0.01	0.91	6
1109022+	1109012	6.04	115 1-	6 ACWC	0	0	1109	288	474	31	23	1.00	1.91	344
1009013+	1109022	6.09	1 1-	4 ACSR	0	0	1099	287	7	0	0	0.00	1.91	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1009011+	1109022	6.06	56 1-	6 ACWC	0	0	1106	288	210	14	10	0.00	1.91	0
OC400977+	109011	6.06	56 1-	REC_99_UNK	0	0	1106	288	210	14	0	0.00	1.91	0
1009014+	OC400977	6.13	56 1-	6 ACWC	0	0	1092	286	210	14	10	0.02	1.94	4
1009015+	1009014	6.35	52 1-	4 ACSR	0	0	1046	283	200	13	10	0.06	2.00	10
1009016+	1009015	8.47	43 1-	6 ACWC	0	0	752	253	165	11	8	0.26	2.26	26
1009012+	1009016	8.52	1 1-	2 ACSR	0	0	748	253	5	0	0	0.00	2.26	0
1110025+	1110019	2.69	683 3-	336.4 ACSR	2646	2529	2323	339	2854	63	12	0.04	0.70	78
SW400877-B+	1110025	2.69	682 3-	Closed	2646	2529	2323	339	2845	63	0	0.00	0.70	0
SW400877-A+	SW400877-B	2.69	682 3-	Closed	2646	2529	2323	339	2845	63	0	0.00	0.70	0
1010101+	SW400877-A	4.69	682 3-	336.4 ACSR	2144	2010	1760	330	2845	63	12	0.36	1.06	722
1010053+	1010101	4.91	47 1-	4 ACSR	0	0	1670	325	157	10	8	0.05	1.11	7
OC400958+	1010053	4.91	45 1-	REC_50_UNK	0	0	1670	325	153	10	21	0.00	1.11	0
1010057+	OC400958	4.92	1 1-	4 ACSR	0	0	1666	325	5	0	0	0.00	1.11	0
1010054+	OC400958	5.57	44 1-	4 ACSR	0	0	1439	312	148	9	7	0.12	1.23	15
1010055+	1010054	5.87	33 1-	6 ACWC	0	0	1349	307	105	7	5	0.04	1.27	3
1010056+	1010055	6.86	27 1-	4 ACSR	0	0	1106	290	77	5	4	0.06	1.33	3
SW401085-B+	1010056	6.86	0 1-	Open	0	0	1106	290	0	0	0	0.00	1.33	0
1010065+	1010101	5.16	481 3-	336.4 ACSR	2052	1918	1665	328	1969	44	8	0.06	1.12	87
OC400962+	1010065	5.16	474 3-	REC_100_UNK	2052	1918	1665	328	1922	43	43	0.00	1.12	0
1010066+	OC400962	6.02	474 3-	336.4 ACSR	1902	1768	1514	324	1922	43	8	0.11	1.23	152
1010088+	1010066	7.44	22 1-	4 ACSR	0	0	1147	297	98	6	5	0.10	1.33	6
1010071+	1010066	7.75	439 3-	336.4 ACSR	1659	1529	1282	317	1758	39	7	0.19	1.42	243
1010077+	1010071	7.91	240 3-	336.4 ACSR	1638	1510	1263	316	1041	23	4	0.01	1.43	9
1010080+	1010077	7.93	197 3-	1/0 ACSR	1635	1507	1261	316	844	18	8	0.00	1.43	2
OC400968+	1010080	7.93	197 3-	REC_50_UNK	1635	1507	1261	316	844	18	38	0.00	1.43	0
0910023+	OC400968	11.73	197 3-	1/0 ACSR	1127	1043	823	280	844	18	8	0.52	1.95	343
0910002+	0910023	12.70	139 3-	1/0 ACSR	1042	966	756	272	638	14	6	0.11	2.06	59
0910004+	0910002	12.75	15 3-	1/0 ACSR	1037	962	752	272	64	1	1	0.00	2.06	0
0910010+	0910004	12.78	15 1-	4 ACSR	0	0	749	271	64	4	3	0.00	2.07	0
AU400001	0910010	12.78	14 1-	99 KVA 1PH AUTO	0	0	245	135	57	3	56	0.44	2.51	0
0910011	AU400001	13.59	14 1-	4 ACSR	0	0	235	129	57	7	5	0.14	2.65	5
0910017	0910011	13.66	1 1-	2 ACSR	0	0	234	129	3	0	0	0.00	2.65	0
OC400969+	0910010	12.78	0 1-	REC_99_UNK	0	0	749	271	0	0	0	0.00	2.07	0
0910003+	0910002	13.95	114 3-	1/0 ACSR	947	880	682	263	536	12	5	0.10	2.17	42
0910013+	0910003	13.98	27 2-	1/0 ACSR	0	878	680	262	116	3	2	0.00	2.17	0
0910006+	0910013	14.07	17 1-	6 ACWC	0	0	674	261	88	5	4	0.01	2.18	0
OC400975+	0910006	14.07	16 1-	REC_25_UNK	0	0	674	261	81	5	22	0.00	2.18	0
0910007+	OC400975	15.60	16 1-	6 ACWC	0	0	577	242	81	5	4	0.09	2.27	4
0910014+	0910013	15.23	10 2-	1/0 ACSR	0	803	620	253	28	0	0	0.01	2.17	0
OC400974+	0910014	15.23	0 2-	25-2E	0	803	620	253	0	0	0	0.00	2.17	0
0909004+	OC400974	15.23	0 2-	1/0 ACSR	0	803	620	253	0	0	0	0.00	2.17	0
0910015+	0910003	14.01	47 1-	6 ACWC	0	0	678	262	236	16	11	0.02	2.19	4
OC400972+	0910015	14.01	46 1-	REC_25_UNK	0	0	678	262	228	15	62	0.00	2.19	0
0909007+	OC400972	14.94	46 1-	6 ACWC	0	0	615	250	228	15	11	0.24	2.43	42
0909005+	0909007	15.48	22 1-	4 ACSR	0	0	582	243	126	8	6	0.06	2.49	4
0909003+	0909005	15.56	2 1-	2 ACSR	0	0	579	242	14	0	1	0.00	2.49	0
0910005+	0910023	11.81	0 1-	4 ACSR	0	0	815	279	0	0	0	0.00	1.95	0
1010078+	1010077	7.97	40 3-	336.4 ACSR	1631	1503	1257	316	178	4	1	0.00	1.43	0
1010079+	1010078	9.15	38 3-	4 ACSR	1355	1272	1031	294	167	3	3	0.04	1.47	4
1010092+	1010079	9.19	2 1-	4 ACSR	0	0	1024	293	2	0	0	0.00	1.48	0
SW400880-B+	1010079	9.15	0 3-	Open	1355	1272	1031	294	0	0	0	0.00	1.47	0
1010072+	1010071	7.85	161 3-	3/0 ACSR	1642	1513	1267	316	569	12	4	0.01	1.43	3

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1010073+	1010072	7.85	160 3-	336.4 ACSR	1641	1513	1266	316	565	12	2	0.00	1.43	0
OC400970+	1010073	7.85	160 3-	REC_99_UNK	1641	1513	1266	316	565	12	0	0.00	1.43	0
1010074+	OC400970	8.19	160 3-	336.4 ACSR	1601	1474	1225	314	565	12	2	0.01	1.44	5
1010075+	1010074	8.54	154 3-	3/0 ACSR	1548	1423	1177	311	549	12	4	0.02	1.46	9
1010076+	1010075	8.60	130 3-	336.4 ACSR	1542	1416	1170	311	462	10	2	0.00	1.46	0
1010093+	1010076	8.61	93 1-	4 ACSR	0	0	1169	311	321	21	15	0.00	1.47	0
OC400971+	1010093	8.61	93 1-	35-H	0	0	1169	311	321	21	62	0.00	1.47	0
1010094+	OC400971	9.68	93 1-	4 ACSR	0	0	986	292	321	21	15	0.48	1.95	133
1010095+	1010094	9.72	82 1-	6 ACWC	0	0	980	291	286	19	14	0.02	1.97	4
1010096+	1010095	10.39	81 1-	2 ACSR	0	0	905	283	286	19	11	0.19	2.15	46
0910025+	1010096	11.45	73 1-	6 ACWC	0	0	783	268	269	18	13	0.38	2.53	85
0909002+	0910025	12.65	19 1-	4 ACSR	0	0	674	251	52	3	3	0.05	2.58	1
1009022+	0910025	13.58	42 1-	4 ACSR	0	0	607	240	163	11	8	0.26	2.79	25
1010085+	1010076	8.71	37 1-	4 ACSR	0	0	1151	309	141	9	7	0.02	1.49	3
AU400002	1010085	8.71	37 1-	99 KVA 1PH AUTO	0	0	258	140	141	9	140	1.28	2.76	0
1009021	AU400002	9.54	35 1-	4 ACSR	0	0	246	134	132	18	13	0.48	3.25	47
1009009	1009021	11.10	16 1-	4 ACSR	0	0	226	123	61	8	6	0.31	3.56	12
1009010	1009009	11.17	1 1-	2 ACSR	0	0	225	123	5	0	0	0.00	3.56	0
SW401088-B	1009021	9.54	0 1-	Open	0	0	246	134	0	0	0	0.00	3.25	0
1010086	AU400002	8.77	2 1-	4 ACSR	0	0	257	140	9	1	1	0.00	2.76	0
1010082+	1010101	4.83	94 1-	6 ACWC	0	0	1704	327	427	28	20	0.09	1.14	33
OC400959+	1010082	4.83	91 1-	REC_99_UNK	0	0	1704	327	418	28	0	0.00	1.14	0
1010084+	OC400959	4.83	2 1-	4 ACSR	0	0	1701	327	11	0	1	0.00	1.14	0
1009020+	OC400959	8.06	89 1-	6 ACWC	0	0	903	272	407	27	20	0.96	2.10	230
SW401088-A+	1009020	8.06	0 1-	Open	0	0	903	272	0	0	0	0.00	2.10	0
1110029+	1110024	1.00	46 1-	2 ACSR	0	0	3030	342	197	13	7	0.07	0.24	11
1110030+	1110029	1.00	41 1-	6 ACWC	0	0	3023	341	171	11	8	0.00	0.24	0
OC400957+	1110030	1.00	41 1-	REC_50_UNK	0	0	3023	341	171	11	23	0.00	0.24	0
1110031+	OC400957	2.40	41 1-	6 ACWC	0	0	1838	314	171	11	8	0.22	0.46	24
1110032+	1110031	3.56	16 1-	4 ACSR	0	0	1337	293	43	2	2	0.04	0.50	0
CKT 124 total losses:	\$5,325													
SUB 21, CKT 134														
BPRT_134+	BRIDGEPORT	0.00	443 3-	SBS_99_UNK	3825	3998	4018	350	1775	39	0	0.00	0.00	0
1110020+	BPRT_134	0.06	443 3-	336.4 ACSR	3786	3935	3952	350	1775	39	7	0.01	0.01	9
1110021+	1110020	4.59	443 3-	3/0 ACSR	1870	1739	1481	316	1775	39	13	0.94	0.94	1288
1010067+	1110021	4.86	410 3-	1/0 ACSR	1812	1681	1425	314	1620	36	12	0.05	1.00	69
OC401012+	1010067	4.86	396 3-	100-E	1812	1681	1425	314	1573	35	35	0.00	1.00	0
1010068+	OC401012	6.39	396 3-	3/0 ACSR	1543	1420	1177	303	1573	35	12	0.28	1.27	334
1010059+	1010068	6.43	118 3-	1/0 ACSR	1538	1415	1172	303	593	13	6	0.00	1.28	2
1010060+	1010059	6.48	118 3-	3/0 ACSR	1530	1408	1166	303	592	13	4	0.00	1.28	2
1010061+	1010060	6.58	118 3-	1/0 ACSR	1513	1392	1150	302	592	13	6	0.01	1.29	6
OC401015+	1010061	6.58	117 3-	REC_70_UNK	1513	1392	1150	302	584	13	19	0.00	1.29	0
1010069+	OC401015	8.08	117 3-	1/0 ACSR	1293	1194	962	288	584	13	6	0.15	1.44	72
1011023+	1010069	8.14	99 3-	2/0 ACSR	1286	1188	956	288	515	11	4	0.00	1.45	2
1010100+	1011023	8.25	98 3-	1/0 ACSR	1273	1176	945	287	511	11	5	0.01	1.46	4
1011024+	1010100	8.54	98 1-	336.4 ACSR	0	0	926	286	511	34	6	0.05	1.50	17
1011014+	1011024	8.58	98 1-	3/0 ACSR	0	0	923	286	511	34	11	0.01	1.51	4
OC401022+	1011014	8.58	98 1-	35-2E	0	0	923	286	511	34	98	0.00	1.51	0
1011015+	OC401022	8.60	98 1-	3/0 ACSR	0	0	920	285	511	34	11	0.01	1.52	3
1011019+	1011015	9.78	33 1-	4 ACSR	0	0	782	267	221	14	11	0.19	1.71	25
1010102+	1011015	9.89	64 1-	4 ACSR	0	0	771	266	284	19	14	0.48	2.00	111

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1011018+	1010102	9.94	2 1-	4 ACSR	0	0	766	265	10	0	0	0.00	2.00	0
SW401082-A+	1011018	9.94	0 1-	Open	0	0	766	265	0	0	0	0.00	2.00	0
1011017+	1010102	11.57	48 1-	4 ACSR	0	0	630	244	208	14	10	0.26	2.26	32
1010062+	1010068	8.39	230 3-	3/0 ACSR	1292	1189	960	290	783	17	6	0.18	1.46	113
1010064+	1010062	8.51	208 3-	2 ACSR	1275	1174	945	289	727	16	9	0.02	1.48	16
1010058+	1010064	9.66	137 3-	2 ACSR	1044		825	276	461	10	6	0.14	1.62	54
1010089+	1010058	9.66	16 1-	4 ACSR	0	0	825	276	78	5	4	0.00	1.62	0
OC401017+	1010089	9.66	16 1-	REC_50_UNK	0	0	825	276	78	5	11	0.00	1.62	0
1010090+	OC401017	11.33	16 1-	4 ACSR	0	0	670	252	78	5	4	0.11	1.73	6
1011013+	1010090	11.74	2 1-	4 ACSR	0	0	640	247	9	0	0	0.01	1.74	0
1011020+	1011013	11.74	1 1-	1/0 URD PRI AL_	0	0	640	408	9	0	0	0.00	1.74	0
1011012+	1010090	11.58	1 1-	4 ACSR	0	0	652	249	3	0	0	0.00	1.73	0
SW401082-B+	1011012	11.58	0 1-	Open	0	0	652	249	0	0	0	0.00	1.73	0
1010081+	1010058	9.95	104 1-	1/0 ACSR	0	0	804	273	316	21	9	0.06	1.68	16
OC401018+	1010081	9.95	102 1-	REC_50_UNK	0	0	804	273	307	20	42	0.00	1.68	0
0910024+	OC401018	15.36	102 1-	1/0 ACSR	0	0	543	237	307	20	9	0.72	2.40	138
0910012+	0910024	15.36	28 1-	1/0 ACSR	0	0	543	237	76	5	2	0.00	2.40	0
OC401019+	0910012	15.36	28 1-	25-2E	0	0	543	237	76	5	21	0.00	2.40	0
0810004+	OC401019	17.60	28 1-	1/0 ACSR	0	0	478	224	76	5	2	0.08	2.48	4
0810001+	0810004	18.09	3 1-	4 ACSR	0	0	460	219	23	1	1	0.01	2.49	0
0810002+	0810001	18.47	1 1-	2 ACSR	0	0	449	216	8	0	0	0.00	2.49	0
0910008+	0910024	15.95	3 1-	4 ACSR	0	0	515	230	2	0	0	0.00	2.41	0
1010052+	1010064	9.32	71 1-	2 ACSR	0	0	860	279	267	17	10	0.20	1.69	45
OC401016+	1010052	9.32	62 1-	REC_35_UNK	0	0	860	279	229	15	44	0.00	1.69	0
0910022+	OC401016	12.68	62 1-	2 ACSR	0	0	622	247	229	15	9	0.44	2.12	61
0910001+	0910022	14.62	12 1-	6 ACWC	0	0	514	225	29	1	1	0.04	2.16	0
1010063+	1010062	8.45	0 3-	3/0 ACSR	1286	1183	954	290	0	0	0	0.00	1.46	0
SW400880-A+	1010063	8.45	0 3-	Open	1286	1183	954	290	0	0	0	0.00	1.46	0
1010051+	1110021	4.59	0 1-	4 ACSR	0	0	1479	316	0	0	0	0.00	0.94	0
SW401085-A+	1010051	4.59	0 1-	Open	0	0	1479	316	0	0	0	0.00	0.94	0
CKT 134 total losses:		\$2,433												
SUB 21, CKT 144														
BPR1_144+	BRIDGEPORT	0.00	963 3-	SBS_99_UNK	3825	3998	4018	350	3779	83	0	0.00	0.00	0
1110017+	BPR1_144	2.81	963 3-	336.4 ACSR	2610	2488	2230	337	3779	83	16	0.57	0.57	1824
SW401025-B+	1110017	2.81	913 3-	Closed	2610	2488	2230	337	3599	79	0	0.00	0.57	0
SW401025-A+	SW401025-B	2.81	913 3-	Closed	2610	2488	2230	337	3599	79	0	0.00	0.57	0
1210079+	SW401025-A	3.10	913 3-	336.4 ACSR	2524	2397	2128	336	3599	79	15	0.06	0.63	175
1210080+	1210079	3.50	867 3-	336.4 ACSR	2417	2286	2006	334	3385	75	14	0.09	0.72	215
1210081+	1210080	3.96	778 3-	336.4 ACSR	2304	2169	1880	332	3022	67	13	0.08	0.79	160
1210085+	1210081	4.07	255 3-	336.4 ACSR	2277	2142	1851	331	897	20	4	0.01	0.80	4
1210086+	1210085	4.24	196 3-	336.4 ACSR	2239	2103	1811	331	792	17	3	0.01	0.81	5
OC401076+	1210086	4.24	195 3-	70-E	2239	2103	1811	331	784	17	25	0.00	0.81	0
1210087+	OC401076	4.33	195 3-	336.4 ACSR	2220	2083	1790	330	784	17	3	0.00	0.81	2
1210091+	1210087	5.01	109 3-	4 ACSR	1936	1806	1527	317	405	9	6	0.06	0.87	15
1210105+	1210091	5.06	3 1-	2 ACSR	0	0	1514	316	10	0	0	0.00	0.87	0
1210088+	1210085	4.13	57 3-	336.4 ACSR	2265	2130	1838	331	102	2	0	0.00	0.80	0
OC401079+	1210088	4.13	57 3-	REC_50_UNK	2265	2130	1838	331	102	2	5	0.00	0.80	0
1210089+	OC401079	4.29	57 3-	336.4 ACSR	2227	2091	1798	330	102	2	0	0.00	0.80	0
1210090+	1210089	4.46	4 3-	2 ACSR	2170	2029	1740	328	9	0	0	0.00	0.80	0
1210082+	1210081	4.12	257 3-	4 ACSR	2231	2089	1812	329	1301	29	21	0.08	0.88	87
1210084+	1210082	4.30	85 3-	4 ACSR	2148	1997	1732	325	432	9	7	0.02	0.90	7

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1210056+	1210084	4.31	35 1-	4 ACSR	0	0	1729	325	169	11 8	0.00	0.90	0	
1210083+	1210082	4.20	114 3-	4 ACSR	2193	2047	1778	327	562	12 9	0.02	0.90	10	
1210107+	1210083	4.21	28 1-	4 ACSR	0	0	1776	327	168	11 8	0.00	0.90	0	
OC401072+	1210107	4.21	28 1-	REC_50_UNK	0	0	1776	327	168	11 22	0.00	0.90	0	
1210108+	OC401072	4.49	28 1-	4 ACSR	0	0	1668	321	168	11 8	0.03	0.93	3	
1210098+	1210083	4.21	78 1-	4 ACSR	0	0	1775	327	351	23 17	0.00	0.90	0	
OC401073+	1210098	4.21	78 1-	REC_50_UNK	0	0	1775	327	351	23 47	0.00	0.90	0	
1210099+	OC401073	4.37	78 1-	4 ACSR	0	0	1705	324	351	23 17	0.08	0.98	23	
1210104+	1210099	4.45	10 1-	4 ACSR	0	0	1673	322	31	2 2	0.00	0.98	0	
1210100+	1210099	4.46	58 1-	4 ACSR	0	0	1671	322	274	18 13	0.03	1.01	8	
1210101+	1210100	5.43	55 1-	6 ACWC	0	0	1336	304	263	17 13	0.19	1.20	30	
1210102+	1210101	5.81	3 1-	4 ACSR	0	0	1233	297	6	0 0	0.00	1.20	0	
1210103+	1210102	6.51	1 1-	6 ACWC	0	0	1076	286	0	0 0	0.00	1.20	0	
1210060+	1210080	3.52	70 1-	4 ACSR	0	0	1994	334	297	19 14	0.01	0.73	3	
OC401071+	1210060	3.52	70 1-	35-L	0	0	1994	334	297	19 57	0.00	0.73	0	
1210061+	OC401071	4.35	70 1-	4 ACSR	0	0	1613	317	297	19 14	0.27	1.00	60	
1210062+	1210061	4.57	35 1-	2 ACSR	0	0	1544	314	150	10 6	0.03	1.02	3	
1210063+	1210062	5.70	22 1-	4 ACSR	0	0	1199	294	83	5 4	0.07	1.09	3	
CA400021+	1210079	3.10	0 3-	Capacitor	2524	2397	2128	336	0	-7 0	0.00	0.63	0	
CKT 144 total losses:	\$2,637													
SUB 21 total losses:	\$24,090													

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 22	NINEVAH		1703		6189	6400	6421	176	7061					
SUB 22,	CKT 104													
NINV_104		0.00	349 3-	SBS_99_UNK	6189	6400	6421	176	1352	60	0	0.00	0.00	0
1311044	NINV_104	1.07	349 3-	336.4 ACSR	3934	3726	3330	174	1352	60	12	0.43	0.43	380
1311049	1311044	1.09	55 2-	1/0 ACSR	0	3672	3276	174	184	12	5	0.01	0.44	0
SW400002-B	1311049	1.09	55 2-	Closed	0	3672	3276	174	184	12	0	0.00	0.44	0
SW400002-A	SW400002-B	1.09	55 2-	Closed	0	3672	3276	174	184	12	0	0.00	0.44	0
1311050	SW400002-A	1.72	55 2-	1/0 ACSR	0	2664	2301	171	184	12	5	0.14	0.58	20
1311033	1311050	1.72	38 1-	4 ACSR	0	0	2292	171	127	17	12	0.00	0.59	0
OC400059	1311033	1.72	38 1-	REC_50_UNK	0	0	2292	171	127	17	34	0.00	0.59	0
1311034	OC400059	3.70	38 1-	4 ACSR	0	0	888	152	127	17	12	0.77	1.36	56
1311117	1311034	5.21	0 1-	4 ACSR	0	0	592	140	0	0	0	0.00	1.36	0
1312001	1311117	7.21	0 1-	4 ACSR	0	0	410	126	0	0	0	0.00	1.36	0
OH428	1311034	4.31	0 1-	4 ACSR	0	0	740	147	0	0	0	0.00	1.36	0
1311058	1311050	1.72	13 1-	4 ACSR	0	0	2292	171	35	4	3	0.00	0.58	0
OC400060	1311058	1.72	13 1-	REC_50_UNK	0	0	2292	171	35	4	10	0.00	0.58	0
1311059	OC400060	2.43	13 1-	4 ACSR	0	0	1497	164	35	4	3	0.08	0.66	2
1311045	1311044	1.82	289 3-	336.4 ACSR	3113	2896	2472	173	1142	51	10	0.25	0.69	189
1311040	1311045	2.52	261 3-	336.4 ACSR	2605	2398	1993	171	1029	46	9	0.21	0.90	141
1311062	1311040	3.02	206 3-	336.4 ACSR	2335	2138	1742	170	792	35	7	0.11	1.01	55
1311046	1311062	3.16	175 3-	4 ACSR	2196	2027	1632	169	682	30	22	0.17	1.17	102
1311041	1311046	3.25	6 3-	4 ACSR	2100	1949	1558	168	25	1	1	0.00	1.18	0
1311032	1311041	3.28	1 1-	4 ACSR	0	0	1538	168	0	0	0	0.00	1.18	0
1311047	1311046	3.26	169 3-	4 ACSR	2096	1945	1555	168	656	29	21	0.12	1.29	71
OC400056	1311047	3.26	169 3-	REC_70_UNK	2096	1945	1555	168	656	29	43	0.00	1.29	0
1311048	OC400056	6.73	169 3-	4 ACSR	680	676	534	137	656	29	21	3.46	4.75	1841
1411151	1311048	6.86	19 1-	4 ACSR	0	0	521	137	75	10	8	0.06	4.81	4
OC400050	1411151	6.86	17 1-	35-H	0	0	521	137	69	9	28	0.00	4.81	0
1411152	OC400050	7.52	17 1-	4 ACSR	0	0	461	132	69	9	7	0.15	4.95	6
1411120	1311048	6.81	104 3-	4 ACSR	669	665	526	137	367	17	12	0.05	4.80	17
SW400006-B	1411120	6.81	102 3-	Closed	669	665	526	137	353	16	0	0.00	4.80	0
SW400006-A	SW400006-B	6.81	102 3-	Closed	669	665	526	137	353	16	0	0.00	4.80	0
1411116	SW400006-A	6.92	102 3-	4 ACSR	654	650	515	136	353	16	12	0.07	4.87	24
1411126	1411116	6.97	37 1-	4 ACSR	0	0	510	136	129	18	13	0.04	4.91	4
OC400051	1411126	6.97	36 1-	50-H	0	0	510	136	127	17	36	0.00	4.91	0
1411127	OC400051	7.45	36 1-	4 ACSR	0	0	468	132	127	17	13	0.39	5.30	44
1411137	1411127	7.52	29 1-	4 ACSR	0	0	462	132	107	15	11	0.05	5.35	5
1411138	1411137	7.64	28 1-	6 ACWC	0	0	453	131	102	14	10	0.07	5.42	7
1411133	1411138	7.64	27 1-	2 ACSR	0	0	452	131	102	14	8	0.00	5.42	0
OC400052	1411133	7.64	27 1-	REC_25_UNK	0	0	452	131	102	14	57	0.00	5.42	0
1411135	OC400052	7.77	25 1-	2 ACSR	0	0	445	131	91	12	7	0.05	5.47	3
1411139	1411135	8.72	22 1-	6 ACWC	0	0	385	125	74	10	7	0.25	5.72	12
1311051	1411139	9.02	2 1-	2 ACSR	0	0	373	123	8	1	1	0.01	5.72	0
1411134	OC400052	7.71	2 1-	2 ACSR	0	0	448	131	11	1	1	0.00	5.43	0
1411128	1411127	8.81	6 1-	4 ACSR	0	0	377	124	20	2	2	0.09	5.38	0
1411117	1411116	7.64	65 3-	4 ACSR	571	570	452	131	224	10	7	0.25	5.12	46
SW400009-B	1411117	7.64	46 3-	Closed	571	570	452	131	150	7	0	0.00	5.12	0
SW400009-A	SW400009-B	7.64	46 3-	Closed	571	570	452	131	150	7	0	0.00	5.12	0
1411118	SW400009-A	7.74	46 3-	4 ACSR	562	561	445	131	150	7	5	0.03	5.15	4
1411129	1411118	7.74	46 1-	4 ACSR	0	0	445	130	150	21	15	0.01	5.15	0
OC400053	1411129	7.74	46 1-	REC_35_UNK	0	0	445	130	150	21	60	0.00	5.15	0
1411130	OC400053	8.15	46 1-	4 ACSR	0	0	416	128	150	21	15	0.38	5.53	50

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 22, CKT 134														
NINV_134	NINEVAH	0.00	1003 3-	SBS_99_UNK	6189	6400	6421	176	3979	180	0	0.00	0.00	0
XFMR24+	NINV_134	0.00	1003 3-	5000kVA AUTO	1362	1381	1384	339	3979	180	78	1.04	1.04	0
1311035+	XFMR24	1.20	1003 3-	336.4 ACSR	1274	1264	1242	333	3979	90	17	0.35	1.39	911
1311037+	1311035	1.65	545 3-	336.4 ACSR	1244	1230	1195	330	2347	53	10	0.08	1.47	124
1211048+	1311037	2.27	351 3-	336.4 ACSR	1205	1185	1136	327	1592	36	7	0.07	1.54	76
OC400196+	1211048	2.27	336 3-	REC_99_UNK	1205	1185	1136	327	1511	34	0	0.00	1.54	0
1210115+	OC400196	5.46	336 3-	336.4 ACSR	1034	996	904	310	1511	34	6	0.24	1.78	187
1210093+	1210115	5.50	108 3-	4 ACSR	1031	993	900	309	481	10	8	0.01	1.79	4
OC400204+	1210093	5.50	108 3-	REC_99_UNK	1031	993	900	309	481	10	0	0.00	1.79	0
1210094+	OC400204	6.52	108 3-	4 ACSR	948	898	805	291	481	10	8	0.22	2.00	94
1210070+	1210094	6.97	37 1-	4 ACSR	0	0	766	283	249	17	12	0.09	2.09	13
1210095+	1210094	7.21	67 3-	4 ACSR	892	837	747	280	222	5	4	0.05	2.06	8
1210106+	1210095	7.70	36 1-	4 ACSR	0	0	708	272	106	7	5	0.04	2.10	2
1210092+	1210115	5.49	0 3-	4 ACSR	1032	994	901	310	0	0	0	0.00	1.78	0
SW400758-B+	1210092	5.49	0 3-	Open	1032	994	901	310	0	0	0	0.00	1.78	0
1311038+	1311037	1.84	179 3-	2 ACSR	1227	1209	1167	327	723	16	9	0.04	1.51	25
OC400191+	1311038	1.84	178 3-	REC_99_UNK	1227	1209	1167	327	720	16	0	0.00	1.51	0
1211047+	OC400191	3.05	178 3-	2 ACSR	1116	1081	1009	310	720	16	9	0.24	1.75	145
SW400104-B+	1211047	3.05	154 3-	Closed	1116	1081	1009	310	633	14	0	0.00	1.75	0
SW400104-A+	SW400104-B	3.05	154 3-	Closed	1116	1081	1009	310	633	14	0	0.00	1.75	0
1211035+	SW400104-A	3.59	154 3-	2 ACSR	1069	1027	949	302	633	14	8	0.10	1.85	54
1211036+	1211035	3.96	152 3-	1/0 ACSR	1041	996	915	299	625	14	6	0.05	1.89	24
1211037+	1211036	4.40	137 3-	1/0 ACSR	1010	963	878	295	591	13	6	0.05	1.94	24
1211043+	1211037	4.61	33 1-	6 ACWC	0	0	855	291	155	10	8	0.05	1.99	7
1211042+	1211043	4.71	31 1-	4 ACSR	0	0	845	290	148	10	7	0.02	2.01	2
1211041+	1211042	5.15	12 1-	6 ACWC	0	0	802	282	70	4	3	0.02	2.03	0
1211038+	1211037	5.50	99 3-	1/0 ACSR	936	885	794	285	426	9	4	0.08	2.02	24
OC400193+	1211038	5.50	64 3-	REC_99_UNK	936	885	794	285	280	6	0	0.00	2.02	0
1211040+	OC400193	5.61	64 3-	1/0 ACSR	930	878	787	284	280	6	3	0.01	2.02	0
1211029+	1211040	6.08	50 1-	6 ACWC	0	0	746	276	228	15	11	0.14	2.17	26
1211030+	1211029	6.82	34 1-	4 ACSR	0	0	688	265	171	11	8	0.18	2.35	25
1211031+	1211030	6.89	28 1-	6 ACWC	0	0	683	265	139	9	7	0.01	2.36	2
1211032+	1211031	6.93	28 1-	4 ACSR	0	0	680	264	139	9	7	0.01	2.37	0
1211033+	1211032	7.09	22 1-	6 ACWC	0	0	668	262	120	8	6	0.02	2.39	2
1211034+	1211033	7.71	10 1-	4 ACSR	0	0	627	253	58	3	3	0.03	2.42	0
1211044+	1211036	4.11	15 1-	1/0 URD PRI AL	0	0	905	556	33	2	1	0.01	1.90	0
1211026+	1211044	4.39	15 1-	6 ACWC	0	0	875	292	33	2	2	0.01	1.91	0
1211027+	1211026	4.39	13 1-	4 ACSR	0	0	874	292	26	1	1	0.00	1.91	0
OC400192+	1211027	4.39	13 1-	REC_99_UNK	0	0	874	292	26	1	0	0.00	1.91	0
1211023+	OC400192	4.61	13 1-	4 ACSR	0	0	851	289	26	1	1	0.01	1.92	0
1211024+	1211023	5.02	12 1-	6 ACWC	0	0	809	282	26	1	1	0.01	1.93	0
1211028+	1211024	5.32	2 1-	4 ACSR	0	0	781	277	4	0	0	0.00	1.93	0
1211025+	1211024	5.23	7 1-	6 ACWC	0	0	789	279	12	0	1	0.00	1.93	0
1311036+	1311035	1.55	411 3-	4/0 ACSR	1246	1232	1200	330	1433	32	10	0.05	1.44	55
1310065+	1311036	2.46	390 3-	3/0 ACSR	1172	1150	1097	323	1345	30	10	0.16	1.60	162
OC400199+	1310065	2.46	380 3-	REC_50_UNK	1172	1150	1097	323	1282	29	58	0.00	1.60	0
1310066+	OC400199	2.89	380 3-	3/0 ACSR	1139	1114	1055	320	1282	29	10	0.07	1.68	72
1310107+	1310066	2.93	3 1-	2 ACSR	0	0	1051	319	19	1	1	0.00	1.68	0
SW400208-A+	1310107	2.93	0 1-	Open	0	0	1051	319	0	0	0	0.00	1.68	0
1310067+	1310066	3.57	374 3-	3/0 ACSR	1092	1062	993	314	1259	28	10	0.11	1.79	100
1310102+	1310067	3.89	122 1-	4 ACSR	0	0	955	308	544	37	27	0.26	2.04	117

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY

Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM

Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LIG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS	
SUB 23 SINAI			3101		5842	6135	6193	176	12567						
SUB 23, CKT 104															
SINI_104	SINI	0.00	1100	3-	SBS_99_UNK	5842	6135	6193	176	4919	222	0	0.00	0.00	0
1409052	SINI_104	4.82	1100	3-	336.4 ACSR	1667	1510	1161	166	4919	222	42	6.54	6.54	21378
1409071	1409052	4.82	83	3-	4 ACSR	1664	1509	1159	166	314	14	11	0.00	6.54	0
OC400537	1409071	4.82	83	3-	REC_50_UNK	1664	1509	1159	166	314	14	30	0.00	6.54	0
1409072	OC400537	6.79	83	3-	4 ACSR	907	873	663	148	314	14	11	0.96	7.50	256
1409074	1409072	8.96	60	3-	4 ACSR	572	564	436	131	216	10	7	0.47	7.97	66
1509077	1409074	9.04	3	2-	4 ACSR	0	557	431	131	16	1	1	0.00	7.97	0
1509089	1509077	9.04	2	1-	4 ACSR	0	0	430	131	12	1	1	0.00	7.97	0
1409073	1409072	6.88	0	3-	1/0 ACSR	896	862	654	147	0	0	0	0.00	7.50	0
SW400741-B	1409073	6.88	0	3-	Open	896	862	654	147	0	0	0	0.00	7.50	0
1409066	1409052	4.95	902	3-	336.4 ACSR	1635	1482	1136	166	3990	187	35	0.15	6.69	450
OC400557	1409066	4.95	901	3-	REC_99_UNK	1635	1482	1136	166	3986	187	0	0.00	6.69	0
1409067	OC400557	6.60	901	3-	336.4 ACSR	1314	1191	891	162	3986	187	35	1.80	8.49	5573
1410078	1409067	8.02	633	3-	336.4 ACSR	1124	1019	751	159	2838	134	25	1.01	9.50	2441
RG400004	1410078	8.02	614	3-	219	1124	1019	751	159	2738	130	60	-9.50	0.00	0
1310077	RG400004	8.65	614	3-	336.4 ACSR	1057	958	703	158	2738	120	23	0.39	0.39	855
1310086	1310077	8.71	0	3-	336.4 ACSR	1051	952	698	158	0	0	0	0.00	0.39	0
SW400064-B	1310086	8.71	0	3-	Open	1051	952	698	158	0	0	0	0.00	0.39	0
1310083	1310077	8.67	189	3-	3/0 ACSR	1055	955	701	158	858	38	13	0.00	0.39	5
OC400540	1310083	8.67	189	3-	70-L	1055	955	701	158	858	38	55	0.00	0.39	0
1310084	OC400540	8.68	189	3-	3/0 ACSR	1053	954	700	158	858	38	13	0.00	0.39	4
1410079	1310084	10.54	189	3-	3/0 ACSR	846	769	560	151	858	38	13	0.70	1.09	416
1410045	1410079	11.85	135	3-	1/0 ACSR	725	664	480	145	607	27	12	0.44	1.53	180
1410069	1410045	12.28	57	1-	4 ACSR	0	0	451	142	270	36	26	0.35	1.88	55
CA400003	1310084	8.68	0	3-	Capacitor	1053	954	700	158	0	-14	0	0.00	0.39	0
1310078	1310077	9.28	405	3-	336.4 ACSR	997	903	660	156	1746	78	15	0.32	0.70	375
1310075	1310078	9.31	317	3-	336.4 ACSR	994	900	658	156	1318	59	11	0.01	0.72	11
OC400544	1310075	9.31	317	3-	70-L	994	900	658	156	1318	59	85	0.00	0.72	0
1310076	OC400544	11.13	317	3-	336.4 ACSR	855	774	560	152	1318	59	11	0.65	1.36	563
1310110	1310076	11.19	55	1-	4 ACSR	0	0	554	152	296	40	29	0.11	1.47	28
OC400545	1310110	11.19	54	1-	REC_35_UNK	0	0	554	152	295	40	114	0.00	1.47	0
1310108	OC400545	13.19	54	1-	4 ACSR	0	0	409	135	295	40	29	1.79	3.26	309
1310079	1310076	12.22	228	3-	336.4 ACSR	788	714	514	150	863	39	7	0.26	1.62	148
1310080	1310079	12.45	203	3-	3/0 ACSR	770	698	502	149	773	35	12	0.09	1.71	53
RG400007	1310080	12.45	191	3-	219	770	698	502	149	724	32	15	-1.71	0.00	0
1310081	RG400007	13.30	191	3-	3/0 ACSR	712	647	464	146	724	32	11	0.27	0.27	136
1310089	1310081	13.30	0	1-	4 ACSR	0	0	464	146	0	0	0	0.00	0.27	0
SW400744-A	1310089	13.30	0	1-	Open	0	0	464	146	0	0	0	0.00	0.27	0
1310082	1310081	13.68	123	3-	3/0 ACSR	689	626	449	145	501	22	7	0.09	0.36	36
1309052	1310082	13.68	113	2-	3/0 ACSR	0	626	449	145	470	31	11	0.00	0.37	0
SW400410-A	1309052	13.68	0	2-	Closed	0	626	449	145	0	0	0	0.00	0.37	0
SW400410-B	SW400410-A	13.68	0	2-	Closed	0	626	449	145	0	0	0	0.00	0.37	0
OC400546	1309052	13.68	113	2-	REC_25_UNK	0	626	449	145	470	31	127	0.00	0.37	0
1309053	OC400546	13.70	113	2-	3/0 ACSR	0	624	448	145	470	31	11	0.01	0.37	3
1309036	1309053	13.74	97	1-	6 ACWC	0	0	446	144	398	53	38	0.10	0.47	34
OC400547	1309036	13.74	90	1-	50-H	0	0	446	144	373	50	100	0.00	0.47	0
1309037	OC400547	14.18	90	1-	6 ACWC	0	0	421	141	373	50	36	0.93	1.40	292
1309038	1309037	15.74	84	1-	6 ACWC	0	0	348	130	339	46	33	2.67	4.07	705
1309032	1309038	16.89	46	1-	6 ACWC	0	0	306	122	188	26	19	1.16	5.23	177
OC400548	1309032	16.89	36	1-	25-H	0	0	306	122	137	19	77	0.00	5.23	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1309033	OC400548	18.47	36 1-	6 ACWC	0	0	262	114	137	19	14	0.73	5.96	63
1309051	1309033	18.87	5 1-	4 ACSR	0	0	253	112	12	1	1	0.01	5.97	0
1309039	1309038	16.47	9 1-	6 ACWC	0	0	321	125	36	4	4	0.12	4.19	3
1309031	1309039	16.73	0 1-	6 ACWC	0	0	312	123	0	0	0	0.00	4.19	0
SW400742-B	1309031	16.73	0 1-	Open	0	0	312	123	0	0	0	0.00	4.19	0
1309040	1309039	17.03	5 1-	4 ACSR	0	0	302	121	16	2	2	0.03	4.22	0
SW400743-B	1309037	14.18	0 1-	Open	0	0	421	141	0	0	0	0.00	1.40	0
1310116	1309053	14.20	15 1-	6 ACWC	0	0	420	141	69	9	7	0.12	0.49	5
1310088	1310116	14.54	3 1-	4 ACSR	0	0	402	138	12	1	1	0.01	0.51	0
SW400744-B	1310088	14.54	0 1-	Open	0	0	402	138	0	0	0	0.00	0.51	0
1310109	1310081	13.66	6 1-	4 ACSR	0	0	442	143	23	3	2	0.03	0.30	0
SW401081-B	1310079	12.22	0 3-	Open	788	714	514	150	0	0	0	0.00	1.62	0
1310087	1310078	9.44	1 1-	4 ACSR	0	0	640	155	6	0	1	0.00	0.71	0
1310056	1310078	9.31	84 1-	2 ACSR	0	0	656	156	407	54	30	0.05	0.76	18
1310057	1310056	9.32	82 1-	4 ACSR	0	0	656	156	404	54	39	0.01	0.77	5
OC400541	1310057	9.32	82 1-	REC_35_UNK	0	0	656	156	404	54	156	0.00	0.77	0
1310058	OC400541	9.87	82 1-	4 ACSR	0	0	591	151	404	54	39	1.23	2.00	409
1309066	1310058	13.11	70 1-	6 ACWC	0	0	360	127	335	45	33	3.27	5.27	643
SW400743-A	1309066	13.11	0 1-	Open	0	0	360	127	0	0	0	0.00	5.27	0
1409068	1409067	6.69	254 3-	1/0 ACSR	1294	1173	876	162	1051	50	22	0.07	8.56	66
OC400551	1409068	6.69	254 3-	REC_70_UNK	1294	1173	876	162	1050	50	72	0.00	8.56	0
1409069	OC400551	7.30	254 3-	1/0 ACSR	1160	1057	783	159	1050	50	22	0.52	9.08	477
RG400010	1409069	7.30	245 3-	219	1160	1057	783	159	1023	49	23	-9.08	0.00	0
1409070	RG400010	7.31	245 3-	1/0 ACSR	1158	1055	782	159	1023	45	20	0.01	0.01	5
SW400413-B	1409070	7.31	245 3-	Closed	1158	1055	782	159	1023	45	0	0.00	0.01	0
SW400413-A	SW400413-B	7.31	245 3-	Closed	1158	1055	782	159	1023	45	0	0.00	0.01	0
1409056	SW400413-A	7.41	245 3-	1/0 ACSR	1138	1038	768	158	1023	45	20	0.08	0.08	65
1409057	1409056	7.73	202 3-	1/0 ACSR	1080	987	728	157	810	36	16	0.20	0.28	128
1409058	1409057	8.23	164 3-	1/0 ACSR	1000	916	673	154	689	30	13	0.26	0.54	144
RG400013	1409058	8.23	162 3-	219	1000	916	673	154	669	30	14	-0.54	0.00	0
1309067	RG400013	9.11	162 3-	1/0 ACSR	882	812	593	150	669	29	13	0.44	0.44	235
1309054	1309067	9.80	143 3-	1/0 ACSR	806	745	543	147	613	27	12	0.31	0.75	155
OC400556	1309054	9.80	135 3-	35-H	806	745	543	147	580	26	75	0.00	0.75	0
1309055	OC400556	9.94	135 3-	1/0 ACSR	793	732	533	146	580	26	11	0.06	0.81	29
1309048	1309055	10.60	108 2-	1/0 ACSR	0	676	495	144	491	33	14	0.40	1.21	154
1309057	1309048	11.15	35 1-	4 ACSR	0	0	454	139	158	21	15	0.47	1.68	60
1309058	1309057	12.21	29 1-	6 ACWC	0	0	391	132	124	16	12	0.39	2.08	29
1309042	1309048	11.16	60 1-	4 ACSR	0	0	454	139	280	37	27	0.89	2.11	211
1309043	1309042	12.24	54 1-	6 ACWC	0	0	389	132	250	34	24	1.49	3.59	306
1309045	1309043	14.17	40 1-	6 ACWC	0	0	308	120	198	27	20	1.44	5.03	189
1309046	1309045	14.37	7 1-	2 ACSR	0	0	303	119	47	6	4	0.03	5.06	0
1309047	1309046	14.50	4 1-	4 ACSR	0	0	299	118	18	2	2	0.01	5.06	0
1309044	1309043	12.51	2 1-	6 ACWC	0	0	376	130	2	0	0	0.00	3.59	0
SW400742-A	1309044	12.51	0 1-	Open	0	0	376	130	0	0	0	0.00	3.59	0
1309056	1309055	9.95	19 3-	1/0 ACSR	791	731	532	146	69	3	1	0.00	0.81	0
1309060	1309056	11.56	19 1-	6 ACWC	0	0	415	134	69	9	7	0.33	1.14	13
1309041	1309067	9.96	8 1-	4 ACSR	0	0	509	143	20	2	2	0.05	0.49	0
1409044	1409057	7.74	31 1-	4 ACSR	0	0	727	157	100	13	10	0.00	0.28	0
OC400553	1409044	7.74	31 1-	REC_35_UNK	0	0	727	157	100	13	38	0.00	0.28	0
1409045	OC400553	10.90	31 1-	4 ACSR	0	0	408	131	100	10	10	0.98	1.27	58
1409046	1409045	10.94	1 1-	2 ACSR	0	0	406	131	4	0	0	0.00	1.27	0
1409075	1409056	7.62	41 1-	6 ACWC	0	0	732	156	188	25	18	0.23	0.32	38

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
OC400552	1409075	7.62	39 1-	REC_35_UNK	0	0	732	156	181	24 70	0.00	0.32	0	
1309068	OC400552	9.36	39 1-	6 ACWC	0	0	516	141	181	24 17	0.94	1.25	98	
CKT 104 total losses:		\$38,155												
SUB 23, CKT 114	SINI_114													
1409053	SINI_114	0.00	808 3-	SBS_99_UNK	5842	6135	6193	176	2983	132 0	0.00	0.00	0	
1409054	1409053	1.63	700 3-	336.4 ACSR	3184	2985	2603	173	2607	115 22	0.42	1.09	893	
1409064	1409054	2.03	515 3-	1/0 ACSR	2711	2507	2129	171	2025	90 39	0.54	1.63	1002	
1509103	1409064	2.32	422 3-	1/0 ACSR	2433	2251	1871	170	1612	72 31	0.30	1.94	460	
1509070	1509103	3.49	409 3-	1/0 ACSR	1707	1588	1253	164	1563	71 31	1.40	3.34	1807	
1509071	1509070	4.16	348 3-	1/0 ACSR	1451	1353	1051	161	1313	60 26	0.68	4.01	738	
RG400015	1509071	4.16	333 3-	219	1451	1353	1051	161	1267	58 27	-4.01	0.00	0	
1509068	RG400015	4.72	333 3-	1/0 ACSR	1285	1201	923	158	1267	56 25	0.54	0.54	563	
1509081	1509068	4.73	18 1-	4 ACSR	0	0	922	158	70	9 7	0.00	0.55	0	
OC400619	1509081	4.73	18 1-	REC_35_UNK	0	0	922	158	70	9 27	0.00	0.55	0	
1509082	OC400619	4.73	18 1-	4 ACSR	0	0	920	158	70	9 7	0.00	0.55	0	
1509083	1509082	5.95	18 1-	6 ACWC	0	0	666	147	70	9 7	0.30	0.85	14	
1509096	1509083	6.34	5 1-	4 ACSR	0	0	609	144	14	1 1	0.02	0.87	0	
1509069	1509068	5.09	313 3-	1/0 ACSR	1197	1120	857	156	1178	52 23	0.32	0.87	309	
OC400622	1509069	5.09	307 3-	REC_70_UNK	1197	1120	857	156	1146	51 74	0.00	0.87	0	
1509072	OC400622	5.45	307 3-	1/0 ACSR	1122	1050	800	155	1146	51 22	0.30	1.17	276	
1509073	1509072	6.22	202 3-	1/0 ACSR	986	925	699	151	797	36 16	0.47	1.63	305	
1509084	1509073	6.24	64 1-	4 ACSR	0	0	696	151	240	32 23	0.02	1.65	4	
1509097	1509084	6.24	64 1-	6 ACWC	0	0	696	151	240	32 23	0.01	1.66	2	
OC400624	1509097	6.24	64 1-	REC_35_UNK	0	0	696	151	240	32 93	0.00	1.66	0	
1508068	OC400624	7.98	64 1-	6 ACWC	0	0	490	137	240	32 23	1.71	3.38	285	
1508060	1508068	9.10	21 1-	6 ACWC	0	0	409	129	77	10 8	0.27	3.64	12	
1508061	1508060	9.19	1 1-	4 ACSR	0	0	404	129	1	0 0	0.00	3.64	0	
1508058	1508068	8.08	4 1-	6 ACWC	0	0	481	136	11	1 1	0.01	3.38	0	
1508059	1508058	9.55	3 1-	4 ACSR	0	0	382	126	7	0 1	0.03	3.41	0	
1509074	1509073	7.86	129 3-	1/0 ACSR	784	739	557	144	530	24 10	0.61	2.25	256	
OC450325	1509074	7.86	108 3-	REC_35_UNK	784	739	557	144	444	20 58	0.00	2.25	0	
1508038	OC450325	7.93	108 3-	1/0 ACSR	778	733	552	144	444	20 9	0.02	2.27	8	
1608024	1508038	8.22	59 1-	8 ACWC	0	0	514	141	233	31 32	0.61	2.87	126	
1608014	1608024	8.31	11 1-	6 ACWC	0	0	406	140	40	5 4	0.02	2.90	0	
1608023	1608014	9.12	10 1-	8 ACWC	0	0	425	132	38	5 5	0.14	3.03	3	
1608018	1608024	9.34	44 1-	8 ACWC	0	0	404	129	180	24 25	1.71	4.59	270	
1608011	1608018	9.62	36 1-	6 ACWC	0	0	388	127	158	21 16	0.24	4.83	32	
1608012	1608011	10.15	28 1-	4 ACSR	0	0	361	124	122	16 12	0.29	5.12	26	
1608013	1608012	10.35	13 1-	6 ACWC	0	0	351	123	57	7 6	0.07	5.19	3	
1608015	1608013	10.60	10 1-	4 ACSR	0	0	340	121	52	7 5	0.06	5.25	2	
1609058	1608015	12.31	5 1-	4 ACSR	0	0	280	112	26	3 3	0.14	5.39	2	
1608016	1608015	10.65	1 1-	4 ACSR	0	0	338	121	2	0 0	0.00	5.25	0	
1608022	1508038	8.25	48 1-	8 ACWC	0	0	511	140	209	28 28	0.57	2.84	104	
OC400626	1608022	8.25	43 1-	25-H	0	0	511	140	184	25 101	0.00	2.84	0	
1609057	OC400626	9.32	43 1-	8 ACWC	0	0	406	129	184	25 25	1.30	4.14	179	
1609042	1609057	9.61	19 1-	4 ACSR	0	0	389	127	86	11 8	0.09	4.23	5	
1609043	1609042	10.52	3 1-	8 ACWC	0	0	331	120	15	2 2	0.06	4.29	0	
1509087	1509072	5.53	85 1-	4 ACSR	0	0	782	154	251	33 24	0.13	1.29	27	
OC400623	1509087	5.53	82 1-	REC_99_UNK	0	0	782	154	243	32 0	0.00	1.29	0	
1509085	OC400623	6.50	82 1-	4 ACSR	0	0	619	145	243	32 24	1.34	2.63	271	

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 23, CKT 134														
SINI_134	SINI_134	0.00	441 3-	SBS_99_UNK	5842	6135	6193	176	1866	82	0	0.00	0.00	0
1408099	SINI_134	2.47	441 3-	336.4 ACSR	2573	2373	1932	171	1866	82	16	0.99	0.99	1550
1408054	1408099	3.17	409 3-	336.4 ACSR	2214	2027	1612	170	1716	76	14	0.25	1.24	389
OC400697	1408054	3.17	399 3-	REC_100_UNK	2214	2027	1612	170	1673	74	75	0.00	1.24	0
1408055	OC400697	5.22	399 3-	336.4 ACSR	1572	1430	1104	166	1673	74	14	0.70	1.95	1073
1408086	1408055	5.23	0 1-	4 ACSR	0	0	1102	165	0	0	0	0.00	1.95	0
SW400749-A	1408086	5.23	0 1-	Open	0	0	1102	165	0	0	0	0.00	1.95	0
1408056	1408055	7.28	382 3-	336.4 ACSR	1216	1108	838	161	1608	72	14	0.65	2.60	1007
RG400018	1408056	7.28	369 3-	219	1216	1108	838	161	1545	69	32	-2.60	0.00	0
1408057	RG400018	7.47	369 3-	336.4 ACSR	1192	1086	821	161	1545	68	13	0.05	0.05	78
1408069	1408057	7.83	22 1-	8 ACWC	0	0	739	156	86	11	11	0.26	0.31	19
OC400698	1408069	7.83	17 1-	REC_50_UNK	0	0	739	156	76	10	21	0.00	0.31	0
1408070	OC400698	7.99	17 1-	8 ACWC	0	0	705	154	76	10	10	0.10	0.41	7
1408071	1408070	8.58	14 1-	8 ACWC	0	0	599	146	71	9	10	0.36	0.78	23
1408072	1408071	9.53	14 1-	6 ACWC	0	0	500	139	70	9	7	0.20	0.98	8
SW400752-B	1408070	7.99	0 1-	Open	0	0	705	154	0	0	0	0.00	0.41	0
1408058	1408057	7.47	325 3-	1/0 ACSR	1191	1085	820	161	1354	59	26	0.00	0.06	6
SW400661-B	1408058	7.47	325 3-	Closed	1191	1085	820	161	1354	59	0	0.00	0.06	0
SW400661-A	SW400661-B	7.47	325 3-	Closed	1191	1085	820	161	1354	59	0	0.00	0.06	0
1408059	SW400661-A	7.57	325 3-	1/0 ACSR	1172	1068	806	160	1354	59	26	0.08	0.14	105
1408060	1408059	7.64	325 3-	3/0 ACSR	1159	1057	797	160	1353	59	20	0.04	0.17	52
1407040	1408060	9.84	322 3-	1/0 ACSR	840	775	572	150	1352	59	26	1.77	1.95	2324
1407030	1407040	10.22	204 3-	1/0 ACSR	801	740	545	148	828	37	16	0.16	2.11	164
1407028	1407030	11.23	201 3-	1/0 ACSR	712	660	484	143	805	36	16	0.59	2.70	380
1407024	1407028	11.42	39 1-	2 ACSR	0	0	473	142	160	21	12	0.13	2.83	18
OC400704	1407024	11.42	39 1-	REC_99_UNK	0	0	473	142	160	21	0	0.00	2.83	0
1407025	OC400704	11.51	39 1-	2 ACSR	0	0	467	142	160	21	12	0.06	2.88	8
1407020	1407025	11.82	37 1-	4 ACSR	0	0	446	139	150	20	15	0.22	3.11	26
1407021	1407020	12.66	22 1-	6 ACWC	0	0	397	133	88	12	9	0.26	3.37	14
1407022	1407021	13.17	5 1-	4 ACSR	0	0	371	130	13	1	1	0.02	3.39	0
1407029	1407028	11.29	136 3-	2 ACSR	707	655	481	143	545	24	14	0.04	2.73	18
OC400703	1407029	11.29	136 3-	REC_50_UNK	707	655	481	143	545	24	50	0.00	2.73	0
1407026	OC400703	13.54	136 3-	2 ACSR	539	508	373	131	545	24	14	1.24	3.98	549
1407023	1407026	14.78	8 1-	4 ACSR	0	0	322	123	46	6	5	0.17	4.15	5
1407027	1407026	14.03	88 3-	2 ACSR	512	483	356	129	355	16	9	0.19	4.16	56
1407034	1407027	14.04	61 1-	4 ACSR	0	0	356	129	237	32	23	0.01	4.17	2
OC400705	1407034	14.04	61 1-	REC_25_UNK	0	0	356	129	237	32	131	0.00	4.17	0
1407035	OC400705	14.34	61 1-	4 ACSR	0	0	343	127	237	32	23	0.38	4.55	74
1407036	1407035	14.95	49 1-	2 ACSR	0	0	325	124	173	24	13	0.28	4.84	32
1407037	1407036	15.16	23 1-	4 ACSR	0	0	317	123	44	6	4	0.03	4.86	0
1307011	1407027	15.39	13 1-	2 ACSR	0	0	315	123	60	8	5	0.17	4.34	6
CA400009	1407030	10.22	0 3-	Capacitor	801	740	545	148	0	-14	0	0.00	2.11	0
1407033	1407040	9.86	92 1-	6 ACWC	0	0	570	149	428	58	42	0.05	2.00	20
OC400699	1407033	9.86	92 1-	REC_50_UNK	0	0	570	149	428	58	117	0.00	2.00	0
1307012	OC400699	11.52	92 1-	6 ACWC	0	0	436	136	428	58	42	3.51	5.51	1166
1307005	1307012	11.74	47 1-	6 ACWC	0	0	421	135	248	34	25	0.33	5.84	71
OC400700	1307005	11.74	41 1-	REC_25_UNK	0	0	421	135	221	31	124	0.00	5.84	0
1307006	OC400700	13.88	41 1-	6 ACWC	0	0	320	121	221	31	22	1.47	7.31	197
1307007	1307006	14.26	1 1-	2 ACSR	0	0	310	119	0	0	0	0.00	7.31	0
1307008	1307012	12.46	6 1-	6 ACWC	0	0	381	130	21	2	2	0.06	5.58	0
1308014	1307008	12.94	1 1-	2 ACSR	0	0	363	128	1	0	0	0.00	5.58	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1408085	1408099	2.53	8 1-	6 ACWC	0	0	1876	171	35	4	3	0.01	1.00	0
OC400694	1408085	2.53	7 1-	REC_50_UNK	0	0	1876	171	31	4	8	0.00	1.00	0
1408083	OC400694	3.33	7 1-	6 ACWC	0	0	1276	162	31	4	3	0.09	1.09	2
1408084	1408083	3.58	1 1-	4 ACSR	0	0	1151	160	8	1	1	0.01	1.10	0
CKT 134 total losses:		\$9,449												
SUB 23, CKT 144														
SINI_144	SINI_144	0.00	386 3-	SBS_99_UNK	5842	6135	6193	176	1483	66	0	0.00	0.00	0
1409050	SINI_144	1.53	386 3-	2 ACSR	2239	2151	1814	165	1483	66	37	2.56	2.56	3262
1409081	1409050	1.60	29 1-	6 ACWC	0	0	1735	165	107	14	10	0.05	2.61	4
OC400731	1409081	1.60	29 1-	REC_70_UNK	0	0	1735	165	107	14	21	0.00	2.61	0
1408102	OC400731	3.13	29 1-	6 ACWC	0	0	882	151	107	14	10	0.58	3.19	40
1408089	1408102	3.31	5 1-	4 ACSR	0	0	832	149	18	2	2	0.02	3.21	0
1408090	1408089	3.71	4 1-	2 ACSR	0	0	761	147	13	1	1	0.01	3.22	0
1409047	1409050	2.42	346 3-	2 ACSR	1581	1530	1251	159	1316	60	33	1.32	3.88	1488
1408098	1409047	3.49	104 3-	2 ACSR	1164	1133	910	153	424	19	11	0.53	4.41	199
1408051	1408098	3.50	103 3-	4 ACSR	1162	1131	908	153	414	19	14	0.00	4.41	2
OC400738	1408051	3.50	103 3-	50-H	1162	1131	908	153	414	19	38	0.00	4.41	0
1408052	OC400738	3.57	103 3-	4 ACSR	1135	1106	888	152	414	19	14	0.05	4.46	20
1408053	1408052	3.60	103 3-	2 ACSR	1124	1096	879	152	414	19	11	0.02	4.48	7
1309070	1408053	5.98	44 1-	6 ACWC	0	0	497	134	161	22	16	1.17	5.65	113
1408068	1408053	4.49	3 1-	4 ACSR	0	0	682	145	8	1	1	0.02	4.50	0
SW400753-B	1408068	4.49	0 1-	Open	0	0	682	145	0	0	0	0.00	4.50	0
1308022	1408053	6.88	56 1-	6 ACWC	0	0	426	128	246	34	24	2.94	7.42	474
1309034	1308022	7.36	5 1-	4 ACSR	0	0	395	125	28	4	3	0.07	7.49	1
1309035	1309034	7.50	2 1-	2 ACSR	0	0	389	124	14	2	1	0.00	7.49	0
1309049	1308022	7.12	3 1-	6 ACWC	0	0	410	126	17	2	2	0.01	7.44	0
1309050	1309049	7.21	0 1-	4 ACSR	0	0	404	126	0	0	0	0.00	7.44	0
1408097	1409047	2.95	205 3-	3/0 ACSR	1431	1379	1110	158	772	35	12	0.21	4.09	130
OC400734	1408097	2.95	202 3-	REC_50_UNK	1431	1379	1110	158	763	35	71	0.00	4.09	0
1408048	OC400734	3.57	202 3-	3/0 ACSR	1286	1234	970	156	763	35	12	0.25	4.34	149
1408066	1408048	3.87	4 1-	6 ACWC	0	0	877	153	11	1	1	0.01	4.35	0
1408067	1408066	4.09	0 1-	4 ACSR	0	0	820	151	0	0	0	0.00	4.35	0
SW400753-A	1408067	4.09	0 1-	Open	0	0	820	151	0	0	0	0.00	4.35	0
1408049	1408048	4.68	195 3-	3/0 ACSR	1089	1038	803	152	740	34	11	0.42	4.76	243
1408082	1408049	4.68	52 1-	6 ACWC	0	0	801	152	170	23	17	0.01	4.77	0
OC400735	1408082	4.68	52 1-	REC_99_UNK	0	0	801	152	170	23	0	0.00	4.77	0
1408080	OC400735	5.09	50 1-	6 ACWC	0	0	719	149	165	22	16	0.40	5.17	57
1408081	1408080	5.44	47 1-	2 ACSR	0	0	671	147	151	21	12	0.21	5.38	26
1408062	1408081	6.72	40 1-	6 ACWC	0	0	513	137	125	17	12	0.77	6.15	75
1408064	1408062	7.46	10 1-	6 ACWC	0	0	450	132	45	6	5	0.11	6.26	3
1408065	1408064	7.65	1 1-	4 ACSR	0	0	436	131	4	0	0	0.00	6.27	0
1408063	1408062	7.15	7 1-	6 ACWC	0	0	474	134	26	3	3	0.03	6.18	0
SW400752-A	1408063	7.15	0 1-	Open	0	0	474	134	0	0	0	0.00	6.18	0
1408079	OC400735	4.69	2 1-	2 ACSR	0	0	800	152	5	0	0	0.00	4.77	0
1408050	1408049	6.05	132 3-	3/0 ACSR	914	868	661	148	526	24	8	0.36	5.12	142
1308011	1408050	6.89	101 3-	3/0 ACSR	833	789	597	145	412	19	6	0.16	5.28	49
1308012	1308011	7.02	13 1-	6 ACWC	0	0	581	144	45	6	5	0.04	5.32	1
OC400740	1308012	7.02	12 1-	25-H	0	0	581	144	42	5	23	0.00	5.32	0
1308013	OC400740	8.45	12 1-	6 ACWC	0	0	449	134	42	5	4	0.18	5.50	5
1308017	1308011	6.97	66 1-	6 ACWC	0	0	586	145	269	37	27	0.15	5.43	35
OC400739	1308017	6.97	65 1-	25-H	0	0	586	145	264	37	148	0.00	5.43	0

LINE	PRIOR	MILES	PHS	WIRE	MX 3P	MX LIG	MX LG	MN LG	TOTAL	EQUIV	%	LINE	TOTAL	LINE
SECT	SECT	CONS		CONSTR-N	FAULT	FAULT	FAULT	FAULT	KW	AMPS	CAP	DROP	DROP	LOSS
SUB 24 VAN_ARSDELL		2272			5800	6261	6209	176	11617					
SUB 24, CKT 104														
VANA_104	VAN_ARSDELL	0.00	0 3-	SBS_99_UNK	5800	6261	6209	176	0	0	0	0.00	0.00	0
1510072	VANA_104	0.01	0 3-	3/0 ACSR	5764	6194	6145	176	0	0	0	0.00	0.00	0
1510073	1510072	0.03	0 3-	3/0 ACSR	5684	6051	6005	176	0	0	0	0.00	0.00	0
1510098	1510073	0.03	0 3-	1/0 URD PRI AL	5678	6041	5998	464	0	0	0	0.00	0.00	0
SW450002-B	1510073	0.03	0 3-	Open	5684	6051	6005	176	0	0	0	0.00	0.00	0
SW450287-B	1510072	0.01	0 3-	Open	5764	6194	6145	176	0	0	0	0.00	0.00	0
CKT 104 total losses:		\$0												
SUB 24, CKT 114														
VANA_114	VAN_ARSDELL	0.00	772 3-	SBS_99_UNK	5800	6261	6209	176	3837	173	0	0.00	0.00	0
1510065	VANA_114	0.02	772 3-	336.4 ACSR	5740	6156	6103	176	3837	173	33	0.02	0.02	61
1510060	1510065	0.03	0 3-	336.4 ACSR	5720	6122	6069	176	0	0	0	0.00	0.02	0
SW450287-A	1510060	0.03	0 3-	Open	5720	6122	6069	176	0	0	0	0.00	0.02	0
1511095	1510065	1.97	772 3-	336.4 ACSR	2878	2659	2242	172	3837	173	33	2.20	2.22	5514
1511078	1511095	4.14	732 3-	336.4 ACSR	1841	1681	1309	167	3565	162	31	2.24	4.46	5461
1611037	1511078	4.94	302 3-	3/0 ACSR	1556	1423	1091	164	1588	73	25	0.66	5.12	829
OC450110	1611037	4.94	293 3-	70-L	1556	1423	1091	164	1541	71	103	0.00	5.12	0
1611038	OC450110	6.59	293 3-	3/0 ACSR	1177	1078	811	159	1541	71	24	1.19	6.31	1365
1611039	1611038	6.82	234 3-	1/0 ACSR	1130	1037	777	157	1185	55	24	0.22	6.54	229
1611026	1611039	6.96	47 1-	2 ACSR	0	0	756	157	240	33	19	0.14	6.67	29
OC450104	1611026	6.96	44 1-	35-H	0	0	756	157	222	31	90	0.00	6.67	0
1611027	OC450104	8.05	44 1-	2 ACSR	0	0	624	150	222	31	17	0.81	7.49	137
1611028	1611027	8.91	20 1-	4 ACSR	0	0	527	142	126	17	13	0.38	7.87	31
1612050	1611028	9.10	2 1-	4 ACSR	0	0	510	141	8	1	1	0.01	7.87	0
SW450288-B	1612050	9.10	0 1-	Open	0	0	510	141	0	0	0	0.00	7.87	0
1611029	1611028	9.33	2 1-	4 ACSR	0	0	490	139	5	0	0	0.01	7.88	0
1611040	1611039	8.15	187 3-	1/0 ACSR	920	850	629	151	943	44	19	0.96	7.49	770
1611045	1611040	8.15	52 1-	4 ACSR	0	0	629	151	244	34	25	0.01	7.50	2
OC450103	1611045	8.15	52 1-	50-H	0	0	629	151	244	34	70	0.00	7.50	0
1611046	OC450103	11.74	52 1-	4 ACSR	0	0	352	125	244	34	25	2.78	10.28	417
1611041	1611040	8.70	118 3-	1/0 ACSR	853	789	583	149	633	30	13	0.27	7.76	146
1611031	1611041	8.71	107 2-	1/0 ACSR	0	789	582	149	585	41	18	0.00	7.77	2
OC450102	1611031	8.71	107 2-	REC_50_UNK	0	789	582	149	585	41	83	0.00	7.77	0
1711063	OC450102	8.88	107 2-	1/0 ACSR	0	771	570	148	585	41	18	0.13	7.90	67
1711031	1711063	9.09	16 1-	4 ACSR	0	0	548	146	92	13	9	0.11	8.01	9
1711032	1711031	9.62	13 1-	6 ACWC	0	0	500	142	72	10	7	0.16	8.17	8
1711033	1711032	10.45	5 1-	4 ACSR	0	0	438	136	25	3	3	0.07	8.24	0
1711034	1711063	8.95	91 2-	1/0 ACSR	0	764	565	148	493	35	15	0.05	7.95	20
1711047	1711034	10.54	91 1-	4 ACSR	0	0	433	135	492	70	50	2.77	10.72	890
1711048	1711047	11.03	11 1-	6 ACWC	0	0	404	132	54	7	6	0.08	10.80	3
1611042	1511078	5.13	410 3-	336.4 ACSR	1582	1441	1101	165	1816	84	16	0.50	4.96	652
1611043	1611042	5.45	128 3-	4 ACSR	1423	1315	994	162	594	27	20	0.34	5.31	187
OC450113	1611043	5.45	123 3-	70-L	1423	1315	994	162	567	26	38	0.00	5.31	0
1611044	OC450113	8.02	123 3-	4 ACSR	710	693	530	140	567	26	19	1.86	7.17	793
1612037	1611044	8.46	57 3-	4 ACSR	650	637	489	136	229	10	8	0.18	7.35	39
1612033	1612037	8.56	10 3-	4 ACSR	638	625	481	136	41	1	1	0.01	7.36	0
1612039	1612033	8.57	8 1-	4 ACSR	0	0	480	136	33	4	3	0.00	7.36	0
OC450105	1612039	8.57	8 1-	REC_50_UNK	0	0	480	136	33	4	9	0.00	7.36	0
1612040	OC450105	8.96	8 1-	4 ACSR	0	0	449	133	33	4	3	0.04	7.40	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1612029	1612033	8.64	2 1-	4 ACSR	0		474	135	8	1	1	0.00	7.36	0
1612034	1612037	8.47	45 3-	1/0 ACSR	650	637	489	136	184	8	4	0.00	7.35	0
OC450107	1612034	8.47	45 3-	REC_50_UNK	650	637	489	136	184	8	17	0.00	7.35	0
1612035	OC450107	8.53	45 3-	1/0 ACSR	645	632	485	136	184	8	4	0.01	7.36	2
RG450000	1612035	8.53	44 3-	219	645	632	485	136	183	8	4	-7.36	0.00	0
1612031	RG450000	9.71	44 3-	1/0 ACSR	575	561	428	132	183	8	4	0.15	0.15	-22
1612032	1612031	10.16	2 3-	1/0 ACSR	552	539	410	130	8	0	0	0.00	0.15	0
1612054	1612032	13.12	0 1-	2 ACSR	0	0	306	118	0	0	0	0.00	0.15	0
1612055	1612054	13.94	0 1-	6 ACWC	0	0	280	113	0	0	0	0.00	0.15	0
1613083	1612055	15.02	0 1-	2 ACSR	0	0	258	110	0	0	0	0.00	0.15	0
1612053	1612032	10.98	0 3-	1/0 ACSR	515	501	380	128	5	0	0	0.00	0.16	0
1612045	1612053	10.98	0 3-	1/0 URD PRI AL	515	501	380	221	0	0	0	0.00	0.16	0
SW450008-A	1612045	10.98	0 3-	Closed	515	501	380	221	0	0	0	0.00	0.16	0
SW450008-B	SW450008-A	10.98	0 3-	Closed	515	501	380	221	0	0	0	0.00	0.16	0
1612046	SW450008-B	11.09	0 3-	1/0 URD PRI AL	510	497	377	220	0	0	0	0.00	0.16	0
1612025	1612031	9.72	36 1-	4 ACSR	0	0	427	132	154	20	15	0.01	0.16	0
OC450118	1612025	9.72	36 1-	REC_25_UNK	0	0	427	132	154	20	83	0.00	0.16	0
1612026	OC450118	9.88	36 1-	4 ACSR	0	0	417	131	154	20	15	0.14	0.30	18
1612027	1612026	11.27	33 1-	6 ACWC	0	0	345	122	140	18	13	0.57	0.87	47
1612024	1611044	8.03	0 1-	4 ACSR	0	0	530	140	0	0	0	0.00	7.17	0
SW450288-A	1612024	8.03	0 1-	Open	0	0	530	140	0	0	0	0.00	7.17	0
1611033	1611042	5.22	265 3-	336.4 ACSR	1561	1423	1085	165	1132	52	10	0.03	4.99	24
1611034	1611033	5.27	208 3-	3/0 ACSR	1546	1409	1073	165	896	41	14	0.02	5.02	18
OC450116	1611034	5.27	208 3-	70-L	1546	1409	1073	165	896	41	60	0.00	5.02	0
1611035	OC450116	5.50	208 3-	3/0 ACSR	1482	1351	1026	164	896	41	14	0.10	5.12	73
RG450001	1611035	5.50	201 3-	219	1482	1351	1026	164	852	39	18	-5.12	0.00	0
1612052	RG450001	7.00	201 3-	3/0 ACSR	1159	1059	792	159	852	38	13	0.59	0.59	369
1612030	1612052	9.51	164 3-	3/0 ACSR	846	776	572	150	672	30	10	0.78	1.38	389
1512034	1612030	9.98	137 3-	1/0 ACSR	798	733	540	148	560	25	11	0.20	1.57	92
OC450121	1512034	9.98	133 3-	REC_50_UNK	798	733	540	148	552	24	50	0.00	1.57	0
1512035	OC450121	10.63	133 3-	1/0 ACSR	739	682	502	145	552	24	11	0.26	1.84	119
1512029	1512035	10.64	27 1-	6 ACWC	0	0	501	145	149	20	14	0.01	1.84	0
OC450122	1512029	10.64	27 1-	REC_25_UNK	0	0	501	145	149	20	81	0.00	1.84	0
1512030	OC450122	11.73	27 1-	6 ACWC	0	0	425	137	149	20	14	0.51	2.35	45
1512031	1512030	11.78	3 1-	6 ACWC	0	0	423	136	6	0	1	0.00	2.35	0
1512032	1512031	11.84	2 1-	4 ACSR	0	0	419	136	4	0	0	0.00	2.35	0
1612051	1512035	13.24	101 3-	1/0 ACSR	569	529	390	135	371	16	7	0.46	2.30	108
1612036	1612051	13.35	26 3-	1/0 ACSR	563	525	386	134	89	4	2	0.01	2.30	0
1612038	1612036	14.80	24 1-	6 ACWC	0	0	325	125	79	10	8	0.34	2.65	16
1612044	1612051	13.54	3 1-	4 ACSR	0	0	375	133	6	0	1	0.01	2.30	0
1612042	1612052	7.19	9 1-	4 ACSR	0	0	756	157	36	4	3	0.03	0.62	0
1612043	1612042	8.10	6 1-	2 ACSR	0	0	642	151	8	1	1	0.01	0.63	0
1611024	1611033	5.23	55 1-	4 ACSR	0	0	1081	165	219	30	22	0.02	5.01	3
OC450117	1611024	5.23	55 1-	REC_35_UNK	0	0	1081	165	219	30	87	0.00	5.01	0
1511094	OC450117	7.33	55 1-	4 ACSR	0	0	618	146	219	30	22	1.62	6.63	229
1511054	1511094	8.19	15 1-	6 ACWC	0	0	520	139	30	4	3	0.11	6.74	2
1511055	1511054	8.29	5 1-	4 ACSR	0	0	511	138	11	1	1	0.00	6.74	0
1511052	1511095	1.98	16 1-	4 ACSR	0	0	2234	172	87	11	8	0.00	2.23	0
OC450100	1511052	1.98	16 1-	50-L	0	0	2234	172	87	11	24	0.00	2.23	0
1511053	OC450100	2.04	16 1-	4 ACSR	0	0	2142	171	87	11	8	0.03	2.26	3
1511050	1511053	3.28	15 1-	6 ACWC	0	0	1146	159	81	11	8	0.33	2.59	17
1511051	1511050	3.42	1 1-	4 ACSR	0	0	1082	157	8	1	1	0.00	2.60	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS	
CKT 114 total losses:		\$19,257													
SUB 24, CKT 124															
VANA_124	VAN_ARSDELL	0.00	395 3-	SBS_99_UNK	5800	6261	6209	176	2243	100	0	0.00	0.00	0	
1610083	VANA_124	2.26	395 3-	3/0 ACSR	2217	2056	1694	168	2243	100	34	2.54	2.54	4189	
1610049	1610083	3.38	346 3-	3/0 ACSR	1685	1559	1239	164	1977	90	30	1.15	3.69	1768	
1610050	1610049	3.43	338 3-	1/0 ACSR	1664	1540	1222	164	1933	89	39	0.07	3.76	121	
RG450006	1610050	3.43	338 3-	219	1664	1540	1222	164	1932	89	41	-3.76	0.00	0	
1610051	RG450006	3.43	338 3-	1/0 ACSR	1664	1540	1222	164	1932	86	38	0.00	0.00	3	
1610052	1610051	4.07	338 3-	3/0 ACSR	1463	1353	1059	162	1932	86	29	0.62	0.62	900	
1610073	1610052	4.14	23 1-	4 ACSR	0	0	1035	161	134	17	13	0.06	0.68	6	
OC450196	1610073	4.14	23 1-	50-H	0	0	1035	161	134	17	36	0.00	0.68	0	
1610074	OC450196	4.17	23 1-	4 ACSR	0	0	1025	161	134	17	13	0.02	0.70	3	
1610075	1610074	5.23	22 1-	6 ACWC	0	0	750	151	129	17	12	0.41	1.10	30	
1610076	1610075	5.79	0 1-	8 ACWC	0	0	627	144	0	0	0	0.00	1.10	0	
1610056	1610052	5.46	297 3-	3/0 ACSR	1162	1075	824	157	1681	75	25	1.13	1.75	1433	
1610054	1610056	5.76	216 3-	2 ACSR	1089	1011	771	155	1210	54	30	0.42	2.18	448	
SW450125-A	1610054	5.76	213 3-	Closed	1089	1011	771	155	1189	54	0	0.00	2.18	0	
SW450125-B	SW450125-A	5.76	213 3-	Closed	1089	1011	771	155	1189	54	0	0.00	2.18	0	
1610055	SW450125-B	6.74	213 3-	2 ACSR	901	847	639	149	1189	54	30	1.24	3.42	1247	
1710043	1610055	6.75	0 1-	4 ACSR	0	0	638	149	0	0	0	0.00	3.42	0	
SW450296-A	1710043	6.75	0 1-	Open	0	0	638	149	0	0	0	0.00	3.42	0	
1710051	1610055	7.47	184 3-	2 ACSR	796	753	565	144	1012	46	26	0.82	4.24	725	
1710052	1710051	8.53	155 3-	2 ACSR	679	646	483	139	864	39	22	1.00	5.24	742	
RG450009	1710052	8.53	134 3-	219	679	646	483	139	742	34	16	-5.24	0.00	0	
1711064	RG450009	8.57	134 3-	2 ACSR	675	643	481	138	742	33	18	0.03	0.03	20	
1711046	1711064	9.80	22 3-	3/0 ACSR	610	580	433	135	109	4	2	0.03	0.06	2	
SW450126-B	1711046	9.80	0 3-	Open	610	580	433	135	0	0	0	0.00	0.06	0	
1710077	1711064	9.02	111 3-	4 ACSR	622	595	447	135	621	27	20	0.47	0.51	261	
OC450202	1710077	9.02	108 3-	REC_50_UNK	622	595	447	135	599	26	54	0.00	0.51	0	
1710054	OC450202	10.77	108 3-	4 ACSR	471	458	349	124	599	26	19	1.71	2.21	878	
1710061	1710054	10.77	48 1-	4 ACSR	0	0	348	124	221	30	21	0.01	2.22	2	
OC450203	1710061	10.77	48 1-	REC_35_UNK	0	0	348	124	221	30	86	0.00	2.22	0	
1710062	OC450203	11.58	48 1-	4 ACSR	0	0	316	119	221	30	21	1.01	3.23	187	
1710078	1710062	12.56	21 1-	4 ACSR	0	0	283	114	121	16	12	0.36	3.59	26	
1711049	1710062	12.46	15 1-	4 ACSR	0	0	286	114	65	8	6	0.17	3.40	7	
1710055	1710054	10.91	45 3-	4 ACSR	461	449	342	123	291	13	9	0.06	2.27	12	
1710063	1710055	11.58	23 1-	4 ACSR	0	0	316	119	134	18	13	0.39	2.66	38	
1710064	1710063	11.66	9 1-	6 ACWC	0	0	313	118	59	8	6	0.02	2.69	1	
1710065	1710064	11.74	8 1-	4 ACSR	0	0	310	118	54	7	5	0.01	2.70	0	
SW450297-A	1710065	11.74	0 1-	Open	0	0	310	118	0	0	0	0.00	2.70	0	
1710045	1710051	7.48	10 1-	4 ACSR	0	0	564	144	63	8	6	0.00	4.25	0	
OC450199	1710045	7.48	10 1-	REC_25_UNK	0	0	564	144	63	8	35	0.00	4.25	0	
1710046	OC450199	7.88	10 1-	4 ACSR	0	0	523	141	63	8	6	0.15	4.39	8	
1610082	1710046	8.19	8 1-	6 ACWC	0	0	495	139	56	7	6	0.08	4.48	4	
1610044	1610082	8.64	5 1-	8 ACWC	0	0	448	134	30	4	4	0.08	4.56	2	
1610043	1610044	8.80	2 1-	4 ACSR	0	0	437	133	10	1	1	0.00	4.56	0	
1610045	1610056	5.54	49 1-	4 ACSR	0	0	806	156	289	39	28	0.15	1.90	37	
OC450197	1610045	5.54	48 1-	REC_50_UNK	0	0	806	156	278	37	75	0.00	1.90	0	
1610046	OC450197	6.58	48 1-	4 ACSR	0	0	628	147	278	37	27	1.49	3.39	331	
1610040	1610046	6.61	29 1-	4 ACSR	0	0	624	147	178	24	18	0.03	3.43	5	
OC450198	1610040	6.61	27 1-	REC_25_UNK	0	0	624	147	174	23	96	0.00	3.43	0	

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LIG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1610041	OC450198	8.33	27 1-	4 ACSR	0	0	451	134	174	23 17	0.93	4.35	96	
1610042	1610041	8.42	1 1-	2 ACSR	0	0	446	133	2	0 0	0.00	4.35	0	
1610047	1610046	6.91	4 1-	4 ACSR	0	0	585	144	18	2 2	0.02	3.41	0	
1610057	1610056	6.82	6 3-	4 ACSR	817	780	597	145	23	1 1	0.03	1.78	0	
1610065	1610083	2.32	11 1-	4 ACSR	0	0	1642	167	46	6 5	0.02	2.55	0	
1610066	1610065	2.32	11 1-	6 ACWC	0	0	1637	167	46	6 5	0.00	2.55	0	
OC450195	1610066	2.32	11 1-	REC_99_UNK	0	0	1637	167	46	6 0	0.00	2.55	0	
1610067	OC450195	3.58	11 1-	6 ACWC	0	0	965	155	46	6 5	0.21	2.77	6	
1610068	1610067	3.61	2 1-	2 ACSR	0	0	956	155	10	1 1	0.00	2.77	0	
CKT 124 total losses:		\$13,538												
SUB 24, CKT 134														
VANA_134	VAN_ARSDPELL	0.00	577 3-	SBS_99_UNK	5800	6261	6209	176	2843	125 0	0.00	0.00	0	
1510075	VANA_134	1.18	577 3-	3/0 ACSR	3178	2975	2623	172	2843	125 42	1.51	1.51	3614	
1510058	1510075	1.32	270 3-	2 ACSR	2953	2769	2404	171	1344	60 33	0.19	1.70	248	
OC450229	1510058	1.32	268 3-	REC_100_UNK	2953	2769	2404	171	1330	59 60	0.00	1.70	0	
1510059	OC450229	2.46	268 3-	2 ACSR	1792	1709	1390	163	1330	59 33	1.53	3.23	1966	
1510093	1510059	3.03	22 1-	4 ACSR	0	0	1087	157	148	20 15	0.46	3.69	57	
OC450233	1510093	3.03	17 1-	35-H	0	0	1087	157	119	16 47	0.00	3.69	0	
1510094	OC450233	3.06	17 1-	4 ACSR	0	0	1073	157	119	16 12	0.02	3.71	2	
1510096	1510094	3.27	2 1-	4 ACSR	0	0	992	155	12	1 1	0.01	3.72	0	
SW450294-B	1510096	3.27	0 1-	Open	0	0	992	155	0	0 0	0.00	3.72	0	
1510095	1510094	4.02	13 1-	4 ACSR	0	0	779	149	92	12 9	0.27	3.99	15	
1510077	1510059	3.66	238 3-	4 ACSR	1107	1085	872	152	1134	51 37	2.12	5.34	2345	
1510091	1510077	3.74	28 1-	4 ACSR	0	0	849	151	101	14 10	0.05	5.40	5	
OC450234	1510091	3.74	28 1-	50-H	0	0	849	151	101	14 28	0.00	5.40	0	
1510092	OC450234	5.39	28 1-	4 ACSR	0	0	558	138	101	14 10	0.51	5.91	31	
1510078	1510077	5.15	199 3-	4 ACSR	736	731	587	140	939	43 31	2.02	7.36	1895	
1510069	1510078	5.24	125 3-	1/0 ACSR	728	723	580	139	583	28 13	0.03	7.39	24	
OC450236	1510069	5.24	125 3-	50-H	728	723	580	139	583	28 58	0.00	7.39	0	
1510070	OC450236	6.59	125 3-	1/0 ACSR	630	622	491	135	583	28 13	0.32	7.71	308	
1510071	1510070	6.66	107 3-	1/0 ACSR	626	618	487	134	490	23 10	0.03	7.73	11	
1510088	1510071	6.66	44 1-	6 ACWC	0	0	487	134	233	33 24	0.01	7.74	2	
SW450225-A	1510088	6.66	44 1-	Closed	0	0	487	134	233	33 0	0.00	7.74	0	
SW450225-B	SW450225-A	6.66	44 1-	Closed	0	0	487	134	233	33 0	0.00	7.74	0	
1510089	SW450225-B	6.91	44 1-	6 ACWC	0	0	466	133	233	33 24	0.35	8.09	74	
RG450010	1510089	6.91	43 1-	0	0	0	466	133	222	31 64	-8.09	0.00	0	
1510090	RG450010	8.39	43 1-	6 ACWC	0	0	371	123	222	29 21	1.57	1.57	264	
1410070	1510090	8.78	24 1-	4 ACSR	0	0	352	121	136	18 13	0.28	1.85	31	
1410071	1410070	9.71	17 1-	4 ACSR	0	0	314	116	107	14 10	0.38	2.23	27	
1410072	1410071	10.01	3 1-	2 ACSR	0	0	306	115	28	3 2	0.02	2.25	0	
SW400406-B	1410070	8.78	0 1-	Open	0	0	352	121	0	0 0	0.00	1.85	0	
1510083	1510071	6.66	60 1-	1/0 ACSR	0	0	487	134	241	34 15	0.00	7.74	0	
SW450226-A	1510083	6.66	60 1-	Closed	0	0	487	134	241	34 0	0.00	7.74	0	
SW450226-B	SW450226-A	6.66	60 1-	Closed	0	0	487	134	241	34 0	0.00	7.74	0	
1510084	SW450226-B	9.69	60 1-	1/0 ACSR	0	0	367	125	241	34 15	1.09	8.83	150	
CA450002	1510070	6.59	0 3-	Capacitor	630	622	491	135	0	-13 0	0.00	7.71	0	
1510067	1510078	6.10	39 3-	4 ACSR	604	604	485	133	159	7 5	0.24	7.61	34	
1510062	1510067	6.16	16 2-	4 ACSR	0	598	480	133	55	3 3	0.01	7.62	0	
1510063	1510062	6.16	16 2-	1/0 ACSR	0	597	480	133	55	3 2	0.00	7.62	0	
OC450238	1510063	6.16	16 2-	35-H	0	597	480	133	55	3 11	0.00	7.62	0	
1509105	OC450238	8.23	16 2-	1/0 ACSR	0	493	391	126	55	3 2	0.08	7.70	3	

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 24, CKT 144 VANA_144	VAN_ARSDELL	0.00	528 3-	SBS_99_UNK	5800	6261	6209	176	2693	121	0	0.00	0.00	0
1510074	VANA_144	2.67	528 3-	3/0 ACSR	1986	1839	1491	166	2693	121	41	3.86	3.86	7642
OC450271	1510074	2.67	513 3-	REC_100_UNK	1986	1839	1491	166	2570	119	119	0.00	0.86	0
1610058	OC450271	4.73	513 3-	3/0 ACSR	1305	1207	934	159	2570	119	40	2.87	6.73	5730
RG450013	1610058	4.73	512 3-	219	1305	1207	934	159	2521	119	54	-6.73	0.00	0
1610059	RG450013	6.13	512 3-	3/0 ACSR	1057	978	745	155	2521	112	38	1.81	1.81	3468
1610061	1610059	6.48	108 1-	6 ACWC	0	0	686	151	590	80	57	1.21	3.01	610
OC450272	1610061	6.48	101 1-	50-H	0	0	686	151	544	74	149	0.00	3.01	0
1610062	OC450272	6.65	101 1-	6 ACWC	0	0	660	150	544	74	53	0.56	3.57	265
RG450014	1610062	6.65	98 1-	50	0	0	660	150	513	70	142	-3.57	0.00	0
1610063	RG450014	8.19	98 1-	6 ACWC	0	0	489	138	513	68	49	3.82	3.82	1498
1609049	1610063	8.21	68 1-	6 ACWC	0	0	488	138	318	43	31	0.03	3.85	10
OC450273	1609049	8.21	68 1-	35-H	0	0	488	138	318	43	126	0.00	3.85	0
1609050	OC450273	8.29	68 1-	6 ACWC	0	0	481	137	318	43	31	0.17	4.02	47
1610085	1609050	11.73	61 1-	6 ACWC	0	0	301	116	283	39	28	3.03	7.05	520
1610064	1610085	11.84	2 1-	4 ACSR	0	0	297	115	7	0	1	0.00	7.06	0
1609051	1609050	8.86	7 1-	6 ACWC	0	0	438	133	34	4	3	0.06	4.08	1
1609048	1610063	8.25	1 1-	6 ACWC	0	0	484	137	2	0	0	0.00	3.82	0
1610070	1610059	7.34	15 1-	6 ACWC	0	0	572	144	64	8	6	0.23	2.04	9
SW450295-A	1610070	7.34	0 1-	Open	0	0	572	144	0	0	0	0.00	2.04	0
1610060	1610059	7.35	384 3-	3/0 ACSR	906	838	632	151	1810	82	27	1.12	2.93	1570
1710049	1610060	7.42	73 3-	4 ACSR	893	827	623	150	410	18	13	0.05	2.98	18
OC450276	1710049	7.42	71 3-	50-H	893	827	623	150	400	18	37	0.00	2.98	0
1710050	OC450276	9.20	71 3-	4 ACSR	624	597	452	136	400	18	13	1.03	4.01	331
1610069	1710050	9.32	2 1-	6 ACWC	0	0	444	135	0	0	0	0.00	4.01	0
SW450295-B	1610069	9.32	0 1-	Open	0	0	444	135	0	0	0	0.00	4.01	0
1710076	1710050	9.53	46 1-	4 ACSR	0	0	429	133	249	34	25	0.50	4.50	110
OC450286	1710076	9.53	45 1-	35-H	0	0	429	133	244	33	97	0.00	4.50	0
1710038	OC450286	10.22	45 1-	4 ACSR	0	0	388	129	244	33	24	0.75	5.25	133
1710040	1710038	10.30	0 1-	4 ACSR	0	0	384	128	0	0	0	0.00	5.25	0
SW450296-B	1710040	10.30	0 1-	Open	0	0	384	128	0	0	0	0.00	5.25	0
1710039	1710038	10.81	20 1-	4 ACSR	0	0	358	125	107	14	11	0.20	5.45	13
1610053	1710050	9.24	0 3-	4 ACSR	620	593	449	136	0	0	0	0.00	4.01	0
1710056	1610060	7.36	297 3-	3/0 ACSR	906	838	632	151	1324	60	20	0.00	2.93	4
1710057	1710056	7.40	297 3-	3/0 ACSR	901	833	628	150	1324	60	20	0.03	2.96	31
1710058	1710057	8.27	297 3-	4 ACSR	750	706	532	143	1324	60	43	1.98	4.94	2362
RG450017	1710058	8.27	283 3-	219	750	706	532	143	1232	57	26	-4.94	0.00	0
1710059	RG450017	8.37	283 3-	4 ACSR	734	693	522	142	1232	55	39	0.23	0.23	249
1710047	1710059	8.49	112 3-	4 ACSR	717	678	511	141	579	25	19	0.12	0.35	64
OC450279	1710047	8.49	112 3-	35-H	717	678	511	141	578	25	74	0.00	0.35	0
1710048	OC450279	9.15	112 3-	4 ACSR	634	605	458	136	578	25	19	0.66	1.01	340
1710037	1710048	9.61	16 1-	4 ACSR	0	0	426	133	75	10	7	0.17	1.18	10
OC450281	1710037	9.61	13 1-	REC_25_UNK	0	0	426	133	50	6	27	0.00	1.18	0
1710042	OC450281	11.02	1 1-	4 ACSR	0	0	350	124	9	1	1	0.04	1.22	0
1710041	OC450281	9.66	12 1-	4 ACSR	0	0	422	133	42	5	4	0.01	1.19	0
1710066	1710048	10.94	93 1-	4 ACSR	0	0	353	124	493	66	48	4.49	5.50	1731
1710068	1710066	10.95	57 1-	4 ACSR	0	0	353	124	316	44	32	0.01	5.51	3
OC450280	1710068	10.95	57 1-	REC_25_UNK	0	0	353	124	315	44	177	0.00	5.51	0
1710069	OC450280	12.23	57 1-	4 ACSR	0	0	303	117	315	44	32	1.91	7.42	459
1710072	1710069	12.43	4 1-	4 ACSR	0	0	296	116	28	3	3	0.02	7.44	0
SW450297-B	1710072	12.43	0 1-	Open	0	0	296	116	0	0	0	0.00	7.44	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1710070	1710069	12.33	24 1-	4 ACSR	0	0	299	116	132	18	13	0.08	7.51	10
1710071	1710070	13.44	23 1-	6 ACWC	0	0	267	111	125	17	13	0.43	7.94	33
1710067	1710066	10.96	1 1-	2 ACSR	0	0	352	124	8	1	1	0.00	5.50	0
1709038	1710059	9.17	170 3-	4 ACSR	631	603	456	136	650	29	21	0.86	1.09	490
1709023	1709038	9.64	105 3-	4 ACSR	581	558	424	133	410	18	13	0.27	1.37	89
1709019	1709023	9.69	20 1-	4 ACSR	0	0	421	133	74	9	7	0.02	1.39	1
OC450282	1709019	9.69	20 1-	25-H	0	0	421	133	74	9	40	0.00	1.39	0
1709020	OC450282	10.68	20 1-	4 ACSR	0	0	366	126	74	9	7	0.26	1.65	12
1709022	1709020	11.03	2 1-	4 ACSR	0	0	349	124	9	1	1	0.01	1.66	0
1709021	1709020	10.79	1 1-	4 ACSR	0	0	360	125	5	0	0	0.00	1.65	0
SW450290-A	1709021	10.79	0 1-	Open	0	0	360	125	0	0	0	0.00	1.65	0
1709024	1709023	9.68	41 2-	1/0 ACSR	0	556	422	133	178	12	5	0.01	1.37	1
1709034	1709024	9.82	20 1-	1/0 ACSR	0	0	417	132	93	12	5	0.04	1.41	3
OC450284	1709034	9.82	20 1-	REC_25_UNK	0	0	417	132	93	12	50	0.00	1.41	0
1709035	OC450284	12.33	20 1-	1/0 ACSR	0	0	337	124	93	12	5	0.34	1.75	17
1709036	1709035	12.76	2 1-	2 ACSR	0	0	324	122	2	0	0	0.00	1.75	0
1709025	1709024	9.87	21 1-	4 ACSR	0	0	410	131	85	11	8	0.09	1.47	7
OC450283	1709025	9.87	20 1-	REC_25_UNK	0	0	410	131	79	10	43	0.00	1.47	0
1709027	OC450283	9.88	1 1-	2 ACSR	0	0	410	131	6	0	0	0.00	1.47	0
1709026	OC450283	11.57	19 1-	4 ACSR	0	0	328	121	73	9	7	0.37	1.84	16
1709031	1709038	9.71	50 1-	4 ACSR	0	0	419	132	183	24	18	0.57	1.66	89
1709032	1709031	9.71	46 1-	1/0 ACSR	0	0	419	132	166	22	10	0.00	1.66	0
OC450285	1709032	9.71	46 1-	25-H	0	0	419	132	166	22	90	0.00	1.66	0
1709033	OC450285	10.41	46 1-	1/0 ACSR	0	0	393	130	166	22	10	0.30	1.97	38
1709028	1709033	11.40	40 1-	4 ACSR	0	0	345	124	138	18	13	0.69	2.66	75
1709029	1709028	14.23	27 1-	2 ACSR	0	0	271	113	92	12	7	0.56	3.22	30
1709030	1709029	14.87	1 1-	4 ACSR	0	0	255	110	3	0	0	0.01	3.22	0
SW450248-B	1710056	7.36	0 3-	Closed	906	838	632	151	0	0	0	0.00	2.93	0
SW450248-A	SW450248-B	7.36	0 3-	Closed	906	838	632	151	0	0	0	0.00	2.93	0

CKT 144 total losses: \$28,139

SUB 24 total losses: \$76,641

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS	
SUB 26	CLAY_LICK		1660		5462	5824	5806	176	7748						
SUB 26,	CKT 114														
	CLIC_114	CLAY_LICK	0.00	57 3-	SBS_99_UNK	5462	5824	5806	176	300	13	0	0.00	0.00	0
	1511076	CLIC_114	0.09	57 3-	336.4 ACSR	5237	5456	5422	176	300	13	3	0.01	0.01	2
	1511077	1511076	2.01	57 3-	3/0 ACSR	2354	2179	1830	169	300	13	4	0.26	0.27	57
	1510053	1511077	2.67	28 3-	3/0 ACSR	1965	1815	1481	167	193	8	3	0.06	0.33	8
	1510054	1510053	2.86	16 3-	3/0 ACSR	1878	1734	1406	166	120	5	2	0.01	0.34	0
	1510055	1510054	3.23	3 3-	3/0 ACSR	1725	1593	1277	165	22	0	0	0.00	0.34	0
	SW450002-A	1510055	3.23	0 3-	Open	1725	1593	1277	165	0	0	0	0.00	0.34	0
	1511096	1510054	4.04	10 1-	4 ACSR	0	0	903	155	79	10	8	0.28	0.62	13
	1510080	1510053	3.79	7 1-	6 ACWC	0	0	956	156	39	5	4	0.13	0.46	3
	1510050	1511077	2.66	13 1-	4 ACSR	0	0	1318	162	51	6	5	0.16	0.43	6
	1510051	1510050	3.17	8 1-	6 ACWC	0	0	1070	158	30	4	3	0.04	0.47	0
CKT 114	total losses:	\$89													
SUB 26,	CKT 124														
	CLIC_124	CLAY_LICK	0.00	631 3-	SBS_99_UNK	5462	5824	5806	176	2843	125	0	0.00	0.00	0
	1511074	CLIC_124	0.11	631 3-	336.4 ACSR	5181	5369	5329	176	2843	125	24	0.08	0.08	176
	1511069	1511074	0.34	631 3-	3/0 ACSR	4572	4502	4391	175	2842	125	42	0.28	0.36	686
	1511070	1511069	0.37	630 3-	3/0 ACSR	4486	4394	4269	175	2830	127	42	0.05	0.41	112
	1511063	1511070	0.43	454 3-	3/0 ACSR	4359	4239	4092	175	2094	94	31	0.06	0.47	95
	OC400291	1511063	0.43	454 3-	REC_100_UNK	4359	4239	4092	175	2093	94	94	0.00	0.47	0
	1511064	OC400291	0.78	454 3-	3/0 ACSR	3678	3506	3221	173	2093	94	31	0.38	0.85	589
	1511065	1511064	1.35	429 3-	1/0 ACSR	2830	2644	2293	170	1985	89	39	0.83	1.67	1310
	1511066	1511065	3.46	322 3-	1/0 ACSR	1473	1382	1085	160	1543	70	30	2.26	3.94	2710
	1511084	1511066	4.10	2 1-	4 ACSR	0	0	876	154	2	0	0	0.00	3.94	0
	SW400403-A	1511084	4.10	0 1-	Open	0	0	876	154	0	0	0	0.00	3.94	0
	1511059	1511066	3.53	254 3-	1/0 ACSR	1449	1359	1066	160	1216	56	24	4.07	4.01	70
	RG400003	1511059	3.53	254 3-	219	1449	1359	1066	160	1215	56	26	-4.01	0.00	0
	1511060	RG400003	4.04	254 3-	1/0 ACSR	1299	1220	948	157	1215	54	24	0.45	0.45	446
	SW400223-B	1511060	4.04	234 3-	Closed	1299	1220	948	157	1160	52	0	0.00	0.45	0
	SW400223-A	SW400223-B	4.04	234 3-	Closed	1299	1220	948	157	1160	52	0	0.00	0.45	0
	1511071	SW400223-A	5.25	234 3-	1/0 ACSR	1040	979	748	152	1160	52	23	1.04	1.49	977
	1511072	1511071	5.33	146 3-	1/0 ACSR	1026	966	737	152	760	34	15	0.05	1.54	29
	OC400284	1511072	5.33	146 3-	50-H	1026	966	737	152	759	34	69	0.00	1.54	0
	1512041	OC400284	7.44	146 3-	1/0 ACSR	762	719	540	143	759	34	15	1.01	2.55	566
	OC400286	1512041	7.44	105 3-	35-H	762	719	540	143	493	22	64	0.00	2.55	0
	1512033	OC400286	7.48	105 3-	1/0 ACSR	759	716	538	143	493	22	10	0.01	2.56	4
	1512028	1512033	7.57	64 1-	4 ACSR	0	0	529	142	256	34	25	0.14	2.69	31
	1512020	1512028	9.39	64 1-	6 ACWC	0	0	395	129	256	34	25	2.12	4.81	402
	1512022	1512020	9.82	36 1-	6 ACWC	0	0	372	126	125	17	12	0.30	5.11	31
	1512025	1512022	9.82	19 1-	6 ACWC	0	0	372	126	58	8	6	0.00	5.11	0
	OC400288	1512025	9.82	19 1-	REC_35_UNK	0	0	372	126	58	8	23	0.00	5.11	0
	1512027	OC400288	9.83	1 1-	4 ACSR	0	0	371	126	7	0	1	0.00	5.11	0
	1512026	OC400288	11.14	18 1-	6 ACWC	0	0	316	118	51	7	5	0.21	5.32	6
	1512023	1512022	9.82	12 1-	6 ACWC	0	0	372	126	44	6	4	0.00	5.11	0
	OC400287	1512023	9.82	12 1-	REC_35_UNK	0	0	372	126	44	6	17	0.00	5.11	0
	1512024	OC400287	11.52	12 1-	6 ACWC	0	0	302	116	44	6	4	0.23	5.34	6
	1512021	1512020	9.84	1 1-	6 ACWC	0	0	371	126	2	0	0	0.00	4.82	0
	1511079	1511071	5.25	73 1-	2 ACSR	0	0	747	152	337	45	25	0.01	1.50	2
	OC400281	1511079	5.25	73 1-	REC_50_UNK	0	0	747	152	337	45	91	0.00	1.50	0
	1512042	OC400281	5.97	73 1-	2 ACSR	0	0	652	148	337	45	25	0.94	2.44	256

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1512037	1512042	7.11	66 1-	4 ACSR	0	0	515	139	289	39	28	1.67	4.11	380
1512038	1512037	8.10	44 1-	2 ACSR	0	0	451	134	189	26	15	0.56	4.67	74
SW400227-B	1512038	8.10	21 1-	Closed	0	0	451	134	79	10	0	0.00	4.67	0
SW400227-A	SW400227-B	8.10	21 1-	Closed	0	0	451	134	79	10	0	0.00	4.67	0
1511081	SW400227-A	8.66	21 1-	2 ACSR	0	0	421	131	79	10	6	0.14	4.81	8
1511082	1511081	9.10	11 1-	4 ACSR	0	0	395	128	38	5	4	0.10	4.91	3
1511083	1511082	10.34	11 1-	4 ACSR	0	0	335	121	38	5	4	0.15	5.06	3
SW400403-B	1511082	9.10	0 1-	Open	0	0	395	128	0	0	0	0.00	4.91	0
1511046	1511065	1.53	70 1-	4 ACSR	0	0	2028	169	251	34	24	0.27	1.95	60
OC400280	1511046	1.53	69 1-	50-H	0	0	2028	169	249	33	68	0.00	1.95	0
1511047	OC400280	2.11	69 1-	4 ACSR	0	0	1449	163	249	33	24	0.80	2.74	164
1511048	1511047	2.39	49 1-	4 ACSR	0	0	1268	160	167	22	16	0.28	3.02	41
1511049	1511048	4.27	46 1-	4 ACSR	0	0	674	144	146	19	14	0.84	3.86	73
1511090	1511048	2.51	1 1-	1/0 URD PRI AL	0	0	1224	360	16	2	1	0.00	3.03	0
SW400402-A	1511090	2.51	0 1-	Open	0	0	1224	360	0	0	0	0.00	3.03	0
1511089	1511047	2.70	7 1-	1/0 URD PRI AL	0	0	1213	357	36	4	3	0.04	2.79	0
SW400402-B	1511089	2.70	0 1-	Open	0	0	1213	357	0	0	0	0.00	2.79	0
1511061	1511070	0.47	176 3-	4 ACSR	4166	4041	3852	174	735	32	24	0.12	0.53	78
OC400275	1511061	0.47	170 3-	REC_70_UNK	4166	4041	3852	174	700	31	45	0.00	0.53	0
1511062	OC400275	1.87	170 3-	4 ACSR	1613	1596	1341	160	700	31	22	1.45	1.98	812
1511087	1511062	1.88	95 1-	6 ACWC	0	0	1337	159	373	50	36	0.01	1.99	4
OC400276	1511087	1.88	95 1-	REC_35_UNK	0	0	1337	159	373	50	145	0.00	1.99	0
1411160	OC400276	2.42	95 1-	6 ACWC	0	0	1056	155	373	50	36	1.05	3.04	313
SW400224-B	1411160	2.42	70 1-	Closed	0	0	1056	155	269	36	0	0.00	3.04	0
SW400224-A	SW400224-B	2.42	70 1-	Closed	0	0	1056	155	269	36	0	0.00	3.04	0
1411145	SW400224-A	5.55	70 1-	6 ACWC	0	0	472	131	269	36	26	3.33	6.37	612
1411148	1411145	5.72	2 1-	6 ACWC	0	0	459	130	10	1	1	0.01	6.38	0
1411146	1411145	5.72	17 1-	6 ACWC	0	0	459	130	70	9	7	0.07	6.44	5
OC400279	1411146	5.72	17 1-	REC_25_UNK	0	0	459	130	69	9	39	0.00	6.44	0
1411147	OC400279	6.53	17 1-	6 ACWC	0	0	402	125	69	9	7	0.18	6.62	7
1511057	1511062	1.88	20 2-	4 ACSR	0	1592	1337	159	97	6	5	0.00	1.98	0
OC400278	1511057	1.88	20 2-	REC_35_UNK	0	1592	1337	159	97	6	19	0.00	1.98	0
1511058	OC400278	2.70	20 2-	4 ACSR	0	1137	948	152	97	6	5	0.16	2.14	11
SW400226-B	1511058	2.70	9 2-	Closed	0	1137	948	152	41	2	0	0.00	2.14	0
SW400226-A	SW400226-B	2.70	9 2-	Closed	0	1137	948	152	41	2	0	0.00	2.14	0
1511056	SW400226-A	3.18	9 2-	4 ACSR	0	973	810	148	41	2	2	0.03	2.17	0
CA400012	1511069	0.34	0 3-	Capacitor	4572	4502	4391	175	0	-14	0	0.00	0.36	0

CKT 124 total losses: \$11,152

SUB 26, CKT 134

CLIC_134	CLAY_LICK	0.00	365 3-	SBS_99_UNK	5462	5824	5806	176	1476	65	0	0.00	0.00	0
1411158	CLIC_134	3.97	365 3-	336.4 ACSR	1862	1697	1335	168	1476	65	12	1.05	1.05	1547
1411085	1411158	4.10	31 1-	4 ACSR	0	0	1272	166	174	23	17	0.14	1.18	21
OC400337	1411085	4.10	31 1-	REC_99_UNK	0	0	1272	166	174	23	0	0.00	1.18	0
1411086	OC400337	5.03	31 1-	4 ACSR	0	0	922	157	174	23	17	0.81	2.00	110
1411078	1411086	5.46	18 1-	2 ACSR	0	0	833	154	114	15	9	0.17	2.17	15
1411079	1411078	6.46	13 1-	4 ACSR	0	0	645	146	78	10	8	0.26	2.43	13
1411080	1411079	6.59	1 1-	2 ACSR	0	0	630	145	8	1	1	0.00	2.43	0
1411106	1411158	4.27	314 3-	336.4 ACSR	1773	1616	1262	167	1200	53	10	0.06	1.11	83
1411108	1411106	4.47	314 3-	336.4 ACSR	1719	1565	1217	167	1199	53	10	0.04	1.14	55
1411109	1411108	5.29	308 3-	1/0 ACSR	1427	1308	997	162	1185	52	23	0.57	1.72	703
SW400294-B	1411109	5.29	303 3-	Closed	1427	1308	997	162	1157	52	0	0.00	1.72	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW400294-A	SW400294-B	5.29	303 3-	Closed	1427	1308	997	162	1157	52	0	0.00	1.72	0
1411110	SW400294-A	6.02	303 3-	1/0 ACSR	1235	1137	857	159	1157	52	23	0.49	2.21	600
1411090	1411110	6.48	294 3-	1/0 ACSR	1137	1050	786	157	1126	50	22	0.31	2.52	370
1411093	1411090	6.75	285 3-	1/0 ACSR	1085	1003	751	155	1123	50	22	0.18	2.70	221
1411094	1411093	6.80	285 3-	1/0 ACSR	1076	996	745	155	1121	51	22	0.04	2.74	38
1411096	1411094	7.08	169 3-	1/0 ACSR	1029	953	711	154	527	24	10	0.11	2.85	50
OC400340	1411096	7.08	169 3-	REC_50_UNK	1029	953	711	154	527	24	48	0.00	2.85	0
1411113	OC400340	8.12	169 3-	1/0 ACSR	882	820	608	149	527	24	10	0.37	3.22	152
1411115	1411113	10.35	76 3-	1/0 ACSR	674	630	463	140	210	9	4	0.24	3.46	32
1411081	1411115	10.36	20 1-	6 ACWC	0	0	462	140	65	8	6	0.00	3.46	0
SW400295-B	1411081	10.36	20 1-	Closed	0	0	462	140	65	8	0	0.00	3.46	0
SW400295-A	SW400295-B	10.36	20 1-	Closed	0	0	462	140	65	8	0	0.00	3.46	0
1411082	SW400295-A	11.46	20 1-	6 ACWC	0	0	394	132	65	8	6	0.24	3.70	10
1411083	1411082	11.48	2 1-	4 ACSR	0	0	393	132	7	0	1	0.00	3.70	0
1411084	1411083	11.71	1 1-	6 ACWC	0	0	381	130	4	0	0	0.00	3.70	0
1412018	1411113	8.25	52 3-	1/0 ACSR	866	806	597	149	191	8	4	0.02	3.24	3
OC400346	1412018	8.25	49 3-	35-H	866	806	597	149	174	7	23	0.00	3.24	0
1412010	OC400346	8.35	49 3-	1/0 ACSR	855	796	590	148	174	7	3	0.01	3.25	2
1412009	1412010	8.35	3 3-	1/0 ACSR	854	795	589	148	19	0	0	0.00	3.25	0
1412016	1412009	8.36	1 1-	1/0 URD PRI AL	0	0	589	293	11	1	1	0.00	3.25	0
1412011	1412010	8.35	43 3-	1/0 ACSR	854	795	589	148	136	6	3	0.00	3.25	0
1412012	1412011	9.49	43 2-	1/0 ACSR	0	688	513	144	136	9	4	0.12	3.37	10
1412015	1412012	10.27	7 1-	1/0 ACSR	0	0	471	140	23	3	1	0.03	3.40	0
1411111	1411094	7.20	116 3-	1/0 ACSR	1009	935	697	153	593	27	12	0.18	2.92	88
1411092	1411111	7.26	2 1-	6 ACWC	0	0	687	153	7	0	1	0.00	2.92	0
1411112	1411111	7.27	109 3-	1/0 ACSR	998	926	690	153	565	25	11	0.03	2.95	15
OC400343	1411112	7.27	109 3-	REC_35_UNK	998	926	690	153	564	25	74	0.00	2.95	0
1411095	OC400343	9.64	109 3-	1/0 ACSR	729	682	507	143	564	25	11	0.60	3.55	209
1412013	1411095	10.35	14 1-	6 ACWC	0	0	452	138	99	13	10	0.36	3.91	28
1412014	1412013	10.82	9 1-	4 ACSR	0	0	421	134	66	9	7	0.10	4.01	4
CA400015	1411093	6.75	0 3-	Capacitor	1085	1003	751	155	0	-14	0	0.00	2.70	0
1411107	1411106	4.29	0 3-	336.4 ACSR	1767	1610	1256	167	0	0	0	0.00	1.11	0
SW400003-B	1411107	4.29	0 3-	Open	1767	1610	1256	167	0	0	0	0.00	1.11	0
CKT 134 total losses:		\$4,379												
SUB 26, CKT 144														
CLIC_144	CLAY_LICK	0.00	607 3-	SBS_99_UNK	5462	5824	5806	176	3128	138	0	0.00	0.00	0
1511067	CLIC_144	1.14	607 3-	336.4 ACSR	3529	3344	3050	174	3128	138	26	0.83	0.83	2001
1411157	1511067	2.75	490 3-	336.4 ACSR	2338	2165	1814	171	2462	109	21	0.85	1.68	1743
1411097	1411157	3.13	445 3-	1/0 ACSR	2079	1925	1578	169	2246	100	44	0.56	2.24	1134
1411098	1411097	3.25	438 3-	1/0 ACSR	2007	1860	1516	168	2130	96	42	0.19	2.43	344
1411104	1411098	3.29	278 3-	1/0 ACSR	1982	1836	1494	168	1373	62	27	0.05	2.47	54
OC400391	1411104	3.29	278 3-	REC_70_UNK	1982	1836	1494	168	1373	62	89	0.00	2.47	0
1411105	OC400391	3.85	278 3-	1/0 ACSR	1706	1583	1261	165	1373	62	27	0.56	3.03	624
1410041	1411105	4.64	215 3-	1/0 ACSR	1416	1318	1028	161	1011	46	20	0.61	3.64	515
1410061	1410041	4.73	41 1-	4 ACSR	0	0	997	160	156	21	15	0.09	3.73	12
1410062	1410061	4.74	41 1-	6 ACWC	0	0	996	160	156	21	15	0.01	3.74	0
OC400397	1410062	4.74	41 1-	REC_35_UNK	0	0	996	160	156	21	61	0.00	3.74	0
1410063	OC400397	4.95	41 1-	6 ACWC	0	0	933	158	156	21	15	0.19	3.92	25
1410064	1410063	5.07	37 1-	4 ACSR	0	0	899	157	137	18	14	0.09	4.02	11
1410065	1410064	5.67	28 1-	6 ACWC	0	0	760	152	113	15	11	0.31	4.33	26
1410066	1410065	5.80	15 1-	4 ACSR	0	0	736	151	56	7	6	0.04	4.37	2

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1410067	1410066	6.14	14 1-	2 ACSR	0	0	688	149	56	7	4	0.05	4.42	2
1410068	1410067	6.27	2 1-	4 ACSR	0	0	667	147	7	0	1	0.00	4.42	0
1410042	1410041	5.05	166 3-	1/0 ACSR	1299	1211	937	159	822	37	16	0.26	3.90	182
1410043	1410042	5.18	162 3-	1/0 ACSR	1266	1181	912	159	795	36	16	0.08	3.98	54
OC400395	1410043	5.18	161 3-	REC_35_UNK	1266	1181	912	159	789	36	104	0.00	3.98	0
1410044	OC400395	5.52	161 3-	1/0 ACSR	1188	1109	852	157	789	36	16	0.20	4.18	131
1410049	1410044	7.60	62 1-	4 ACSR	0	0	526	139	292	40	29	2.73	6.91	582
1410055	1410049	7.86	25 1-	4 ACSR	0	0	502	138	102	14	10	0.17	7.08	16
OC400396	1410055	7.86	25 1-	REC_25_UNK	0	0	502	138	102	14	58	0.00	7.08	0
1410056	OC400396	9.96	25 1-	4 ACSR	0	0	362	124	102	14	10	0.68	7.75	42
1410050	1410049	7.79	4 1-	4 ACSR	0	0	509	138	25	3	3	0.03	6.94	0
1410051	1410050	8.15	4 1-	6 ACWC	0	0	477	136	25	3	3	0.04	6.97	0
1410054	1410051	8.30	2 1-	4 ACSR	0	0	465	134	7	0	1	0.00	6.98	0
1410046	1410044	5.65	92 2-	1/0 ACSR	0	1082	830	156	449	31	14	0.08	4.26	30
1410059	1410046	6.57	31 1-	6 ACWC	0	0	661	148	143	19	14	0.67	4.93	77
1510104	1410059	7.26	19 1-	4 ACSR	0	0	569	143	96	13	10	0.21	5.14	12
1410047	1410046	7.36	61 2-	1/0 ACSR	0	819	625	149	306	21	9	0.50	4.76	102
1410038	1410047	7.77	20 1-	6 ACWC	0	0	575	145	100	13	10	0.24	5.00	21
1410039	1410038	8.38	18 1-	4 ACSR	0	0	512	140	91	12	9	0.30	5.30	22
1410040	1410039	9.50	12 1-	6 ACWC	0	0	427	132	63	8	6	0.22	5.51	8
1410048	1410047	7.43	6 2-	1/0 ACSR	0	811	618	148	25	1	1	0.00	4.76	0
1410058	1410048	7.82	6 1-	4 ACSR	0	0	572	145	25	3	3	0.03	4.79	0
SW400406-A	1410058	7.82	0 1-	Open	0	0	572	145	0	0	0	0.00	4.79	0
1410037	1410042	5.31	3 1-	4 ACSR	0	0	869	157	25	3	2	0.02	3.92	0
1410052	1411105	3.85	48 1-	4 ACSR	0	0	1258	165	235	32	23	0.01	3.04	2
OC400392	1410052	3.85	48 1-	REC_35_UNK	0	0	1258	165	235	32	92	0.00	3.04	0
1411159	OC400392	4.23	48 1-	4 ACSR	0	0	1093	161	235	32	23	0.46	3.50	86
1411123	1411159	4.76	19 1-	4 ACSR	0	0	915	156	97	13	10	0.16	3.66	9
SW400408-B	1411123	4.76	0 1-	Open	0	0	915	156	0	0	0	0.00	3.66	0
1410080	1411159	5.15	18 1-	4 ACSR	0	0	813	153	65	8	6	0.18	3.68	7
1411099	1411098	3.62	159 3-	1/0 ACSR	1811	1682	1355	166	751	34	15	0.19	2.62	112
OC400400	1411099	3.62	140 3-	REC_50_UNK	1811	1682	1355	166	595	27	54	0.00	2.62	0
1411100	OC400400	3.73	140 3-	1/0 ACSR	1758	1634	1313	166	595	27	12	0.05	2.67	25
1411101	1411100	4.39	137 3-	1/0 ACSR	1498	1398	1107	163	590	26	12	0.25	2.92	113
1411102	1411101	4.60	48 3-	1/0 ACSR	1430	1335	1054	162	272	12	5	0.04	2.96	9
1411103	1411102	4.76	6 3-	1/0 ACSR	1380	1290	1016	161	15	0	0	0.00	2.96	0
1411144	1411103	4.85	4 1-	4 ACSR	0	0	987	160	6	0	1	0.00	2.97	0
SW400401-B	1411103	4.76	0 1-	Open	0	0	1016	161	0	0	0	0.00	2.96	0
1411087	1411102	4.81	36 1-	4 ACSR	0	0	982	160	234	32	23	0.27	3.23	50
1411089	1411087	5.24	11 1-	4 ACSR	0	0	862	156	85	11	8	0.11	3.34	6
1411088	1411087	5.17	14 1-	4 ACSR	0	0	880	156	85	11	8	0.09	3.32	5
1411141	1411101	4.76	35 1-	4 ACSR	0	0	977	159	145	19	14	0.31	3.23	38
1410082	1411141	5.77	21 1-	4 ACSR	0	0	728	150	82	11	8	0.25	3.48	12
1410081	1411141	5.46	9 1-	4 ACSR	0	0	791	153	44	6	4	0.10	3.32	2
1411121	1411100	3.74	0 1-	4 ACSR	0	0	1310	166	0	0	0	0.00	2.67	0
SW400408-A	1411121	3.74	0 1-	Open	0	0	1310	166	0	0	0	0.00	2.67	0
CA400018	1411097	3.13	0 3-	Capacitor	2079	1925	1578	169	0	-14	0	0.00	2.24	0
1511085	1511067	1.33	81 1-	4 ACSR	0	0	2624	172	436	58	42	0.50	1.33	190
OC400388	1511085	1.33	80 1-	REC_50_UNK	0	0	2624	172	432	58	117	0.00	1.33	0
1510103	OC400388	3.14	80 1-	4 ACSR	0	0	988	154	432	58	42	2.59	3.91	686
1510086	1510103	3.27	5 1-	6 ACWC	0	0	943	153	42	5	4	0.03	3.95	0
1410057	1510086	3.66	4 1-	4 ACSR	0	0	830	150	37	5	4	0.04	3.99	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES CONS	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
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 SUB 26 total losses: \$24,744

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES CONS	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 27	CHAPLIN		1		26665	27802	27906	176	1203					
SUB 27,	CKT 114													
	CHAP_114	CHAPLIN 0.00	1 3-	SBS_99_UNK	26665	27802	27906	176	1203	58 0	0.00	0.00	0.00	0
	1507006	CHAP_114 0.01	1 3-	336.4 ACSR	26322	27253	27327	176	1203	58 11	0.00	0.00	0.00	2
	1507999	1507006 0.01	1 3-	Consumer	26322	27253	27327	176	1203	58 0	0.00	0.00	0.00	0
CKT 114	total losses:	\$2												
SUB 27	total losses:	\$2												

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 31	BRACKEN_COUNTY		1764		5892	6153	6188	176	5144					
SUB 31,	CKT 104													
BRAK_104	BRACKEN_COUNTY	0.00	644 3-	SBS_99_UNK	5892	6153	6188	176	1907	85	0	0.00	0.00	0
0419042	BRAK_104	0.17	644 3-	336.4 ACSR	5423	5446	5421	176	1907	85	16	0.09	0.09	121
0419037	0419042	0.19	59 1-	4 ACSR	0	0	5278	176	157	21	15	0.02	0.11	3
OC145075	0419037	0.19	59 1-	REC_70_UNK	0	0	5278	176	157	21	30	0.00	0.11	0
0418053	OC145075	2.74	59 1-	4 ACSR	0	0	915	151	157	21	15	1.57	1.69	166
0418028	0418053	2.79	1 1-	2 ACSR	0	0	904	151	10	1	1	0.00	1.69	0
0418029	0418053	3.78	23 1-	6 ACWC	0	0	675	143	39	5	4	0.18	1.86	5
0318041	0418029	5.95	14 1-	4 ACSR	0	0	434	128	18	2	2	0.12	1.98	1
0319041	0419042	0.96	582 3-	336.4 ACSR	3952	3762	3366	174	1733	77	15	0.38	0.47	457
0319029	0319041	1.02	446 3-	3/0 ACSR	3847	3654	3247	174	1259	56	19	0.04	0.51	37
0318042	0319029	2.48	446 3-	336.4 ACSR	2566	2364	1923	171	1259	56	11	0.49	1.00	417
0318025	0318042	4.83	327 3-	4 ACSR	980	962	758	149	865	38	28	3.18	4.19	2305
0318028	0318025	4.87	133 3-	4 ACSR	966	949	748	148	316	14	10	0.03	4.22	8
OC145066	0318028	4.87	133 3-	REC_70_UNK	966	949	748	148	316	14	21	0.00	4.22	0
0318029	OC145066	5.48	133 3-	4 ACSR	820	811	641	143	316	14	10	0.32	4.54	91
0318030	0318029	5.71	108 3-	4 ACSR	776	769	608	142	241	11	8	0.10	4.64	22
0318031	0318030	7.56	85 3-	4 ACSR	537	537	427	129	173	8	6	0.40	5.04	52
0317010	0318031	8.73	44 1-	4 ACSR	0	0	360	122	58	8	6	0.21	5.25	7
0317008	0318031	8.05	6 3-	4 ACSR	496	498	396	126	9	0	0	0.00	5.05	0
SW145797-A	0317008	8.05	0 3-	Open	496	498	396	126	0	0	0	0.00	5.05	0
0318035	0318030	5.82	22 1-	4 ACSR	0	0	593	141	65	9	6	0.05	4.68	3
OC145072	0318035	5.82	22 1-	REC_50_UNK	0	0	593	141	65	9	18	0.00	4.68	0
0318036	OC145072	6.12	22 1-	4 ACSR	0	0	556	139	65	9	6	0.12	4.80	7
0318037	0318036	8.10	21 1-	6 ACWC	0	0	395	125	61	8	6	0.41	5.21	16
0317004	0318037	8.28	2 1-	4 ACSR	0	0	384	124	7	0	1	0.00	5.22	0
0318033	0318029	5.53	16 1-	6 ACWC	0	0	633	143	36	5	4	0.01	4.55	0
OC145071	0318033	5.53	16 1-	REC_25_UNK	0	0	633	143	36	5	20	0.00	4.55	0
0318034	OC145071	7.52	16 1-	6 ACWC	0	0	432	129	36	5	4	0.22	4.77	5
0318026	0318025	5.37	123 3-	1/0 ACSR	903	884	691	146	344	15	7	0.14	4.33	42
OC145069	0318026	5.37	123 3-	REC_50_UNK	903	884	691	146	343	15	32	0.00	4.33	0
0318027	OC145069	8.20	123 3-	1/0 ACSR	640	621	474	136	343	15	7	0.55	4.88	132
0218007	0318027	8.33	41 1-	4 ACSR	0	0	464	135	82	11	8	0.07	4.95	5
OC145070	0218007	8.33	40 1-	REC_25_UNK	0	0	464	135	75	10	42	0.00	4.95	0
0218008	OC145070	8.84	40 1-	4 ACSR	0	0	427	131	75	10	8	0.22	5.16	14
0218006	0218008	10.67	33 1-	6 ACWC	0	0	332	120	61	8	6	0.37	5.54	14
0219009	0218006	10.84	6 1-	4 ACSR	0	0	325	119	5	0	0	0.00	5.54	0
0218005	0318027	8.65	20 1-	4 ACSR	0	0	440	132	74	10	7	0.10	4.99	5
0318024	0318042	2.77	86 3-	1/0 ACSR	2323	2124	1714	170	272	12	5	0.06	1.06	12
0318020	0318024	2.89	76 1-	4 ACSR	0	0	1617	168	232	31	22	0.17	1.23	34
0318023	0318020	2.96	2 1-	4 ACSR	0	0	1558	167	3	0	0	0.00	1.23	0
0318021	0318020	2.89	74 1-	4 ACSR	0	0	1612	168	229	30	22	0.01	1.24	2
OC145063	0318021	2.89	74 1-	REC_99_UNK	0	0	1612	168	229	30	0	0.00	1.24	0
0319040	OC145063	4.35	74 1-	4 ACSR	0	0	899	154	229	30	22	1.17	2.40	168
0319019	0319040	5.72	21 1-	6 ACWC	0	0	623	143	36	4	3	0.15	2.55	3
0319027	0319041	1.75	131 3-	1/0 ACSR	2758	2551	2138	170	451	20	9	0.23	0.70	77
OC147018	0319027	1.75	95 3-	REC_35_UNK	2758	2551	2138	170	322	14	41	0.00	0.70	0
0319028	OC147018	1.80	95 3-	1/0 ACSR	2695	2493	2080	170	322	14	6	0.01	0.72	4
0319036	0319028	4.38	50 1-	4 ACSR	0	0	717	146	184	24	18	1.73	2.45	204
0319043	0319036	5.20	9 1-	6 ACWC	0	0	589	140	38	5	4	0.09	2.54	2
0319044	0319028	4.17	44 1-	4 ACSR	0	0	759	148	132	17	13	0.94	1.66	72

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
CKT 104 total losses:		\$4,513												
SUB 31, CTK 114														
BRAK_114	BRACKEN_COUNTY	0.00	1120 3-	SBS_99_UNK	5892	6153	6188	176	3237	143	0	0.00	0.00	0
0419044	BRAK_114	0.23	1120 3-	336.4 ACSR	5285	5258	5209	176	3237	143	27	0.18	0.18	455
0419051	0419044	0.27	83 1-	4 ACSR	0	0	4977	175	247	33	24	0.06	0.24	12
0419052	0419051	0.40	83 1-	2 ACSR	0	0	4359	174	247	33	18	0.13	0.37	27
0419053	0419052	0.42	82 1-	4 ACSR	0	0	4252	174	242	32	23	0.03	0.40	6
OC145166	0419053	0.42	81 1-	REC_100_UNK	0	0	4252	174	236	31	32	0.00	0.40	0
0419054	OC145166	1.08	81 1-	4 ACSR	0	0	2202	167	236	31	23	0.82	1.22	154
0418038	0419054	1.19	64 1-	2 ACSR	0	0	2066	166	175	23	13	0.08	1.30	11
0418039	0418038	1.45	62 1-	4 ACSR	0	0	1735	164	165	22	16	0.25	1.55	36
0418043	0418039	3.46	25 1-	4 ACSR	0	0	753	146	75	10	7	0.64	2.19	34
0418044	0418043	3.87	7 1-	2 ACSR	0	0	692	144	30	4	2	0.03	2.21	0
0418040	0418039	2.43	35 1-	4 ACSR	0	0	1063	155	88	11	8	0.45	2.00	31
0418041	0418040	3.23	26 1-	2 ACSR	0	0	857	150	62	8	5	0.14	2.14	6
0418042	0418041	4.57	13 1-	4 ACSR	0	0	599	139	23	3	2	0.09	2.23	1
0419045	0419044	1.28	1034 3-	336.4 ACSR	3558	3357	2983	174	2982	132	25	0.73	0.91	1700
0419047	0419045	1.43	551 3-	4 ACSR	3224	3026	2645	172	1592	70	50	0.41	1.32	611
0419048	0419047	1.44	551 3-	1/0 ACSR	3215	3018	2636	172	1586	70	31	0.01	1.33	9
OC145169	0419048	1.44	551 3-	REC_100_UNK	3215	3018	2636	172	1586	70	31	0.00	1.33	0
0419049	OC145169	3.28	551 3-	1/0 ACSR	1693	1587	1252	163	1586	70	31	1.83	3.16	2709
0419065	0419049	3.29	52 1-	4 ACSR	0	0	1249	163	139	19	14	0.01	3.16	0
OC145191	0419065	3.29	52 1-	REC_99_UNK	0	0	1249	163	139	19	0	0.00	3.16	0
0419066	OC145191	3.50	52 1-	4 ACSR	0	0	1148	161	139	19	14	0.17	3.33	21
0419067	0419066	4.35	51 1-	2 ACSR	0	0	908	155	132	18	10	0.44	3.78	48
0419068	0419067	5.37	40 1-	4 ACSR	0	0	682	147	116	16	11	0.71	4.49	72
0419070	0419068	5.99	25 1-	4 ACSR	0	0	591	142	72	10	7	0.24	4.73	14
0419071	0419070	6.72	19 1-	6 ACWC	0	0	511	136	54	7	5	0.23	4.96	11
0419072	0419071	8.06	16 1-	4 ACSR	0	0	406	127	47	6	5	0.20	5.16	6
0419069	0419068	7.15	11 1-	4 ACSR	0	0	471	133	37	5	4	0.21	4.69	5
0319042	0419049	5.05	464 3-	1/0 ACSR	1150	1082	827	155	1326	60	26	1.43	4.58	1893
0319020	0319042	5.20	446 3-	1/0 ACSR	1120	1054	804	154	1240	57	25	0.14	4.73	150
0319034	0319020	5.71	6 1-	6 ACWC	0	0	704	149	24	3	2	0.06	4.78	0
0319035	0319034	6.04	1 1-	4 ACSR	0	0	652	147	11	1	1	0.01	4.79	0
0319021	0319020	5.57	435 3-	1/0 ACSR	1051	990	752	152	1207	56	24	0.35	5.07	356
0319025	0319021	5.69	216 3-	1/0 ACSR	1030	970	736	152	697	32	14	0.07	5.14	39
OC145172	0319025	5.69	208 3-	REC_50_UNK	1030	970	736	152	665	30	62	0.00	5.14	0
0319026	OC145172	7.51	208 3-	1/0 ACSR	793	749	561	144	665	30	13	0.82	5.95	424
0320026	0319026	7.61	55 1-	4 ACSR	0	0	550	143	157	22	16	0.09	6.04	12
OC145173	0320026	7.61	44 1-	REC_99_UNK	0	0	550	143	130	18	0	0.00	6.04	0
0320024	OC145173	7.95	44 1-	4 ACSR	0	0	516	140	130	18	13	0.24	6.28	26
0320025	0320024	7.99	31 1-	2 ACSR	0	0	513	140	92	13	7	0.02	6.30	1
0320022	0320025	8.23	27 1-	4 ACSR	0	0	491	138	86	12	9	0.11	6.41	8
0320023	0320022	9.76	19 1-	6 ACWC	0	0	388	128	60	8	6	0.28	6.69	10
0320019	0319026	7.55	87 2-	2 ACSR	0	744	557	144	324	22	13	0.03	5.98	8
0320020	0320019	7.58	87 2-	4 ACSR	0	738	554	143	324	22	16	0.03	6.01	10
0420010	0320020	7.99	85 2-	2 ACSR	0	694	522	141	319	22	12	0.24	6.25	65
0420007	0420010	8.00	57 1-	4 ACSR	0	0	521	141	220	31	22	0.01	6.26	2
OC145174	0420007	8.00	57 1-	REC_70_UNK	0	0	521	141	220	31	44	0.00	6.26	0
0320028	OC145174	9.06	57 1-	4 ACSR	0	0	436	133	220	31	22	0.73	6.99	98
0420005	0420010	8.00	22 1-	4 ACSR	0	0	521	141	57	8	6	0.00	6.25	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
OC145175	0420005	8.00	22 1-	REC_70_UNK	0	0	521	141	57	8 11	0.00	6.25	0	
0420006	OC145175	9.00	22 1-	4 ACSR	0	0	439	134	57	8 6	0.23	6.48	9	
0320016	0420006	9.58	12 1-	2 ACSR	0	0	411	131	15	2 1	0.02	6.51	0	
0320017	0320016	10.15	4 1-	4 ACSR	0	0	378	127	4	0 0	0.01	6.51	0	
0320018	0320017	10.52	0 1-	6 ACWC	0	0	360	125	0	0 0	0.00	6.51	0	
0319022	0319021	5.72	213 3-	1/0 ACSR	1026	966	733	152	500	23 10	0.06	5.13	25	
0319031	0319022	5.81	12 1-	6 ACWC	0	0	716	151	26	3 3	0.02	5.14	0	
OC145176	0319031	5.81	12 1-	REC_35_UNK	0	0	716	151	26	3 10	0.00	5.14	0	
0319032	OC145176	8.16	12 1-	6 ACWC	0	0	448	133	26	3 3	0.19	5.33	3	
0319033	0319032	8.39	0 1-	4 ACSR	0	0	432	131	0	0 0	0.00	5.33	0	
0319023	0319022	5.95	199 3-	1/0 ACSR	988	931	705	151	465	21 9	0.08	5.21	33	
OC145179	0319023	5.95	195 3-	REC_70_UNK	988	931	705	151	455	21 30	0.00	5.21	0	
0319024	OC145179	9.11	195 3-	1/0 ACSR	659	623	463	138	455	21 9	1.00	6.21	363	
OC146965	0319024	9.11	156 3-	REC_50_UNK	659	623	463	138	350	16 33	0.00	6.21	0	
0219008	OC146965	9.29	156 3-	1/0 ACSR	647	611	455	137	350	16 7	0.05	6.26	14	
0219010	0219008	10.94	111 1-	6 ACWC	0	0	360	126	244	34 25	1.25	7.51	186	
0219006	0219008	9.76	35 1-	2 ACSR	0	0	429	134	80	11 6	0.13	6.39	8	
0219007	0219006	10.80	12 1-	6 ACWC	0	0	371	128	43	6 4	0.21	6.59	7	
0320014	0219007	11.19	8 1-	2 ACSR	0	0	357	126	21	2 2	0.03	6.62	0	
0320015	0320014	12.54	5 1-	6 ACWC	0	0	305	118	12	1 1	0.05	6.67	0	
CA145002	0319042	5.05	0 3-	Capacitor	1150	1082	827	155	0	-14 0	0.00	4.58	0	
0419039	0419045	1.59	441 3-	4 ACSR	2904	2745	2350	170	1219	54 39	0.67	1.59	738	
OC145184	0419039	1.59	438 3-	REC_70_UNK	2904	2745	2350	170	1205	54 78	0.00	1.59	0	
0419040	OC145184	2.75	438 3-	4 ACSR	1515	1485	1211	159	1205	54 39	2.41	4.00	2588	
0419041	0419040	3.89	351 3-	4 ACSR	996	990	802	149	932	43 31	1.86	5.85	1565	
RG145002	0419041	3.89	327 3-	219	996	990	802	149	861	40 18	-5.85	0.00	0	
0418054	RG145002	5.13	327 3-	4 ACSR	720	722	584	139	861	38 27	1.76	1.76	1307	
0418033	0418054	5.30	300 3-	2 ACSR	702	704	569	138	754	34 19	0.14	1.90	93	
0418031	0418033	5.66	299 3-	4 ACSR	651	653	528	136	748	33 24	0.47	2.37	316	
0418036	0418031	7.28	173 3-	1/0 ACSR	558	556	441	130	417	18 8	0.48	2.85	160	
OC145189	0418036	7.28	150 3-	REC_35_UNK	558	556	441	130	353	16 46	0.00	2.85	0	
0418037	OC145189	7.43	150 3-	1/0 ACSR	551	548	435	130	353	16 7	0.04	2.89	12	
0418047	0418037	9.07	79 1-	4 ACSR	0	0	343	120	199	27 19	1.81	4.70	300	
0418048	0418047	9.19	59 1-	2 ACSR	0	0	339	119	159	22 12	0.08	4.78	11	
0418049	0418048	9.70	59 1-	4 ACSR	0	0	318	117	159	22 16	0.33	5.11	37	
0418050	0418049	10.43	15 1-	2 ACSR	0	0	298	114	51	7 4	0.11	5.22	4	
0417108	0418050	10.76	4 1-	4 ACSR	0	0	288	112	16	2 2	0.02	5.23	0	
0418026	0418037	9.73	69 1-	4 ACSR	0	0	316	116	150	20 15	1.16	4.05	108	
0418027	0418026	11.85	13 1-	2 ACSR	0	0	266	109	15	2 1	0.07	4.12	0	
0417059	0418027	12.20	2 1-	4 ACSR	0	0	257	107	0	0 0	0.00	4.12	0	
0418032	0418031	5.71	116 3-	2 ACSR	646	649	524	135	304	13 8	0.02	2.39	5	
0418034	0418032	6.38	116 3-	4 ACSR	569	573	463	131	304	13 10	0.32	2.71	84	
0518056	0418034	8.21	57 3-	4 ACSR	429	433	350	120	166	7 5	0.27	2.98	27	
SW145888-A	0518056	8.21	0 3-	Open	429	433	350	120	0	0 0	0.00	2.98	0	
0418045	0418034	6.38	35 1-	6 ACWC	0	0	462	131	76	10 7	0.00	2.72	0	
OC145186	0418045	6.38	35 1-	REC_25_UNK	0	0	462	131	76	10 41	0.00	2.72	0	
0518057	OC145186	8.88	35 1-	6 ACWC	0	0	323	116	76	10 7	0.60	3.31	27	
0519003	0518057	8.95	6 1-	4 ACSR	0	0	320	116	3	0 0	0.00	3.31	0	
0519004	0519003	9.84	6 1-	2 ACSR	0	0	296	113	3	0 0	0.01	3.32	0	
0419055	0419040	3.14	71 1-	4 ACSR	0	0	1032	155	188	26 19	0.42	4.42	67	
0419063	0419055	3.19	35 1-	4 ACSR	0	0	1014	155	83	11 8	0.02	4.44	2	
OC145190	0419063	3.19	35 1-	REC_35_UNK	0	0	1014	155	83	11 33	0.00	4.44	0	

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
0419064	OC145190	5.99	35 1-	4 ACSR	0	0	491	133	83	11	8	0.72	5.16	36
0419056	0419055	3.45	29 1-	4 ACSR	0	0	924	152	78	10	8	0.14	4.56	10
0419057	0419056	3.62	27 1-	2 ACSR	0	0	884	151	71	9	5	0.05	4.61	3
0419058	0419057	3.63	26 1-	4 ACSR	0	0	883	151	71	9	7	0.00	4.61	0
OC145185	0419058	3.63	26 1-	REC_50_UNK	0	0	883	151	71	9	20	0.00	4.61	0
0419059	OC145185	4.33	26 1-	4 ACSR	0	0	717	146	71	9	7	0.17	4.78	7
0419060	0419059	4.35	7 1-	6 ACWC	0	0	713	145	6	0	1	0.00	4.78	0
0419061	0419060	4.45	5 1-	2 ACSR	0	0	699	145	4	0	0	0.00	4.78	0
0419062	0419061	4.99	3 1-	4 ACSR	0	0	612	141	0	0	0	0.00	4.78	0
CKT 114	total losses:	\$17,236												
SUB 31	total losses:	\$21,749												

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 32	COLEMANSVILLE		2148		5453	5696	5761	176	4733					
SUB 32,	CKT 104													
COLE_104	COLEMANSVILLE	0.00	817 3-	SBS_99_UNK	5453	5696	5761	176	1838	81 0	0.00	0.00	0.00	0
0616050	COLE_104	0.05	817 3-	336.4 ACSR	5324	5476	5529	176	1838	81 15	0.02	0.02	0.02	33
0616051	0616050	0.76	817 3-	3/0 ACSR	3708	3568	3228	174	1838	81 27	0.53	0.55	0.55	906
0616052	0616051	1.22	796 3-	3/0 ACSR	3069	2894	2517	172	1800	79 27	0.34	0.89	0.89	574
0616053	0616052	2.96	667 3-	3/0 ACSR	1840	1690	1365	166	1558	69 23	1.05	1.95	1.95	1620
0616038	0616053	3.04	378 3-	1/0 ACSR	1803	1657	1334	165	921	41 18	0.04	1.99	1.99	41
OC145236	0616038	3.04	378 3-	REC_70_UNK	1803	1657	1334	165	921	41 60	0.00	1.99	1.99	0
0615048	OC145236	3.95	378 3-	1/0 ACSR	1443	1334	1044	161	921	41 18	0.45	2.43	2.43	485
0515038	0615048	4.94	270 3-	1/0 ACSR	1182	1098	844	156	698	32 14	0.30	2.74	300	300
0515017	0515038	6.95	236 3-	1/0 ACSR	860	804	605	147	620	28 12	0.94	3.68	489	489
0515018	0515017	7.06	131 3-	1/0 ACSR	847	792	596	147	418	19 8	0.04	3.71	13	13
OC145243	0515018	7.06	131 3-	REC_50_UNK	847	792	596	147	418	19 38	0.00	3.71	0	0
0515019	OC145243	9.45	131 3-	1/0 ACSR	641	602	448	137	418	19 8	0.64	4.35	203	203
0514004	0515019	10.76	57 1-	4 ACSR	0	0	371	128	154	21 15	0.74	5.09	76	76
SW145193-B	0514004	10.76	14 1-	Closed	0	0	371	128	30	4 0	0.00	5.09	0	0
SW145193-A	SW145193-B	10.76	14 1-	Closed	0	0	371	128	30	4 0	0.00	5.09	0	0
0514002	SW145193-A	11.73	14 1-	4 ACSR	0	0	329	122	30	4 3	0.09	5.18	2	2
0515020	0515019	11.25	8 3-	2 ACSR	518	492	367	128	124	5 3	0.13	4.48	10	10
0515029	0515017	7.14	95 1-	4 ACSR	0	0	583	146	182	25 18	0.21	3.89	34	34
OC145240	0515029	7.14	95 1-	REC_50_UNK	0	0	583	146	182	25 50	0.00	3.89	0	0
0515027	OC145240	8.22	95 1-	4 ACSR	0	0	478	137	182	25 18	1.17	5.05	186	186
0515031	0515027	10.51	47 1-	4 ACSR	0	0	342	122	86	11 9	0.64	5.69	34	34
0515032	0515031	10.57	1 1-	2 ACSR	0	0	340	122	4	0 0	0.00	5.69	0	0
0515028	0515027	9.79	42 1-	4 ACSR	0	0	376	127	82	11 8	0.48	5.53	26	26
0515030	0515028	10.05	5 1-	2 ACSR	0	0	366	125	16	2 1	0.01	5.54	0	0
CA145005	0515038	4.94	0 3-	Capacitor	1182	1098	844	156	0	-14 0	0.00	2.74	0	0
0615042	0615048	3.96	96 1-	4 ACSR	0	0	1042	161	190	25 19	0.01	2.44	0	0
OC145244	0615042	3.96	96 1-	REC_99_UNK	0	0	1042	161	190	25 0	0.00	2.44	0	0
0515039	OC145244	4.57	96 1-	4 ACSR	0	0	858	155	190	25 19	0.64	3.08	100	100
0515024	0515039	5.54	76 1-	2 ACSR	0	0	700	149	150	20 11	0.51	3.59	59	59
0515025	0515024	9.35	49 1-	4 ACSR	0	0	354	122	102	14 10	1.19	4.77	72	72
0616054	0616053	3.01	275 3-	4 ACSR	1803	1660	1337	165	609	27 20	0.05	2.00	29	29
OC145239	0616054	3.01	275 3-	REC_70_UNK	1803	1660	1337	165	609	27 39	0.00	2.00	0	0
0516032	OC145239	4.58	275 3-	4 ACSR	1026	991	779	151	609	27 20	1.69	3.69	935	935
0516022	0516032	4.89	270 3-	4 ACSR	939	911	717	148	590	27 19	0.32	4.01	175	175
RG145005	0516022	4.89	263 3-	219	939	911	717	148	574	26 12	-4.01	0.00	0	0
0516023	RG145005	6.67	263 3-	4 ACSR	624	617	488	134	574	25 18	1.72	1.72	869	869
0516017	0516023	6.70	236 3-	2 ACSR	622	614	486	134	534	24 13	0.02	1.74	10	10
0516027	0516017	7.43	19 1-	4 ACSR	0	0	429	129	27	3 3	0.11	1.85	2	2
OC145245	0516027	7.43	17 1-	REC_50_UNK	0	0	429	129	20	2 6	0.00	1.85	0	0
0516028	OC145245	9.01	17 1-	4 ACSR	0	0	342	120	20	2 2	0.10	1.95	1	1
0516018	0516017	7.88	214 3-	4 ACSR	507	504	400	126	500	22 16	1.03	2.77	461	461
0516019	0516018	9.00	112 3-	1/0 ACSR	465	461	364	123	263	11 5	0.19	2.96	38	38
0516026	0516019	10.48	82 1-	4 ACSR	0	0	303	115	182	24 18	1.13	4.08	145	145
0515021	0516026	10.94	30 1-	6 ACWC	0	0	288	113	68	9 7	0.18	4.26	10	10
0515022	0515021	11.25	22 1-	4 ACSR	0	0	278	111	58	8 6	0.08	4.34	3	3
0515023	0515022	11.98	11 1-	2 ACSR	0	0	263	109	25	3 2	0.04	4.38	0	0
0516020	0516018	9.24	90 3-	4 ACSR	417	417	332	119	218	9 7	0.45	3.22	80	80
0516021	0516020	9.68	3 3-	4 ACSR	395	395	315	116	10	0 0	0.00	3.22	0	0
SW145795-A	0516021	9.68	0 3-	Open	395	395	315	116	0	0 0	0.00	3.22	0	0

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
0516015	0516020	9.76	58 1-	4 ACSR	0	0	312	116	141	19	14	0.42	3.64	51
OC145246	0516015	9.76	55 1-	REC_35_UNK	0	0	312	116	125	17	49	0.00	3.64	0
0416013	OC145246	14.08	55 1-	4 ACSR	0	0	207	97	125	17	12	1.66	5.29	124
0516024	0516032	4.71	3 1-	6 ACWC	0	0	752	149	11	1	1	0.01	3.70	0
0516025	0516024	4.96	2 1-	4 ACSR	0	0	705	147	9	1	1	0.01	3.70	0
0616035	0616052	1.51	125 1-	4 ACSR	0	0	2063	169	231	31	22	0.40	1.29	80
OC145232	0616035	1.51	125 1-	REC_50_UNK	0	0	2063	169	230	31	62	0.00	1.29	0
0616036	OC145232	1.84	125 1-	4 ACSR	0	0	1683	165	230	31	22	0.45	1.74	88
0616037	0616036	3.70	122 1-	2 ACSR	0	0	903	154	217	29	16	1.46	3.20	247
0615028	0616037	3.83	91 1-	4 ACSR	0	0	867	152	160	21	16	0.12	3.32	188
0615029	0615028	5.04	89 1-	2 ACSR	0	0	671	145	160	21	12	0.79	4.11	107
0615034	0615029	5.22	61 1-	2 ACSR	0	0	648	144	120	16	9	0.09	4.20	10
OC145233	0615034	5.22	61 1-	REC_99_UNK	0	0	648	144	120	16	0	0.00	4.20	0
0615035	OC145233	6.34	61 1-	2 ACSR	0	0	539	139	120	16	9	0.35	4.56	28
0515040	0615035	8.04	15 1-	4 ACSR	0	0	402	127	30	4	3	0.16	4.72	3
0615030	0615029	6.17	19 1-	2 ACSR	0	0	552	139	32	4	2	0.13	4.24	3
0615031	0615030	6.70	12 1-	4 ACSR	0	0	499	136	22	3	2	0.05	4.28	0
0615032	0615031	6.98	3 1-	2 ACSR	0	0	480	134	6	0	0	0.01	4.29	0
0615033	0615032	7.42	3 1-	4 ACSR	0	0	445	131	6	0	1	0.01	4.30	0
SW145384-B	0615030	6.17	0 1-	Open	0	0	552	139	0	0	0	0.00	4.24	0
0616056	0616051	2.84	15 1-	4 ACSR	0	0	967	153	17	2	2	0.10	0.66	0
CKT 104 total losses:		\$8,780												
SUB 32, CKT 114														
COLE_114	COLEMANSVILLE	0.00	501 3-	SBS_99_UNK	5453	5696	5761	176	1108	49	0	0.00	0.00	0
0616040	COLE_114	2.15	501 3-	336.4 ACSR	2690	2501	2072	172	1108	49	9	0.67	0.67	511
0616041	0616040	2.71	461 3-	336.4 ACSR	2372	2188	1773	171	1022	45	9	0.16	0.83	114
0616064	0616041	2.71	0 1-	4 ACSR	0	0	1768	171	0	0	0	0.00	0.83	0
SW145386-A	0616064	2.71	0 1-	Open	0	0	1768	171	0	0	0	0.00	0.83	0
0616042	0616041	3.17	459 3-	336.4 ACSR	2159	1982	1583	170	1016	45	9	0.13	0.96	94
0617052	0616042	3.48	401 3-	336.4 ACSR	2038	1866	1478	169	919	41	8	0.08	1.04	51
0617028	0617052	3.56	396 3-	4 ACSR	1974	1800	1429	168	910	40	29	0.13	1.17	108
OC145291	0617028	3.56	396 3-	REC_70_UNK	1974	1800	1429	168	909	40	59	0.00	1.17	0
0617029	OC145291	3.67	396 3-	4 ACSR	1893	1736	1369	167	909	40	29	0.17	1.34	139
RG145008	0617029	3.67	396 3-	219	1893	1736	1369	167	908	40	19	-1.34	0.00	0
0617030	RG145008	4.12	396 3-	4 ACSR	1578	1477	1146	162	908	40	29	0.72	0.72	578
0617031	0617030	5.93	389 3-	4 ACSR	880	858	667	146	881	39	28	2.75	3.47	2167
0617032	0617031	7.91	363 3-	4 ACSR	575	571	449	131	805	36	26	2.76	6.23	2006
0617033	0617032	8.06	158 3-	3/0 ACSR	570	565	443	131	316	14	5	0.02	6.26	6
OC145296	0617033	8.06	158 3-	REC_35_UNK	570	565	443	131	316	14	42	0.00	6.26	0
0617034	OC145296	10.58	158 3-	3/0 ACSR	485	476	366	125	316	14	5	0.33	6.59	74
0618088	0617034	12.35	88 3-	3/0 ACSR	439	428	328	121	157	7	2	0.12	6.71	14
0618061	0618088	13.17	10 3-	3/0 ACSR	420	409	312	119	17	0	0	0.01	6.72	0
0618062	0618061	13.44	6 3-	3/0 ACSR	414	403	307	119	11	0	0	0.00	6.72	0
0618063	0618062	13.44	0 3-	1/0 ACSR	414	403	307	119	0	0	0	0.00	6.72	0
SW145249-A	0618063	13.44	0 3-	Open	414	403	307	119	0	0	0	0.00	6.72	0
0618044	0618061	13.55	0 1-	2 ACSR	0	0	302	118	0	0	0	0.00	6.72	0
0618042	0618088	12.57	54 1-	4 ACSR	0	0	319	120	89	12	9	0.12	6.83	10
OC145297	0618042	12.57	51 1-	REC_25_UNK	0	0	319	120	86	12	48	0.00	6.83	0
0618043	OC145297	14.25	51 1-	4 ACSR	0	0	266	111	86	12	9	0.45	7.29	24
0718049	0617034	11.18	11 3-	3/0 ACSR	468	458	352	124	26	1	0	0.00	6.59	0
SW145250-A	0718049	11.18	0 3-	Open	468	458	352	124	0	0	0	0.00	6.59	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
0617044	0617032	8.85	182 2-	4 ACSR	0	490	388	125	423	29	21	1.05	7.28	383
0717034	0617044	12.42	71 1-	4 ACSR	0		255	107	147	20	15	1.65	8.94	150
0617038	0617044	8.90	75 1-	4 ACSR	0		385	125	186	26	19	0.06	7.34	10
OC145293	0617038	8.90	75 1-	REC_35_UNK	0		385	125	186	26	76	0.00	7.34	0
0617039	OC145293	8.96	75 1-	4 ACSR	0	0	381	125	186	26	19	0.07	7.41	11
0617036	0617039	9.16	72 1-	6 ACWC	0	0	371	124	175	24	18	0.21	7.62	32
0617035	0617036	9.67	68 1-	4 ACSR	0	0	346	121	156	22	16	0.46	8.08	63
0717017	0617035	9.97	56 1-	6 ACWC	0	0	334	119	129	18	13	0.22	8.30	25
0717020	0717017	11.11	20 1-	6 ACWC	0	0	292	113	44	6	4	0.19	8.49	6
0718065	0717020	11.83	7 1-	4 ACSR	0	0	271	110	9	1	1	0.02	8.51	0
0717018	0717017	10.20	29 1-	6 ACWC	0	0	324	118	64	9	7	0.09	8.39	6
0717019	0717018	11.16	29 1-	4 ACSR	0	0	290	113	64	9	7	0.20	8.59	8
SW145756-A	0717019	11.16	0 1-	Open	0	0	290	113	0	0	0	0.00	8.59	0
0617027	0617031	6.00	14 1-	2 ACSR	0	0	658	146	38	5	3	0.01	3.48	0
0617025	0617027	6.01	14 1-	4 ACSR	0	0	657	146	38	5	4	0.00	3.48	0
OC145292	0617025	6.01	14 1-	REC_25_UNK	0	0	657	146	38	5	21	0.00	3.48	0
0617026	OC145292	7.31	14 1-	4 ACSR	0	0	500	136	38	5	4	0.15	3.63	3
0617037	0617030	4.21	1 1-	2 ACSR	0	0	1118	162	2	0	0	0.00	0.72	0
0616033	0616042	3.50	56 1-	4 ACSR	0	0	1377	166	91	12	9	0.17	1.13	14
OC145298	0616033	3.50	53 1-	REC_35_UNK	0	0	1377	166	89	12	34	0.00	1.13	0
0617051	OC145298	5.70	53 1-	4 ACSR	0	0	673	146	89	12	9	0.59	1.72	31
0616062	0616040	2.45	35 1-	6 ACWC	0	0	1765	169	77	10	7	0.13	0.79	8
0616063	0616062	3.15	32 1-	4 ACSR	0	0	1252	161	68	9	7	0.14	0.94	6
SW145386-B	0616063	3.15	0 1-	Open	0	0	1252	161	0	0	0	0.00	0.94	0
CKT 114 total losses:		\$6,652												
SUB 32, CKT 124														
COLE_124	COLEMANSVILLE	0.00	316 3-	SBS_99_UNK	5453	5696	5761	176	826	36	0	0.00	0.00	0
0616045	COLE_124	0.01	316 3-	336.4 ACSR	5421	5640	5702	176	826	36	7	0.00	0.00	2
0616046	0616045	0.07	316 3-	1/0 ACSR	5235	5338	5394	176	826	36	16	0.03	0.04	23
0616047	0616046	1.95	316 3-	4 ACSR	1435	1426	1198	157	826	36	26	2.62	2.66	1905
0616048	0616047	3.46	233 3-	4 ACSR	857	861	711	144	632	28	21	1.52	4.18	813
0716039	0616048	3.58	134 3-	4 ACSR	830	835	689	143	362	16	12	0.08	4.26	26
0716066	0716039	3.60	0 1-	2 ACSR	0	0	687	143	0	0	0	0.00	4.26	0
0716040	0716039	3.59	134 3-	4 ACSR	829	834	688	143	362	16	12	0.00	4.26	1
OC145329	0716040	3.59	134 3-	70-L	829	834	688	143	362	16	24	0.00	4.26	0
0716041	OC145329	4.50	134 3-	4 ACSR	671	677	556	136	362	16	12	0.52	4.78	162
0716042	0716041	5.07	83 3-	4 ACSR	599	605	497	133	218	10	7	0.22	5.00	43
0716044	0716042	5.33	74 3-	1/0 ACSR	585	590	482	132	203	9	4	0.04	5.04	7
OC146966	0716044	5.33	74 3-	REC_35_UNK	585	590	482	132	203	9	27	0.00	5.04	0
0716045	OC146966	5.68	74 3-	1/0 ACSR	567	571	465	131	203	9	4	0.05	5.09	8
0717033	0716045	7.59	60 1-	4 ACSR	0	0	348	119	165	22	16	0.97	6.06	97
0716043	0716042	5.13	0 3-	4 ACSR	592	598	491	132	0	0	0	0.00	5.00	0
SW145299-A	0716043	5.13	0 3-	Open	592	598	491	132	0	0	0	0.00	5.00	0
0716065	0716041	5.63	18 1-	4 ACSR	0	0	449	129	58	8	6	0.20	4.98	7
0716063	0616048	3.51	41 1-	4 ACSR	0	0	702	144	127	17	13	0.04	4.21	4
OC145326	0716063	3.51	41 1-	REC_99_UNK	0	0	702	144	127	17	0	0.00	4.21	0
0716064	OC145326	5.78	41 1-	4 ACSR	0	0	438	128	127	17	13	0.88	5.09	67
SW145389-A	0716064	5.78	0 1-	Open	0	0	438	128	0	0	0	0.00	5.09	0
0616057	0616047	2.00	62 1-	4 ACSR	0	0	1168	156	132	17	13	0.04	2.70	5
0616058	0616057	2.01	60 1-	2 ACSR	0	0	1166	156	109	14	8	0.00	2.70	0
OC145325	0616058	2.01	60 1-	REC_50_UNK	0	0	1166	156	109	14	30	0.00	2.70	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES CONS	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
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 SUB 32 total losses: \$20,947

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 33	FOUR_OAKS		2062		5179	5463	5518	176	6413					
SUB 33,	CKT 114													
4OAK_114	FOUR_OAKS	0.00	211 3-	SBS_99_UNK	5179	5463	5518	176	587	26	0	0.00	0.00	0
0517053	4OAK_114	0.01	211 3-	3/0 ACSR	5151	5416	5471	176	587	26	9	0.00	0.00	1
0517054	0517053	0.31	211 3-	1/0 ACSR	4307	4260	4106	174	587	26	11	0.14	0.14	66
0517056	0517054	2.54	176 3-	1/0 ACSR	1768	1655	1336	163	512	23	10	0.84	0.98	337
OC145791	0517056	2.54	152 3-	REC_99_UNK	1768	1655	1336	163	456	20	0	0.00	0.98	0
0517057	OC145791	2.57	152 3-	1/0 ACSR	1754	1642	1323	163	456	20	9	0.01	0.99	4
0517063	0517057	3.00	69 1-	4 ACSR	0	0	1108	159	199	27	19	0.49	1.48	81
0517064	0517063	3.13	62 1-	2 ACSR	0	0	1068	158	173	23	13	0.09	1.57	13
0517065	0517064	4.20	59 1-	4 ACSR	0	0	755	149	162	22	16	0.84	2.41	101
0417105	0517065	5.19	20 1-	4 ACSR	0	0	593	141	58	8	6	0.18	2.59	6
0417102	0517065	5.31	11 1-	4 ACSR	0	0	578	140	31	4	3	0.11	2.52	2
0517040	0517057	4.68	74 1-	4 ACSR	0	0	663	145	238	32	23	2.60	3.59	480
0517041	0517040	5.32	50 1-	2 ACSR	0	0	592	141	160	22	12	0.43	4.02	56
0517043	0517041	5.50	13 1-	4 ACSR	0	0	569	140	51	7	5	0.06	4.07	3
SW145774-A	0517043	5.50	11 1-	Closed	0	0	569	140	46	6	0	0.00	4.07	0
SW145774-B	SW145774-A	5.50	11 1-	Closed	0	0	569	140	46	6	0	0.00	4.07	0
0517044	SW145774-B	5.59	11 1-	4 ACSR	0	0	559	139	46	6	5	0.01	4.09	0
0516031	0517041	7.76	34 1-	6 ACSR	0	0	386	125	95	13	9	0.72	4.74	41
0517085	0517057	3.05	9 1-	2 ACSR	0	0	1131	160	19	2	1	0.03	1.02	0
0516033	0517085	4.54	6 1-	6 ACWC	0	0	709	147	8	1	1	0.04	1.06	0
0517071	0517054	0.32	34 1-	2 ACSR	0	0	4085	174	75	10	6	0.00	0.14	0
OC145788	0517071	0.32	34 1-	REC_99_UNK	0	0	4085	174	75	10	0	0.00	0.14	0
0517072	OC145788	2.61	34 1-	2 ACSR	0	0	1170	159	75	10	6	0.55	0.69	29
0517070	0517072	3.01	4 1-	4 ACSR	0	0	1000	155	22	2	2	0.03	0.72	0
0517068	0517072	3.62	9 1-	2 ACSR	0	0	881	152	17	2	1	0.05	0.74	0
0517069	0517068	3.73	2 1-	4 ACSR	0	0	849	151	5	0	0	0.00	0.74	0
CKT 114	total losses:	\$1,220												
SUB 33,	CKT 124													
4OAK_124	FOUR_OAKS	0.00	1017 3-	SBS_99_UNK	5179	5463	5518	176	3223	143	0	0.00	0.00	0
0517047	4OAK_124	0.01	1017 3-	336.4 ACSR	5161	5433	5487	176	3223	143	27	0.01	0.01	16
0517046	0517047	3.56	956 3-	336.4 ACSR	1969	1803	1437	169	3061	135	26	2.30	2.30	4867
0417097	0517046	3.61	149 3-	1/0 ACSR	1942	1776	1414	168	364	16	7	0.01	2.32	4
OC145870	0417097	3.61	149 3-	70-L	1942	1776	1414	168	364	16	24	0.00	2.32	0
0417098	OC145870	4.74	149 3-	1/0 ACSR	1473	1352	1044	163	364	16	7	0.32	2.64	95
0417065	0417098	5.72	71 1-	4 ACSR	0	0	784	153	184	25	18	1.05	3.69	163
0417072	0417065	6.68	43 1-	8 ACWC	0	0	579	142	109	15	15	0.81	4.50	72
0417073	0417072	6.75	29 1-	4 ACSR	0	0	571	141	74	10	7	0.03	4.53	2
0417074	0417073	7.17	25 1-	6 ACWC	0	0	526	138	62	8	6	0.15	4.68	8
0417075	0417074	7.48	21 1-	1/0 ACSR	0	0	507	137	57	8	3	0.05	4.73	2
0417076	0417075	8.08	15 1-	8 ACWC	0	0	441	131	42	5	6	0.18	4.91	6
0417060	0417076	8.63	6 1-	2 ACSR	0	0	412	128	21	2	2	0.03	4.93	0
0417066	0417065	5.84	21 1-	4 ACSR	0	0	759	152	52	7	5	0.04	3.73	2
0417067	0417066	5.86	21 1-	6 ACWC	0	0	754	152	52	7	5	0.01	3.74	0
0417068	0417067	5.90	20 1-	4 ACSR	0	0	747	152	43	6	4	0.01	3.74	0
0417069	0417068	5.91	17 1-	8 ACWC	0	0	746	152	30	4	4	0.00	3.75	0
OC145881	0417069	5.91	17 1-	REC_99_UNK	0	0	746	152	30	4	0	0.00	3.75	0
0417070	OC145881	7.00	17 1-	8 ACWC	0	0	538	139	30	4	4	0.15	3.90	3
0417071	0417070	7.39	1 1-	4 ACSR	0	0	499	136	0	0	0	0.00	3.90	0
0417109	0417098	4.96	70 1-	4 ACSR	0	0	975	161	167	23	16	0.22	2.86	33

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
OC145880	0417109	4.96	70 1-	REC_35_UNK	0	0	975	161	167	23	66	0.00	2.86	0
0417110	OC145880	5.47	70 1-	4 ACSR	0	0	838	156	167	23	16	0.52	3.39	75
0417114	0417110	5.95	56 1-	1/0 ACSR	0	0	769	154	140	19	8	0.20	3.59	22
0417115	0417114	7.47	54 1-	4 ACSR	0	0	546	141	137	18	14	0.65	4.23	52
0417111	0417110	5.62	11 1-	4 ACSR	0	0	805	154	16	2	2	0.01	3.40	0
0417112	0417111	5.85	11 1-	6 ACWC	0	0	757	152	16	2	2	0.02	3.42	0
0417113	0417112	5.99	3 1-	4 ACSR	0	0	731	151	5	0	0	0.00	3.42	0
0417080	0517046	3.89	592 3-	336.4 ACSR	1859	1698	1343	168	1786	80	15	0.13	2.44	209
0417085	0417080	4.05	590 3-	336.4 ACSR	1812	1653	1303	168	1782	81	15	0.08	2.52	100
0417078	0417085	4.08	20 2-	2 ACSR	0	1635	1289	167	57	3	2	0.00	2.52	0
0417104	0417078	4.16	9 1-	4 ACSR	0	0	1252	167	36	4	4	0.01	2.53	0
0417086	0417085	4.09	562 3-	336.4 ACSR	1801	1642	1293	168	1705	78	15	0.02	2.54	23
OC145873	0417086	4.09	562 3-	REC_100_UNK	1801	1642	1293	168	1705	78	78	0.00	2.54	0
0417087	OC145873	4.11	562 3-	336.4 ACSR	1793	1635	1287	168	1705	78	15	0.01	2.55	16
0417062	0417087	4.52	86 1-	4 ACSR	0	0	1112	163	313	43	31	0.52	3.08	111
0417063	0417062	4.67	28 1-	2 ACSR	0	0	1067	162	96	13	7	0.05	3.12	3
0417116	0417063	5.07	14 1-	1/0 URD PRI AL	0	0	983	355	47	6	4	0.04	3.16	0
0417064	0417116	5.19	0 1-	4 ACSR	0	0	948	158	0	0	0	0.00	3.16	0
SW145983-B	0417064	5.19	0 1-	Open	0	0	948	158	0	0	0	0.00	3.16	0
0417088	0417087	4.29	472 3-	336.4 ACSR	1742	1587	1245	167	1384	63	12	0.07	2.62	63
0417081	0417088	4.37	408 3-	1/0 ACSR	1711	1556	1221	167	1204	55	24	0.07	2.69	65
0417082	0417081	4.62	349 3-	4 ACSR	1571	1444	1120	164	1064	48	35	0.48	3.17	468
0417083	0417082	5.40	349 3-	4 ACSR	1210	1144	876	157	1060	48	35	1.50	4.67	1455
0417106	0417083	5.47	49 1-	4 ACSR	0	0	858	156	116	16	12	0.05	4.72	5
OC145875	0417106	5.47	49 1-	REC_35_UNK	0	0	858	156	116	16	46	0.00	4.72	0
0416014	OC145875	8.13	49 1-	4 ACSR	0	0	473	134	116	16	12	1.09	5.81	79
0416010	0416014	8.56	5 1-	6 ACWC	0	0	441	132	13	1	1	0.02	5.82	0
0417084	0417083	5.90	299 3-	4 ACSR	1039	994	762	152	932	43	31	0.84	5.51	725
RG145018	0417084	5.90	291 3-	219	1039	994	762	152	900	42	19	-5.51	0.00	0
0417089	RG145018	6.51	291 3-	4 ACSR	879	850	654	147	900	40	29	0.90	0.90	684
0417092	0417089	6.59	80 3-	4 ACSR	862	835	643	146	319	14	10	0.04	0.94	13
0416007	0417092	6.59	76 3-	6 ACWC	862	835	642	146	315	14	10	0.00	0.94	0
OC145884	0416007	6.59	76 3-	REC_50_UNK	862	835	642	146	315	14	29	0.00	0.94	0
0416008	OC145884	7.42	76 3-	6 ACWC	714	698	540	140	315	14	10	0.41	1.36	110
0416009	0416008	10.51	65 3-	4 ACSR	426	425	334	120	255	11	8	0.70	2.06	108
SW145795-B	0416009	10.51	0 3-	Open	426	425	334	120	0	0	0	0.00	2.06	0
0416006	0417092	6.95	4 1-	4 ACSR	0	0	594	143	4	0	0	0.00	0.95	0
0417093	0417089	6.61	174 3-	4 ACSR	858	831	640	146	427	19	14	0.07	0.97	28
0417094	0417093	6.62	173 3-	6 ACWC	857	830	639	146	426	19	14	0.00	0.98	2
OC145878	0417094	6.62	173 3-	REC_50_UNK	857	830	639	146	426	19	39	0.00	0.98	0
0417090	OC145878	6.93	173 3-	6 ACWC	796	774	597	143	426	19	14	0.22	1.19	79
0417091	0417090	7.83	153 3-	6 ACWC	658	645	501	137	353	16	11	0.54	1.73	169
0417095	0417091	9.22	140 3-	4 ACSR	514	509	398	127	330	15	11	0.74	2.48	207
0417077	0417095	10.42	32 2-	4 ACSR	0	429	338	120	90	6	4	0.16	2.64	8
0417100	0417095	9.24	37 1-	2 ACSR	0	0	397	127	77	10	6	0.01	2.48	0
OC145879	0417100	9.24	37 1-	REC_99_UNK	0	0	397	127	77	10	0	0.00	2.48	0
0317009	OC145879	10.64	37 1-	2 ACSR	0	0	343	121	77	10	6	0.25	2.73	11
0317003	0317009	11.12	5 1-	4 ACSR	0	0	324	119	6	0	1	0.01	2.74	0
0417096	0417095	11.73	36 3-	4 ACSR	367	367	290	113	95	4	3	0.21	2.69	12
SW145797-B	0417096	11.73	0 3-	Open	367	367	290	113	0	0	0	0.00	2.69	0
0417103	0417090	7.02	5 1-	4 ACSR	0	0	585	143	16	2	2	0.00	1.20	0
SW145796-A	0417103	7.02	1 1-	Closed	0	0	585	143	0	0	0	0.00	1.20	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW145796-B	SW145796-A	7.02	1 1-	Closed	0	0	585	143	0	0	0	0.00	1.20	0
0417099	SW145796-B	7.04	1 1-	4 ACSR	0	0	583	143	0	0	0	0.00	1.20	0
0417061	0417082	4.62	0 1-	4 ACSR	0	0	1118	164	0	0	0	0.00	3.17	0
SW145983-A	0417061	4.62	0 1-	Open	0	0	1118	164	0	0	0	0.00	3.17	0
CA145022	0417080	3.89	0 3-	Capacitor	1859	1698	1343	168	0	-14	0	0.00	2.44	0
0517048	0517047	0.50	61 3-	4 ACSR	3392	3295	3067	171	162	7	5	0.12	0.13	16
0517062	0517048	0.51	40 1-	2 ACSR	0	0	3052	171	114	15	9	0.00	0.13	0
OC145874	0517062	0.51	40 1-	REC_50_UNK	0	0	3052	171	114	15	31	0.00	0.13	0
0517060	OC145874	0.90	40 1-	2 ACSR	0	0	2310	168	114	15	9	0.18	0.31	17
0517059	0517060	1.12	2 1-	4 ACSR	0	0	1955	166	8	1	1	0.01	0.32	0
OC415306514	0517059	1.12	0 1-	19192	0	0	1955	166	0	0	0	0.00	0.32	0
0517078	OC415306514	1.13	0 1-	1/0 URD PRI AL	0	0	1947	397	0	0	0	0.00	0.32	0
0517058	0517060	2.90	36 1-	2 ACSR	0	0	1009	155	99	13	7	0.42	0.73	23
CKT 124 total losses:		\$10,231												
SUB 33, CKT 134														
40AK_134	FOUR_OAKS	0.00	815 3-	SBS_99_UNK	5179	5463	5518	176	2138	96	0	0.00	0.00	0
0517055	40AK_134	1.18	815 3-	3/0 ACSR	3015	2852	2511	172	2138	96	32	1.35	1.35	2101
0517066	0517055	1.23	43 1-	4 ACSR	0	0	2416	171	102	13	10	0.03	1.38	3
OC145956	0517066	1.23	43 1-	REC_99_UNK	0	0	2416	171	102	13	0	0.00	1.38	0
0517067	OC145956	3.26	43 1-	4 ACSR	0	0	891	152	102	13	10	0.64	2.02	38
0517049	0517055	1.57	747 3-	3/0 ACSR	2628	2456	2110	171	1956	89	30	0.42	1.77	614
0517074	0517049	1.58	65 1-	4 ACSR	0	0	2103	170	139	19	14	0.00	1.77	0
OC145957	0517074	1.58	65 1-	REC_99_UNK	0	0	2103	170	139	19	0	0.00	1.77	0
0517075	OC145957	2.52	65 1-	4 ACSR	0	0	1269	161	139	19	14	0.77	2.55	91
0517077	0517075	4.25	40 1-	4 ACSR	0	0	705	146	82	11	8	0.86	3.41	62
0518050	0517077	5.96	14 1-	4 ACSR	0	0	486	133	42	5	4	0.22	3.63	6
0517084	0517077	6.40	20 1-	4 ACSR	0	0	450	130	37	5	4	0.25	3.66	5
0518058	0517075	3.24	19 1-	4 ACSR	0	0	957	154	44	6	4	0.15	2.69	5
0518047	0518058	3.30	5 1-	6 ACWC	0	0	937	154	22	2	2	0.01	2.70	0
0518048	0518047	3.52	3 1-	4 ACSR	0	0	871	152	17	2	2	0.01	2.71	0
0517050	0517049	3.45	678 3-	3/0 ACSR	1620	1491	1195	164	1800	82	27	1.82	3.59	2444
0518034	0517050	3.93	402 3-	3/0 ACSR	1475	1358	1076	162	1012	46	16	0.26	3.85	204
0518031	0518034	1.17	342 3-	336.4 ACSR	1428	1314	1036	162	904	41	8	0.07	3.92	42
SW145887-A	0518031	4.17	342 3-	Closed	1428	1314	1036	162	904	41	0	0.00	3.92	0
SW145887-B	SW145887-A	4.17	342 3-	Closed	1428	1314	1036	162	904	41	0	0.00	3.92	0
0518032	SW145887-B	4.46	342 3-	336.4 ACSR	1378	1267	993	161	904	41	8	0.08	4.00	48
0518029	0518032	4.51	333 3-	3/0 ACSR	1365	1255	983	161	883	41	14	0.03	4.02	18
0618089	0518029	5.44	333 3-	336.4 ACSR	1224	1123	866	159	882	41	8	0.25	4.27	150
0618064	0618089	5.69	324 3-	3/0 ACSR	1178	1083	835	158	860	40	13	0.12	4.39	77
0618065	0618064	6.14	320 3-	336.4 ACSR	1124	1032	791	157	846	39	7	0.12	4.51	68
0618080	0618065	6.17	25 1-	4 ACSR	0	0	786	157	69	9	7	0.01	4.52	0
0618081	0618080	6.18	25 1-	6 ACWC	0	0	785	157	69	9	7	0.00	4.52	0
OC145962	0618081	6.18	25 1-	REC_25_UNK	0	0	785	157	69	9	39	0.00	4.52	0
0618082	OC145962	8.13	25 1-	6 ACWC	0	0	519	140	69	9	7	0.42	4.94	17
0618067	0618065	6.22	288 3-	336.4 ACSR	1115	1024	784	157	767	35	7	0.02	4.52	9
0618068	0618067	6.29	269 3-	3/0 ACSR	1104	1014	776	157	712	33	11	0.03	4.55	14
0618050	0618068	6.56	264 3-	336.4 ACSR	1076	988	753	156	691	32	6	0.05	4.61	26
0618048	0618050	6.60	23 3-	336.4 ACSR	1071	983	750	156	84	3	1	0.00	4.61	0
0618049	0618048	6.72	23 3-	1/0 ACSR	1051	966	736	156	84	3	2	0.00	4.61	0
OC-2079624629	0618049	6.72	3 3-	_DefaultBayEqui	1051	966	736	156	14	0	0	0.00	4.61	0
0618059	OC-2079624629	7.32	3 3-	1/0 ACSR	959	885	671	153	14	0	0	0.00	4.62	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW145249-B	0618059	7.32	0 3-	Open	959	885	671	153	0	0	0	0.00	4.62	0
0618051	0618050	6.62	226 3-	4 ACSR	1061	976	743	156	565	26	19	0.06	4.66	31
OC145965	0618051	6.62	224 3-	REC_99_UNK	1061	976	743	156	565	26	0	0.00	4.66	0
0618052	OC145965	8.40	224 3-	4 ACSR	709	677	514	141	565	26	19	1.75	6.41	885
0618053	0618052	8.52	201 3-	4 ACSR	692	662	503	140	496	23	17	0.11	6.52	53
0618045	0618053	8.94	2 1-	4 ACSR	0	0	468	137	0	0	0	0.00	6.52	0
0618054	0618053	9.12	199 3-	4 ACSR	618	596	455	135	496	23	17	0.54	7.07	253
0618056	0618054	9.93	109 3-	4 ACSR	538	523	401	130	271	12	9	0.41	7.48	106
RG145040	0618056	9.93	107 3-	219	538	523	401	130	268	12	6	-7.48	0.00	0
0618057	RG145040	10.62	107 3-	4 ACSR	485	473	365	125	268	12	9	0.28	0.28	60
0618046	0618057	10.64	82 1-	4 ACSR	0	0	364	125	188	25	18	0.03	0.30	4
OC145967	0618046	10.64	82 1-	REC_35_UNK	0	0	364	125	188	25	73	0.00	0.30	0
0619034	OC145967	12.31	82 1-	4 ACSR	0	0	297	116	188	25	18	1.63	1.94	239
0619019	0619034	13.11	61 1-	6 ACWC	0	0	273	112	131	17	13	0.45	2.39	41
0619018	0619019	16.72	34 1-	6 ACWC	0	0	200	96	50	6	5	0.55	2.94	16
0619020	0619019	13.25	1 1-	4 ACSR	0	0	269	111	3	0	0	0.00	2.39	0
0618058	0618057	10.63	0 3-	1/0 ACSR	484	473	364	125	0	0	0	0.00	0.28	0
SW146123-A	0618058	10.63	0 3-	Open	484	473	364	125	0	0	0	0.00	0.28	0
0518055	0618054	11.91	83 3-	4 ACSR	408	401	311	118	212	10	7	0.90	7.97	158
0518028	0518055	13.31	24 3-	4 ACSR	347	343	267	111	84	4	3	0.11	8.08	6
SW145888-B	0518028	13.31	0 3-	Open	347	343	267	111	0	0	0	0.00	8.08	0
0518026	0518055	11.91	24 1-	4 ACSR	0	0	311	118	48	6	5	0.00	7.97	0
OC145966	0518026	11.91	24 1-	REC_35_UNK	0	0	311	118	48	6	20	0.00	7.97	0
0519006	OC145966	14.72	24 1-	4 ACSR	0	0	235	104	48	6	5	0.43	8.41	13
SW145986-B	0618052	8.40	0 1-	Open	0	0	514	141	0	0	0	0.00	6.41	0
0518035	0518034	4.12	54 1-	4 ACSR	0	0	1009	160	99	13	10	0.12	3.97	10
0518036	0518035	4.17	54 1-	2 ACSR	0	0	996	160	99	13	8	0.02	3.99	2
0518041	0518036	4.17	21 1-	2 ACSR	0	0	994	160	38	5	3	0.00	3.99	0
OC145960	0518041	4.17	21 1-	REC_35_UNK	0	0	994	160	38	5	15	0.00	3.99	0
0518044	OC145960	4.31	21 1-	2 ACSR	0	0	960	159	38	5	3	0.02	4.01	0
0518045	0518044	4.91	20 1-	4 ACSR	0	0	804	153	34	4	3	0.08	4.09	2
0518046	0518045	5.28	7 1-	6 ACWC	0	0	730	150	8	1	1	0.01	4.10	0
0518042	0518046	6.06	3 1-	4 ACSR	0	0	607	144	3	0	0	0.01	4.12	0
0518043	0518042	6.95	3 1-	6 ACWC	0	0	508	137	3	0	0	0.01	4.13	0
0518037	0518036	4.17	33 1-	2 ACSR	0	0	994	160	61	8	5	0.00	3.99	0
OC145961	0518037	4.17	33 1-	REC_35_UNK	0	0	994	160	61	8	24	0.00	3.99	0
0518038	OC145961	4.50	33 1-	2 ACSR	0	0	917	158	61	8	5	0.08	4.07	4
0518039	0518038	5.79	30 1-	4 ACSR	0	0	650	146	55	7	6	0.32	4.39	12
0518040	0518039	6.61	9 1-	6 ACWC	0	0	546	140	22	3	2	0.06	4.45	0
0618076	0518040	7.59	2 1-	4 ACSR	0	0	457	133	2	0	0	0.01	4.46	0
SW145986-A	0618076	7.59	0 1-	Open	0	0	457	133	0	0	0	0.00	4.46	0
0517082	0517050	3.53	251 3-	1/0 ACSR	1590	1464	1171	164	719	33	14	0.05	3.63	27
OC146970	0517082	3.53	248 3-	REC_50_UNK	1590	1464	1171	164	711	32	66	0.00	3.63	0
0517051	OC146970	3.62	248 3-	1/0 ACSR	1555	1433	1144	163	711	32	14	0.05	3.69	31
0517052	0517051	4.76	248 3-	3/0 ACSR	1269	1170	913	159	711	32	11	0.43	4.12	232
0517073	0517052	5.98	91 1-	4 ACSR	0	0	664	148	278	38	28	1.99	6.11	469
0617046	0517073	5.98	81 1-	2 ACSR	0	0	663	148	234	33	18	0.01	6.12	1
OC145968	0617046	5.98	81 1-	REC_35_UNK	0	0	663	148	234	33	95	0.00	6.12	0
0617047	OC145968	6.75	81 1-	2 ACSR	0	0	582	144	234	33	18	0.77	6.89	153
0617048	0617047	8.95	72 1-	4 ACSR	0	0	398	128	218	31	22	1.54	8.43	204
0517061	0517052	6.97	145 1-	4 ACSR	0	0	538	140	396	55	39	4.11	8.22	1199
0517083	0517061	7.52	6 1-	4 ACSR	0	0	486	136	22	3	2	0.04	8.26	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 34	LEES_LICK		2133		5785	6273	6244	176	9202					
SUB 34,	CKT 104													
LEES_104	LEES_LICK	0.00	593 3-	SBS_99_UNK	5785	6273	6244	176	2530	113	0	0.00	0.00	0
0916069	LEES_104	1.10	593 3-	3/0 ACSR	3265	3100	2792	172	2530	113	38	1.47	1.47	2745
0916075	0916069	2.28	575 3-	1/0 ACSR	2072	1947	1602	166	2436	110	48	2.20	3.67	4364
0916066	0916075	2.28	14 1-	6 ACWC	0	0	1597	166	37	5	4	0.00	3.67	0
OC146455	0916066	2.28	14 1-	REC_50_UNK	0	0	1597	166	37	5	10	0.00	3.67	0
0916067	OC146455	2.56	14 1-	6 ACWC	0	0	1397	164	37	5	4	0.05	3.72	2
0915104	0916067	3.03	10 1-	4 ACSR	0	0	1138	159	29	3	3	0.06	3.78	0
0915052	0915104	3.59	6 1-	6 ACWC	0	0	928	154	10	1	1	0.03	3.80	0
0915053	0915052	3.74	2 1-	4 ACSR	0	0	882	153	4	0	0	0.00	3.81	0
0816082	0916075	3.13	544 3-	1/0 ACSR	1624	1527	1217	162	2288	105	46	1.54	5.21	2954
0816046	0816082	3.14	61 1-	4 ACSR	0	0	1214	162	247	34	25	0.01	5.22	2
0816049	0816046	4.68	9 1-	4 ACSR	0	0	732	148	22	3	2	0.10	5.32	1
0815036	0816049	4.68	0 1-	UNK	0	0	732	148	0	0	0	0.00	5.32	0
SW146799-A	0815036	4.68	0 1-	Open	0	0	732	148	0	0	0	0.00	5.32	0
0816047	0816046	3.29	52 1-	4 ACSR	0	0	1142	161	225	31	22	0.22	5.43	44
OC146456	0816047	3.29	49 1-	REC_35_UNK	0	0	1142	161	221	30	88	0.00	5.43	0
0816048	OC146456	5.00	49 1-	4 ACSR	0	0	674	146	221	30	22	1.17	6.60	156
0815063	0816082	3.47	478 3-	1/0 ACSR	1496	1407	1111	161	2005	93	41	0.54	5.75	916
RG145030	0815063	3.47	473 3-	219	1496	1407	1111	161	1987	93	43	-5.75	0.00	0
0815040	RG145030	4.27	473 3-	1/0 ACSR	1258	1185	921	157	1987	89	39	1.19	1.19	1923
0815041	0815040	5.13	464 3-	1/0 ACSR	1073	1012	778	153	1918	86	38	1.25	2.44	1969
0815039	0815041	5.27	333 3-	1/0 ACSR	1048	989	758	152	1301	59	26	0.14	2.59	154
OC146464	0815039	5.27	331 3-	REC_100_UNK	1048	989	758	152	1288	58	59	0.00	2.59	0
0815043	OC146464	7.23	331 3-	1/0 ACSR	789	746	563	144	1288	58	26	1.85	4.44	1934
0815037	0815043	7.41	110 3-	1/0 ACSR	772	730	550	143	407	18	8	0.06	4.49	19
0815056	0815037	7.41	74 1-	4 ACSR	0	0	549	143	288	40	29	0.01	4.50	3
OC146465	0815056	7.41	74 1-	REC_50_UNK	0	0	549	143	288	40	80	0.00	4.50	0
0914002	OC146465	12.15	74 1-	4 ACSR	0	0	282	113	288	40	29	4.23	8.74	732
0815032	0815037	7.41	35 1-	4 ACSR	0	0	549	143	113	15	11	0.00	4.50	0
OC146466	0815032	7.41	35 1-	REC_50_UNK	0	0	549	143	113	15	31	0.00	4.50	0
0815033	OC146466	7.57	35 1-	4 ACSR	0	0	534	142	113	15	11	0.11	4.61	11
0815034	0815033	9.06	35 1-	6 ACWC	0	0	417	131	113	15	11	0.75	5.36	62
0815035	0815034	9.25	16 1-	4 ACSR	0	0	405	130	51	7	5	0.06	5.42	3
0915064	0815035	9.45	15 1-	6 ACWC	0	0	394	129	51	7	5	0.05	5.46	2
0915065	0915064	10.62	9 1-	4 ACSR	0	0	337	121	29	3	3	0.10	5.57	2
0815044	0815043	9.34	186 3-	1/0 ACSR	623	589	440	136	735	34	15	1.19	5.63	740
0814023	0815044	9.38	1 1-	4 ACSR	0	0	438	135	2	0	0	0.00	5.63	0
0814017	0815044	9.37	181 3-	1/0 ACSR	621	588	439	135	704	32	14	0.02	5.65	9
OC146469	0814017	9.37	181 3-	REC_35_UNK	621	588	439	135	704	32	94	0.00	5.65	0
0814018	OC146469	9.61	181 3-	1/0 ACSR	606	574	428	135	704	32	14	0.13	5.77	76
0814016	0814018	10.21	110 3-	1/0 ACSR	573	543	404	132	371	17	8	0.17	5.95	56
0814013	0814016	11.09	53 1-	4 ACSR	0	0	359	127	222	31	22	1.21	7.15	240
0814014	0814013	11.31	49 1-	2 ACSR	0	0	351	126	210	29	17	0.19	7.35	35
0714002	0814014	11.88	46 1-	4 ACSR	0	0	328	122	190	27	19	0.47	7.81	65
0715027	0714002	12.06	19 1-	2 ACSR	0	0	323	121	71	10	6	0.05	7.86	3
0715028	0715027	13.79	16 1-	4 ACSR	0	0	268	112	62	8	6	0.34	8.20	13
0814019	0814016	10.68	56 1-	2 ACSR	0	0	384	130	149	20	12	0.28	6.23	35
0814020	0814019	12.43	46 1-	4 ACSR	0	0	310	119	129	18	13	1.17	7.40	121
0814021	0814020	12.54	24 1-	6 ACWC	0	0	306	119	82	11	8	0.04	7.44	3
0814022	0814021	14.32	16 1-	4 ACSR	0	0	255	110	53	7	5	0.30	7.74	10

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
0815064	0814018	10.43	62 1-	4 ACSR	0	0	381	129	276	38 28	1.04	6.82	217	
0815054	0815064	10.55	25 1-	2 ACSR	0	0	377	128	132	18 10	0.07	6.88	8	
OC146470	0815054	10.55	25 1-	REC_35_UNK	0	0	377	128	131	18 53	0.00	6.88	0	
0815055	OC146470	12.79	25 1-	2 ACSR	0	0	305	119	131	18 10	0.66	7.54	52	
0815058	0815055	12.80	1 1-	1/0 URD PRI AL	0	0	305	193	4	0 0	0.00	7.54	0	
0815042	0815041	5.19	113 3-	1/0 ACSR	1062	1001	768	153	558	25 11	0.03	2.47	13	
OC146459	0815042	5.19	113 3-	REC_70_UNK	1062	1001	768	153	558	25 36	0.00	2.47	0	
0815038	OC146459	6.73	113 3-	1/0 ACSR	843	796	603	146	558	25 11	0.56	3.03	237	
0815053	0815038	7.72	78 1-	4 ACSR	0	0	498	138	393	53 39	1.59	4.62	435	
0815049	0815053	7.72	16 1-	6 ACWC	0	0	498	138	81	11 8	0.00	4.63	0	
OC146460	0815049	7.72	16 1-	REC_35_UNK	0	0	498	138	81	11 32	0.00	4.63	0	
0815050	OC146460	9.08	16 1-	6 ACWC	0	0	401	129	81	11 8	0.45	5.07	25	
0815051	0815050	9.76	5 1-	4 ACSR	0	0	364	125	26	3 3	0.06	5.13	0	
0815047	0815053	7.73	12 1-	4 ACSR	0	0	497	138	51	7 5	0.00	4.63	0	
OC146461	0815047	7.73	12 1-	REC_25_UNK	0	0	497	138	51	7 29	0.00	4.63	0	
0815048	OC146461	9.53	12 1-	4 ACSR	0	0	375	126	51	7 5	0.29	4.91	9	
0815052	0815040	4.27	0 1-	4 ACSR	0	0	920	157	0	0 0	0.00	1.19	0	
SW146801-A	0815052	4.27	0 1-	Open	0	0	920	157	0	0 0	0.00	1.19	0	
CKT 104 total losses:		\$20,400												
SUB 34, CKT 114														
LEES_114	LEES_LICK	0.00	704 3-	SBS_99_UNK	5785	6273	6244	176	2839	127 0	0.00	0.00	0	
0916085	LEES_114	1.10	704 3-	3/0 ACSR	3265	3100	2791	172	2839	127 43	1.63	1.63	3425	
0816081	0916085	3.17	683 3-	336.4 ACSR	2027	1873	1512	168	2708	123 23	1.56	3.19	2802	
0816056	0816081	5.18	571 3-	336.4 ACSR	1480	1358	1045	164	2181	100 19	1.21	4.40	1796	
0816063	0816056	5.59	255 3-	4 ACSR	1301	1212	924	160	945	43 31	0.69	5.09	608	
OC146551	0816063	5.59	254 3-	REC_50_UNK	1301	1212	924	160	935	43 87	0.00	5.09	0	
0816064	OC146551	5.79	254 3-	4 ACSR	1222	1145	872	158	935	43 31	0.34	5.43	292	
0816066	0816064	7.35	234 3-	2ACWC	951	894	662	151	846	39 16	0.97	6.40	691	
0716050	0816066	8.12	168 3-	2ACWC	857	807	597	147	593	27 12	0.31	6.71	152	
0716046	0716050	8.26	62 3-	2ACWC	841	793	587	147	271	12 5	0.03	6.74	6	
0716047	0716046	9.73	51 3-	4 ACSR	624	602	451	135	236	11 8	0.54	7.29	109	
0716048	0716047	9.79	3 3-	4 ACSR	618	596	447	135	21	1 1	0.00	7.29	0	
0716049	0716048	10.05	2 3-	1/0 ACSR	602	581	435	134	14	0 0	0.00	7.29	0	
SW145299-B	0716049	10.05	0 3-	Open	602	581	435	134	0	0 0	0.00	7.29	0	
0716038	0716047	10.10	30 1-	4 ACSR	0	0	426	133	144	20 15	0.17	7.45	15	
0716056	0716050	8.22	72 1-	4 ACSR	0	0	586	146	193	27 20	0.12	6.83	21	
OC146552	0716056	8.22	70 1-	REC_25_UNK	0	0	586	146	188	26 106	0.00	6.83	0	
0716057	OC146552	10.38	70 1-	4 ACSR	0	0	405	130	188	26 19	1.46	8.29	180	
0716055	0716057	11.26	7 1-	6 ACWC	0	0	359	125	26	3 3	0.07	8.37	1	
0716059	0816066	7.43	39 1-	6 ACWC	0	0	652	150	166	23 17	0.05	6.45	6	
0816084	0716059	8.62	15 1-	4 ACSR	0	0	514	140	68	9 7	0.25	6.71	10	
0816065	0816064	6.48	16 3-	2ACWC	1086	1020	765	154	58	2 1	0.02	5.45	0	
SW145557-B	0816065	6.48	0 3-	Open	1086	1020	765	154	0	0 0	0.00	5.45	0	
0816057	0816056	5.67	274 3-	1/0 ACSR	1339	1233	940	161	989	45 20	0.37	4.77	307	
OC146557	0816057	5.67	270 3-	REC_70_UNK	1339	1233	940	161	966	44 64	0.00	4.77	0	
0816058	OC146557	6.73	270 3-	1/0 ACSR	1101	1019	766	156	966	44 20	0.79	5.55	642	
0816062	0816058	6.81	38 3-	1/0 ACSR	1087	1006	755	156	150	7 3	0.01	5.56	0	
0816039	0816062	8.39	35 1-	4 ACSR	0	0	539	142	139	19 14	0.69	6.25	58	
0815031	0816039	8.48	0 1-	UNK	0	0	533	142	0	0 0	0.00	6.25	0	
SW146799-B	0815031	8.48	0 1-	Open	0	0	533	142	0	0 0	0.00	6.25	0	
0816060	0816058	7.20	220 3-	1/0 ACSR	1020	946	708	154	767	35 16	0.28	5.84	187	

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 34, CKT 134														
LEES_134	LEES_LICK	0.00	682 3-	SBS_99_UNK	5785	6273	6244	176	3173	143	0	0.00	0.00	0
0916073	LEES_134	0.39	682 3-	336.4 ACSR	4824	4823	4686	175	3173	143	27	0.38	0.38	778
0916086	0916073	0.74	33 3-	336.4 ACSR	4207	4055	3802	174	112	5	1	0.01	0.38	0
0916068	0916086	2.08	19 3-	4 ACSR	1699	1677	1398	161	49	2	2	0.06	0.44	2
0916074	0916073	2.03	643 3-	336.4 ACSR	2833	2646	2277	172	3033	137	26	1.46	1.84	2888
0915077	0916074	2.40	617 3-	3/0 ACSR	2507	2330	1962	171	2880	131	44	0.57	2.41	1251
OC146963	0915077	2.40	613 3-	REC_99_RPF	2507	2330	1962	171	2839	130	0	0.00	2.41	0
0915078	OC146963	3.48	613 3-	3/0 ACSR	1874	1732	1395	167	2839	130	43	1.62	4.03	3516
0915070	0915078	4.74	531 3-	1/0 ACSR	1382	1284	998	161	2476	114	50	2.45	6.48	5095
0915089	0915070	4.80	26 1-	4 ACSR	0	0	979	160	89	12	9	0.03	6.51	3
OC146662	0915089	4.80	26 1-	REC_99_UNK	0	0	979	160	89	12	0	0.00	6.51	0
0915090	OC146662	6.52	26 1-	4 ACSR	0	0	621	145	89	12	9	0.50	7.01	28
0915091	0915090	6.65	1 1-	2 ACSR	0	0	607	144	3	0	0	0.00	7.01	0
0915071	0915070	5.46	496 3-	1/0 ACSR	1198	1117	857	157	2313	109	47	1.32	7.79	2628
0915082	0915071	5.49	57 3-	1/0 ACSR	1193	1112	853	157	317	15	7	0.01	7.80	2
0915100	0915082	5.49	57 1-	4 ACSR	0	0	851	157	317	45	32	0.01	7.81	3
OC146663	0915100	5.49	57 1-	REC_99_UNK	0	0	851	157	317	45	0	0.00	7.81	0
0915101	OC146663	6.91	57 1-	4 ACSR	0	0	602	145	317	45	32	2.05	9.87	489
1015134	0915101	7.26	23 1-	6 ACWC	0	0	561	142	135	19	14	0.27	10.13	32
1015123	1015134	8.08	18 1-	4 ACSR	0	0	481	136	106	15	11	0.28	10.42	19
0915072	0915071	6.19	429 3-	1/0 ACSR	1055	985	749	154	1946	92	40	1.09	8.88	1813
RG145044	0915072	6.19	400 3-	219	1055	985	749	154	1780	85	39	-8.88	0.00	0
0915073	RG145044	6.25	400 3-	1/0 ACSR	1044	976	741	154	1780	79	35	0.08	0.08	121
0915074	0915073	6.43	366 3-	1/0 ACSR	1014	948	719	153	1659	74	32	0.23	0.31	310
0915079	0915074	6.51	132 3-	1/0 ACSR	1001	936	709	152	526	23	10	0.03	0.34	14
0915080	0915079	6.95	105 3-	1/0 ACSR	937	877	662	150	436	19	8	0.13	0.47	46
OC146979	0915080	6.95	97 3-	REC_99_UNK	937	877	662	150	377	16	0	0.00	0.47	0
0915081	OC146979	8.26	97 3-	1/0 ACSR	785	736	551	145	377	16	7	0.26	0.73	64
0915087	0915081	10.45	37 1-	4 ACSR	0	0	387	129	148	19	14	0.98	1.71	85
0915088	0915087	10.54	1 1-	2 ACSR	0	0	383	128	1	0	0	0.00	1.71	0
0915062	0915079	7.31	25 1-	8 ACWC	0	0	566	143	89	11	12	0.38	0.73	23
0915063	0915062	7.60	5 1-	4 ACSR	0	0	535	140	22	2	2	0.02	0.75	0
0915075	0915074	6.47	227 3-	1/0 ACSR	1009	943	715	153	1116	49	22	0.03	0.34	26
OC146669	0915075	6.47	227 3-	REC_70_UNK	1009	943	715	153	1116	49	71	0.00	0.34	0
0915076	OC146669	7.77	227 3-	1/0 ACSR	835	783	588	147	1116	49	22	0.97	1.31	822
1015089	0915076	9.65	130 3-	1/0 ACSR	669	629	468	139	649	29	13	0.72	2.03	333
1015112	1015089	9.65	50 1-	4 ACSR	0	0	467	139	212	28	21	0.01	2.03	1
OC146670	1015112	9.65	50 1-	REC_99_UNK	0	0	467	139	212	28	0	0.00	2.03	0
1015113	OC146670	10.76	50 1-	4 ACSR	0	0	396	131	212	28	21	1.36	3.40	247
1014004	1015113	11.00	2 1-	4 ACSR	0	0	383	129	16	2	2	0.01	3.41	0
1014003	1015113	12.76	41 1-	4 ACSR	0	0	308	119	177	24	17	1.08	4.48	114
1015108	1015089	9.69	9 1-	4 ACSR	0	0	464	139	41	5	4	0.01	2.04	0
1015109	1015108	9.97	8 1-	8 ACWC	0	0	439	136	34	4	5	0.08	2.12	2
1015111	1015109	10.45	4 1-	4 ACSR	0	0	409	132	23	3	2	0.03	2.15	0
1015110	1015109	10.53	3 1-	8 ACWC	0	0	394	130	8	1	1	0.02	2.13	0
1015090	1015089	9.67	12 3-	1/0 ACSR	667	627	467	139	110	4	2	0.00	2.03	0
1015091	1015090	10.34	12 3-	336.4 ACSR	642	603	447	138	110	4	1	0.02	2.05	1
1015093	1015091	10.70	1 3-	336.4 ACSR	629	590	436	137	5	0	0	0.00	2.05	0
1015129	1015093	10.90	1 3-	1/0 URD PRI AL	618	580	430	246	5	0	0	0.00	2.05	0
SW146800-B	1015129	10.90	0 3-	Open	618	580	430	246	0	0	0	0.00	2.05	0
1015092	1015091	10.41	8 3-	336.4 ACSR	639	600	444	138	85	3	1	0.00	2.05	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LIG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 35	CYNTHIANA		2931		5373	5779	5884	176	11266					
SUB 35, CKT 104														
CYNT_104	CYNTHIANA	0.00	0 3-	SBS_99_UNK	5373	5779	5884	176	0	0	0	0.00	0.00	0
0817082	CYNT_104	0.00	0 3-	3/0 ACSR	5360	5755	5861	176	0	0	0	0.00	0.00	0
SW145393-A	0817082	0.00	0 3-	Closed	5360	5755	5861	176	0	0	0	0.00	0.00	0
SW145393-B	SW145393-A	0.00	0 3-	Closed	5360	5755	5861	176	0	0	0	0.00	0.00	0
0817083	SW145393-B	0.13	0 3-	4/0 ACSR	5007	5120	5215	176	0	0	0	0.00	0.00	0
SW145005-B	0817083	0.13	0 3-	Open	5007	5120	5215	176	0	0	0	0.00	0.00	0
CKT 104 total losses:		\$0												
SUB 35, CKT 114														
CYNT_114	CYNTHIANA	0.00	1285 3-	SBS_99_UNK	5373	5779	5884	176	4585	207	0	0.00	0.00	0
0817076	CYNT_114	0.01	1285 3-	336.4 ACSR	5351	5735	5840	176	4585	207	39	0.01	0.01	38
SW145394-A	0817076	0.01	1285 3-	Closed	5351	5735	5840	176	4584	207	0	0.00	0.01	0
SW145394-B	SW145394-A	0.01	1285 3-	Closed	5351	5735	5840	176	4584	207	0	0.00	0.01	0
0817077	SW145394-B	0.11	1285 3-	336.4 ACSR	5116	5308	5399	176	4584	207	39	0.14	0.15	418
SW145400-B	0817077	0.11	1285 3-	Closed	5116	5308	5399	176	4581	207	0	0.00	0.15	0
SW145400-A	SW145400-B	0.11	1285 3-	Closed	5116	5308	5399	176	4581	207	0	0.00	0.15	0
0817104	SW145400-A	1.05	1285 3-	336.4 ACSR	3606	3461	3129	174	4581	207	39	1.26	1.42	3690
0817107	0817104	1.12	661 3-	3/0 ACSR	3501	3350	3006	174	2398	107	36	0.08	1.50	159
OC145524	0817107	1.12	661 3-	REC_100_UNK	3501	3350	3006	174	2396	107	107	0.00	1.50	0
0817108	OC145524	1.84	661 3-	3/0 ACSR	2687	2510	2138	171	2396	107	36	0.78	2.28	1540
0817123	0817108	1.98	23 1-	4 ACSR	0	0	1968	170	66	9	7	0.06	2.34	3
OC145525	0817123	1.98	21 1-	REC_99_UNK	0	0	1968	170	64	9	0	0.00	2.34	0
0818070	OC145525	2.62	21 1-	4 ACSR	0	0	1390	163	64	9	7	0.26	2.59	14
0818071	0818070	2.86	14 1-	6 ACWC	0	0	1248	161	54	7	6	0.06	2.65	2
0818072	0818071	3.30	6 1-	4 ACSR	0	0	1046	157	21	2	2	0.03	2.68	0
0817090	0817108	2.26	606 3-	3/0 ACSR	2355	2179	1821	170	2184	98	33	0.40	2.67	741
0817092	0817090	3.42	577 3-	3/0 ACSR	1756	1610	1295	166	1795	80	27	0.80	3.48	1351
0818079	0817092	3.50	76 1-	4 ACSR	0	0	1257	165	192	27	20	0.10	3.57	17
OC145526	0818079	3.50	76 1-	REC_50_UNK	0	0	1257	165	192	27	55	0.00	3.57	0
0818080	OC145526	5.98	76 1-	4 ACSR	0	0	603	143	192	27	20	1.70	5.28	199
0718082	0818080	6.23	3 1-	4 ACSR	0	0	572	141	9	1	1	0.01	5.28	0
SW145758-A	0718082	6.23	0 1-	Open	0	0	572	141	0	0	0	0.00	5.28	0
0718081	0818080	6.77	2 1-	4 ACSR	0	0	513	137	2	0	0	0.01	5.28	0
0818060	0817092	3.96	462 3-	3/0 ACSR	1570	1440	1142	164	1417	64	22	0.26	3.74	414
0718085	0818060	5.08	445 3-	3/0 ACSR	1282	1178	914	160	1335	60	20	0.69	4.42	755
OC145529	0718085	5.08	411 3-	REC_100_UNK	1282	1178	914	160	1212	55	56	0.00	4.42	0
0718057	OC145529	5.14	411 3-	3/0 ACSR	1269	1166	904	160	1212	55	19	0.04	4.46	38
RG145038	0718057	5.14	410 3-	219	1269	1166	904	160	1210	55	25	-4.46	0.00	0
0718047	RG145038	5.83	410 3-	3/0 ACSR	1142	1049	807	157	1210	53	18	0.37	0.37	376
0718043	0718047	5.92	49 1-	4 ACSR	0	0	789	156	138	19	14	0.08	0.45	9
OC145530	0718043	5.92	48 1-	REC_35_UNK	0	0	789	156	137	19	55	0.00	0.45	0
0718044	OC145530	7.84	48 1-	4 ACSR	0	0	520	140	137	19	14	0.88	1.33	70
0718042	0718044	7.95	1 1-	2 ACSR	0	0	512	140	3	0	0	0.00	1.33	0
0718048	0718047	6.87	350 3-	3/0 ACSR	992	912	694	154	1033	45	15	0.43	0.81	396
0718056	0718048	7.16	124 3-	3/0 ACSR	957	880	668	153	372	17	6	0.06	0.87	15
0718060	0718056	7.79	110 3-	1/0 ACSR	875	808	611	150	324	15	7	0.17	1.04	44
0718076	0718060	7.94	84 1-	4 ACSR	0	0	594	149	222	31	22	0.22	1.26	41
OC145534	0718076	7.94	83 1-	REC_25_UNK	0	0	594	149	217	30	123	0.00	1.26	0
0718077	OC145534	10.19	83 1-	4 ACSR	0	0	407	131	217	30	22	2.87	4.13	501
0717028	0718077	10.60	5 1-	4 ACSR	0	0	384	129	13	1	1	0.02	4.15	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW145756-B	0717028	10.60	0 1-	Open	0	0	384	129	0	0	0.00	4.15	0	
0717025	0718077	10.83	13 1-	4 ACSR	0	0	372	127	46	6	5	0.12	4.25	4
0717026	0717025	10.92	3 1-	8 ACWC	0	0	366	126	10	1	1	0.01	4.26	0
0717027	0717026	11.12	3 1-	4 ACSR	0	0	356	125	10	1	1	0.01	4.27	0
0717023	0718077	12.15	49 1-	4 ACSR	0	0	315	119	106	15	11	1.25	5.37	108
OC145535	0717023	12.15	40 1-	REC_15_UNK	0	0	315	119	81	11	79	0.00	5.37	0
0717024	OC145535	15.01	40 1-	4 ACSR	0	0	236	105	81	11	8	0.79	6.17	38
0718061	0718060	9.10	20 3-	1/0 ACSR	743	690	519	144	88	4	2	0.05	1.09	2
SW145250-B	0718061	9.10	0 3-	Open	743	690	519	144	0	0	0	0.00	1.09	0
0718045	0718048	6.97	201 3-	3/0 ACSR	979	901	684	153	587	26	9	0.02	0.82	14
OC145533	0718045	6.97	195 3-	REC_50_UNK	979	901	684	153	573	26	52	0.00	0.82	0
0718046	OC145533	9.85	195 3-	3/0 ACSR	720	663	495	144	573	26	9	0.22	1.04	246
SW145401-B	0718046	9.85	102 3-	Closed	720	663	495	144	307	16	0	0.00	1.04	0
SW145401-A	SW145401-B	9.85	102 3-	Closed	720	663	495	144	307	16	0	0.00	1.04	0
0718058	SW145401-A	9.97	102 3-	3/0 ACSR	711	655	489	144	307	16	6	0.00	1.04	7
0718072	0718058	10.32	22 1-	4 ACSR	0	0	463	141	84	11	8	0.18	1.22	13
0718073	0718072	10.62	19 1-	2 ACSR	0	0	447	139	75	10	6	0.09	1.32	5
0718074	0718073	11.12	14 1-	6 ACWC	0	0	416	135	57	8	6	0.13	1.44	5
0718075	0718074	11.91	8 1-	4 ACSR	0	0	374	130	22	3	2	0.06	1.50	0
0718059	0718058	10.21	79 3-	3/0 ACSR	696	642	478	143	215	14	5	-0.01	1.03	10
0718069	0718059	11.56	24 1-	4 ACSR	0	0	393	133	95	13	10	0.65	1.68	45
0618075	0718069	12.11	10 1-	4 ACSR	0	0	366	129	42	5	4	0.08	1.76	2
SW145760-A	0618075	12.11	0 1-	Open	0	0	366	129	0	0	0	0.00	1.76	0
0618069	0718069	12.16	5 1-	6 ACWC	0	0	364	129	9	1	1	0.02	1.70	0
0618074	0618069	12.70	1 1-	4 ACSR	0	0	340	125	1	0	0	0.00	1.70	0
0718051	0718059	11.40	53 3-	1/0 ACSR	617	571	425	138	120	13	6	-0.12	0.90	70
0718052	0718051	11.78	49 3-	4 ACSR	582	542	404	135	105	13	10	0.00	0.90	56
0718053	0718052	11.91	46 3-	1/0 ACSR	575	536	399	135	101	13	6	-0.01	0.89	8
OC145538	0718053	11.91	46 3-	REC_35_UNK	575	536	399	135	101	13	39	0.00	0.89	0
0718054	OC145538	12.65	46 3-	1/0 ACSR	539	503	374	132	101	13	6	-0.10	0.79	42
0718070	0718054	13.27	16 1-	6 ACWC	0	0	347	128	40	5	4	0.12	0.91	4
0618090	0718070	13.69	9 1-	8 ACWC	0	0	326	124	21	2	3	0.06	0.97	0
0618072	0618090	13.79	5 1-	6 ACWC	0	0	322	124	9	1	1	0.00	0.97	0
0618073	0618072	14.23	1 1-	8 ACWC	0	0	302	120	1	0	0	0.00	0.98	0
0718068	0618073	14.30	1 1-	4 ACSR	0	0	300	119	1	0	0	0.00	0.98	0
0719062	0718054	13.35	15 3-	1/0 ACSR	509	475	353	130	16	14	6	-0.14	0.65	45
CA145011	0719062	13.35	0 3-	Capacitor	509	475	353	130	0	-14	0	0.00	0.65	0
CA145008	0818060	3.96	0 3-	Capacitor	1570	1440	1142	164	0	-14	0	0.00	3.74	0
0817091	0817090	2.38	2 3-	1/0 ACSR	2267	2091	1740	169	189	8	4	0.02	2.69	3
0817132	0817091	2.46	1 3-	1/0 URD PRI AL	2222	2051	1709	411	181	8	5	0.01	2.71	2
0817996	0817132	2.46	1 3-	Consumer	2222	2051	1709	411	181	8	0	0.00	2.71	0
0817105	0817104	1.17	542 3-	336.4 ACSR	3470	3315	2964	174	1844	86	16	0.08	1.50	86
0817131	0817105	1.44	502 3-	1/0 URD PRI AL	3176	3051	2708	437	1647	77	46	0.43	1.92	639
0818085	0817131	1.67	502 3-	336.4 ACSR	2978	2835	2479	172	1641	77	15	0.14	2.06	129
OC145541	0818085	1.67	458 3-	REC_70_UNK	2978	2835	2479	172	1525	72	103	0.00	2.06	0
0818062	OC145541	3.23	458 3-	336.4 ACSR	2098	1934	1581	168	1525	72	14	0.82	2.88	707
0818065	0818062	3.33	162 3-	4 ACSR	2006	1842	1508	167	435	20	15	0.08	2.96	35
OC145550	0818065	3.33	162 3-	REC_99_UNK	2006	1842	1508	167	435	20	0	0.00	2.96	0
0818066	OC145550	4.93	162 3-	4 ACSR	1085	1049	829	152	435	20	15	1.24	4.20	487
0818048	0818066	5.90	50 1-	4 ACSR	0	0	641	144	153	22	16	0.78	4.98	90
0818049	0818048	6.03	28 1-	6 ACWC	0	0	624	143	83	12	9	0.06	5.04	4
0818050	0818049	6.07	19 1-	4 ACSR	0	0	618	143	66	9	7	0.02	5.06	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
0818042	0818050	6.52	18 1-	2 ACSR	0	0	573	140	66	9	5	0.07	5.13	3
0818067	0818066	5.37	83 3-	4 ACSR	952	927	732	148	228	10	8	0.19	4.39	40
OC146967	0818067	5.37	79 3-	REC_99_UNK	952	927	732	148	216	10	0	0.00	4.39	0
0818068	OC146967	5.55	79 3-	4 ACSR	906	884	699	147	216	10	7	0.06	4.45	11
0818044	0818068	7.13	37 1-	4 ACSR	0	0	496	135	133	19	14	0.81	5.26	68
0818045	0818044	7.48	4 1-	8 ACWC	0	0	457	131	18	2	3	0.05	5.30	0
0818046	0818045	7.58	2 1-	4 ACSR	0	0	449	131	9	1	1	0.00	5.31	0
0818047	0818046	7.64	1 1-	2 ACSR	0	0	446	130	3	0	0	0.00	5.31	0
0818055	0818062	3.30	247 3-	336.4 ACSR	2069	1906	1555	168	879	41	8	0.02	2.90	12
0818056	0818055	4.68	247 3-	4 ACSR	1198	1150	908	155	879	41	30	2.13	5.03	1660
0818063	0818056	4.75	58 3-	1/0 ACSR	1184	1136	896	154	275	13	6	0.02	5.04	3
OC145546	0818063	4.75	57 3-	REC_50_UNK	1184	1136	896	154	263	12	25	0.00	5.04	0
0918039	OC145546	6.84	57 3-	1/0 ACSR	847	810	623	146	263	12	6	0.25	5.29	35
0918034	0918039	6.84	0 1-	4 ACSR	0	0	622	145	0	0	0	0.00	5.29	0
SW146208-A	0918034	6.84	0 1-	Open	0	0	622	145	0	0	0	0.00	5.29	0
SW145770-B	0918039	6.84	0 1-	Open	0	0	623	146	0	0	0	0.00	5.29	0
0818053	0818056	4.83	148 3-	2 ACSR	1156	1111	876	154	457	22	12	0.09	5.11	35
0818054	0818053	4.95	22 3-	2 ACSR	1124	1081	851	153	88	4	2	0.01	5.12	0
0818057	0818054	5.15	19 3-	4 ACSR	1054	1018	801	151	81	3	3	0.03	5.15	2
0818058	0818057	5.44	4 3-	4 ACSR	969	940	740	149	20	0	1	0.01	5.16	0
0818059	0818058	5.46	0 3-	1/0 ACSR	965	936	737	149	0	0	0	0.00	5.16	0
SW145397-A	0818059	5.46	0 3-	Open	965	936	737	149	0	0	0	0.00	5.16	0
0818043	0818057	5.72	10 1-	4 ACSR	0	0	689	147	35	5	4	0.07	5.22	1
0818077	0818053	4.88	126 1-	2 ACSR	0	0	865	154	368	53	30	0.09	5.20	29
0818074	0818077	5.05	125 1-	4 ACSR	0	0	821	152	362	52	38	0.42	5.63	135
OC145547	0818074	5.05	122 1-	REC_99_UNK	0	0	821	152	352	51	0	0.00	5.63	0
0818075	OC145547	6.42	122 1-	4 ACSR	0	0	583	141	352	51	37	2.94	8.57	866
0818078	0818075	8.05	92 1-	4 ACSR	0	0	430	129	255	38	27	1.46	10.03	229
SW145759-A	0818078	8.05	0 1-	Open	0	0	430	129	0	0	0	0.00	10.03	0
0818076	0818075	6.64	6 1-	4 ACSR	0	0	557	139	16	2	2	0.01	8.58	0
0817134	0817105	1.18	21 1-	1/0 URD PRI AL	0	0	2956	448	94	13	8	0.00	1.50	0
CKT 114 total losses:		\$16,866												
SUB 35, CKT 124														
CYNT_124	CYNTHIANA	0.00	708 3-	SBS_99_UNK	5373	5779	5884	176	3102	138	0	0.00	0.00	0
0817086	CYNT_124	0.01	708 3-	336.4 ACSR	5354	5744	5850	176	3102	138	26	0.01	0.01	14
0817113	0817086	0.01	0 3-	4/0 ACSR	5337	5711	5817	176	0	0	0	0.00	0.01	0
SW145556-A	0817113	0.01	0 3-	Closed	5337	5711	5817	176	0	0	0	0.00	0.01	0
SW145556-B	SW145556-A	0.01	0 3-	Closed	5337	5711	5817	176	0	0	0	0.00	0.01	0
0817087	0817086	0.28	708 3-	336.4 ACSR	4761	4794	4824	176	3102	138	26	0.23	0.24	505
0817119	0817087	0.30	0 3-	4/0 ACSR	4716	4742	4751	175	0	0	0	0.00	0.24	0
SW145000-B	0817119	0.30	0 3-	Open	4716	4742	4751	175	0	0	0	0.00	0.24	0
0817097	0817087	0.89	706 3-	336.4 ACSR	3800	3680	3446	174	3098	138	26	0.51	0.75	1133
0817101	0817097	0.92	699 3-	336.4 ACSR	3762	3638	3398	174	2855	127	24	0.02	0.77	48
0817100	0817101	2.76	624 3-	336.4 ACSR	2329	2153	1781	171	2466	109	21	1.06	1.83	2029
0817103	0817100	2.82	432 3-	336.4 ACSR	2299	2123	1752	170	1538	69	13	0.03	1.86	30
OC145637	0817103	2.82	432 3-	REC_70_UNK	2299	2123	1752	170	1537	69	99	0.00	1.86	0
0817109	OC145637	3.74	432 3-	336.4 ACSR	1931	1768	1417	168	1537	69	13	0.31	2.17	333
0817110	0817109	4.10	322 3-	336.4 ACSR	1817	1659	1319	168	1138	53	10	0.14	2.32	94
0817111	0817110	4.16	130 3-	1/0 ACSR	1793	1635	1299	167	502	23	10	0.02	2.34	9
OC145643	0817111	4.16	130 3-	REC_70_UNK	1793	1635	1299	167	502	23	34	0.00	2.34	0
0817112	OC145643	4.41	130 3-	1/0 ACSR	1684	1537	1211	166	502	23	10	0.08	2.42	28

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 35, CKT 154														
CYNT_154	CYNTHIANA	0.00	568 3-	SBS_99_UNK	5373	5779	5884	176	1524	68	0	0.00	0.00	0
0817095	CYNT_154	0.85	568 3-	3/0 ACSR	3511	3386	3078	173	1524	68	23	0.64	0.64	758
0817130	0817095	0.98	558 3-	1/0 URD PRI AL	3346	3237	2925	439	1503	67	40	0.18	0.82	241
0817096	0817130	2.10	558 3-	3/0 ACSR	2277	2115	1792	168	1501	67	22	0.83	1.65	983
OC145724	0817096	2.10	548 3-	REC_100_UNK	2277	2115	1792	168	1475	66	67	0.00	1.65	0
0917034	OC145724	2.33	548 3-	3/0 ACSR	2133	1971	1656	168	1475	66	22	0.17	1.82	203
0918040	0917034	4.70	528 3-	3/0 ACSR	1299	1196	940	159	1420	64	21	1.56	3.38	1756
0918022	0918040	5.63	467 3-	3/0 ACSR	1123	1035	803	156	1246	56	19	0.55	3.93	582
0918030	0918022	8.02	17 1-	4 ACSR	0	0	482	137	45	6	5	0.36	4.29	10
SW145770-A	0918030	8.02	0 1-	Open	0	0	482	137	0	0	0	0.00	4.29	0
0918023	0918022	5.93	438 3-	3/0 ACSR	1077	993	767	155	1178	53	18	0.16	4.09	168
RG145012	0918023	5.93	436 3-	219	1077	993	767	155	1166	53	24	-4.09	0.00	0
0918024	RG145012	6.51	436 3-	3/0 ACSR	997	919	706	153	1166	51	17	0.29	0.29	284
0918026	0918024	6.58	361 3-	3/0 ACSR	988	911	699	153	919	40	14	0.03	0.31	22
0918027	0918026	6.69	357 3-	1/0 ACSR	972	897	687	153	902	39	17	0.06	0.38	51
OC145729	0918027	6.69	346 3-	REC_99_UNK	972	897	687	153	862	38	0	0.00	0.38	0
0918028	OC145729	7.24	346 3-	1/0 ACSR	897	830	632	150	862	38	17	0.28	0.66	233
1018028	0918028	9.83	321 3-	1/0 ACSR	658	613	458	139	791	37	16	1.64	2.30	967
RG145015	1018028	9.83	266 3-	219	658	613	458	139	663	31	14	-2.30	0.00	0
1018018	RG145015	9.90	266 3-	1/0 ACSR	653	609	455	139	663	30	13	0.04	0.04	19
1018023	1018018	10.48	19 1-	4 ACSR	0	0	417	134	38	5	4	0.10	0.14	3
1018024	1018023	11.10	4 1-	6 ACWC	0	0	383	130	14	1	1	0.03	0.16	0
1018019	1018018	10.64	245 3-	1/0 ACSR	607	566	422	136	615	28	12	0.37	0.41	175
1018022	1018019	10.64	19 1-	4 ACSR	0	0	421	136	47	6	5	0.00	0.41	0
OC145730	1018022	10.64	19 1-	REC_99_UNK	0	0	421	136	47	6	0	0.00	0.41	0
1018025	OC145730	11.90	19 1-	4 ACSR	0	0	356	127	47	6	5	0.25	0.66	8
1017046	1018025	12.17	7 1-	6 ACWC	0	0	345	126	13	1	1	0.02	0.68	0
1017038	1017046	12.96	5 1-	4 ACSR	0	0	314	121	10	1	1	0.03	0.71	0
1018020	1018019	10.84	214 3-	1/0 ACSR	595	556	414	135	515	23	10	0.09	0.50	35
OC145733	1018020	10.84	213 3-	REC_99_UNK	595	556	414	135	508	23	0	0.00	0.50	0
1018021	OC145733	11.02	213 3-	1/0 ACSR	585	547	407	134	508	23	10	0.04	0.54	10
1018014	1018021	11.24	2 1-	4 ACSR	0	0	394	133	0	0	0	0.00	0.54	0
CA145019	0918028	7.24	0 3-	Capacitor	897	830	632	150	0	-14	0	0.00	0.66	0
0918025	0918024	7.45	57 3-	4 ACSR	803	757	578	145	173	8	6	0.15	0.44	16
SW145666-A	0918025	7.45	0 3-	Open	803	757	578	145	0	0	0	0.00	0.44	0
0918018	0918040	4.70	22 1-	2 ACSR	0	0	939	159	41	5	3	0.00	3.38	0
OC145726	0918018	4.70	22 1-	REC_99_UNK	0	0	939	159	41	5	0	0.00	3.38	0
0918019	OC145726	5.23	22 1-	2 ACSR	0	0	832	156	41	5	3	0.08	3.46	2
0918020	0918019	5.58	15 1-	4 ACSR	0	0	757	153	23	3	2	0.04	3.50	0
0917058	0918020	6.91	10 1-	2 ACSR	0	0	594	145	13	1	1	0.04	3.55	0
0917031	0917034	2.34	19 1-	4 ACSR	0	0	1651	167	47	6	5	0.00	1.83	0
OC145725	0917031	2.34	19 1-	REC_35_UNK	0	0	1651	167	47	6	19	0.00	1.83	0
0917028	OC145725	3.00	19 1-	4 ACSR	0	0	1211	161	47	6	5	0.10	1.93	3
0917029	0917028	3.55	0 1-	6 ACWC	0	0	982	156	0	0	0	0.00	1.93	0
CKT 154 total losses:		\$6,529												

SUB 35, CKT 164														
CYNT_164	CYNTHIANA	0.00	367 3-	SBS_99_UNK	5373	5779	5884	176	1384	64	0	0.00	0.00	0
0817114	CYNT_164	1.85	367 3-	3/0 ACSR	2445	2273	1933	170	1384	64	22	1.58	1.58	1512
OC145748	0817114	1.85	364 3-	REC_70_UNK	2445	2273	1933	170	1358	64	92	0.00	1.58	0
0817120	OC145748	3.62	364 3-	3/0 ACSR	1580	1453	1162	163	1358	64	21	1.35	2.93	1199

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
0817121	0817120	5.15	212 3-	3/0 ACSR	1209	1113	865	158	827	39	13	0.78	3.71	457
0917045	0817121	5.95	3 1-	6 ACWC	0	0	703	151	6	0	1	0.02	3.73	0
0917046	0917045	6.00	1 1-	4 ACSR	0	0	695	150	0	0	0	0.00	3.73	0
0917036	0817121	5.66	201 3-	3/0 ACSR	1120	1031	796	156	800	38	13	0.26	3.97	145
0916105	0917036	6.05	46 1-	4 ACSR	0	0	722	153	146	21	15	0.38	4.35	50
OC145750	0916105	6.05	45 1-	REC_50_UNK	0	0	722	153	145	20	42	0.00	4.35	0
0916051	OC145750	8.59	45 1-	4 ACSR	0	0	439	133	145	20	15	1.25	5.60	107
0917037	0917036	6.30	151 3-	3/0 ACSR	1025	945	724	154	629	30	10	0.25	4.21	108
0917050	0917037	6.31	0 1-	4 ACSR	0	0	723	154	0	0	0	0.00	4.21	0
SW146377-A	0917050	6.31	0 1-	Open	0	0	723	154	0	0	0	0.00	4.21	0
0917032	0917037	6.42	140 3-	3/0 ACSR	1010	930	712	154	581	27	9	0.04	4.25	18
OC145755	0917032	6.42	137 3-	REC_50_UNK	1010	930	712	154	571	27	55	0.00	4.25	0
0917033	OC145755	8.01	137 3-	3/0 ACSR	838	773	584	149	571	27	9	0.52	4.78	202
0917038	0917033	8.36	37 1-	4 ACSR	0	0	547	146	88	12	9	0.21	4.98	16
0917043	0917038	8.61	9 1-	4 ACSR	0	0	522	143	9	1	1	0.02	5.00	0
OC145751	0917043	8.61	9 1-	REC_35_UNK	0	0	522	143	9	1	4	0.00	5.00	0
0917044	OC145751	10.84	9 1-	4 ACSR	0	0	371	127	9	1	1	0.07	5.07	0
0917039	0917038	8.56	26 1-	4 ACSR	0	0	527	144	77	11	8	0.09	5.07	5
OC145752	0917039	8.56	20 1-	REC_99_UNK	0	0	527	144	51	7	0	0.00	5.07	0
0917040	OC145752	8.79	20 1-	4 ACSR	0	0	507	142	51	7	5	0.08	5.15	4
0917041	0917040	10.87	19 1-	6 ACWC	0	0	371	127	51	7	5	0.36	5.51	11
0917042	0917041	11.07	1 1-	2 ACSR	0	0	363	126	0	0	0	0.00	5.51	0
0917047	0917033	8.58	75 1-	4 ACSR	0	0	526	144	383	55	40	1.44	6.21	481
0917049	0917047	9.10	5 1-	4 ACSR	0	0	481	140	23	3	2	0.04	6.26	0
0917048	0917047	8.78	63 1-	2 ACSR	0	0	511	143	331	48	27	0.30	6.51	78
0917054	0917048	9.23	23 1-	1/0 URD PRI AL	0	0	487	262	124	18	11	0.13	6.64	10
SW145771-B	0917054	9.23	0 1-	Open	0	0	487	262	0	0	0	0.00	6.64	0
0917053	0917048	9.14	27 1-	1/0 URD PRI AL	0	0	492	264	141	20	12	0.12	6.63	10
SW145771-A	0917053	9.14	0 1-	Open	0	0	492	264	0	0	0	0.00	6.63	0
0817122	0817120	3.68	81 1-	4 ACSR	0	0	1137	163	244	34	25	0.10	3.02	21
OC145749	0817122	3.68	81 1-	REC_50_UNK	0	0	1137	163	244	34	70	0.00	3.02	0
0816083	OC145749	5.19	81 1-	4 ACSR	0	0	718	149	244	34	25	1.76	4.78	307
0816068	0816083	5.36	3 1-	4 ACSR	0	0	687	147	9	1	1	0.01	4.79	0
SW146798-A	0816068	5.36	0 1-	Open	0	0	687	147	0	0	0	0.00	4.79	0
0816067	0816083	7.07	35 1-	4 ACSR	0	0	480	134	95	13	10	0.61	5.39	35

CKT 164 total losses: \$4,776

SUB 35 total losses: \$34,506

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LIG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 36, CKT 144														
HQ_144	HEADQUARTERS	0.00	777 3-	SBS_99_UNK	2542	2828	2805	175	2108	94	0	0.00	0.00	0
0819074	HQ_144	0.88	777 3-	3/0 ACSR	2008	1990	1931	171	2108	94	31	0.93	0.93	1491
0819061	0819074	2.96	611 3-	3/0 ACSR	1322	1242	1092	164	1650	74	25	1.71	2.64	2152
0819062	0819061	3.55	580 3-	3/0 ACSR	1203	1126	971	162	1537	70	23	0.46	3.11	562
OC146193	0819062	3.55	573 3-	REC_70_UNK	1203	1126	971	162	1511	69	99	0.00	3.11	0
0820051	OC146193	4.63	573 3-	3/0 ACSR	1034	963	807	158	1511	69	23	0.83	3.94	999
0820029	0820051	5.40	521 3-	3/0 ACSR	939	874	721	155	1395	64	21	0.54	4.48	598
RG145027	0820029	5.40	506 3-	219	939	874	721	155	1337	61	28	-4.48	0.00	0
0819079	RG145027	5.79	506 3-	3/0 ACSR	898	834	684	154	1337	59	20	0.26	0.26	270
0719063	0819079	8.63	502 3-	3/0 ACSR	677	628	496	145	1330	59	20	1.78	2.03	1807
0719037	0719063	9.47	410 3-	3/0 ACSR	631	585	459	142	1044	47	16	0.43	2.47	361
0719040	0719037	9.50	314 3-	336.4 ACSR	630	584	458	142	790	35	7	0.01	2.47	4
OC146198	0719040	9.50	314 3-	70-L	630	584	458	142	790	35	51	0.00	2.47	0
0719041	OC146198	10.33	314 3-	336.4 ACSR	602	557	434	140	790	35	7	0.17	2.65	101
SW146119-B	0719041	10.33	301 3-	Closed	602	557	434	140	766	34	0	0.00	2.65	0
SW146119-A	SW146119-B	10.33	301 3-	Closed	602	557	434	140	766	34	0	0.00	2.65	0
0719042	SW146119-A	12.34	301 3-	336.4 ACSR	542	501	385	136	766	34	7	0.40	3.05	225
0719033	0719042	12.41	32 1-	4 ACSR	0	0	381	136	65	8	6	0.03	3.08	2
0719034	0719033	13.62	32 1-	6 ACWC	0	0	322	127	65	8	6	0.39	3.47	20
0719035	0719034	13.95	21 1-	2 ACSR	0	0	323	126	43	5	3	0.06	3.52	2
0720014	0719035	15.77	20 1-	6 ACWC	0	0	269	115	41	5	4	0.22	3.74	5
0719043	0719042	13.01	249 3-	336.4 ACSR	525	485	371	135	654	29	6	0.12	3.17	58
0719044	0719043	13.08	249 3-	3/0 ACSR	523	483	369	135	654	29	10	0.02	3.19	12
0719045	0719044	13.27	243 3-	336.4 ACSR	518	478	365	134	639	29	5	0.03	3.22	15
0719032	0719045	13.31	54 1-	4 ACSR	0	0	363	134	131	17	13	0.03	3.25	4
OC146203	0719032	13.31	54 1-	REC_35_UNK	0	0	363	134	131	17	51	0.00	3.25	0
0619033	OC146203	15.05	54 1-	4 ACSR	0	0	301	123	131	17	13	1.17	4.42	124
0619021	0619033	16.20	5 1-	4 ACSR	0	0	269	116	7	1	1	0.03	4.45	0
0619016	0619033	15.75	33 1-	4 ACSR	0	0	281	119	84	11	8	0.26	4.68	16
0619017	0619016	17.63	13 1-	2 ACSR	0	0	245	113	39	5	3	0.16	4.84	4
0620002	0619017	17.98	2 1-	4 ACSR	0	0	238	110	2	0	0	0.00	4.84	0
0719046	0719045	13.69	171 3-	336.4 ACSR	508	469	357	134	472	21	4	0.05	3.27	18
0719066	0719046	13.89	3 1-	6 ACWC	0	0	349	132	7	0	1	0.00	3.28	0
0619022	0719046	13.75	160 3-	336.4 ACSR	507	467	356	134	444	20	4	0.01	3.28	2
OC146206	0619022	13.75	160 3-	REC_70_UNK	507	467	356	134	444	20	29	0.00	3.28	0
0619023	OC146206	14.22	160 3-	336.4 ACSR	496	457	347	133	444	20	4	0.05	3.33	17
0619026	0619023	16.54	137 3-	4 ACSR	383	363	275	118	398	18	13	1.45	4.78	491
0619028	0619026	17.91	25 1-	4 ACSR	0	0	243	111	85	11	8	0.36	5.14	18
0619024	0619026	16.84	71 3-	4 ACSR	372	353	267	116	220	10	7	0.11	4.89	23
SW146122-B	0619024	16.84	67 3-	Closed	372	353	267	116	207	9	0	0.00	4.89	0
SW146122-A	SW146122-B	16.84	67 3-	Closed	372	353	267	116	207	9	0	0.00	4.89	0
0619025	SW146122-A	17.39	67 3-	4 ACSR	352	335	254	113	207	9	7	0.20	5.10	39
0619029	0619025	17.92	55 1-	4 ACSR	0	0	243	111	178	24	18	0.57	5.67	93
OC146207	0619029	17.92	53 1-	REC_35_UNK	0	0	243	111	176	24	70	0.00	5.67	0
0618077	OC146207	19.49	53 1-	4 ACSR	0	0	214	103	176	24	18	0.93	6.60	105
0618071	0618077	19.55	0 1-	4 ACSR	0	0	213	103	0	0	0	0.00	6.60	0
SW145760-B	0618071	19.55	0 1-	Open	0	0	213	103	0	0	0	0.00	6.60	0
0618078	0618077	19.59	3 1-	6 ACWC	0	0	212	103	17	2	2	0.01	6.61	0
0618070	0618078	19.92	2 1-	4 ACSR	0	0	207	102	12	1	1	0.01	6.62	0
0618087	0619025	17.86	11 3-	4 ACSR	336	321	244	111	28	1	1	0.02	5.12	0
0618060	0618087	18.52	5 3-	4 ACSR	316	303	231	108	13	0	0	0.01	5.12	0

LINE SECT	PRIOR SECT	MILES CONS	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 37 3M			1		5034	5377	5470	176	7093					
SUB 37, CKT 104														
3M_104	3M	0.00	0 3-	SBS_99_UNK	5034	5377	5470	176	0	0	0	0.00	0.00	0
0817074	3M_104	0.08	0 3-	336.4 ACSR	4867	5071	5155	176	0	0	0	0.00	0.00	0
SW145000-A	0817074	0.08	0 3-	Open	4867	5071	5155	176	0	0	0	0.00	0.00	0
CKT 104 total losses:	\$0													
SUB 37, CKT 114														
3M_114	3M	0.00	1 3-	SBS_99_UNK	5034	5377	5470	176	7093	374	0	0.00	0.00	0
0817070	3M_114	0.12	1 3-	336.4 ACSR	4784	4952	5025	176	7093	374	71	0.44	0.44	1662
0817075	0817070	0.22	0 3-	336.4 ACSR	4591	4657	4701	176	0	0	0	0.00	0.44	0
SW145003-A	0817075	0.22	0 3-	Open	4591	4657	4701	176	0	0	0	0.00	0.44	0
0817071	0817070	0.13	1 3-	336.4 ACSR	4773	4934	5006	176	7079	374	71	0.02	0.46	75
SW145004-B	0817071	0.13	1 3-	Closed	4773	4934	5006	176	7078	374	0	0.00	0.46	0
SW145004-A	SW145004-B	0.13	1 3-	Closed	4773	4934	5006	176	7078	374	0	0.00	0.46	0
0817073	SW145004-A	0.23	1 3-	336.4 ACSR	4582	4644	4686	176	7078	374	71	0.37	0.83	1392
0817127	0817073	0.24	1 3-	350 MCM URD PRI	4573	4626	4675	463	7066	374	117	0.03	0.85	180
0817999	0817127	0.24	1 3-	Consumer	4573	4626	4675	463	7064	374	0	0.00	0.85	0
SW145003-B	0817127	0.24	0 3-	Open	4573	4626	4675	463	0	0	0	0.00	0.85	0
0817072	SW145004-A	0.22	0 3-	336.4 ACSR	4604	4677	4723	176	0	0	0	0.00	0.46	0
SW145005-A	0817072	0.22	0 3-	Open	4604	4677	4723	176	0	0	0	0.00	0.46	0
CKT 114 total losses:	\$3,309													
SUB 37 total losses:	\$3,309													

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 38	MILLERSBURG		1284		2408	2732	2703	174	4292					
SUB 38,	CKT 104													
MILL_104	MILLERSBURG	0.00	443 3-	SBS_99_UNK	2408	2732	2703	174	1264	56 0	0.00	0.00	0	
0920041	MILL_104	0.02	443 3-	336.4 ACSR	2396	2707	2679	174	1264	56 11	0.01	0.01	7	
0920044	0920041	0.02	0 3-	336.4 ACSR	2395	2706	2678	174	0	0 0	0.00	0.01	0	
SW146866-A	0920044	0.02	0 3-	Open	2395	2706	2678	174	0	0 0	0.00	0.01	0	
0920042	0920041	0.84	443 3-	336.4 ACSR	2043	2092	2040	172	1264	56 11	0.28	0.29	249	
1020064	0920042	2.28	413 3-	336.4 ACSR	1615	1554	1427	169	1164	52 10	0.46	0.75	368	
1019031	1020064	2.29	0 1-	4 ACSR	0	0	1424	169	0	0 0	0.00	0.75	0	
SW146958-A	1019031	2.29	0 1-	Open	0	0	1424	169	0	0 0	0.00	0.75	0	
1020065	1020064	4.36	403 3-	336.4 ACSR	1240	1160	996	165	1108	49 9	0.63	1.37	488	
1020038	1020065	4.45	204 2-	4 ACSR	0	1138	972	164	590	39 29	0.14	1.51	74	
OC146850	1020038	4.45	204 2-	REC_99_UNK	0	1138	972	164	590	39 0	0.00	1.51	0	
1020039	OC146850	5.45	204 2-	4 ACSR	0	900	748	154	590	39 29	1.62	3.13	834	
1020030	1020039	5.45	23 1-	4 ACSR	0	0	747	154	67	9 7	0.00	3.13	0	
OC146851	1020030	5.45	23 1-	REC_99_UNK	0	0	747	154	67	9 0	0.00	3.13	0	
1020031	OC146851	6.94	23 1-	4 ACSR	0	0	541	142	67	9 7	0.30	3.44	12	
1020032	1020031	7.49	2 1-	6 ACWC	0	0	489	137	1	0 0	0.00	3.44	0	
1019046	1020039	7.61	171 2-	4 ACSR	0	585	479	137	483	33 24	2.72	5.85	1116	
1019041	1019046	7.62	18 1-	4 ACSR	0	0	478	136	21	2 2	0.00	5.85	0	
OC146852	1019041	7.62	18 1-	REC_15_UNK	0	0	478	136	21	2 20	0.00	5.85	0	
1019042	OC146852	8.21	18 1-	4 ACSR	0	0	434	132	21	2 2	0.05	5.90	0	
1019043	1019042	8.69	14 1-	2 ACSR	0	0	410	130	4	0 0	0.01	5.90	0	
1019044	1019043	10.80	12 1-	4 ACSR	0	0	311	117	2	0 0	0.01	5.92	0	
1019033	1019046	7.92	120 2-	4 ACSR	0	555	454	134	366	25 18	0.31	6.17	103	
1019034	1019033	9.19	92 2-	4 ACSR	0	460	376	126	258	18 13	0.90	7.07	208	
1019035	1019034	10.34	55 2-	4 ACSR	0	396	324	119	190	13 10	0.56	7.63	90	
1019036	1019035	10.35	37 2-	4 ACSR	0	396	324	119	131	9 7	0.00	7.63	0	
OC146855	1019036	10.35	37 2-	REC_35_UNK	0	396	324	119	131	9 27	0.00	7.63	0	
1019037	OC146855	10.58	37 2-	4 ACSR	0	385	315	118	131	9 7	0.09	7.71	10	
0919025	1019037	13.86	32 2-	4 ACSR	0	277	227	102	111	7 6	0.54	8.25	37	
1019030	1019037	10.70	1 1-	4 ACSR	0	0	310	117	5	0 1	0.00	7.72	0	
1019040	1019035	10.36	3 1-	2 ACSR	0	0	323	119	6	0 0	0.00	7.63	0	
1019023	1019034	9.25	29 1-	4 ACSR	0	0	372	126	38	5 4	0.02	7.08	0	
OC146853	1019023	9.25	29 1-	REC_25_UNK	0	0	372	126	38	5 21	0.00	7.08	0	
1019024	OC146853	10.54	29 1-	4 ACSR	0	0	316	118	38	5 4	0.24	7.32	7	
1019028	1019024	11.27	6 1-	4 ACSR	0	0	291	114	0	0 0	0.00	7.32	0	
1019029	1019028	11.77	1 1-	6 ACWC	0	0	276	112	0	0 0	0.00	7.32	0	
1019025	1019024	11.52	8 1-	4 ACSR	0	0	283	113	21	2 2	0.07	7.39	0	
1019027	1019025	11.62	0 1-	4 ACSR	0	0	280	112	0	0 0	0.00	7.39	0	
SW146958-B	1019027	11.62	0 1-	Open	0	0	280	112	0	0 0	0.00	7.39	0	
1019026	1019025	11.75	1 1-	4 ACSR	0	0	277	112	1	0 0	0.00	7.39	0	
1019039	1019033	9.22	20 1-	4 ACSR	0	0	374	126	72	10 7	0.29	6.46	13	
1020041	1020065	4.85	182 3-	336.4 ACSR	1176	1096	929	164	484	21 4	0.06	1.44	22	
1020042	1020041	5.18	153 3-	336.4 ACSR	1137	1058	890	163	426	19 4	0.04	1.47	11	
OC146858	1020042	5.18	153 3-	REC_50_UNK	1137	1058	890	163	426	19 38	0.00	1.47	0	
1020043	OC146858	6.31	153 3-	336.4 ACSR	1019	943	775	160	426	19 4	0.11	1.59	32	
1020044	1020043	8.03	115 3-	1/0 ACSR	811	753	598	152	306	13 6	0.35	1.94	85	
1120006	1020044	8.30	75 3-	1/0 ACSR	786	730	578	151	191	8 4	0.04	1.98	6	
OC146862	1120006	8.30	73 3-	REC_25_UNK	786	730	578	151	188	8 34	0.00	1.98	0	
1120007	OC146862	10.15	73 3-	1/0 ACSR	643	599	464	143	188	8 4	0.23	2.21	34	
1121004	1120007	12.85	19 1-	4 ACSR	0	0	326	124	38	5 4	0.31	2.52	7	

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1121003	1120007	13.01	39 1-	4 ACSR	0	0	320	123	108	14	11	0.93	3.14	59
1120010	1020044	8.12	20 1-	4 ACSR	0	0	588	151	51	6	5	0.03	1.97	1
1020068	1120010	8.28	18 1-	4 ACSR	0	0	572	150	42	5	4	0.04	2.01	1
OC146859	1020068	8.28	17 1-	REC_25_UNK	0	0	572	150	42	5	23	0.00	2.01	0
1020056	OC146859	8.92	17 1-	4 ACSR	0	0	512	144	42	5	4	0.13	2.14	4
1020058	1020056	9.95	3 1-	6 ACWC	0	0	435	136	7	0	1	0.02	2.16	0
1020057	1020056	9.79	5 1-	4 ACSR	0	0	445	137	21	2	2	0.05	2.20	0
1020067	1120010	8.29	2 1-	4 ACSR	0	0	570	150	9	1	1	0.00	1.97	0
1020053	1020041	5.38	22 1-	4 ACSR	0	0	813	158	37	4	4	0.06	1.49	1
0920061	0920042	1.27	26 2-	4 ACSR	0	1712	1630	168	86	5	4	0.10	0.39	7
OC146848	0920061	1.27	23 2-	REC_99_UNK	0	1712	1630	168	77	5	0	0.00	0.39	0
0919028	OC146848	2.34	23 2-	4 ACSR	0	1140	1026	157	77	5	4	0.19	0.58	11
0919019	0919028	2.44	14 1-	4 ACSR	0	0	993	156	47	6	5	0.02	0.60	0
0919020	0919019	4.69	11 1-	6 ACWC	0	0	548	138	33	4	3	0.22	0.81	4

CKT 104 total losses: \$3,901

SUB 38, CKT 114

MILL 114	MILLERSBURG	0.00	487 3-	SBS_99_UNK	2408	2732	2703	174	1421	63	0	0.00	0.00	0
0920045	MILL 114	0.03	487 3-	336.4 ACSR	2392	2699	2672	174	1421	63	12	0.01	0.01	12
0920047	0920045	0.05	487 3-	336.4 ACSR	2381	2676	2650	174	1421	63	12	0.01	0.02	9
0920048	0920047	0.07	487 3-	336.4 ACSR	2372	2659	2633	174	1421	63	12	0.01	0.03	7
0920049	0920048	0.38	427 3-	336.4 ACSR	2228	2400	2372	173	1210	53	10	0.10	0.13	87
1020066	0920049	2.34	427 3-	4 ACSR	1059	1051	933	154	1209	53	39	4.06	4.19	4340
1020047	1020066	2.75	161 3-	4 ACSR	941	936	820	150	448	20	15	0.32	4.51	133
OC146913	1020047	2.75	157 3-	REC_70_UNK	941	936	820	150	442	20	29	0.00	4.51	0
1020050	OC146913	4.18	157 3-	4 ACSR	668	669	571	139	442	20	15	1.09	5.60	434
1020051	1020050	4.70	137 3-	4 ACSR	604	606	514	135	388	18	13	0.34	5.94	121
1020054	1020051	5.05	126 2-	4 ACSR	0	568	481	133	349	24	17	0.36	6.30	117
1020052	1020054	7.04	20 1-	4 ACSR	0	0	353	121	59	8	6	0.37	6.67	13
1020055	1020054	6.88	106 2-	4 ACSR	0	430	362	122	288	20	14	1.37	7.68	340
OC146916	1020055	6.88	90 2-	REC_25_UNK	0	430	362	122	222	15	63	0.00	7.68	0
1021024	OC146916	7.03	90 2-	4 ACSR	0	421	354	121	222	15	11	0.10	7.78	22
1021023	1021024	9.97	29 1-	4 ACSR	0	0	254	106	59	8	6	0.55	8.33	20
1021025	1021024	7.44	61 2-	2 ACSR	0	405	340	119	163	11	6	0.13	7.91	19
1021026	1021025	8.04	57 2-	4 ACSR	0	377	316	116	156	11	8	0.25	8.16	35
1021028	1021026	11.79	43 1-	4 ACSR	0	0	218	99	129	18	13	1.53	9.69	123
1020035	1020050	4.91	6 1-	6 ACWC	0	0	495	134	11	1	1	0.04	5.64	0
1020037	1020035	5.13	0 1-	6 ACWC	0	0	475	132	0	0	0	0.00	5.64	0
SW146960-A	1020037	5.13	0 1-	Open	0	0	475	132	0	0	0	0.00	5.64	0
1020036	1020035	5.33	4 1-	4 ACSR	0	0	459	131	7	0	1	0.01	5.65	0
1020048	1020066	2.48	253 3-	1/0 ACSR	1035	1026	907	153	677	31	14	0.07	4.25	40
OC146907	1020048	2.48	253 3-	REC_70_UNK	1035	1026	907	153	677	31	45	0.00	4.25	0
1020049	OC146907	4.29	253 3-	1/0 ACSR	795	778	655	146	677	31	14	0.91	5.16	514
0920060	1020049	5.21	235 3-	1/0 ACSR	711	694	573	142	620	28	13	0.42	5.58	220
1020033	0920060	6.72	26 1-	6 ACWC	0	0	437	131	93	13	9	0.46	6.04	27
1020034	1020033	6.81	2 1-	6 ACWC	0	0	430	131	6	0	1	0.00	6.04	0
SW146960-B	1020033	6.72	0 1-	Open	0	0	437	131	0	0	0	0.00	6.04	0
1020045	0920060	5.28	189 3-	1/0 ACSR	706	688	569	142	468	21	9	0.02	5.60	10
OC146910	1020045	5.28	189 3-	REC_35_UNK	706	688	569	142	468	21	62	0.00	5.60	0
1020046	OC146910	6.85	189 3-	1/0 ACSR	599	581	470	136	468	21	9	0.46	6.06	163
1021015	1020046	7.04	121 3-	4 ACSR	579	563	455	134	285	13	10	0.10	6.16	27
1021016	1021015	7.11	119 3-	1/0 ACSR	576	560	452	134	284	13	6	0.01	6.18	3

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1021017	1021016	9.17	77 3-	1/0 ACSR	483	468	371	127	172	8	4	0.25	6.42	34
1021021	1021017	9.18	57 1-	4 ACSR	0	0	371	127	134	18	13	0.00	6.43	0
OC146914	1021021	9.18	57 1-	REC_25_UNK	0	0	371	127	134	18	75	0.00	6.43	0
1021018	OC146914	10.75	57 1-	4 ACSR	0	0	306	118	134	18	13	1.10	7.53	120
1021022	1021018	11.72	2 1-	4 ACSR	0	0	276	113	9	1	1	0.03	7.55	0
1021020	1021018	14.77	21 1-	4 ACSR	0	0	210	99	52	7	5	0.65	8.18	21
1021019	1021018	12.36	14 1-	4 ACSR	0	0	259	109	28	4	3	0.14	7.67	2
1021027	1021016	8.20	41 1-	4 ACSR	0	0	383	127	110	15	11	0.47	6.65	35
0921003	1021027	8.27	8 1-	6 ACWC	0	0	379	126	27	3	3	0.01	6.65	0
0921004	0921003	8.58	4 1-	4 ACSR	0	0	363	125	7	0	1	0.01	6.66	0
SW146959-B	1020049	4.29	0 1-	Open	0	0	655	146	0	0	0	0.00	5.16	0
0920035	0920048	0.08	60 1-	4 ACSR	0	0	2623	174	211	28	20	0.01	0.04	1
OC146917	0920035	0.08	60 1-	35-L	0	0	2623	174	211	28	80	0.00	0.04	0
0920036	OC146917	3.10	60 1-	4 ACSR	0	0	701	145	211	28	20	1.89	1.92	231
SW146959-A	0920036	3.10	0 1-	Open	0	0	701	145	0	0	0	0.00	1.92	0
SW146866-B	0920047	0.05	0 3-	Open	2381	2676	2650	174	0	0	0	0.00	0.02	0
0920046	0920045	0.03	0 3-	336.4 ACSR	2391	2697	2670	174	0	0	0	0.00	0.01	0
SW146865-B	0920046	0.03	0 3-	Open	2391	2697	2670	174	0	0	0	0.00	0.01	0

CKT 114 total losses: \$7,280

SUB 38, CKT 124

MILL_124	MILLERSBURG	0.00	354 3-	SBS_99_UNK	2408	2732	2703	174	1607	71	0	0.00	0.00	0
0920050	MILL_124	0.04	354 3-	336.4 ACSR	2389	2694	2667	174	1607	71	14	0.02	0.02	19
0920039	0920050	0.04	0 3-	336.4 ACSR	2388	2692	2665	174	0	0	0	0.00	0.02	0
SW146865-A	0920039	0.04	0 3-	Open	2388	2692	2665	174	0	0	0	0.00	0.02	0
0920051	0920050	0.41	354 3-	556.1 ACSR	2226	2367	2339	173	1607	71	10	0.12	0.13	114
0920052	0920051	2.19	353 3-	336.4 ACSR	1644	1583	1458	170	1604	71	14	0.75	0.88	819
0920064	0920052	2.26	15 1-	4 ACSR	0	0	1419	169	115	15	11	0.05	0.93	4
OC146950	0920064	2.26	14 1-	REC_35_UNK	0	0	1419	169	101	13	39	0.00	0.93	0
0920065	OC146950	2.92	14 1-	4 ACSR	0	0	1108	162	101	13	10	0.21	1.14	12
0919027	0920065	3.46	2 1-	6 ACWC	0	0	925	157	4	0	0	0.01	1.14	0
0920053	0920052	2.70	293 3-	3/0 ACSR	1494	1421	1282	168	1324	59	20	0.33	1.21	332
0920054	0920053	2.77	283 3-	4 ACSR	1463	1393	1250	167	1252	56	40	0.16	1.37	179
OC146953	0920054	2.77	283 3-	REC_70_UNK	1463	1393	1250	167	1250	56	81	0.00	1.37	0
0920055	OC146953	3.51	283 3-	4 ACSR	1175	1129	972	160	1250	56	40	1.59	2.96	1776
0920057	0920055	4.24	269 3-	1/0 ACSR	1037	992	836	156	1178	53	23	0.65	3.61	647
0920037	0920057	4.66	63 1-	4 ACSR	0	0	747	152	251	34	25	0.64	4.25	143
OC146954	0920037	4.66	61 1-	REC_50_UNK	0	0	747	152	243	33	67	0.00	4.25	0
0820049	OC146954	6.18	61 1-	4 ACSR	0	0	533	140	243	33	24	1.75	6.00	325
0820028	0820049	6.60	17 1-	4 ACSR	0	0	494	137	57	7	6	0.14	6.14	7
0820023	0820028	6.94	14 1-	6 ACWC	0	0	465	134	49	6	5	0.06	6.19	2
0820024	0820023	7.21	3 1-	4 ACSR	0	0	444	132	4	0	0	0.00	6.20	0
0820027	0820049	7.12	16 1-	4 ACSR	0	0	451	133	74	10	7	0.22	6.22	10
0920058	0920057	5.16	199 3-	1/0 ACSR	901	860	709	152	907	41	18	0.62	4.23	469
0820052	0920058	6.50	177 3-	1/0 ACSR	757	721	581	146	807	37	16	0.76	4.98	496
0820030	0820052	6.89	109 3-	1/0 ACSR	724	688	552	144	578	26	12	0.17	5.16	86
OC146957	0820030	6.89	109 3-	REC_70_UNK	724	688	552	144	577	26	38	0.00	5.16	0
0820031	OC146957	6.89	109 3-	1/0 ACSR	723	688	552	144	577	26	12	0.00	5.16	0
0820032	0820031	7.15	87 3-	1/0 ACSR	702	668	534	143	459	21	9	0.09	5.25	36
0820041	0820032	7.23	23 1-	6 ACWC	0	0	527	143	111	15	11	0.05	5.30	5
0820044	0820041	7.23	0 1-	4 ACSR	0	0	526	143	0	0	0	0.00	5.30	0
SW146961-A	0820044	7.23	0 1-	Open	0	0	526	143	0	0	0	0.00	5.30	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
0820042	0820041	7.28	23 1-	4 ACSR	0	0	522	142	111	15	11	0.04	5.34	4
0920074	0820042	7.35	22 1-	6 ACWC	0	0	515	142	111	15	11	0.05	5.38	5
0920068	0920074	8.26	22 1-	4 ACSR	0	0	443	135	111	15	11	0.31	5.69	21
0920073	0820032	7.29	60 3-	1/0 ACSR	692	658	525	143	335	15	7	0.03	5.28	10
0920067	0920073	7.59	13 1-	4 ACSR	0	0	497	140	67	9	7	0.06	5.35	3
SW146961-B	0920067	7.59	0 1-	Open	0	0	497	140	0	0	0	0.00	5.35	0
0920040	0920073	7.75	46 3-	1/0 ACSR	658	626	497	141	262	12	5	0.05	5.33	7
0820026	0820031	7.32	22 1-	4 ACSR	0	0	511	141	118	16	12	0.15	5.31	11
0820036	0820052	6.93	27 1-	6 ACWC	0	0	536	143	88	12	9	0.21	5.20	16
0820037	0820036	7.38	22 1-	4 ACSR	0	0	494	139	76	10	8	0.14	5.34	8
0820038	0820037	7.68	6 1-	6 ACWC	0	0	470	137	27	3	3	0.02	5.36	0
0920063	0920058	6.29	8 1-	4 ACSR	0	0	556	142	36	4	4	0.12	4.35	3
CKT 124 total losses:	\$5,569													
SUB 38 total losses:	\$16,750													

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LIG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 39 JACKSONVILLE			1031		6294	6402	6450	176	4031					
SUB 39, CKT 104														
JACK_104	JACKSONVILLE	0.00	206 3-	SBS_99_UNK	6294	6402	6450	176	677	30	0	0.00	0.00	0
1016046	JACK_104	0.01	206 3-	336.4 ACSR	6255	6343	6387	176	677	30	6	0.00	0.00	0
1016056	1016046	0.01	0 3-	336.4 ACSR	6247	6331	6374	176	0	0	0	0.00	0.00	0
SW146213-A	1016056	0.01	0 3-	Open	6247	6331	6374	176	0	0	0	0.00	0.00	0
0916106	1016046	1.13	206 3-	336.4 ACSR	3908	3698	3176	174	677	30	6	0.23	0.24	98
0916077	0916106	1.93	125 3-	336.4 ACSR	3055	2837	2315	172	490	22	4	0.12	0.36	38
0916097	0916077	1.94	44 1-	4 ACSR	0	0	2307	172	183	24	18	0.01	0.37	0
OC146238	0916097	1.94	44 1-	REC_35_UNK	0	0	2307	172	183	24	71	0.00	0.37	0
0916098	OC146238	3.97	44 1-	4 ACSR	0	0	890	152	183	24	18	1.16	1.53	122
SW146377-B	0916098	3.97	0 1-	Open	0	0	890	152	0	0	0	0.00	1.53	0
0916078	0916077	3.00	74 3-	4 ACSR	1710	1642	1294	161	290	13	9	0.50	0.86	120
0916079	0916078	3.68	27 3-	4 ACSR	1279	1249	984	155	104	4	3	0.11	0.97	9
0916080	0916079	4.04	8 3-	4 ACSR	1123	1103	870	152	14	0	0	0.00	0.97	0
0916094	0916079	4.01	13 1-	4 ACSR	0	0	879	152	61	8	6	0.12	1.08	6
0916095	0916094	4.34	11 1-	6 ACWC	0	0	796	149	52	7	5	0.09	1.17	3
0916096	0916095	4.74	4 1-	4 ACSR	0	0	711	146	31	4	3	0.04	1.21	0
0916063	0916078	3.00	30 1-	4 ACSR	0	0	1291	161	123	16	12	0.00	0.86	0
OC146239	0916063	3.00	30 1-	REC_50_UNK	0	0	1291	161	123	16	34	0.00	0.86	0
0916064	OC146239	3.41	30 1-	4 ACSR	0	0	1088	158	123	16	12	0.29	1.15	29
0916052	0916064	4.29	10 1-	4 ACSR	0	0	807	150	55	7	5	0.15	1.30	5
SW146376-A	0916052	4.29	0 1-	Open	0	0	807	150	0	0	0	0.00	1.30	0
0916065	0916064	4.40	15 1-	4 ACSR	0	0	782	149	48	6	5	0.15	1.30	4
0916090	0916106	1.23	69 1-	4 ACSR	0	0	2921	173	155	21	15	0.10	0.34	13
OC146237	0916090	1.23	69 1-	REC_35_UNK	0	0	2921	173	155	21	60	0.00	0.34	0
0917059	OC146237	2.35	69 1-	4 ACSR	0	0	1401	162	155	21	15	1.08	1.42	144
0917051	0917059	2.91	65 1-	2 ACSR	0	0	1148	158	153	21	12	0.36	1.77	43
1017042	0917051	3.11	59 1-	4 ACSR	0	0	1061	156	133	18	13	0.16	1.94	18
0917060	1017042	5.50	40 1-	4 ACSR	0	0	545	137	87	12	9	0.66	2.60	33
1017043	1017042	4.37	17 1-	4 ACSR	0	0	708	145	39	5	4	0.15	2.09	4
CKT 104 total losses:		\$689												
SUB 39, CKT 114														
JACK_114	JACKSONVILLE	0.00	607 3-	SBS_99_UNK	6294	6402	6450	176	2517	112	0	0.00	0.00	0
1016058	JACK_114	0.01	607 3-	336.4 ACSR	6264	6356	6401	176	2517	112	21	0.01	0.01	11
1016060	1016058	0.98	607 3-	336.4 ACSR	4111	3914	3480	174	2517	112	21	0.67	0.68	1187
1016061	1016060	1.06	604 3-	3/0 ACSR	3965	3763	3317	174	2491	111	37	0.10	0.78	188
1016063	1016061	1.17	27 1-	4 ACSR	0	0	3029	173	67	9	7	0.04	0.81	2
OC146332	1016063	1.17	23 1-	REC_99_UNK	0	0	3029	173	48	6	0	0.00	0.81	0
1016064	OC146332	2.67	23 1-	4 ACSR	0	0	1182	158	48	6	5	0.23	1.04	6
1016049	1016061	1.10	576 3-	3/0 ACSR	3899	3695	3245	174	2420	108	36	0.04	0.82	84
SW146242-A	1016049	1.10	576 3-	Closed	3899	3695	3245	174	2419	108	0	0.00	0.82	0
SW146242-B	SW146242-A	1.10	576 3-	Closed	3899	3695	3245	174	2419	108	0	0.00	0.82	0
1016050	SW146242-B	1.45	576 3-	3/0 ACSR	3353	3140	2677	173	2419	108	36	0.42	1.24	799
1016062	1016050	1.45	0 1-	6 ACWC	0	0	2666	173	0	0	0	0.00	1.24	0
SW146379-A	1016062	1.45	0 1-	Open	0	0	2666	173	0	0	0	0.00	1.24	0
1017047	1016050	3.35	566 3-	3/0 ACSR	1870	1713	1354	166	2377	106	36	2.17	3.41	4062
1017039	1017047	3.36	45 1-	4 ACSR	0	0	1350	166	160	22	16	0.01	3.42	0
OC146319	1017039	3.36	45 1-	REC_99_UNK	0	0	1350	166	160	22	0	0.00	3.42	0
1017040	OC146319	4.11	45 1-	4 ACSR	0	0	1017	159	160	22	16	0.49	3.90	52
1017041	1017040	5.84	19 1-	6 ACWC	0	0	627	144	44	6	4	0.24	4.15	6

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW146379-B	1017041	5.84	0 1-	Open	0	0	627	144	0	0	0.00	4.15	0	
1017031	1017047	3.94	489 3-	3/0 ACSR	1643	1506	1174	164	2052	93	31	0.58	3.99	990
REG28	1017031	3.94	483 3-	219	1643	1506	1174	164	2019	92	42	-3.99	0.00	0
1017032	REG28	4.11	483 3-	3/0 ACSR	1587	1455	1130	163	2019	89	30	0.16	0.16	265
1017033	1017032	4.41	329 3-	3/0 ACSR	1495	1372	1060	162	1540	68	23	0.20	0.36	260
OC146325	1017033	4.41	306 3-	REC_50_UNK	1495	1372	1060	162	1443	63	128	0.00	0.36	0
1017034	OC146325	4.51	306 3-	3/0 ACSR	1468	1347	1039	162	1443	63	21	0.06	0.42	76
1017028	1017034	5.86	306 3-	3/0 ACSR	1173	1078	817	157	1442	65	22	1.07	1.49	1098
1017029	1017028	6.55	283 3-	4 ACSR	973	912	689	151	1357	62	45	1.68	3.17	2035
1017030	1017029	6.64	262 3-	3/0 ACSR	962	901	680	151	1266	59	20	0.07	3.23	63
1117036	1017030	6.84	262 3-	1/0 ACSR	933	875	659	150	1265	59	26	0.21	3.44	215
1117046	1117036	6.94	0 1-	4 ACSR	0	0	645	149	0	0	0	0.00	3.44	0
1117037	1117036	6.91	260 3-	1/0 ACSR	924	866	651	149	1260	58	26	0.07	3.52	75
OC146328	1117037	6.91	258 3-	70-L	924	866	651	149	1251	58	84	0.00	3.52	0
1117038	OC146328	7.75	258 3-	1/0 ACSR	823	773	578	146	1251	58	25	0.83	4.34	823
1117039	1117038	8.27	236 3-	1/0 ACSR	770	724	540	144	1102	51	23	0.48	4.83	440
1117040	1117039	9.53	216 3-	1/0 ACSR	667	628	466	139	1000	47	21	1.03	5.86	843
1117041	1117040	9.94	171 3-	1/0 ACSR	639	602	446	137	806	38	17	0.27	6.13	182
1117042	1117041	10.07	145 3-	1/0 ACSR	631	595	440	137	711	33	15	0.08	6.21	46
1117044	1117042	10.40	50 2-	1/0 ACSR	0	575	426	135	335	24	10	0.15	6.36	38
1117035	1117044	10.85	29 1-	4 ACSR	0	0	399	132	193	27	20	0.49	6.85	76
1117052	1117035	11.56	19 1-	1/0 URD PRI AL	0	0	375	223	135	19	11	0.22	7.06	18
SW146378-B	1117052	11.56	0 1-	Open	0	0	375	223	0	0	0	0.00	7.06	0
1117034	1117044	10.92	14 1-	4 ACSR	0	0	395	132	78	11	8	0.15	6.51	7
1117051	1117034	10.96	1 1-	1/0 URD PRI AL	0	0	394	231	7	0	1	0.00	6.51	0
SW146378-A	1117051	10.96	0 1-	Open	0	0	394	231	0	0	0	0.00	6.51	0
1117043	1117042	10.24	93 3-	1/0 ACSR	621	585	433	136	370	17	8	0.04	6.25	12
1117027	1117043	10.60	70 1-	4 ACSR	0	0	410	133	228	32	23	0.53	6.79	107
OC146331	1117027	10.60	63 1-	REC_99_UNK	0	0	410	133	213	30	0	0.00	6.79	0
1117031	OC146331	12.27	63 1-	4 ACSR	0	0	330	122	213	30	22	1.66	8.44	257
1117033	1117031	13.11	15 1-	4 ACSR	0	0	300	118	73	10	8	0.21	8.65	9
1117032	1117031	13.99	6 1-	4 ACSR	0	0	274	113	13	1	1	0.07	8.52	0
1117047	1117041	10.39	23 1-	4 ACSR	0	0	417	134	83	11	8	0.19	6.32	12
1117048	1117047	11.28	12 1-	6 ACWC	0	0	369	128	43	6	4	0.13	6.45	3
1117028	1117040	9.65	34 1-	4 ACSR	0	0	458	138	144	20	15	0.11	5.97	14
OC146330	1117028	9.65	34 1-	REC_50_UNK	0	0	458	138	144	20	41	0.00	5.97	0
1117029	OC146330	10.15	34 1-	4 ACSR	0	0	424	134	144	20	15	0.30	6.27	30
1117030	1117029	11.45	15 1-	6 ACWC	0	0	355	126	40	5	4	0.17	6.44	4
1017045	1117039	9.66	20 1-	4 ACSR	0	0	428	133	98	13	10	0.44	5.27	26
1117049	1117038	7.75	10 1-	4 ACSR	0	0	578	146	35	4	4	0.00	4.35	0
OC146329	1117049	7.75	10 1-	REC_99_UNK	0	0	578	146	35	4	0	0.00	4.35	0
1017049	OC146329	8.76	10 1-	4 ACSR	0	0	481	138	35	4	4	0.11	4.46	2
CA145028	1017034	4.51	0 3-	Capacitor	1468	1347	1039	162	0	-14	0	0.00	0.42	0
1017035	1017032	4.13	154 2-	4 ACSR	0	1443	1120	163	477	32	23	0.04	0.20	15
OC146321	1017035	4.13	154 2-	REC_50_UNK	0	1443	1120	163	477	32	65	0.00	0.20	0
1017036	OC146321	6.16	154 2-	4 ACSR	0	807	630	145	477	32	23	1.87	2.07	606
1017037	1017036	7.84	21 2-	4 ACSR	0	575	454	132	44	3	2	0.11	2.18	3
0917052	1017037	7.84	0 1-	4 ACSR	0	0	454	132	0	0	0	0.00	2.18	0
1017023	1017036	6.26	44 1-	4 ACSR	0	0	616	144	110	15	11	0.07	2.14	7
OC146322	1017023	6.26	44 1-	REC_35_UNK	0	0	616	144	110	15	43	0.00	2.14	0
1017027	OC146322	6.27	2 1-	4 ACSR	0	0	615	144	6	0	1	0.00	2.14	0
1017024	OC146322	7.45	42 1-	4 ACSR	0	0	486	135	103	14	10	0.55	2.69	40

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LIG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 40	OXFORD		630			1964185600	1964185600	1964185600	176	3400				
SUB 40,	CKT 104													
OXFD_104	OXFORD	0.00	266 3-	SBS_99_UNK	1964185600	1964185600	1964185600		176	1616	72	0	0.00	0.00
1015080	OXFD_104	0.10	266 3-	336.4 ACSR	113328	101091	65008	176	1616	72	14	0.05	0.05	50
1015132	1015080	0.13	266 3-	500 MCM URD PRI	97875	88216	59786	469	1616	72	19	0.01	0.06	17
1015081	1015132	0.51	266 3-	336.4 ACSR	22171	20209	14206	175	1616	72	14	0.18	0.24	197
1015082	1015081	1.68	265 3-	1/0 ACSR	4335	4092	2924	170	1609	72	31	1.45	1.69	1895
OC146785	1015082	1.68	262 3-	70-L	4335	4092	2924	170	1587	72	103	0.00	1.69	0
1015074	OC146785	1.78	262 3-	1/0 ACSR	4064	3838	2744	169	1587	72	31	0.12	1.80	155
RG145048	1015074	1.78	261 3-	219	4064	3838	2744	169	1586	72	33	-1.80	0.00	0
1015075	RG145048	1.85	261 3-	1/0 ACSR	3876	3663	2619	169	1586	71	31	0.09	0.09	116
RG145051	1015075	1.85	261 3-	219	3876	3663	2619	169	1585	71	32	-0.09	0.00	0
1015076	RG145051	2.29	261 3-	1/0 ACSR	3046	2883	2065	167	1585	71	31	0.53	0.53	677
1016047	1015076	3.11	207 3-	1/0 ACSR	2172	2060	1478	163	1320	59	26	0.80	1.33	851
1016081	1016047	4.22	18 3-	1/0 ACSR	1566	1486	1068	158	107	4	2	0.05	1.37	3
1015085	1016047	3.31	174 3-	1/0 ACSR	2034	1929	1385	162	1121	50	22	0.17	1.50	155
1015086	1015085	3.54	155 3-	1/0 ACSR	1888	1791	1286	161	975	44	19	0.18	1.67	143
1015116	1015086	4.19	10 1-	2 ACSR	0	0	1044	157	60	8	5	0.08	1.76	3
1015087	1015086	4.33	144 3-	1/0 ACSR	1522	1445	1038	157	912	41	18	0.54	2.21	399
1115022	1015087	5.59	106 3-	1/0 ACSR	1164	1105	795	152	697	31	14	0.62	2.84	344
OC146789	1115022	5.59	89 3-	REC_35_UNK	1164	1105	795	152	587	26	77	0.00	2.84	0
1115014	OC146789	5.82	89 3-	1/0 ACSR	1115	1060	764	151	587	26	12	0.10	2.94	50
1115015	1115014	6.44	13 1-	6 ACWC	0	0	653	146	42	5	4	0.08	3.02	2
1115012	1115014	6.59	72 3-	1/0 ACSR	979	932	674	148	510	23	10	0.29	3.23	120
1115013	1115012	6.63	48 3-	1/0 ACSR	974	927	671	147	339	15	7	0.01	3.24	3
1115019	1115013	6.67	48 3-	1/0 URD PRI AL	968	921	668	297	339	15	9	0.01	3.25	3
1115020	1115019	6.72	30 2-	1/0 URD PRI AL	0	914	664	296	201	13	8	0.01	3.26	3
1115016	1115020	7.30	30 2-	2 ACSR	0	819	599	144	201	13	8	0.16	3.42	22
1116003	1115016	7.74	13 1-	2 ACSR	0	0	558	141	78	10	6	0.07	3.50	3
1116004	1116003	7.87	1 1-	4 ACSR	0	0	544	140	2	0	0	0.00	3.50	0
1115017	1115012	7.44	13 1-	1/0 URD PRI AL	0	0	596	279	118	16	10	0.30	3.53	25
1115011	1115017	7.47	6 1-	2 ACSR	0	0	593	143	47	6	4	0.01	3.53	0
1116006	1115011	8.08	6 1-	1/0 URD PRI AL	0	0	547	266	47	6	4	0.06	3.59	2
1015115	1015087	5.11	21 1-	1/0 ACSR	0	0	879	154	153	20	9	0.17	2.39	14
1015072	1015085	4.54	18 1-	2 ACSR	0	0	939	154	137	18	10	0.35	1.85	27
1016070	1015076	2.37	46 1-	2 ACSR	0	0	1978	166	233	31	17	0.07	0.60	14
1016071	1016070	2.37	45 1-	4 ACSR	0	0	1970	166	226	30	22	0.01	0.61	2
OC146786	1016071	2.37	45 1-	REC_99_UNK	0	0	1970	166	226	30	0	0.00	0.61	0
1016076	OC146786	4.11	44 1-	4 ACSR	0	0	871	150	222	29	21	1.19	1.79	154
1016078	1016076	4.21	0 1-	4 ACSR	0	0	843	149	0	0	0	0.00	1.79	0
1016077	1016076	4.30	1 1-	2 ACSR	0	0	832	149	4	0	0	0.00	1.79	0
1016072	OC146786	2.39	1 1-	2 ACSR	0	0	1949	166	4	0	0	0.00	0.61	0
CKT 104 total losses:	\$5,449													

SUB 40,	CKT 114													
OXFD_114	OXFORD	0.00	173 3-	SBS_99_UNK	1964185600	1964185600	1964185600		176	688	31	0	0.00	0.00
1015105	OXFD_114	0.33	173 3-	336.4 ACSR	33770	30616	20849	176	688	31	6	0.01	0.01	32
1015106	1015105	1.14	173 3-	1/0 ACSR	6290	5935	4214	172	687	31	14	0.25	0.26	242
1015121	1015106	1.20	12 1-	6 ACWC	0	0	3902	171	31	4	3	0.01	0.27	0
1015122	1015121	1.26	10 1-	4 ACSR	0	0	3587	171	25	3	2	0.01	0.28	0
1015114	1015122	2.14	6 1-	8 ACWC	0	0	1378	158	16	2	2	0.06	0.34	0
1015107	1015106	1.24	151 3-	1/0 ACSR	5726	5408	3845	171	613	28	13	0.02	0.29	24

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - DECEMBER 2005 SYSTEM
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1015077	1015107	1.31	148 3-	3/0 ACSR	5439	5131	3648	171	588	27	9	0.01	0.30	11
1015078	1015077	1.96	148 3-	1/0 ACSR	3471	3285	2347	168	588	27	12	0.13	0.42	130
1015079	1015078	2.40	70 3-	3/0 ACSR	2906	2740	1955	166	270	17	6	-0.03	0.40	25
0915066	1015079	2.83	65 3-	3/0 ACSR	2508	2359	1682	165	250	11	4	0.05	0.45	9
0915093	0915066	3.08	13 1-	4 ACSR	0	0	1467	163	64	8	6	0.09	0.53	4
0915094	0915093	3.38	11 1-	6 ACWC	0	0	1267	160	52	6	5	0.05	0.58	1
0915067	0915066	3.38	44 3-	3/0 ACSR	2132	2001	1426	163	147	6	2	0.04	0.48	4
0915068	0915067	4.57	12 3-	3/0 ACSR	1607	1504	1071	159	47	2	1	0.01	0.50	0
OC146982	0915068	4.57	0 3-	REC_99_UNK	1607	1504	1071	159	0	0	0	0.00	0.50	0
0915092	0915067	3.94	11 1-	4 ACSR	0	0	1109	158	28	3	3	0.05	0.53	0
0916108	0915067	3.87	7 1-	2 ACSR	0	0	1196	160	34	4	3	0.04	0.52	0
CA145031	1015079	2.40	0 3-	Capacitor	2906	2740	1955	166	0	-14	0	0.00	0.40	0
1016082	1015078	2.29	47 1-	4 ACSR	0	0	1832	165	180	24	17	0.36	0.78	56
OC146790	1016082	2.29	45 1-	REC_50_UNK	0	0	1832	165	175	23	47	0.00	0.78	0
1016073	OC146790	2.54	38 1-	4 ACSR	0	0	1575	162	150	20	14	0.21	0.99	26
1016075	1016073	3.72	24 1-	2 ACSR	0	0	1034	155	91	12	7	0.26	1.25	14
0916092	1016075	3.83	4 1-	6 ACWC	0	0	993	154	15	2	1	0.01	1.26	0
0916093	0916092	3.98	3 1-	4 ACSR	0	0	940	152	15	2	1	0.01	1.27	0
1016074	1016073	3.37	9 1-	4 ACSR	0	0	1061	155	43	5	4	0.11	1.10	3
1016069	OC146790	2.30	7 1-	4 ACSR	0	0	1823	164	26	3	2	0.00	0.78	0
CKT 114 total losses:		\$581												
SUB 40, CKT 124														
OXFD_124	OXFORD	0.00	191 3-	SBS_99_UNK	1964185600	1964185600	1964185600		176	1096	49	0	0.00	0.00
1015096	OXFD_124	0.34	191 3-	336.4 ACSR	32648	29599	20156	176	1096	49	9	0.11	0.11	79
1015097	1015096	0.83	187 3-	336.4 ACSR	13350	12168	8492	175	1086	48	9	0.15	0.26	110
1015098	1015097	1.14	169 3-	336.4 ACSR	9641	8797	6168	174	1019	45	9	0.09	0.35	64
OC146793	1015098	1.14	164 3-	REC_50_UNK	9641	8797	6168	174	1009	45	91	0.00	0.35	0
1015083	OC146793	1.84	164 3-	336.4 ACSR	6000	5481	3861	173	1009	45	9	0.20	0.55	135
1015084	1015083	2.65	155 3-	336.4 ACSR	4157	3799	2683	172	972	43	8	0.22	0.77	144
1015100	1015084	2.76	99 3-	336.4 ACSR	4005	3660	2585	171	611	27	5	0.02	0.79	7
OC146782	1015100	2.96	99 3-	REC_99_UNK	4005	3660	2585	171	611	27	0	0.00	0.79	0
1015101	OC146782	3.98	99 3-	336.4 ACSR	2775	2537	1795	169	611	27	5	0.21	1.00	89
1015102	1015101	4.18	95 3-	336.4 ACSR	2640	2413	1704	169	600	27	5	0.03	1.04	14
1015071	1015102	4.20	31 1-	4 ACSR	0	0	1688	169	143	19	14	0.02	1.05	2
1015126	1015071	4.36	31 1-	1/0 URD PRI AL	0	0	1606	404	143	19	11	0.10	1.15	12
1015128	1015126	4.50	3 1-	1/0 URD PRI AL	0	0	1537	398	19	2	1	0.01	1.15	0
SW146803-A	1015128	4.50	0 1-	Open	0	0	1537	398	0	0	0	0.00	1.15	0
1015127	1015126	5.59	27 1-	1/0 URD PRI AL	0	0	1132	356	122	16	10	0.31	1.46	23
SW146803-B	1015127	5.59	0 1-	Open	0	0	1132	356	0	0	0	0.00	1.46	0
1015103	1015102	4.38	63 3-	336.4 ACSR	2518	2300	1621	168	450	20	4	0.03	1.06	8
1015104	1015103	5.13	1 3-	336.4 ACSR	2151	1963	1377	167	0	0	0	0.00	1.06	0
1015070	1015103	4.89	62 1-	2 ACSR	0	0	1342	165	450	60	34	0.94	2.00	349
1015125	1015070	5.25	16 1-	1/0 URD PRI AL	0	0	1222	373	136	18	11	0.10	2.10	8
1015131	1015070	5.99	43 1-	1/0 URD PRI AL	0	0	1020	347	292	39	23	0.68	2.68	118
1015094	1015084	3.53	41 3-	1/0 ACSR	2673	2479	1752	167	302	13	6	0.20	0.97	49
1015095	1015094	4.03	33 3-	1/0 ACSR	2205	2055	1455	165	279	12	5	0.08	1.05	15
1015118	1015095	4.57	25 1-	6 ACWC	0	0	1151	160	123	16	12	0.25	1.29	20
1015120	1015118	4.66	7 1-	6 ACWC	0	0	1110	159	30	4	3	0.01	1.30	0
1015119	1015118	4.77	2 1-	4 ACSR	0	0	1064	158	0	0	0	0.00	1.29	0
1015117	1015094	4.85	4 1-	4 ACSR	0	0	970	155	16	2	2	0.06	1.03	0
1015067	1015097	0.87	10 1-	4 ACSR	0	0	7552	174	40	5	4	0.01	0.27	0

APPENDIX # 1

BGE LOAD-FLOW ANALYSIS

2006 SYSTEM WITH 2010 LOADING

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 0	SOUTHPOINT		278		5514	5684	5734	180	5398					
SUB 0,	CKT 1													
OC434	SOUTHPOINT	0.00	278 3-	_DefaultBayEqui	5514	5684	5734	180	5398	253 0	0.00	0.00	0.00	0
OH435	OC434	0.06	278 3-	336.4 ACSR	5348	5428	5458	180	5398	253 48	0.13	0.13	399	0
1415547	OH435	0.12	56 1-	4 ACSR	0	0	5084	179	418	56 40	0.14	0.27	53	0
1415548	1415547	0.53	56 1-	1/0 ACSR	0	0	3544	177	418	56 24	0.24	0.51	53	0
1415394	OH435	0.89	222 3-	1/0 ACSR	3303	3117	2800	176	4977	235 102	3.54	3.67	13532	0
1415387	1415394	0.91	28 3-	1/0 ACSR	3274	3086	2769	175	4077	205 89	0.07	3.74	232	0
1415610	1415387	0.91	28 3-	500 MCM URD PRI	3274	3086	2769	446	4075	205 53	0.00	3.74	5	0
SW-194515190-B	1415610	0.91	28 3-	Closed	3274	3086	2769	446	4075	205 0	0.00	3.74	0	0
SW-194515190-A	SW-194515190-B	0.91	28 3-	Closed	3274	3086	2769	446	4075	205 0	0.00	3.74	0	0
1415611	SW-194515190-A	1.03	28 3-	500 MCM URD PRI	3216	3035	2729	445	4075	205 53	0.16	3.89	546	0
SW2078374425-B	1415611	1.03	28 3-	Closed	3216	3035	2729	445	4070	205 0	0.00	3.89	0	0
SW2078374425-A	SW2078374425-B	1.03	28 3-	Closed	3216	3035	2729	445	4070	205 0	0.00	3.89	0	0
1415388	SW2078374425-A	1.03	28 3-	336.4 ACSR	3210	3029	2722	175	4070	205 39	0.01	3.90	24	0
1415620	1415388	1.03	2 3-	4/0 AL URD PRI	3209	3028	2720	445	0	0 0	0.00	3.90	0	0
OC1310839836	1415620	1.03	2 3-	_DefaultBayEqui	3209	3028	2720	445	0	0 0	0.00	3.90	0	0
1415621	OC1310839836	1.10	2 3-	4/0 AL URD PRI	3148	2980	2656	442	0	0 0	0.00	3.90	0	0
1415622	1415621	1.12	2 3-	1/0 URD PRI AL	3125	2959	2636	442	0	0 0	0.00	3.90	0	0
1415612	1415388	1.20	26 3-	500 MCM URD PRI	3132	2961	2667	443	4070	205 53	0.22	4.12	766	0
1415613	1415612	1.20	20 3-	1/0 URD PRI AL	3127	2957	2664	443	0	0 0	0.00	4.12	0	0
OC1179294980	1415613	1.20	20 3-	_DefaultBayEqui	3127	2957	2664	443	0	0 0	0.00	4.12	0	0
1415374	OC1179294980	1.49	20 3-	336.4 ACSR	2881	2696	2382	174	0	0 0	0.00	4.12	0	0
1415617	1415374	1.49	2 3-	4/0 AL URD PRI	2879	2694	2380	438	0	0 0	0.00	4.12	0	0
OC358487544	1415617	1.49	2 3-	_DefaultBayEqui	2879	2694	2380	438	0	0 0	0.00	4.12	0	0
1415618	OC358487544	1.85	2 3-	4/0 AL URD PRI	2648	2505	2146	428	0	0 0	0.00	4.12	0	0
1415619	1415618	1.97	0 3-	1/0 URD PRI AL	2539	2404	2059	423	0	0 0	0.00	4.12	0	0
1415375	1415374	1.53	18 3-	336.4 ACSR	2853	2666	2351	174	0	0 0	0.00	4.12	0	0
1415376	1415375	1.61	15 3-	336.4 ACSR	2792	2604	2285	174	0	0 0	0.00	4.12	0	0
1415564	1415376	1.61	12 3-	1/0 URD PRI AL	2791	2603	2284	436	0	0 0	0.00	4.12	0	0
OC1874110221	1415564	1.61	12 3-	_DefaultBayEqui	2791	2603	2284	436	0	0 0	0.00	4.12	0	0
1415562	OC1874110221	1.64	12 3-	1/0 URD PRI AL	2759	2574	2259	435	0	0 0	0.00	4.12	0	0
1415393	1415376	1.64	3 3-	336.4 ACSR	2768	2579	2259	174	0	0 0	0.00	4.12	0	0
1415616	1415393	1.64	3 3-	1/0 URD PRI AL	2766	2577	2257	436	0	0 0	0.00	4.12	0	0
OC1130261872	1415616	1.64	3 3-	_DefaultBayEqui	2766	2577	2257	436	0	0 0	0.00	4.12	0	0
1415563	OC1130261872	1.66	3 3-	1/0 URD PRI AL	2753	2566	2247	435	0	0 0	0.00	4.12	0	0
1415614	1415375	1.53	3 3-	1/0 URD PRI AL	2850	2664	2349	438	0	0 0	0.00	4.12	0	0
OC1362282729	1415614	1.53	3 3-	_DefaultBayEqui	2850	2664	2349	438	0	0 0	0.00	4.12	0	0
1415615	OC1362282729	1.55	3 3-	1/0 URD PRI AL	2826	2643	2330	437	0	0 0	0.00	4.12	0	0
LP SPOT LOAD	1415612	1.20	3 3-	Consumer	3132	2961	2667	443	4063	205 0	0.00	4.12	0	0
1415730	1415394	1.75	154 3-	1/0 ACSR	2277	2137	1804	171	500	25 11	0.12	3.79	138	0
1515191	1415730	1.79	31 3-	4/0 ACSR	2255	2116	1783	171	190	8 3	0.00	3.79	0	0
1515192	1515191	2.25	31 3-	1/0 ACSR	1931	1815	1499	169	190	8 4	0.03	3.82	4	0
1515184	1415730	1.81	60 3-	4/0 ACSR	2241	2102	1769	171	177	15 4	-0.01	3.78	2	0
1515257	1515184	1.84	48 1-	1/0 ACSR	0	0	1748	171	131	18 8	0.01	3.79	1	0
1515258	1515257	1.85	48 1-	2 ACSR	0	0	1743	171	131	18 10	0.00	3.80	0	0
OC101651	1515258	1.85	48 1-	REC_35_UNK	0	0	1743	171	131	18 52	0.00	3.80	0	0
1515250	OC101651	2.04	48 1-	2 ACSR	0	0	1592	170	131	18 10	0.08	3.88	8	0
1515251	1515250	2.26	24 1-	4 ACSR	0	0	1420	167	64	8 6	0.04	3.92	2	0
1515183	1515184	2.25	8 3-	4/0 ACSR	1999	1867	1538	170	32	14 4	-0.07	3.71	13	0
OC101650	1515183	2.25	6 3-	REC_100_UNK	1999	1867	1538	170	17	14 14	0.00	3.71	0	0
1515182	OC101650	2.39	6 3-	4/0 ACSR	1934	1804	1477	169	17	14 4	-0.02	3.68	4	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES CONS	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1515240	1515182	2.40	5 1-	6 ACWC	0	0	1468	169	10	1	1	0.00	3.68	0
OC101647	1515240	2.40	5 1-	REC_35_UNK	0	0	1468	169	10	1	4	0.00	3.68	0
1515241	OC101647	3.00	5 1-	6 ACWC	0	0	1121	163	10	1	1	0.03	3.71	0
1515242	1515241	3.17	1 1-	4 ACSR	0	0	1048	162	4	0	0	0.00	3.71	0
1515181	1515182	2.42	0 3-	4/0 ACSR	1920	1791	1464	169	0	-14	4	-0.01	3.68	0
CA100050	1515181	2.42	0 3-	Capacitor	1920	1791	1464	169	0	-14	0	0.00	3.68	0
1515180	1515181	2.48	0 3-	4/0 ACSR	1896	1768	1442	169	0	0	0	0.00	3.68	0
CKT 1	total losses:	\$15,782												
SUB 0	total losses:	\$15,782												

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 0, CKT 2														
OC428	POWELL TAYLOR	0.00	293 3-	_DefaultBayEqui	5564	5843	5898	180	1860	83	0	0.00	0.00	0
OH432	OC428	0.05	293 3-	336.4 ACSR	5438	5637	5682	180	1860	83	16	0.03	0.03	32
1310077	OH432	0.67	293 3-	336.4 ACSR	4154	4015	3714	178	1860	83	16	0.33	0.36	395
RG400004	1310077	0.67	273 3-	219	4154	4015	3714	178	1679	75	35	-0.36	0.00	0
1410078	RG400004	2.09	273 3-	336.4 ACSR	2682	2488	2059	175	1679	75	14	0.68	0.68	733
1409068	1410078	2.18	254 3-	1/0 ACSR	2599	2404	1983	175	1524	68	30	0.10	0.78	123
OC400551	1409068	2.18	254 3-	REC_70_UNK	2599	2404	1983	175	1523	68	98	0.00	0.78	0
1409069	OC400551	2.79	254 3-	1/0 ACSR	2099	1926	1548	172	1523	68	30	0.72	1.50	887
RG400010	1409069	2.79	245 3-	219	2099	1926	1548	172	1474	67	31	-1.50	0.00	0
1409070	RG400010	2.80	245 3-	1/0 ACSR	2093	1921	1543	172	1474	66	29	0.01	0.01	11
SW400413-B	1409070	2.80	245 3-	Closed	2093	1921	1543	172	1474	66	0	0.00	0.01	0
SW400413-A	SW400413-B	2.80	245 3-	Closed	2093	1921	1543	172	1474	66	0	0.00	0.01	0
1409056	SW400413-A	2.90	245 3-	1/0 ACSR	2026	1862	1488	171	1474	66	29	0.11	0.12	135
1409057	1409056	3.22	202 3-	1/0 ACSR	1840	1695	1337	170	1206	54	24	0.30	0.42	285
1409058	1409057	3.72	164 3-	1/0 ACSR	1608	1486	1155	167	1041	46	20	0.39	0.81	327
RG400013	1409058	3.72	162 3-	219	1608	1486	1155	167	993	44	21	-0.81	0.00	0
1309067	RG400013	4.60	162 3-	1/0 ACSR	1308	1215	928	163	993	44	19	0.65	0.65	512
1309054	1309067	5.29	143 3-	1/0 ACSR	1140	1062	803	159	882	39	17	0.45	1.11	317
OC400556	1309054	5.29	135 3-	35-H	1140	1062	803	159	810	36	105	0.00	1.11	0
1309055	OC400556	5.43	135 3-	1/0 ACSR	1111	1035	782	159	810	36	16	0.09	1.19	56
1309048	1309055	6.10	108 2-	1/0 ACSR	0	920	697	156	680	46	20	0.57	1.76	295
1309057	1309048	6.65	35 1-	4 ACSR	0	0	613	151	202	27	20	0.58	2.34	92
1309058	1309057	7.70	29 1-	6 ACWC	0	0	496	142	139	19	14	0.45	2.79	37
1309042	1309048	6.65	60 1-	4 ACSR	0	0	613	151	391	53	38	1.25	3.01	410
1309043	1309042	7.74	54 1-	6 ACWC	0	0	492	142	338	46	33	2.04	5.06	568
1309045	1309043	9.66	40 1-	6 ACWC	0	0	363	129	262	36	26	2.18	7.23	407
1309046	1309045	9.86	7 1-	2 ACSR	0	0	355	128	99	14	8	0.06	7.29	4
1309047	1309046	9.99	4 1-	4 ACSR	0	0	349	127	37	5	4	0.02	7.31	0
1309044	1309043	8.00	2 1-	6 ACWC	0	0	470	140	5	0	0	0.00	5.06	0
SW400742-A	1309044	8.00	0 1-	Open	0	0	470	140	0	0	0	0.00	5.06	0
1309056	1309055	5.44	19 3-	1/0 ACSR	1108	1033	780	159	85	3	2	0.00	1.19	0
1309060	1309056	7.05	19 1-	6 ACWC	0	0	537	145	85	11	8	0.42	1.61	21
1309041	1309067	5.45	8 1-	4 ACSR	0	0	724	155	35	4	3	0.09	0.74	2
1409044	1409057	3.23	31 1-	4 ACSR	0	0	1334	170	119	16	12	0.00	0.42	0
OC400553	1409044	3.23	31 1-	REC_35_UNK	0	0	1334	170	119	16	46	0.00	0.42	0
1409045	OC400553	6.39	31 1-	4 ACSR	0	0	520	141	119	16	12	1.25	1.67	89
1409046	1409045	6.44	1 1-	2 ACSR	0	0	517	141	10	1	1	0.00	1.67	0
1409075	1409056	3.12	41 1-	6 ACWC	0	0	1350	169	210	28	20	0.26	0.38	45
OC400552	1409075	3.12	39 1-	REC_35_UNK	0	0	1350	169	192	25	74	0.00	0.38	0
1309068	OC400552	4.86	39 1-	6 ACWC	0	0	731	153	192	25	19	1.01	1.39	111
CKT 2 total losses:		\$5,894												

SUB 0, CKT 3														
OC429	POWELL TAYLOR	0.00	189 3-	_DefaultBayEqui	5564	5843	5898	180	956	42	0	0.00	0.00	0
OH431	OC429	0.04	189 3-	336.4 ACSR	5445	5647	5693	180	956	42	8	0.01	0.01	8
1310083	OH431	0.06	189 3-	3/0 ACSR	5385	5548	5592	180	955	42	14	0.01	0.01	6
OC400540	1310083	0.06	189 3-	70-L	5385	5548	5592	180	955	42	61	0.00	0.01	0
1310084	OC400540	0.07	189 3-	3/0 ACSR	5342	5478	5519	180	955	42	14	0.00	0.02	5
1410079	1310084	1.93	189 3-	3/0 ACSR	2365	2182	1825	173	955	42	14	0.78	0.79	499
1410045	1410079	3.25	135 3-	1/0 ACSR	1583	1469	1159	166	640	28	13	0.46	1.25	194
1410069	1410045	3.67	57 1-	4 ACSR	0	0	988	162	264	35	26	0.34	1.60	53

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
CA400003	1310084	0.07	0 3-	Capacitor	5342	5478	5519	180	0	-14	0	0.00	0.02	0
CKT	3 total losses:													
		\$765												
SUB	0, CKT 4													
	OCD430	POWELL TAYLOR	0.00	240 3-	_DefaultBayEqui	5564	5843	5898	180	2316	105	0	0.00	0.00
	1310086	OCD430	0.06	240 3-	336.4 ACSR	5396	5556	5598	180	2316	105	20	0.05	0.05
	SW400064-B	1310086	0.06	240 3-	Closed	5396	5556	5598	180	2316	105	0	0.00	0.05
	SW400064-A	SW400064-B	0.06	240 3-	Closed	5396	5556	5598	180	2316	105	0	0.00	0.05
	1310073	SW400064-A	2.16	240 3-	336.4 ACSR	2638	2445	2016	175	2316	105	20	1.41	1.46
	1310074	1310073	2.21	134 3-	2 ACSR	2586	2390	1970	175	681	31	17	0.04	1.50
	1310098	1310074	2.23	134 2-	4 ACSR	0	2351	1942	175	681	46	33	0.05	1.55
	OC400101	1310098	2.23	134 2-	REC_50_UNK	0	2351	1942	175	680	46	93	0.00	1.55
	1310099	OC400101	2.29	134 2-	4 ACSR	0	2280	1892	174	680	46	33	0.10	1.65
	1310095	1310099	2.45	76 1-	4 ACSR	0	0	1724	172	384	52	38	0.37	2.02
	1310097	1310095	2.75	23 1-	4 ACSR	0	0	1470	169	112	15	11	0.10	2.12
	1310096	1310095	2.65	46 1-	4 ACSR	0	0	1547	170	217	29	21	0.14	2.16
	1310101	1310099	2.58	34 1-	4 ACSR	0	0	1632	171	158	21	15	0.14	1.79
	1310100	1310099	2.62	24 1-	4 ACSR	0	0	1574	171	138	18	13	0.14	1.79
	1310072	1310073	2.56	0 3-	336.4 ACSR	2402	2214	1796	174	1038	48	9	0.15	1.61
	SL1	1310072	2.56	0 3-	Consumer	2402	2214	1796	174	1037	48	0	0.00	1.61
CKT	4 total losses:													
		\$2,291												
SUB	0 total losses:													
		\$14,983												

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Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LIG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS	
SUB 1	NICHOLASVILLE		1121			5649	5822	5884	180	10985					
SUB 1	CKT 104														
	NICH_104	NICHOLASVILLE	0.00	446 3-	SBS_99_UNK	5649	5822	5884	180	3944	177	0	0.00	0.00	0
	1515215	NICH_104	0.46	446 3-	4/0 ACSR	4397	4302	3974	178	3944	177	52	0.79	0.79	2228
	1515276	1515215	0.50	1 1-	1/0 URD PRI AL	0	0	3864	464	11	1	1	0.00	0.79	0
	SW100965-A	1515276	0.50	0 1-	Open	0	0	3864	464	0	0	0	0.00	0.79	0
	1515216	1515215	0.51	443 3-	4/0 ACSR	4278	4170	3819	178	3901	176	52	0.10	0.88	268
	1515275	1515216	0.77	7 1-	1/0 URD PRI AL	0	0	3247	452	61	8	5	0.03	0.92	1
	SW100965-B	1515275	0.77	0 1-	Open	0	0	3247	452	0	0	0	0.00	0.92	0
	1515217	1515216	1.69	434 3-	4/0 ACSR	2689	2505	2066	175	3806	172	51	1.90	2.78	5193
	1614296	1515217	2.33	291 3-	4/0 ACSR	2232	2057	1652	173	3056	139	41	0.82	3.60	1917
	1614282	1614296	2.44	1 3-	350 MCM URD PRI	2205	2036	1633	421	615	28	9	0.02	3.62	10
	1614999	1614282	2.44	1 3-	Consumer	2205	2036	1633	421	615	28	0	0.00	3.62	0
	1614152	1614296	2.90	285 3-	4/0 ACSR	1934	1770	1399	171	2404	110	32	0.54	4.14	996
	1614153	1614152	3.49	248 3-	4/0 ACSR	1702	1549	1209	169	2182	102	30	0.60	4.74	917
	1614154	1614153	3.62	224 3-	4/0 ACSR	1658	1507	1174	169	2062	97	29	0.13	4.87	193
	1614155	1614154	3.69	224 3-	336.4 ACSR	1638	1489	1158	168	2060	97	18	0.05	4.92	69
	SW100770-A	1614155	3.69	224 3-	Closed	1638	1489	1158	168	2060	97	0	0.00	4.92	0
	SW100770-B	SW100770-A	3.69	224 3-	Closed	1638	1489	1158	168	2060	97	0	0.00	4.92	0
	1614156	SW100770-B	4.24	224 3-	336.4 ACSR	1509	1369	1055	167	2060	97	18	0.37	5.30	507
	OC1846818361	1614156	4.24	224 3-	OCR_100_UNK	1509	1369	1055	167	2055	97	97	0.00	5.30	0
	1614157	OC1846818361	4.26	224 3-	336.4 ACSR	1505	1365	1051	167	2055	97	18	0.01	5.31	17
	RG-984448214	1614157	4.26	224 3-	219	1505	1365	1051	167	2055	97	44	-5.31	0.00	0
	1614158	RG-984448214	4.29	224 3-	336.4 ACSR	1498	1359	1046	167	2055	93	18	0.02	0.02	28
	1614161	1614158	4.45	165 3-	336.4 ACSR	1465	1329	1020	167	1571	71	13	0.08	0.10	75
	1614148	1614161	4.64	24 1-	1/0 ACSR	0	0	976	166	243	33	14	0.07	0.17	9
	1614281	1614148	4.66	0 1-	1/0 URD PRI AL	0	0	973	376	0	0	0	0.00	0.17	0
	SW100968-A	1614281	4.66	0 1-	Open	0	0	973	376	0	0	0	0.00	0.17	0
	1614164	1614161	4.51	62 3-	336.4 ACSR	1454	1319	1011	167	603	27	5	0.01	0.11	4
	1614165	1614164	4.61	35 3-	336.4 ACSR	1432	1300	994	166	349	15	3	0.01	0.12	2
	1614253	1614165	4.77	21 1-	1/0 ACSR	0	0	961	166	216	29	13	0.09	0.21	13
	1614254	1614253	4.78	14 1-	4 ACSR	0	0	956	165	154	20	15	0.01	0.22	0
	1614255	1614254	4.84	6 1-	1/0 ACSR	0	0	946	165	53	7	3	0.00	0.22	0
	1614166	1614165	4.76	4 3-	336.4 ACSR	1405	1275	973	166	35	1	0	0.00	0.12	0
	1614270	1614164	4.67	20 1-	1/0 ACSR	0	0	975	166	178	24	11	0.05	0.16	5
	1614290	1614270	4.69	4 1-	1/0 URD PRI AL	0	0	971	376	24	3	2	0.00	0.16	0
	SW100967-A	1614290	4.69	0 1-	Open	0	0	971	376	0	0	0	0.00	0.16	0
	1614162	1614161	4.96	75 3-	336.4 ACSR	1367	1240	944	166	661	30	6	0.09	0.19	32
	1614163	1614162	5.05	4 3-	336.4 ACSR	1352	1227	932	165	36	1	0	0.00	0.19	0
	1614250	1614162	5.00	44 1-	1/0 ACSR	0	0	937	165	369	50	22	0.04	0.23	11
	OC100772	1614250	5.00	44 1-	REC_50_UNK	0	0	937	165	369	50	101	0.00	0.23	0
	1614251	OC100772	5.27	44 1-	1/0 ACSR	0	0	887	164	369	50	22	0.21	0.43	45
	1614252	1614251	5.58	18 1-	4 ACSR	0	0	812	161	131	17	13	0.13	0.56	10
	1614159	1614158	4.50	57 3-	1/0 ACSR	1428	1299	996	166	456	20	9	0.06	0.09	21
	1614289	1614159	4.75	22 1-	1/0 URD PRI AL	0	0	950	369	148	20	12	0.08	0.16	7
	SW100967-B	1614289	4.75	0 1-	Open	0	0	950	369	0	0	0	0.00	0.16	0
	1614160	1614159	4.59	21 3-	1/0 ACSR	1400	1275	977	166	161	7	3	0.01	0.10	1
	1614280	1614160	4.81	19 1-	1/0 URD PRI AL	0	0	937	368	148	20	12	0.07	0.17	6
	SW100968-B	1614280	4.81	0 1-	Open	0	0	937	368	0	0	0	0.00	0.17	0
	SW100730-B	1614153	3.49	0 3-	Open	1702	1549	1209	169	0	0	0	0.00	4.74	0
	CA100023	1614152	2.90	0 3-	Capacitor	1934	1770	1399	171	0	-14	0	0.00	4.14	0
	1514367	1515217	1.71	112 2-	4 ACSR	0	2469	2037	174	500	34	25	0.03	2.81	15

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
OC100767	1514367	1.71	112 2-	REC_70_UNK	0	2469	2037	174	500	34 50	0.00	2.81	0	
1514368	OC100767	2.34	112 2-	4 ACSR	0	1761	1428	168	500	34 25	0.66	3.47	235	
1514352	1514368	2.41	44 1-	4 ACSR	0	0	1381	167	202	28 20	0.08	3.55	14	
1514363	1514352	2.71	21 1-	4 ACSR	0	0	1197	164	123	17 12	0.12	3.67	9	
1514362	1514352	2.64	15 1-	4 ACSR	0	0	1237	165	55	7 5	0.04	3.59	1	
CKT 104 total losses:		\$12,859												
SUB	1, CKT 114													
NICH_114	NICHOLASVILLE	0.00	222 3-	SBS_99_UNK	5649	5822	5884	180	3027	133 0	0.00	0.00	0	
1515223	NICH_114	0.87	222 3-	4/0 ACSR	3641	3482	3049	177	3027	133 39	0.85	0.85	2178	
1515227	1515223	0.95	39 3-	1/0 ACSR	3499	3330	2900	177	359	16 7	0.02	0.88	7	
OC100842	1515227	0.95	39 3-	50-L	3499	3330	2900	177	359	16 33	0.00	0.88	0	
1515205	OC100842	1.59	39 3-	1/0 ACSR	2616	2419	2050	174	359	16 7	0.17	1.05	46	
SW1319271979-A	1515205	1.59	29 3-	Closed	2616	2419	2050	174	290	13 0	0.00	1.05	0	
SW1319271979-B	SW1319271979-A	1.59	29 3-	Closed	2616	2419	2050	174	290	13 0	0.00	1.05	0	
1515206	SW1319271979-B	1.73	29 3-	1/0 ACSR	2476	2290	1926	173	290	13 6	0.03	1.08	7	
SW-1984646295-A	1515206	1.73	28 3-	Closed	2476	2290	1926	173	282	12 0	0.00	1.08	0	
SW-1984646295-B	SW-1984646295-A	1.73	28 3-	Closed	2476	2290	1926	173	282	12 0	0.00	1.08	0	
1515203	SW-1984646295-B	2.92	28 3-	1/0 ACSR	1683	1572	1263	167	282	12 6	0.14	1.21	20	
SW100777-B	1515203	2.92	0 3-	Closed	1683	1572	1263	167	0	0 0	0.00	1.21	0	
SW100777-A	SW100777-B	2.92	0 3-	Closed	1683	1572	1263	167	0	0 0	0.00	1.21	0	
1515220	1515223	0.95	140 3-	4/0 ACSR	3515	3350	2909	177	2324	103 30	0.06	0.91	140	
1515221	1515220	1.04	140 3-	4/0 ACSR	3397	3227	2781	177	2323	103 31	0.08	0.99	142	
SW100789-A	1515221	1.04	140 3-	Closed	3397	3227	2781	177	2322	103 0	0.00	0.99	0	
SW100789-B	SW100789-A	1.04	140 3-	Closed	3397	3227	2781	177	2322	103 0	0.00	0.99	0	
1515218	SW100789-B	1.33	140 3-	4/0 ACSR	3045	2864	2413	176	2322	103 31	0.25	1.24	444	
1515224	1515218	1.49	33 3-	1/0 ACSR	2835	2648	2218	175	325	14 6	0.04	1.28	10	
OC100845	1515224	1.49	30 3-	70-L	2835	2648	2218	175	273	12 18	0.00	1.28	0	
1515225	OC100845	2.04	30 3-	1/0 ACSR	2293	2109	1744	172	273	12 5	0.12	1.40	27	
1515154	1515225	2.65	11 1-	4 ACSR	0	0	1276	166	126	17 12	0.24	1.64	18	
1515226	1515225	3.95	19 3-	1/0 ACSR	1346	1258	988	163	147	6 3	0.11	1.52	9	
SW100786-A	1515226	3.95	0 3-	Open	1346	1258	988	163	0	0 0	0.00	1.52	0	
1515219	1515218	1.58	85 3-	4/0 ACSR	2786	2602	2158	175	1757	78 23	0.16	1.40	233	
1514694	1515219	2.80	63 3-	4/0 ACSR	1979	1813	1436	171	1571	70 21	0.58	1.98	749	
SW100780-A	1514694	2.80	11 3-	Closed	1979	1813	1436	171	1202	53 0	0.00	1.98	0	
SW100780-B	SW100780-A	2.80	11 3-	Closed	1979	1813	1436	171	1202	53 0	0.00	1.98	0	
1514440	SW100780-B	3.08	11 3-	4/0 ACSR	1855	1695	1333	170	1202	53 16	0.10	2.08	120	
1514433	1514440	3.12	4 3-	4/0 ACSR	1842	1682	1322	170	1136	52 15	0.02	2.10	14	
1514441	1514433	3.13	0 3-	4/0 ACSR	1835	1675	1316	170	0	0 0	0.00	2.10	0	
SW133-B	1514441	3.13	0 3-	Open	1835	1675	1316	170	0	0 0	0.00	2.10	0	
1514437	1514433	3.14	3 3-	1/0 ACSR	1832	1673	1315	170	1136	52 23	0.02	2.12	15	
SW100783-A	1514437	3.14	3 3-	Closed	1832	1673	1315	170	1136	52 0	0.00	2.12	0	
SW100783-B	SW100783-A	3.14	3 3-	Closed	1832	1673	1315	170	1136	52 0	0.00	2.12	0	
1514426	SW100783-B	3.21	3 3-	1/0 ACSR	1793	1634	1286	170	1136	52 23	0.07	2.19	67	
1514427	1514426	3.42	1 3-	4 ACSR	1648	1514	1182	167	84	3 3	0.02	2.20	0	
1514624	1514426	3.24	1 3-	1/0 URD PRI AL	1781	1623	1278	401	1051	48 29	0.03	2.22	29	
1514998	1514624	3.24	1 3-	Consumer	1781	1623	1278	401	1051	48 0	0.00	2.22	0	
CA100029	1514440	3.08	0 3-	Capacitor	1855	1695	1333	170	0	-14 0	0.00	2.08	0	
1515261	1515219	1.59	8 1-	4 ACSR	0	0	2150	175	77	10 8	0.00	1.40	0	
OC100846	1515261	1.59	8 1-	REC_25_UNK	0	0	2150	175	77	10 43	0.00	1.40	0	
1515262	OC100846	1.95	8 1-	4 ACSR	0	0	1722	171	77	10 8	0.00	1.49	4	
CA100026	1515220	0.95	0 3-	Capacitor	3515	3350	2909	177	0	-14 0	0.09	0.91	0	

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 2	HOLLOWAY													
SUB 2, CKT 104			1938		5447	5663	5740	180	13535					
HLWY_104	HOLLOWAY	0.00	1055 3-	SBS_99_UNK	5447	5663	5740	180	6293	293 0	0.00	0.00	0.00	0
1514386	HLWY_104	1.51	1055 3-	336.4 ACSR	3108	2925	2492	177	6293	293 55	3.35	3.35	12472	0
1514416	1514386	2.31	5 3-	4/0 ACSR	2409	2230	1815	174	9	0 0	0.00	3.36	0	0
SW152-B	1514416	2.31	1 3-	Closed	2409	2230	1815	174	0	0 0	0.00	3.36	0	0
SW152-A	SW152-B	2.31	1 3-	Closed	2409	2230	1815	174	0	0 0	0.00	3.36	0	0
1514383	SW152-A	2.38	1 3-	4/0 ACSR	2365	2187	1774	174	0	0 0	0.00	3.36	0	0
1514385	1514383	2.47	1 3-	4/0 ACSR	2307	2131	1723	174	0	0 0	0.00	3.36	0	0
SW151-A	1514385	2.47	0 3-	Open	2307	2131	1723	174	0	0 0	0.00	3.36	0	0
1514384	1514383	2.38	0 3-	1/0 ACSR	2360	2182	1770	174	0	0 0	0.00	3.36	0	0
SW148-A	1514384	2.38	0 3-	Open	2360	2182	1770	174	0	0 0	0.00	3.36	0	0
1514387	1514386	1.93	1028 3-	336.4 ACSR	2771	2585	2149	176	6078	288 54	0.90	4.25	3366	0
SW132-B	1514387	1.93	1021 3-	Closed	2771	2585	2149	176	6015	286 0	0.00	4.25	0	0
SW132-A	SW132-B	1.93	1021 3-	Closed	2771	2585	2149	176	6015	286 0	0.00	4.25	0	0
1514388	SW132-A	2.75	1021 3-	336.4 ACSR	2286	2107	1693	174	6015	286 54	1.70	5.95	6353	0
1514389	1514388	2.79	985 3-	336.4 ACSR	2269	2090	1678	174	5750	276 52	0.07	6.02	255	0
OC-1817822462	1514389	2.79	985 3-	_DefaultBayEqui	2269	2090	1678	174	5748	276 0	0.00	6.02	0	0
1514390	OC-1817822462	2.91	985 3-	336.4 ACSR	2210	2033	1626	174	5748	276 52	0.25	6.27	927	0
1514391	1514390	2.94	982 3-	336.4 ACSR	2196	2019	1614	174	5737	276 52	0.06	6.33	233	0
OC-1627501197	1514391	2.94	982 3-	_DefaultBayEqui	2196	2019	1614	174	5735	276 0	0.00	6.33	0	0
1514374	OC-1627501197	3.08	982 3-	336.4 ACSR	2136	1962	1561	173	5735	276 52	0.27	6.60	1007	0
1514415	1514374	3.09	0 3-	336.4 ACSR	2130	1956	1556	173	0	0 0	0.00	6.60	0	0
SW133-A	1514415	3.09	0 3-	Open	2130	1956	1556	173	0	0 0	0.00	6.60	0	0
1514375	1514374	3.12	980 3-	336.4 ACSR	2117	1943	1544	173	5725	276 52	0.09	6.70	337	0
RG3	1514375	3.12	978 3-	219	2117	1943	1544	173	5722	276 126	-6.70	0.00	0	0
1514376	RG3	3.28	978 3-	336.4 ACSR	2053	1882	1489	173	5722	261 49	0.29	0.29	1028	0
1514377	1514376	3.57	971 3-	4/0 ACSR	1916	1751	1375	172	5668	259 76	0.79	1.09	3069	0
1514414	1514377	3.67	1 3-	336.4 ACSR	1883	1719	1347	172	4	0 0	0.00	1.09	0	0
SW136-A	1514414	3.67	0 3-	Open	1883	1719	1347	172	0	0 0	0.00	1.09	0	0
1514378	1514377	3.72	969 3-	4/0 ACSR	1853	1691	1324	172	5616	258 76	0.40	1.49	1553	0
1514413	1514378	3.80	0 3-	4/0 ACSR	1821	1661	1298	171	0	0 0	0.00	1.49	0	0
SW139-A	1514413	3.80	0 3-	Open	1821	1661	1298	171	0	0 0	0.00	1.49	0	0
1514379	1514378	3.85	969 3-	4/0 ACSR	1800	1642	1281	171	5603	258 76	0.35	1.84	1369	0
1514412	1514379	3.86	16 3-	1/0 ACSR	1796	1637	1278	171	217	9 4	0.00	1.84	0	0
1514605	1514412	3.88	13 1-	1/0 ACSR	0	0	1274	171	199	27 12	0.00	1.85	0	0
1514392	1514379	3.95	949 3-	4/0 ACSR	1765	1608	1253	171	5360	247 73	0.24	2.08	880	0
1514355	1514392	3.98	87 1-	1/0 ACSR	0	0	1242	171	504	69 30	0.05	2.13	19	0
OC195	1514355	3.98	87 1-	REC_35_UNK	0	0	1242	171	504	69 200	0.00	2.13	0	0
1514356	OC195	4.37	87 1-	1/0 ACSR	0	0	1122	169	504	69 30	0.31	2.44	80	0
1514398	1514392	4.02	812 3-	4/0 ACSR	1740	1584	1232	171	4488	207 61	0.15	2.22	453	0
SW142-B	1514398	4.02	781 3-	Closed	1740	1584	1232	171	4347	201 0	0.00	2.22	0	0
SW142-A	SW142-B	4.02	781 3-	Closed	1740	1584	1232	171	4347	201 0	0.00	2.22	0	0
1514399	SW142-A	4.05	781 3-	4/0 ACSR	1726	1572	1222	170	4347	201 59	0.08	2.30	231	0
1514353	1514399	4.09	87 1-	1/0 ACSR	0	0	1210	170	448	62 27	0.05	2.35	18	0
OC196	1514353	4.09	86 1-	REC_50_UNK	0	0	1210	170	440	61 122	0.00	2.35	0	0
1514354	OC196	4.35	86 1-	1/0 ACSR	0	0	1130	169	440	61 27	0.18	2.54	41	0
1514400	1514399	4.19	693 3-	4/0 ACSR	1681	1529	1186	170	3869	179 53	0.24	2.54	649	0
1514644	1514400	4.20	1 3-	1/0 URD PRI AL	1676	1525	1183	402	852	39 23	0.01	2.55	8	0
1514999	1514644	4.20	1 3-	Consumer	1676	1525	1183	402	852	39 0	0.00	2.55	0	0
1514401	1514400	4.19	684 3-	4/0 ACSR	1679	1527	1184	170	2950	136 40	0.01	2.55	13	0
1514603	1514401	4.22	52 1-	1/0 ACSR	0	0	1176	170	178	24 11	0.02	2.56	2	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
OC197	1514603	4.22	52 1-	REC_50_UNK	0	0	1176	170	178	24 50	0.00	2.56	0	
1514604	OC197	4.54	52 1-	1/0 ACSR	0	0	1084	168	178	24 11	0.09	2.66	8	
1514402	1514401	4.25	632 3-	4/0 ACSR	1660	1509	1169	170	2772	128 38	0.08	2.62	149	
1514350	1514402	4.28	30 1-	1/0 ACSR	0	0	1160	170	97	13 6	0.01	2.63	0	
OC198	1514350	4.28	29 1-	REC_50_UNK	0	0	1160	170	86	11 24	0.00	2.63	0	
1514351	OC198	4.54	29 1-	1/0 ACSR	0	0	1086	168	86	11 5	0.04	2.67	2	
1514403	1514402	4.30	597 3-	4/0 ACSR	1641	1492	1155	170	2642	122 36	0.07	2.70	132	
1514411	1514403	4.33	0 3-	4/0 ACSR	1635	1486	1149	170	0	0 0	0.00	2.70	0	
SW143-A	1514411	4.33	0 3-	Open	1635	1486	1149	170	0	0 0	0.00	2.70	0	
1514404	1514403	4.33	597 3-	4/0 ACSR	1634	1485	1149	170	2640	122 36	0.03	2.72	51	
1514407	1514404	4.48	387 3-	4/0 ACSR	1587	1441	1112	169	1815	84 25	0.13	2.85	162	
OC201	1514407	4.48	366 3-	REC_70_UNK	1587	1441	1112	169	1746	81 116	0.00	2.85	0	
1514408	OC201	4.57	366 3-	4/0 ACSR	1561	1417	1092	169	1746	81 24	0.07	2.93	89	
1514586	1514408	5.18	48 1-	1/0 ACSR	0	0	949	166	166	23 10	0.16	3.09	14	
1514409	1514408	4.96	308 3-	336.4 ACSR	1476	1337	1024	168	1550	72 14	0.17	3.10	155	
1514410	1514409	5.30	111 3-	336.4 ACSR	1407	1275	971	167	625	29 5	0.06	3.15	19	
1514372	1514410	5.54	53 2-	1/0 ACSR	0	1214	924	166	346	24 11	0.09	3.25	22	
1514349	1514372	5.67	35 1-	1/0 ACSR	0	0	900	165	216	30 13	0.05	3.29	5	
1514371	1514409	5.11	97 2-	336.4 ACSR	0	1305	1001	168	494	34 7	0.03	3.12	6	
1514345	1514371	5.36	19 1-	1/0 ACSR	0	0	949	166	91	12 6	0.04	3.16	2	
1514405	1514404	4.46	210 3-	1/0 ACSR	1582	1435	1111	169	825	38 17	0.09	2.81	60	
1514602	1514405	4.67	38 1-	1/0 ACSR	0	0	1057	168	179	24 11	0.06	2.87	5	
1514406	1514405	4.64	165 3-	1/0 ACSR	1518	1381	1065	168	625	29 13	0.08	2.90	39	
1514585	1514406	4.92	53 1-	1/0 ACSR	0	0	998	167	239	33 14	0.11	3.00	13	
1514369	1514406	4.69	88 2-	1/0 ACSR	0	1366	1053	168	262	18 8	0.02	2.91	4	
1514615	1514369	5.04	42 1-	1/0 URD PRI AL	0	0	981	374	131	18 11	0.10	3.01	8	
SW218-B	1514615	5.04	0 1-	Open	0	0	981	374	0	0 0	0.00	3.01	0	
1514370	1514369	4.71	46 2-	1/0 ACSR	0	1358	1046	168	131	9 4	0.00	2.92	0	
1514617	1514370	4.72	5 1-	1/0 URD PRI AL	0	0	1045	387	14	2 1	0.00	2.92	0	
SW218-A	1514617	4.72	0 1-	Open	0	0	1045	387	0	0 0	0.00	2.92	0	
1514393	1514392	3.99	34 3-	4/0 ACSR	1750	1594	1241	171	302	13 4	0.01	2.08	1	
1514600	1514393	4.03	22 1-	1/0 ACSR	0	0	1228	170	192	26 12	0.02	2.11	3	
OC194	1514600	4.03	22 1-	REC_35_UNK	0	0	1228	170	192	26 76	0.00	2.11	0	
1514601	OC194	4.29	22 1-	1/0 ACSR	0	0	1147	169	192	26 12	0.08	2.19	8	
1514394	1514393	4.04	12 3-	336.4 ACSR	1734	1579	1227	171	110	5 1	0.00	2.09	0	
1514343	1514394	4.09	9 1-	1/0 ACSR	0	0	1210	170	72	9 4	0.01	2.10	0	
OC1985613253	1514343	4.09	9 1-	35-L	0	0	1210	170	72	9 29	0.00	2.10	0	
1514344	OC1985613253	4.35	9 1-	1/0 ACSR	0	0	1132	169	72	9 4	0.03	2.13	0	
1514625	1514390	3.56	2 1-	1/0 URD PRI AL	0	0	1353	400	0	0 0	0.00	6.27	0	
1514348	1514388	2.85	2 1-	4 ACSR	0	0	1610	173	25	3 3	0.01	5.96	0	
CKT 104 total losses:	\$35,320													
SUB	2, CKT 114													
HLWY_114	HOLLOWAY	0.00	309 3-	SBS_99_UNK	5447	5663	5740	180	2329	106 0	0.00	0.00	0	
1514381	HLWY_114	0.26	309 3-	336.4 ACSR	4837	4821	4751	179	2329	106 20	0.20	0.20	289	
1514382	1514381	2.12	309 3-	4/0 ACSR	2366	2193	1793	174	2327	106 31	2.02	2.22	3107	
1513079	1514382	2.15	286 3-	4/0 ACSR	2342	2170	1771	173	2134	99 29	0.04	2.26	55	
OC865071513	1513079	2.15	286 3-	_DefaultBayEqui	2342	2170	1771	173	2133	99 0	0.00	2.26	0	
1513080	OC865071513	3.53	286 3-	4/0 ACSR	1687	1538	1207	169	2133	99 29	1.42	3.68	2096	
SW100979-B	1513080	3.53	280 3-	Closed	1687	1538	1207	169	2095	98 0	0.00	3.68	0	
SW100979-A	SW100979-B	3.53	280 3-	Closed	1687	1538	1207	169	2095	98 0	0.00	3.68	0	
1513081	SW100979-A	3.57	280 3-	4/0 ACSR	1674	1525	1197	169	2095	98 29	0.04	3.72	58	

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1513083	1513081	3.60	279 3-	4/0 ACSR	1664	1516	1189	169	2085	97	29	0.03	3.75	44
SW100985-B	1513083	3.60	279 3-	Closed	1664	1516	1189	169	2084	97	0	0.00	3.75	0
SW100985-A	SW100985-B	3.60	279 3-	Closed	1664	1516	1189	169	2084	97	0	0.00	3.75	0
1513084	SW100985-A	3.81	279 3-	4/0 ACSR	1597	1453	1135	168	2084	97	29	0.21	3.96	306
1513095	1513084	3.99	108 3-	1/0 ACSR	1529	1392	1085	167	912	42	19	0.14	4.09	101
OC101042	1513095	3.99	106 3-	REC_70_UNK	1529	1392	1085	167	885	41	59	0.00	4.09	0
1513096	OC101042	4.32	106 3-	1/0 ACSR	1416	1294	1003	166	885	41	18	0.24	4.34	176
1513119	1513096	4.33	3 1-	6 ACWC	0	0	1001	166	11	1	1	0.00	4.34	0
OC101043	1513119	4.33	3 1-	REC_25_UNK	0	0	1001	166	11	1	6	0.00	4.34	0
1513122	OC101043	4.80	3 1-	6 ACWC	0	0	864	161	11	1	1	0.02	4.35	0
1513123	1513122	4.93	0 1-	4 ACSR	0	0	832	160	0	0	0	0.00	4.35	0
1513097	1513096	5.35	101 3-	1/0 ACSR	1150	1060	812	161	855	40	18	0.42	4.76	215
1513098	1513097	5.85	19 3-	1/0 ACSR	1051	972	742	159	119	5	2	0.03	4.79	2
SW100988-B	1513098	5.85	0 3-	Open	1051	972	742	159	0	0	0	0.00	4.79	0
1513132	1513097	5.89	1 1-	1/0 URD PRI AL	0	0	741	332	15	2	1	0.02	4.78	0
1513085	1513084	4.81	170 3-	1/0 ACSR	1275	1171	901	163	1163	54	24	0.94	4.90	871
OC101049	1513085	4.81	150 3-	REC_70_UNK	1275	1171	901	163	1056	50	71	0.00	4.90	0
1513090	OC101049	4.91	150 3-	1/0 ACSR	1252	1150	884	163	1056	50	22	0.08	4.98	72
1513093	1513090	6.16	87 3-	1/0 ACSR	998	925	704	157	591	27	12	0.57	5.55	263
1513127	1513093	6.18	30 1-	4 ACSR	0	0	702	157	190	27	19	0.02	5.57	3
OC101046	1513127	6.18	29 1-	REC_50_UNK	0	0	702	157	181	25	52	0.00	5.57	0
1513128	OC101046	6.98	29 1-	4 ACSR	0	0	585	150	181	25	18	0.68	6.25	89
1513129	1513128	7.09	14 1-	2 ACSR	0	0	575	149	77	11	6	0.04	6.29	3
SW992509014-B	1513129	7.09	13 1-	Closed	0	0	575	149	77	11	0	0.00	6.29	0
SW992509014-A	SW992509014-B	7.09	13 1-	Closed	0	0	575	149	77	11	0	0.00	6.29	0
1513130	SW992509014-A	7.13	13 1-	2 ACSR	0	0	571	149	77	11	6	0.01	6.30	0
1513094	1513093	6.69	41 3-	1/0 ACSR	919	854	649	155	296	14	6	0.09	5.64	19
1513115	1513094	6.69	1 1-	4 ACSR	0	0	648	155	0	0	0	0.00	5.64	0
1513116	1513094	6.75	16 1-	2 ACSR	0	0	642	154	128	18	10	0.03	5.68	3
1513113	1513116	6.76	15 1-	4 ACSR	0	0	640	154	119	16	12	0.01	5.69	0
1513114	1513113	7.12	13 1-	2 ACSR	0	0	601	152	100	14	8	0.08	5.77	5
SW100989-B	1513114	7.12	0 1-	Open	0	0	601	152	0	0	0	0.00	5.77	0
1513091	1513090	5.02	63 3-	1/0 ACSR	1223	1125	864	162	465	22	10	0.05	5.03	18
1513068	1513091	5.10	61 1-	1/0 ACSR	0	0	851	162	463	65	29	0.11	5.14	40
OC101044	1513068	5.10	60 1-	REC_50_UNK	0	0	851	162	453	64	129	0.00	5.14	0
1513069	OC101044	6.85	60 1-	1/0 ACSR	0	0	633	154	453	64	28	1.84	6.98	529
1513073	1513069	7.47	14 1-	2 ACSR	0	0	571	150	102	14	8	0.15	7.12	9
1513070	1513069	6.89	10 1-	1/0 ACSR	0	0	629	154	87	12	5	0.01	6.99	0
OC101045	1513070	6.89	10 1-	REC_25_UNK	0	0	629	154	87	12	50	0.00	6.99	0
1513071	OC101045	7.19	10 1-	1/0 ACSR	0	0	603	153	87	12	5	0.06	7.05	3
1513072	1513071	7.51	3 1-	4 ACSR	0	0	564	150	29	4	3	0.03	7.08	0
1513092	1513091	5.29	1 3-	1/0 ACSR	1162	1070	820	161	0	0	0	0.00	5.03	0
SW100140-A	1513092	5.29	0 3-	Open	1162	1070	820	161	0	0	0	0.00	5.03	0
1513082	1513081	3.62	0 3-	4/0 ACSR	1658	1510	1184	169	0	0	0	0.00	3.72	0
SW100982-A	1513082	3.62	0 3-	Open	1658	1510	1184	169	0	0	0	0.00	3.72	0
1513126	1514382	2.17	1 1-	2 ACSR	0	0	1750	173	0	0	0	0.00	2.22	0

CKT 114 total losses: \$8,376

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS	
SUB	2, CKT 124														
	HLWY_124	HOLLOWAY	0.00	301 3-	SBS_99_UNK	5447	5663	5740	180	2073	94	0	0.00	0.00	0
	1514417	HLWY_124	0.67	301 3-	336.4 ACSR	4105	3982	3663	178	2073	94	18	0.45	0.45	574
	1514418	1514417	0.74	295 3-	4/0 ACSR	3971	3839	3493	178	2026	92	27	0.07	0.52	97
	1514395	1514418	0.82	293 3-	336.4 ACSR	3855	3712	3347	178	2004	91	17	0.05	0.58	68
	1514346	1514395	0.90	1 1-	4 ACSR	0	0	3132	177	0	0	0	0.00	0.58	0
	1514616	1514346	1.04	0 1-	1/0 URD PRI AL	0	0	2911	450	0	0	0	0.00	0.58	0
	OC-597387231	1514616	1.04	0 1-	_DefaultBayEqui	0	0	2911	450	0	0	0	0.00	0.58	0
	1514618	OC-597387231	1.32	0 1-	1/0 URD PRI AL	0	0	2496	436	0	0	0	0.00	0.58	0
	SW-1898968368-A	1514618	1.32	0 1-	Open	0	0	2496	436	0	0	0	0.00	0.58	0
	1414496	1514395	1.97	291 3-	336.4 ACSR	2736	2549	2115	176	1994	91	17	0.73	1.31	896
	1413064	1414496	2.10	282 3-	4/0 ACSR	2624	2439	2009	175	1893	87	26	0.12	1.43	157
	SW101056-B	1413064	2.10	280 3-	Closed	2624	2439	2009	175	1885	86	0	0.00	1.43	0
	SW101056-A	SW101056-B	2.10	280 3-	Closed	2624	2439	2009	175	1885	86	0	0.00	1.43	0
	1413065	SW101056-A	2.35	280 3-	4/0 ACSR	2435	2253	1834	174	1885	86	26	0.23	1.66	290
	OC101105	1413065	2.35	275 3-	REC_70_UNK	2435	2253	1834	174	1832	84	121	0.00	1.66	0
	1513135	OC101105	3.00	275 3-	4/0 ACSR	2049	1881	1495	172	1832	84	25	0.53	2.19	641
	1513086	1513135	3.04	234 3-	2 ACSR	2019	1850	1472	172	1562	72	40	0.08	2.27	112
	SW101053-B	1513086	3.04	234 3-	Closed	2019	1850	1472	172	1561	72	0	0.00	2.27	0
	SW101053-A	SW101053-B	3.04	234 3-	Closed	2019	1850	1472	172	1561	72	0	0.00	2.27	0
	1513087	SW101053-A	4.33	234 3-	1/0 ACSR	1439	1327	1032	166	1561	72	31	1.43	3.70	1638
	1413067	1513087	5.32	104 3-	1/0 ACSR	1173	1089	837	161	804	37	16	0.61	4.31	381
	1513088	1413067	5.85	83 3-	1/0 ACSR	1063	990	758	159	630	29	13	0.28	4.59	141
	1513089	1513088	5.93	0 3-	1/0 ACSR	1050	979	749	158	0	0	0	0.00	4.59	0
	SW100988-A	1513089	5.93	0 3-	Open	1050	979	749	158	0	0	0	0.00	4.59	0
	1513075	1513088	5.88	43 1-	6 ACWC	0	0	754	158	346	48	35	0.05	4.64	16
	OC101101	1513075	5.88	43 1-	REC_35_UNK	0	0	754	158	345	48	140	0.00	4.64	0
	1513076	OC101101	6.23	43 1-	6 ACWC	0	0	690	155	345	48	35	0.65	5.29	179
	1513067	1513076	7.15	28 1-	4 ACSR	0	0	561	147	231	32	23	0.70	5.99	96
	1513124	1513088	5.86	34 1-	4 ACSR	0	0	757	159	253	35	26	0.01	4.60	2
	OC101100	1513124	5.86	34 1-	REC_50_UNK	0	0	757	159	253	35	72	0.00	4.60	0
	1513120	OC101100	6.56	34 1-	4 ACSR	0	0	637	152	253	35	26	0.85	5.44	156
	1513117	1513120	6.74	13 1-	4 ACSR	0	0	611	151	76	10	8	0.05	5.49	2
	1513118	1513117	6.75	0 1-	2 ACSR	0	0	611	151	0	0	0	0.00	5.49	0
	SW100989-A	1513118	6.75	0 1-	Open	0	0	611	151	0	0	0	0.00	5.49	0
	1513121	1513120	6.92	4 1-	4 ACSR	0	0	588	149	41	5	4	0.05	5.49	1
	1513074	1413067	5.75	7 1-	4 ACSR	0	0	743	157	51	7	5	0.07	4.38	2
	1413092	1513087	4.40	52 1-	4 ACSR	0	0	1008	165	309	43	31	0.14	3.84	37
	OC101102	1413092	4.40	52 1-	REC_35_UNK	0	0	1008	165	309	43	124	0.00	3.84	0
	1413093	OC101102	4.77	52 1-	4 ACSR	0	0	895	161	309	43	31	0.72	4.56	196
	1413096	1413093	4.89	2 1-	6 ACWC	0	0	863	160	2	0	0	0.00	4.56	0
	1413116	1413093	4.95	49 1-	1/0 URD PRI AL	0	0	865	349	297	42	25	0.22	4.78	58
	1413094	1413116	5.20	47 1-	1/0 ACSR	0	0	822	159	265	37	16	0.20	4.98	38
	1413095	1413094	6.04	37 1-	4 ACSR	0	0	658	152	211	29	21	0.57	5.56	72
	SW101050-A	1413095	6.04	0 1-	Closed	0	0	658	152	0	0	0	0.00	5.56	0
	SW101050-B	SW101050-A	6.04	0 1-	Closed	0	0	658	152	0	0	0	0.00	5.56	0
	1413063	1414496	2.01	0 3-	336.4 ACSR	2703	2516	2083	176	0	0	0	0.00	1.31	0
	SW101059-A	1413063	2.01	0 3-	Open	2703	2516	2083	176	0	0	0	0.00	1.31	0

CKT 124 total losses: \$5,850

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS	
SUB	2, CKT 134														
	HLWY_134	HOLLOWAY	0.00	273 3-	SBS_99_UNK	5447	5663	5740	180	2839	125	0	0.00	0.00	0
	1514397	HLWY_134	0.85	273 3-	336.4 ACSR	3848	3702	3336	178	2839	125	24	0.49	0.49	1181
	1414495	1514397	1.43	162 3-	336.4 ACSR	3181	3000	2569	177	2107	93	18	0.31	0.80	504
	1414251	1414495	1.83	147 3-	336.4 ACSR	2845	2658	2222	176	2072	92	17	0.21	1.01	327
	1414255	1414251	1.96	142 3-	336.4 ACSR	2756	2569	2133	176	2040	93	18	0.08	1.09	104
	1414354	1414255	2.62	7 1-	4 ACSR	0	0	1465	169	29	3	3	0.06	1.15	0
	1414256	1414255	2.05	133 3-	336.4 ACSR	2692	2506	2072	176	2010	92	17	0.06	1.15	75
	1414254	1414256	3.27	11 3-	336.4 ACSR	2057	1885	1492	173	60	2	1	0.01	1.16	0
	131353-A	1414254	3.27	0 3-	Open	2057	1885	1492	173	0	0	0	0.00	1.16	0
SW-168013	1414257	1414256	2.42	122 3-	336.4 ACSR	2463	2279	1854	175	1950	89	17	0.23	1.38	281
	1414417	1414257	2.42	2 3-	500 MCM URD PRI	2461	2278	1853	438	884	40	11	0.00	1.38	0
	SW120-B	1414417	2.42	2 3-	Closed	2461	2278	1853	438	884	40	0	0.00	1.38	0
	SW120-A	SW120-B	2.42	2 3-	Closed	2461	2278	1853	438	884	40	0	0.00	1.38	0
	1414418	SW120-A	2.43	2 3-	500 MCM URD PRI	2459	2276	1852	437	884	40	11	0.00	1.38	1
	SW6-B	1414418	2.43	2 3-	Closed	2459	2276	1852	437	884	40	0	0.00	1.38	0
	SW6-A	SW6-B	2.43	2 3-	Closed	2459	2276	1852	437	884	40	0	0.00	1.38	0
	1414397	SW6-A	2.46	2 3-	500 MCM URD PRI	2452	2269	1849	437	884	40	11	0.01	1.39	5
	1414400	1414397	2.47	2 3-	350 MCM URD PRI	2449	2267	1846	437	884	40	13	0.00	1.39	2
	1414401	1414400	2.48	1 3-	350 MCM URD PRI	2446	2265	1844	437	0	0	0	0.00	1.39	0
	1414402	1414401	2.48	1 3-	1/0 URD PRI AL	2445	2264	1844	437	0	0	0	0.00	1.39	0
	SW211-A	1414402	2.48	0 3-	Open	2445	2264	1844	437	0	0	0	0.00	1.39	0
	1414999	1414400	2.47	1 3-	Consumer	2449	2267	1846	437	884	40	0	0.00	1.39	0
	1414398	1414397	2.83	0 3-	1/0 URD PRI AL	2220	2056	1691	422	0	0	0	0.00	1.39	0
	SW211-B	1414398	2.83	0 3-	Open	2220	2056	1691	422	0	0	0	0.00	1.39	0
	1414258	1414257	2.46	116 3-	336.4 ACSR	2441	2257	1834	175	1008	46	9	0.01	1.39	8
	1414252	1414258	2.69	55 3-	336.4 ACSR	2317	2137	1722	174	368	16	3	0.03	1.42	6
	1414253	1414252	2.74	0 3-	336.4 ACSR	2290	2111	1697	174	0	0	0	0.00	1.42	0
	SW7-A	1414253	2.74	0 3-	Open	2290	2111	1697	174	0	0	0	0.00	1.42	0
	1414416	1414252	3.07	55 3-	1/0 URD PRI AL	2104	1940	1580	418	368	16	10	0.13	1.55	42
	1414483	1414416	3.55	27 1-	1/0 URD PRI AL	0	0	1370	397	192	26	16	0.20	1.75	23
	1414399	1414416	3.47	19 1-	1/0 URD PRI AL	0	0	1403	401	110	15	9	0.09	1.64	6
	1414442	1414416	3.61	8 1-	1/0 URD PRI AL	0	0	1344	395	48	6	4	0.06	1.61	2
	1414259	1414258	2.53	61 3-	336.4 ACSR	2398	2216	1795	175	641	29	6	0.02	1.41	7
	1414409	1414259	2.97	10 1-	1/0 URD PRI AL	0	0	1565	415	73	10	6	0.07	1.48	3
	SW213-A	1414409	2.97	0 1-	Open	0	0	1565	415	0	0	0	0.00	1.48	0
	1414260	1414259	2.61	51 3-	336.4 ACSR	2360	2178	1760	174	567	26	5	0.01	1.42	5
	1414404	1414260	3.09	23 1-	1/0 URD PRI AL	0	0	1519	412	264	36	21	0.27	1.70	43
	SW212-A	1414404	3.09	0 1-	Open	0	0	1519	412	0	0	0	0.00	1.70	0
	1414249	1414260	2.73	28 3-	336.4 ACSR	2299	2119	1705	174	304	13	3	0.01	1.43	2
	1414482	1414249	3.55	24 1-	1/0 URD PRI AL	0	0	1335	395	280	38	23	0.50	1.94	84
	1414362	1414255	1.96	2 2-	4 ACSR	0	2559	2126	176	0	0	0	0.00	1.09	0
	OC38	1414362	1.96	2 2-	_DefaultBayEqui	0	2559	2126	176	0	0	0	0.00	1.09	0
	1414363	OC38	2.08	2 2-	4 ACSR	0	2381	1985	174	0	0	0	0.00	1.09	0
	CA2	1414251	1.83	0 3-	Capacitor	2845	2658	2222	176	0	-14	0	0.00	1.01	0
	1414250	1414495	1.44	14 3-	1/0 ACSR	3169	2986	2557	177	30	1	1	0.00	1.80	0
	1414415	1414250	1.66	14 3-	1/0 URD PRI AL	2954	2790	2389	444	30	1	1	0.01	0.81	0
	1414481	1414415	2.34	3 1-	1/0 URD PRI AL	0	0	1791	412	21	2	2	0.03	0.84	0
	SW1481789196-A	1414481	2.34	0 1-	Open	0	0	1791	412	0	0	0	0.00	0.84	0
	1414413	1414415	1.93	11 2-	1/0 URD PRI AL	0	2557	2168	432	9	0	0	0.00	0.81	0
	1414403	1414413	2.35	3 1-	1/0 URD PRI AL	0	0	1817	413	2	0	0	0.00	0.82	0
SW-1898968368-B		1414403	2.35	0 1-	Open	0	0	1817	413	0	0	0	0.00	0.82	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES CONS	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1514419	1514397	0.98	69 3-	4/0 ACSR	3632	3474	3079	178	463	22	7	0.00	0.49	11
OC123	1514419	0.98	68 3-	70-L	3632	3474	3079	178	463	22	32	0.00	0.49	0
1514420	OC123	1.01	68 3-	4/0 ACSR	3586	3426	3026	178	463	22	7	0.00	0.50	2
1414494	1514420	2.01	13 1-	4 ACSR	0	0	1499	167	47	6	5	0.15	0.64	4
1514423	1514420	1.57	55 3-	4/0 ACSR	2910	2731	2300	176	416	20	6	0.00	0.50	37
1514587	1514423	2.00	10 2-	4 ACSR	0	2111	1752	171	14	0	1	0.01	0.51	0
1514606	1514587	2.39	5 1-	4 ACSR	0	0	1410	167	1	0	0	0.00	0.51	0
1514424	1514423	1.63	44 3-	4 ACSR	2815	2627	2218	175	390	20	14	0.03	0.53	18
1514421	1514424	1.75	43 3-	4/0 ACSR	2708	2520	2113	175	379	19	6	0.00	0.53	7
1514422	1514421	2.10	40 3-	4/0 ACSR	2429	2245	1848	174	368	16	5	0.04	0.57	8
1514380	1514422	3.23	12 3-	336.4 ACSR	1929	1761	1400	171	104	4	1	0.02	0.59	0
CA1	1514421	1.75	0 3-	Capacitor	2708	2520	2113	175	0	-14	0	0.00	0.53	0
CKT 134 total losses:	\$2,798													
SUB 2 total losses:	\$52,344													

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 3	WEST NICHOLASVI		3175		7503	7832	7947	180	24307					
SUB 3, CKT 104														
WNIC_104	WEST NICHOLASVI	0.00	55 3-	SBS_99_UNK	7503	7832	7947	180	5783	268	0	0.00	0.00	0
1514667	WNIC_104	0.01	55 3-	350 MCM URD PRI	7487	7797	7929	478	5783	268	84	0.01	0.01	61
1514466	1514667	0.01	55 3-	336.4 ACSR	7459	7751	7880	180	5782	268	51	0.01	0.02	39
SW100005-B	1514466	0.01	55 3-	Closed	7459	7751	7880	180	5782	268	0	0.00	0.02	0
SW100005-A	SW100005-B	0.01	55 3-	Closed	7459	7751	7880	180	5782	268	0	0.00	0.02	0
1514485	SW100005-A	0.32	55 3-	336.4 ACSR	6177	6095	5867	179	5782	268	51	0.63	0.66	2166
1514995	1514485	0.32	1 3-	Consumer	6177	6095	5867	179	1280	59	0	0.00	0.66	0
1514486	1514485	0.65	53 3-	336.4 ACSR	5224	5033	4615	179	4481	208	39	0.50	1.15	1300
1514467	1514486	0.66	0 3-	336.4 ACSR	5192	4997	4574	179	0	0	0	0.00	1.15	0
SW100422-B	1514467	0.66	0 3-	Open	5192	4997	4574	179	0	0	0	0.00	1.15	0
1514461	1514486	1.04	5 3-	336.4 ACSR	4387	4148	3654	178	3837	179	34	0.53	1.69	1226
SW100002-B	1514461	1.04	1 3-	Closed	4387	4148	3654	178	3805	178	0	0.00	1.69	0
SW100002-A	SW100002-B	1.04	1 3-	Closed	4387	4148	3654	178	3805	178	0	0.00	1.69	0
1514462	SW100002-A	1.07	1 3-	336.4 ACSR	4333	4093	3596	178	3805	178	34	0.04	1.73	94
1514669	1514462	1.12	1 3-	1/0 URD PRI AL	4250	4019	3529	461	3805	178	105	0.16	1.89	566
1514996	1514669	1.12	1 3-	Consumer	4250	4019	3529	461	3800	178	0	0.00	1.89	0
1514487	1514486	0.75	7 3-	1/0 ACSR	4854	4636	4186	178	363	16	7	0.03	1.19	9
1514488	1514487	0.82	2 3-	336.4 ACSR	4705	4478	4015	178	321	14	3	0.01	1.19	1
1514460	1514488	0.87	1 3-	1/0 ACSR	4556	4321	3854	178	315	14	6	0.01	1.21	3
1514668	1514460	0.89	1 3-	1/0 URD PRI AL	4529	4297	3831	462	315	14	9	0.00	1.21	0
1514997	1514668	0.89	1 3-	Consumer	4529	4297	3831	462	315	14	0	0.00	1.21	0
CKT 104 total losses:		\$5,465												
SUB 3, CKT 114														
WNIC_114	WEST NICHOLASVI	0.00	546 3-	SBS_99_UNK	7503	7832	7947	180	2810	130	0	0.00	0.00	0
1514501	WNIC_114	0.58	546 3-	336.4 ACSR	5392	5203	4725	179	2810	130	25	0.53	0.53	852
1514508	1514501	0.59	1 3-	1/0 ACSR	5331	5137	4653	179	496	23	10	0.01	0.54	3
1514990	1514508	0.59	1 3-	Consumer	5331	5137	4653	179	496	23	0	0.00	0.54	0
1514502	1514501	0.81	472 3-	336.4 ACSR	4832	4603	4049	178	1951	90	17	0.16	0.69	186
1514537	1514502	1.01	207 3-	336.4 ACSR	4432	4186	3602	178	673	31	6	0.05	0.74	18
1514443	1514537	1.10	8 3-	336.4 ACSR	4286	4036	3446	178	17	0	0	0.00	0.74	0
1514538	1514537	1.05	198 3-	336.4 ACSR	4366	4117	3530	178	601	27	5	0.01	0.75	3
OC100419	1514538	1.05	198 3-	REC_70_UNK	4366	4117	3530	178	601	27	40	0.00	0.75	0
1514539	OC100419	1.47	198 3-	336.4 ACSR	3723	3467	2873	177	601	27	5	0.08	0.82	25
SW100310-B	1514539	1.47	131 3-	Closed	3723	3467	2873	177	435	20	0	0.00	0.82	0
SW100310-A	SW100310-B	1.47	131 3-	Closed	3723	3467	2873	177	435	20	0	0.00	0.82	0
1514442	SW100310-A	1.78	131 3-	336.4 ACSR	3365	3113	2534	176	435	20	4	0.02	0.85	4
1514505	1514502	0.90	258 3-	4/0 ACSR	4601	4364	3792	178	1263	58	17	0.06	0.75	48
OC100416	1514505	0.90	257 3-	REC_100_UNK	4601	4364	3792	178	1263	58	59	0.00	0.75	0
1514506	OC100416	1.00	257 3-	4/0 ACSR	4366	4122	3538	178	1263	58	17	0.06	0.81	53
1514507	1514506	1.05	210 3-	4/0 ACSR	4270	4025	3438	178	962	44	13	0.02	0.83	14
1514531	1514507	1.10	180 3-	4/0 ACSR	4159	3912	3323	177	802	37	11	0.02	0.86	11
1514516	1514531	1.22	171 3-	4/0 ACSR	3932	3683	3094	177	752	34	10	0.04	0.90	22
1514536	1514516	1.47	71 3-	1/0 ACSR	3436	3179	2645	176	256	11	5	0.03	0.93	4
1514517	1514516	1.25	94 3-	4/0 ACSR	3873	3624	3035	177	474	22	6	0.01	0.91	3
SW100307-B	1514517	1.25	94 3-	Closed	3873	3624	3035	177	474	22	0	0.00	0.91	0
SW100307-A	SW100307-B	1.25	94 3-	Closed	3873	3624	3035	177	474	22	0	0.00	0.91	0
1514534	SW100307-A	1.44	94 3-	4/0 ACSR	3562	3314	2735	176	474	22	6	0.04	0.95	10
1514535	1514534	1.55	56 3-	1/0 ACSR	3383	3133	2579	176	296	13	6	0.02	0.96	3
1514358	1514535	1.76	26 1-	1/0 ACSR	0	0	2296	175	121	16	7	0.04	1.01	3

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Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1514533	1514531	1.66	8 3-	4/0 ACSR	3261	3018	2457	176	30	1	0	0.00	0.86	0
SW151-B	1514533	1.66	0 3-	Open	3261	3018	2457	176	0	0	0	0.00	0.86	0
1514532	1514531	1.13	0 3-	4/0 ACSR	4097	3849	3260	177	0	0	0	0.00	0.86	0
SW100250-A	1514532	1.13	0 3-	Open	4097	3849	3260	177	0	0	0	0.00	0.86	0
1514643	1514507	1.18	16 1-	1/0 URD PRI AL	0	0	3179	453	78	10	6	0.03	0.86	1
1514681	1514643	1.27	4 1-	1/0 URD PRI AL	0	0	3009	448	15	2	1	0.00	0.87	0
SW-406862464-A	1514681	1.27	0 1-	Open	0	0	3009	448	0	0	0	0.00	0.87	0
1514680	1514643	1.19	0 1-	1/0 URD PRI AL	0	0	3168	453	0	0	0	0.00	0.86	0
SW100446-A	1514680	1.19	0 1-	Open	0	0	3168	453	0	0	0	0.00	0.86	0
1514642	1514507	1.29	14 1-	1/0 URD PRI AL	0	0	2984	448	81	11	7	0.04	0.88	2
SW100446-B	1514642	1.29	0 1-	Open	0	0	2984	448	0	0	0	0.00	0.88	0
1514650	1514506	1.87	45 1-	1/0 URD PRI AL	0	0	2160	419	266	37	22	0.51	1.32	81
SW443902270-A	1514650	1.87	0 1-	Closed	0	0	2160	419	0	0	0	0.00	1.32	0
SW443902270-B	SW443902270-A	1.87	0 1-	Closed	0	0	2160	419	0	0	0	0.00	1.32	0
1514504	1514502	0.96	7 3-	4/0 ACSR	4459	4218	3638	178	14	0	0	0.00	0.69	0
SW100413-A	1514504	0.96	0 3-	Open	4459	4218	3638	178	0	0	0	0.00	0.69	0
CKT 114 total losses:		\$1,346												
SUB 3, CKT 124														
WNIC_124	WEST NICHOLASVI	0.00	409 3-	SBS_99_UNK	7503	7832	7947	180	2654	120	0	0.00	0.00	0
1514459	WNIC_124	0.99	409 3-	336.4 ACSR	4481	4236	3656	178	2654	120	23	0.79	0.79	1313
1614300	1514459	1.48	397 3-	336.4 ACSR	3709	3453	2860	177	2482	112	21	0.38	1.17	617
SW100024-B	1614300	1.48	396 3-	Closed	3709	3453	2860	177	2475	112	0	0.00	1.17	0
SW100024-A	SW100024-B	1.48	396 3-	Closed	3709	3453	2860	177	2475	112	0	0.00	1.17	0
1614220	SW100024-A	2.55	396 3-	336.4 ACSR	2702	2472	1947	175	2475	112	21	0.81	1.98	1322
1614221	1614220	2.74	396 3-	4/0 ACSR	2553	2331	1825	174	2463	112	33	0.20	2.18	358
SW100037-B	1614221	2.74	396 3-	Closed	2553	2331	1825	174	2460	112	0	0.00	2.18	0
SW100037-A	SW100037-B	2.74	396 3-	Closed	2553	2331	1825	174	2460	112	0	0.00	2.18	0
1614222	SW100037-A	3.87	396 3-	4/0 ACSR	1897	1720	1310	171	2460	112	33	1.22	3.40	2148
1614223	1614222	3.92	386 3-	4/0 ACSR	1876	1701	1294	170	2332	111	33	0.06	3.46	96
1614219	1614223	4.14	4 3-	1/0 ACSR	1761	1602	1215	169	447	21	9	0.09	3.55	31
1614283	1614219	4.19	1 3-	1/0 URD PRI AL	1743	1587	1204	397	442	21	12	0.02	3.57	9
1614994	1614283	4.19	1 3-	Consumer	1743	1587	1204	397	442	21	0	0.00	3.57	0
1614224	1614223	4.66	381 3-	4/0 ACSR	1607	1457	1094	168	1880	89	26	0.71	4.17	894
1614225	1614224	5.05	361 3-	4/0 ACSR	1491	1353	1010	167	1790	85	25	0.37	4.55	453
SW100030-B	1614225	5.05	358 3-	Closed	1491	1353	1010	167	1777	85	0	0.00	4.55	0
SW100030-A	SW100030-B	5.05	358 3-	Closed	1491	1353	1010	167	1777	85	0	0.00	4.55	0
1614184	SW100030-A	5.11	358 3-	4/0 ACSR	1476	1339	998	167	1777	85	25	0.06	4.60	67
1614227	1614184	5.37	203 3-	1/0 ACSR	1393	1268	943	165	1004	48	21	0.23	4.83	181
OC100109	1614227	5.37	195 3-	REC_70_UNK	1393	1268	943	165	956	46	66	0.00	4.83	0
1613081	OC100109	8.31	195 3-	1/0 ACSR	839	780	577	152	956	46	20	2.12	6.95	1498
1613069	1613081	8.43	58 1-	1/0 ACSR	0	0	567	151	230	33	15	0.10	7.05	18
OC100110	1613069	8.43	58 1-	35-H	0	0	567	151	230	33	96	0.00	7.05	0
1613070	OC100110	9.76	58 1-	1/0 ACSR	0	0	483	146	230	33	15	0.77	7.82	113
1713015	1613070	10.09	26 1-	1/0 ACSR	0	0	466	144	94	13	6	0.08	7.90	5
1713016	1713015	10.10	16 1-	4 ACSR	0	0	465	144	49	7	5	0.00	7.90	0
OC100111	1713016	10.10	16 1-	REC_25_UNK	0	0	465	144	49	7	29	0.00	7.90	0
1713011	OC100111	10.10	16 1-	4 ACSR	0	0	464	144	49	7	5	0.00	7.91	0
1713012	1713011	10.90	16 1-	6 ACWC	0	0	411	138	49	7	5	0.16	8.06	5
1713013	1713012	10.97	2 1-	2 ACSR	0	0	407	138	8	1	1	0.00	8.07	0
1713017	1713013	11.40	2 1-	4 ACSR	0	0	383	135	8	1	1	0.01	8.08	0
1613082	1613070	10.36	6 1-	4 ACSR	0	0	438	141	10	1	1	0.02	7.84	0

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1613044	1613081	8.48	73 3-	1/0 ACSR	820	763	564	151	440	21	9	0.07	7.02	24
1613053	1613044	8.54	73 1-	1/0 ACSR	0	0	560	151	440	64	28	0.09	7.11	31
RG100000	1613053	8.54	73 1-	50	0	0	560	151	440	64	129	-7.11	0.00	0
1613049	RG100000	8.59	4 1-	1/0 ACSR	0	0	556	151	9	1	1	0.00	0.00	0
1613054	RG100000	8.98	69 1-	1/0 ACSR	0	0	530	149	431	59	26	0.55	0.55	162
1613056	1613054	8.98	27 1-	1/0 ACSR	0	0	529	149	193	26	12	0.00	0.56	0
OC100112	1613056	8.98	27 1-	35-H	0	0	529	149	193	26	77	0.00	0.56	0
1613047	OC100112	9.13	27 1-	1/0 ACSR	0	0	519	148	193	26	12	0.09	0.65	12
1613072	1613047	9.16	24 1-	1/0 URD PRI AL	0	0	518	287	167	23	14	0.02	0.66	2
1613048	1613072	10.18	24 1-	1/0 ACSR	0	0	461	144	167	23	10	0.28	0.94	23
1613050	1613054	8.98	28 1-	1/0 ACSR	0	0	529	149	141	19	9	0.00	0.56	0
OC100113	1613050	8.98	28 1-	35-H	0	0	529	149	141	19	56	0.00	0.56	0
1613051	OC100113	9.13	28 1-	1/0 ACSR	0	0	520	148	141	19	9	0.06	0.62	6
SW100034-B	1613051	9.13	22 1-	Closed	0	0	520	148	107	14	0	0.00	0.62	0
SW100034-A	SW100034-B	9.13	22 1-	Closed	0	0	520	148	107	14	0	0.00	0.62	0
1613052	SW100034-A	9.95	22 1-	1/0 ACSR	0	0	473	145	107	14	6	0.17	0.78	9
1613055	1613052	10.23	3 1-	2 ACSR	0	0	456	143	16	2	1	0.01	0.79	0
1614185	1614184	5.39	155 3-	4/0 ACSR	1406	1276	948	166	773	37	11	0.11	4.71	59
OC100103	1614185	5.39	154 3-	REC_70_UNK	1406	1276	948	166	772	37	53	0.00	4.71	0
1614186	OC100103	5.53	154 3-	4/0 ACSR	1372	1246	924	165	772	37	11	0.06	4.77	31
1614187	1614186	5.56	152 3-	4/0 ACSR	1367	1241	920	165	768	36	11	0.01	4.78	5
OC1554249101	1614187	5.56	152 3-	_DefaultBayEqui	1367	1241	920	165	768	36	0	0.00	4.78	0
1614179	OC1554249101	5.59	118 3-	1/0 ACSR	1356	1231	913	165	646	31	14	0.02	4.80	11
SW100033-B	1614179	5.59	118 3-	Closed	1356	1231	913	165	646	31	0	0.00	4.80	0
SW100033-A	SW100033-B	5.59	118 3-	Closed	1356	1231	913	165	646	31	0	0.00	4.80	0
1614226	SW100033-A	6.54	118 3-	1/0 ACSR	1129	1034	764	160	646	31	14	0.48	5.28	237
1613045	1614226	6.81	69 2-	1/0 ACSR	0	985	729	159	432	31	14	0.18	5.46	61
1613046	1613045	6.86	25 2-	1/0 ACSR	0	977	723	159	172	12	5	0.01	5.48	2
1613065	1613046	6.91	24 1-	2 ACSR	0	0	715	159	169	24	14	0.04	5.52	6
OC100104	1613065	6.91	24 1-	REC_35_UNK	0	0	715	159	169	24	70	0.00	5.52	0
1613066	OC100104	7.15	24 1-	2 ACSR	0	0	684	157	169	24	14	0.12	5.64	13
1613067	1613066	7.24	6 1-	4 ACSR	0	0	670	156	44	6	5	0.03	5.67	0
1613068	1613067	7.30	6 1-	2 ACSR	0	0	663	156	44	6	4	0.01	5.68	0
1613071	1613068	7.30	4 1-	1/0 URD PRI AL	0	0	663	322	30	4	3	0.00	5.68	0
1613039	1613045	6.86	42 1-	4 ACSR	0	0	720	159	257	37	27	0.09	5.55	20
OC100105	1613039	6.86	42 1-	REC_35_UNK	0	0	720	159	257	37	106	0.00	5.55	0
1613040	OC100105	7.88	42 1-	4 ACSR	0	0	574	150	257	37	27	1.06	6.62	180
1613041	1613040	8.03	9 1-	1/0 ACSR	0	0	562	149	52	7	3	0.02	6.63	0
1713010	1613041	8.13	2 1-	2 ACSR	0	0	553	148	6	0	1	0.00	6.63	0
1713018	1713010	8.30	1 1-	1/0 URD PRI AL	0	0	541	287	6	0	1	0.00	6.64	0
1613060	1614226	6.63	21 1-	4 ACSR	0	0	746	160	81	11	8	0.05	5.33	3
OC100106	1613060	6.63	19 1-	REC_25_UNK	0	0	746	160	72	10	42	0.00	5.33	0
1613061	OC100106	6.79	19 1-	4 ACSR	0	0	718	158	72	10	7	0.07	5.41	5
1613062	1613061	6.95	17 1-	6 ACWC	0	0	690	157	71	10	7	0.08	5.49	5
1613064	1613062	7.58	15 1-	6 ACWC	0	0	600	151	63	9	7	0.13	5.62	5
1613063	1613062	7.71	2 1-	4 ACSR	0	0	583	150	8	1	1	0.02	5.51	0
1614188	OC1554249101	6.83	34 3-	4/0 ACSR	1129	1025	752	161	122	5	2	0.04	4.82	2
SW1000494-A	1614188	6.83	0 3-	Open	1129	1025	752	161	0	0	0	0.00	4.82	0
1614146	1614186	5.57	1 1-	2 ACSR	0	0	917	165	0	0	0	0.00	4.77	0
1614263	1614224	4.66	1 1-	4 ACSR	0	0	1091	168	1	0	0	0.00	4.17	0
OC100100	1614263	4.66	1 1-	REC_15_UNK	0	0	1091	168	1	0	1	0.00	4.17	0
1614264	OC100100	4.90	1 1-	4 ACSR	0	0	1007	165	1	0	0	0.00	4.17	0

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
CA100002	1614222	3.87	0 3-	Capacitor	1897	1720	1310	171	0	-14	0	0.00	3.40	0
1514548	1514459	1.05	0 3-	336.4 ACSR	4374	4125	3539	178	0	0	0.00	0.79	0	0
SW100021-A	1514548	1.05	0 3-	Open	4374	4125	3539	178	0	0	0.00	0.79	0	0
CKT 124 total losses: \$10,042														
SUB 3, CKT 134														
WNIC_134	WEST NICHOLASVI	0.00	560 3-	SBS_99_UNK	7503	7832	7947	180	3319	153	0	0.00	0.00	0
1514523	WNIC_134	0.16	560 3-	336.4 ACSR	6781	6787	6705	180	3319	153	29	0.19	0.19	366
1514524	1514523	0.40	560 3-	4/0 ACSR	5727	5596	5180	179	3316	153	45	0.39	0.58	830
1514662	1514524	0.83	42 1-	1/0 URD PRI AL	0	0	3635	448	227	31	19	0.22	0.79	29
SW100435-A	1514662	0.83	0 1-	Open	0	0	3635	448	0	0	0	0.00	0.79	0
1514525	1514524	0.49	462 3-	4/0 ACSR	5412	5250	4773	179	2807	130	38	0.13	0.70	234
1514670	1514525	0.79	29 2-	1/0 URD PRI AL	0	4501	3935	454	155	10	6	0.08	0.78	11
1514472	1514670	0.94	25 2-	1/0 ACSR	0	3990	3442	176	144	10	4	0.03	0.80	2
1514580	1514472	0.99	4 2-	1/0 ACSR	0	3833	3293	175	23	1	1	0.00	0.80	0
1514581	1514580	1.01	3 2-	4/0 ACSR	0	3788	3250	175	16	1	0	0.00	0.80	0
SW100253-B	1514581	1.01	3 2-	Closed	0	3788	3250	175	16	1	0	0.00	0.80	0
SW100253-A	SW100253-B	1.01	3 2-	Closed	0	3788	3250	175	16	1	0	0.00	0.80	0
1514583	SW100253-A	1.03	1 2-	1/0 ACSR	0	3743	3208	175	1	0	0	0.00	0.80	0
1514582	SW100253-A	1.04	2 2-	2 ACSR	0	3693	3168	175	15	1	1	0.00	0.80	0
1514661	1514472	1.11	10 1-	1/0 URD PRI AL	0	0	3046	440	59	8	5	0.02	0.83	0
SW100434-A	1514661	1.11	0 1-	Open	0	0	3046	440	0	0	0	0.00	0.83	0
1514674	1514525	0.79	26 1-	1/0 URD PRI AL	0	0	3779	452	192	26	16	0.16	0.86	20
1514676	1514674	0.85	0 1-	1/0 URD PRI AL	0	0	3600	449	0	0	0	0.00	0.86	0
SW100438-B	1514676	0.85	0 1-	Open	0	0	3600	449	0	0	0	0.00	0.86	0
1514675	1514674	0.95	6 1-	1/0 URD PRI AL	0	0	3356	444	47	6	4	0.02	0.87	0
SW100439-A	1514675	0.95	0 1-	Open	0	0	3356	444	0	0	0	0.00	0.87	0
1514526	1514525	0.61	402 3-	4/0 ACSR	5030	4837	4307	178	2429	112	33	0.15	0.85	240
1514475	1514526	0.69	120 3-	4/0 ACSR	4809	4601	4050	178	634	29	9	0.03	0.88	11
1514638	1514475	0.89	8 1-	1/0 URD PRI AL	0	0	3544	453	31	4	3	0.01	0.89	0
SW100442-A	1514638	0.89	0 1-	Open	0	0	3544	453	0	0	0	0.00	0.89	0
1514476	1514475	0.84	112 3-	4/0 ACSR	4432	4206	3631	177	602	28	8	0.05	0.92	18
1514637	1514476	0.88	5 1-	1/0 URD PRI AL	0	0	3556	458	23	3	2	0.00	0.92	0
SW100442-B	1514637	0.88	0 1-	Open	0	0	3556	458	0	0	0	0.00	0.92	0
1514546	1514476	0.90	102 3-	4/0 ACSR	4297	4066	3487	177	559	26	8	0.02	0.94	6
1514547	1514546	1.02	91 3-	4/0 ACSR	4056	3819	3236	177	518	24	7	0.03	0.97	10
1514477	1514547	1.21	75 3-	4/0 ACSR	3718	3477	2899	176	454	21	6	0.04	1.01	12
1514458	1514477	1.22	52 3-	1/0 ACSR	3710	3468	2892	176	371	17	8	0.00	1.01	0
1514636	1514458	1.28	3 1-	1/0 URD PRI AL	0	0	2794	448	17	2	1	0.00	1.01	0
SW100443-A	1514636	1.28	0 1-	Open	0	0	2794	448	0	0	0	0.00	1.01	0
1514635	1514458	1.96	45 1-	1/0 URD PRI AL	0	0	1991	416	330	46	27	0.55	1.56	107
SW100443-B	1514635	1.96	0 1-	Open	0	0	1991	416	0	0	0	0.00	1.56	0
1514673	1514458	1.27	4 1-	1/0 URD PRI AL	0	0	2812	449	24	3	2	0.00	1.01	0
SW-406862464-B	1514673	1.27	0 1-	Open	0	0	2812	449	0	0	0	0.00	1.01	0
1514478	1514477	1.35	12 3-	4/0 ACSR	3502	3262	2693	176	44	2	1	0.00	1.01	0
SW100250-B	1514478	1.35	0 3-	Open	3502	3262	2693	176	0	0	0	0.00	1.01	0
1514599	1514547	1.03	13 1-	1/0 ACSR	0	0	3215	177	51	7	3	0.00	0.97	0
1514660	1514599	1.17	13 1-	1/0 URD PRI AL	0	0	2966	448	51	7	4	0.02	0.99	0
SW100445-B	1514660	1.17	0 1-	Open	0	0	2966	448	0	0	0	0.00	0.99	0
1514598	1514546	0.97	6 1-	1/0 ACSR	0	0	3324	177	22	3	1	0.00	0.94	0
1514659	1514598	0.98	2 1-	1/0 URD PRI AL	0	0	3311	456	7	1	1	0.00	0.94	0
SW100445-A	1514659	0.98	0 1-	Open	0	0	3311	456	0	0	0	0.00	0.94	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1514658	1514598	0.99	2 1-	1/0 URD PRI AL	0	0	3280	455	6	0	1	0.00	0.94	0
SW100444-A	1514658	0.99	0 1-	Open	0	0	3280	455	0	0	0	0.00	0.94	0
1514431	1514526	0.68	277 3-	4/0 ACSR	4843	4638	4089	178	1763	82	24	0.06	0.91	69
1514672	1514431	0.69	2 1-	1/0 URD PRI AL	0	0	4071	464	15	2	1	0.00	0.91	0
SW100438-A	1514672	0.69	0 1-	Open	0	0	4071	464	0	0	0	0.00	0.91	0
1514432	1514431	0.72	272 3-	4/0 ACSR	4736	4524	3966	178	1730	80	24	0.04	0.94	41
1514434	1514432	0.77	258 3-	4/0 ACSR	4616	4398	3833	178	1662	77	23	0.04	0.98	43
1514439	1514434	0.85	184 3-	4/0 ACSR	4421	4195	3619	177	1339	62	18	0.06	1.04	49
SW100247-B	1514439	0.85	182 3-	Closed	4421	4195	3619	177	1324	61	0	0.00	1.04	0
SW100247-A	SW100247-B	0.85	182 3-	Closed	4421	4195	3619	177	1324	61	0	0.00	1.04	0
1514436	SW100247-A	0.93	182 3-	4/0 ACSR	4244	4012	3431	177	1324	61	18	0.05	1.09	44
1514484	1514436	0.97	86 3-	1/0 ACSR	4131	3893	3320	177	713	33	14	0.03	1.12	15
OC100304	1514484	0.97	86 3-	REC_70_UNK	4131	3893	3320	177	713	33	47	0.00	1.12	0
1514514	OC100304	1.03	86 3-	1/0 ACSR	3996	3753	3190	177	713	33	14	0.03	1.15	19
1514515	1514514	1.56	83 3-	1/0 ACSR	3031	2797	2322	174	692	32	14	0.26	1.41	124
1514584	1514515	2.70	58 2-	1/0 ACSR	0	1783	1438	169	448	31	14	0.38	1.79	87
1514671	1514514	1.07	2 1-	1/0 URD PRI AL	0	0	3126	453	14	2	1	0.00	1.15	0
SW100439-B	1514671	1.07	0 1-	Open	0	0	3126	453	0	0	0	0.00	1.15	0
1514428	1514436	0.99	67 3-	4/0 ACSR	4116	3881	3298	177	474	22	7	0.01	1.10	4
1514429	1514428	1.20	43 3-	4/0 ACSR	3743	3502	2923	176	335	15	5	0.03	1.13	6
1514482	1514429	2.06	26 3-	4/0 ACSR	2702	2480	1976	174	216	10	3	0.05	1.18	5
1514483	1514482	2.08	0 3-	1/0 ACSR	2681	2459	1959	174	0	0	0	0.00	1.18	0
SW148-B	1514483	2.08	0 3-	Open	2681	2459	1959	174	0	0	0	0.00	1.18	0
1514683	1514429	1.21	1 1-	1/0 URD PRI AL	0	0	2900	451	2	0	0	0.00	1.13	0
SW100440-A	1514683	1.21	0 1-	Open	0	0	2900	451	0	0	0	0.00	1.13	0
1514589	1514428	1.05	20 1-	1/0 ACSR	0	0	3165	177	103	14	6	0.02	1.12	2
1514682	1514589	1.26	20 1-	1/0 URD PRI AL	0	0	2803	444	103	14	8	0.05	1.17	3
SW100440-B	1514682	1.26	0 1-	Open	0	0	2803	444	0	0	0	0.00	1.17	0
1514435	1514434	0.78	72 3-	1/0 ACSR	4576	4356	3791	178	300	13	6	0.00	0.99	0
OC100301	1514435	0.78	72 3-	70-L	4576	4356	3791	178	300	13	20	0.00	0.99	0
1514438	OC100301	1.10	72 3-	1/0 ACSR	3770	3516	2998	176	300	13	6	0.06	1.04	11
1514596	1514438	1.18	30 1-	1/0 ACSR	0	0	2851	176	130	18	8	0.03	1.07	3
1514657	1514596	1.24	24 1-	1/0 URD PRI AL	0	0	2749	444	100	13	8	0.03	1.10	2
1514597	1514657	1.42	20 1-	1/0 ACSR	0	0	2470	174	80	11	5	0.02	1.12	0
1514656	1514432	0.98	14 1-	1/0 URD PRI AL	0	0	3328	449	68	9	6	0.04	0.98	2
SW100444-B	1514656	0.98	0 1-	Open	0	0	3328	449	0	0	0	0.00	0.98	0
CKT 134 total losses:	2,425													
SUB 3, CKT 144														
WNIC_144	WEST NICHOLASVI	0.00	769 3-	SBS_99_UNK	7503	7832	7947	180	4670	213	0	0.00	0.00	0
1514468	WNIC_144	0.01	769 3-	336.4 ACSR	7462	7764	7876	180	4670	213	40	0.01	0.01	36
1514473	1514468	0.16	769 3-	4/0 ACSR	6623	6624	6543	179	4670	213	63	0.35	0.36	1100
1514474	1514473	0.69	769 3-	336.4 ACSR	5021	4808	4311	178	4660	213	40	0.79	1.15	2267
1514480	1514474	0.77	742 3-	4/0 ACSR	4800	4576	4052	178	4487	206	61	0.17	1.33	529
1514481	1514480	1.01	742 3-	336.4 ACSR	4336	4091	3529	178	4482	206	39	0.34	1.66	934
SW100116-B	1514481	1.01	641 3-	Closed	4336	4091	3529	178	4163	191	0	0.00	1.66	0
SW100116-A	SW100116-B	1.01	641 3-	Closed	4336	4091	3529	178	4163	191	0	0.00	1.66	0
1514489	SW100116-A	1.05	641 3-	336.4 ACSR	4258	4011	3446	178	4163	191	36	0.06	1.73	162
1514503	1514489	1.13	641 3-	336.4 ACSR	4138	3887	3318	177	4161	191	36	0.10	1.82	260
SW100119-B	1514503	1.13	640 3-	Closed	4138	3887	3318	177	4127	190	0	0.00	1.82	0
SW100119-A	SW100119-B	1.13	640 3-	Closed	4138	3887	3318	177	4127	190	0	0.00	1.82	0
1514454	SW100119-A	1.20	640 3-	336.4 ACSR	4017	3765	3193	177	4127	190	36	0.10	1.93	269

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1514541	1514454	1.22	52 3-	1/0 ACSR	3992	3739	3169	177	218	10	4	0.00	1.93	0
1514542	1514541	1.28	51 3-	4 ACSR	3817	3546	3005	177	214	10	7	0.02	1.95	4
1514677	1514542	1.34	46 1-	1/0 URD PRI AL	0	0	2901	450	177	24	15	0.05	2.00	8
1514679	1514677	1.63	39 1-	1/0 URD PRI AL	0	0	2477	435	135	19	11	0.09	2.09	7
SW100435-B	1514679	1.63	0 1-	Open	0	0	2477	435	0	0	0	0.00	2.09	0
1514678	1514677	1.48	5 1-	1/0 URD PRI AL	0	0	2694	443	36	5	3	0.01	2.01	0
SW100434-B	1514678	1.48	0 1-	Open	0	0	2694	443	0	0	0	0.00	2.01	0
1514455	1514454	1.29	574 3-	336.4 ACSR	3899	3645	3071	177	3836	176	33	0.10	2.03	245
1514456	1514455	1.45	540 3-	336.4 ACSR	3680	3425	2852	177	3680	169	32	0.19	2.22	455
1514588	1514456	1.53	32 1-	1/0 ACSR	0	0	2712	176	150	21	9	0.04	2.26	5
1514632	1514588	2.18	30 1-	1/0 URD PRI AL	0	0	1998	419	144	20	12	0.21	2.47	18
1514457	1514456	1.50	507 3-	336.4 ACSR	3615	3361	2789	177	3514	162	31	0.06	2.28	133
SW100122-B	1514457	1.50	507 3-	Closed	3615	3361	2789	177	3512	162	0	0.00	2.28	0
SW100122-A	SW100122-B	1.50	507 3-	Closed	3615	3361	2789	177	3512	162	0	0.00	2.28	0
1514444	SW100122-A	1.78	507 3-	336.4 ACSR	3300	3050	2490	176	3512	162	31	0.31	2.59	708
1514664	1514444	1.90	1 3-	350 MCM URD PRI	3241	3006	2448	447	422	19	6	0.02	2.60	5
1514993	1514664	1.90	1 3-	Consumer	3241	3006	2448	447	422	19	0	0.00	2.60	0
1514445	1514444	1.96	497 3-	336.4 ACSR	3129	2884	2333	176	3032	139	26	0.17	2.75	330
1514540	1514445	2.25	37 3-	1/0 ACSR	2754	2519	2028	174	197	9	4	0.03	2.78	3
1514446	1514445	2.11	454 3-	336.4 ACSR	2998	2756	2215	175	2794	128	24	0.13	2.88	236
1514357	1514446	2.16	23 1-	2 ACSR	0	0	2155	175	160	22	13	0.04	2.92	4
1514607	1514357	2.18	19 1-	1/0 URD PRI AL	0	0	2135	440	134	19	11	0.01	2.93	2
1514364	1514607	2.39	18 1-	1/0 ACSR	0	0	1944	174	132	18	8	0.05	2.98	3
1514447	1514446	2.32	421 3-	336.4 ACSR	2828	2592	2066	175	2589	119	22	0.17	3.05	289
1514451	1514447	2.36	397 3-	336.4 ACSR	2794	2560	2036	175	2500	115	22	0.03	3.08	59
1514470	1514451	2.39	105 3-	336.4 ACSR	2779	2545	2023	175	611	28	5	0.00	3.08	2
OC100236	1514470	2.39	105 3-	REC_100_UNK	2779	2545	2023	175	611	28	29	0.00	3.08	0
1514471	OC100236	2.69	105 3-	336.4 ACSR	2574	2350	1849	174	611	28	5	0.07	3.15	25
1514492	1514471	2.72	60 3-	1/0 ACSR	2548	2325	1829	174	305	14	6	0.01	3.16	2
1514663	1514492	2.75	60 3-	1/0 URD PRI AL	2522	2300	1813	432	305	14	9	0.01	3.17	3
1614297	1514663	2.85	60 3-	1/0 ACSR	2435	2216	1747	173	305	14	6	0.02	3.19	4
1614150	1614297	3.28	28 1-	2 ACSR	0	0	1459	170	172	24	14	0.20	3.39	20
1614151	1614150	3.70	4 1-	4 ACSR	0	0	1209	166	22	3	2	0.03	3.42	0
1614299	1514471	2.84	45 3-	336.4 ACSR	2485	2265	1775	174	305	14	3	0.02	3.17	3
1614287	1614299	2.84	41 3-	1/0 URD PRI AL	2481	2262	1772	431	273	12	8	0.00	3.17	0
SW100131-B	1614287	2.84	41 3-	Closed	2481	2262	1772	431	273	12	0	0.00	3.17	0
SW100131-A	SW100131-B	2.84	41 3-	Closed	2481	2262	1772	431	273	12	0	0.00	3.17	0
1614288	SW100131-A	2.86	41 3-	1/0 URD PRI AL	2469	2250	1765	431	273	12	8	0.00	3.17	1
1614197	1614288	2.86	41 3-	336.4 ACSR	2465	2247	1762	174	273	12	2	0.00	3.17	0
SW100134-B	1614197	2.86	41 3-	Closed	2465	2247	1762	174	273	12	0	0.00	3.17	0
SW100134-A	SW100134-B	2.86	41 3-	Closed	2465	2247	1762	174	273	12	0	0.00	3.17	0
1614198	SW100134-A	3.17	41 3-	336.4 ACSR	2302	2093	1628	173	273	12	2	0.02	3.19	2
1614199	1614198	3.35	13 3-	1/0 ACSR	2166	1971	1528	172	76	3	2	0.01	3.20	0
1614149	1614199	3.38	3 1-	1/0 ACSR	0	0	1515	172	13	1	1	0.00	3.20	0
1514452	1514451	2.51	292 3-	336.4 ACSR	2692	2463	1949	175	1889	86	16	0.08	3.16	103
SW100125-B	1514452	2.51	289 3-	Closed	2692	2463	1949	175	1878	85	0	0.00	3.16	0
SW100125-A	SW100125-B	2.51	289 3-	Closed	2692	2463	1949	175	1878	85	0	0.00	3.16	0
1514453	SW100125-A	2.61	289 3-	336.4 ACSR	2623	2397	1891	174	1878	85	16	0.05	3.21	74
1514491	1514453	2.73	32 3-	4/0 ACSR	2529	2308	1813	174	543	25	8	0.03	3.24	12
1514594	1514491	2.78	22 1-	1/0 ACSR	0	0	1776	174	92	13	6	0.02	3.26	0
OC100233	1514594	2.78	22 1-	70-L	0	0	1776	174	92	13	19	0.00	3.26	0
1514595	OC100233	3.79	22 1-	1/0 ACSR	0	0	1268	169	92	13	6	0.27	3.53	17

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1514464	1514595	4.24	14 1-	1/0 URD PRI AL	0	0	1131	379	68	9	6	0.07	3.60	3
1514469	1514491	2.74	3 3-	4/0 ACSR	2525	2304	1810	174	438	20	6	0.00	3.25	0
SW100128-B	1514469	2.74	3 3-	Closed	2525	2304	1810	174	438	20	0	0.00	3.25	0
SW100128-A	SW100128-B	2.74	3 3-	Closed	2525	2304	1810	174	438	20	0	0.00	3.25	0
1514463	SW100128-A	2.87	3 3-	4/0 ACSR	2425	2209	1728	174	438	20	6	0.03	3.28	9
1514464	1514463	2.91	1 3-	4 ACSCR	2378	2164	1694	173	430	20	15	0.03	3.31	12
1514994	1514464	2.91	1 3-	Consumer	2378	2164	1694	173	430	20	0	0.00	3.31	0
1513136	1514453	3.57	257 3-	4/0 ACSR	2016	1829	1405	171	1334	60	18	0.47	3.68	517
SW100137-B	1513136	3.57	236 3-	Closed	2016	1829	1405	171	1247	56	0	0.00	3.68	0
SW100137-A	SW100137-B	3.57	236 3-	Closed	2016	1829	1405	171	1247	56	0	0.00	3.68	0
1513104	SW100137-A	3.82	236 3-	4/0 ACSR	1902	1725	1318	171	1247	56	17	0.12	3.80	123
1513105	1513104	4.11	228 3-	4/0 ACSR	1781	1616	1226	170	1210	55	16	0.13	3.93	134
OC100239	1513105	4.11	217 3-	REC_100_UNK	1781	1616	1226	170	1154	52	53	0.00	3.93	0
1513106	OC100239	4.17	217 3-	4/0 ACSR	1760	1597	1210	169	1154	52	15	0.02	3.95	23
1513111	1513106	5.08	129 3-	1/0 ACSR	1407	1291	969	165	705	32	14	0.34	4.30	262
OC100242	1513111	5.08	115 3-	REC_50_UNK	1407	1291	969	165	608	28	57	0.00	4.30	0
1513107	OC100242	5.15	12 3-	1/0 ACSR	1385	1272	954	165	74	13	6	-0.01	4.29	4
1513108	1513107	5.90	12 3-	1/0 ACSR	1189	1099	821	161	74	3	2	0.02	4.31	0
SW100140-B	1513108	5.90	0 3-	Open	1189	1099	821	161	0	0	0	0.00	4.31	0
CA100005	1513107	5.15	0 3-	Capacitor	1385	1272	954	165	0	-14	0	0.00	4.29	0
1513112	OC100242	5.35	103 3-	1/0 ACSR	1326	1220	914	164	533	25	11	0.12	4.42	50
1513077	1513112	6.12	20 1-	4 ACSCR	0	0	737	156	138	19	14	0.35	4.77	29
1513101	1513112	5.84	76 3-	1/0 ACSR	1201	1109	829	161	335	16	7	0.13	4.55	34
1613080	1513101	6.05	0 3-	2 ACSR	1145	1061	792	160	0	0	0	0.00	4.55	0
1613043	1613080	6.20	0 3-	2 ACSR	1108	1029	768	159	0	0	0	0.00	4.55	0
1613074	1613043	6.35	0 1-	1/0 URD PRI AL	0	0	749	335	0	0	0	0.00	4.55	0
SW100431-A	1613074	6.35	0 1-	Open	0	0	749	335	0	0	0	0.00	4.55	0
1613059	1613080	6.17	0 1-	2 ACSR	0	0	773	159	0	0	0	0.00	4.55	0
1613073	1613059	6.40	0 1-	1/0 URD PRI AL	0	0	744	334	0	0	0	0.00	4.55	0
SW100431-B	1613073	6.40	0 1-	Open	0	0	744	334	0	0	0	0.00	4.55	0
1613079	1513101	6.74	63 3-	1/0 ACSR	1021	949	708	157	278	13	6	0.21	4.76	48
1613057	1613079	6.81	27 1-	4 ACSCR	0	0	696	157	137	19	14	0.06	4.82	7
OC100243	1613057	6.81	25 1-	35-H	0	0	696	157	130	18	53	0.00	4.82	0
1613058	OC100243	7.57	25 1-	4 ACSCR	0	0	586	150	130	18	13	0.33	5.15	26
1613042	1613079	6.94	31 1-	4 ACSCR	0	0	674	155	129	18	13	0.17	4.93	19
OC100244	1613042	6.94	29 1-	REC_50_UNK	0	0	674	155	118	16	34	0.00	4.93	0
1613038	OC100244	9.05	29 1-	4 ACSCR	0	0	443	138	118	16	12	0.92	5.85	68
1612028	1613038	9.32	2 1-	2 ACSR	0	0	428	137	12	1	1	0.01	5.86	0
1513102	1513106	4.31	75 3-	4/0 ACSR	1710	1552	1173	169	386	18	5	0.03	3.98	7
1513103	1513102	4.53	67 3-	4/0 ACSR	1635	1484	1118	168	351	16	5	0.04	4.01	8
1513110	1513103	5.07	47 3-	1/0 ACSR	1436	1312	983	166	229	10	5	0.05	4.07	7
1513109	1513103	4.86	12 3-	4/0 ACSR	1534	1392	1043	167	70	3	1	0.01	4.02	0
SW100982-B	1513109	4.86	0 3-	Open	1534	1392	1043	167	0	0	0	0.00	4.02	0
1513078	1513102	4.37	2 1-	4 ACSCR	0	0	1146	168	12	1	1	0.00	3.98	0
SW-1723145351-B	1513078	4.37	1 1-	Closed	0	0	1146	168	6	0	0	0.00	3.98	0
SW-1723145351-A	SW-1723145351-B	4.37	1 1-	Closed	0	0	1146	168	6	0	0	0.00	3.98	0
1513131	SW-1723145351-A	4.37	1 1-	1/0 URD PRI AL	0	0	1146	393	6	0	0	0.00	3.98	0
1513125	1513104	3.99	6 1-	4 ACSCR	0	0	1230	169	26	3	3	0.01	3.81	0
1514450	1514447	2.33	12 3-	336.4 ACSCR	2819	2584	2058	175	44	2	0	0.00	3.05	0
1514591	1514450	2.36	12 1-	4 ACSCR	0	0	2025	175	44	6	4	0.01	3.05	0
1514592	1514591	2.49	12 1-	6 ACWC	0	0	1874	173	44	6	4	0.02	3.08	0
1514593	1514592	2.69	3 1-	4 ACSCR	0	0	1667	171	7	0	1	0.00	3.08	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
OC100167	1514593	2.69	0 1-	_DefaultBayEqui	0	0	1667	171	0	0	0.00	3.08	0	0
1514590	1514455	1.29	30 1-	1/0 ACSR	0	0	3053	177	137	19	8	0.00	2.03	0
1514684	1514590	1.94	30 1-	1/0 URD PRI AL	0	0	2187	424	137	19	11	0.20	2.23	16
1514490	1514489	1.10	0 3-	336.4 ACSR	4186	3937	3369	177	0	0	0.00	1.73	0	0
SW100021-B	1514490	1.10	0 3-	Open	4186	3937	3369	177	0	0	0.00	1.73	0	0
CKT 144 total losses:		\$9,745												
SUB	3, CKT 154													
WNIC_154	WEST NICHOLASVI	0.00	677 3-	SBS_99_UNK	7503	7832	7947	180	4499	202	0	0.00	0.00	0
1514543	WNIC_154	0.01	677 3-	336.4 ACSR	7460	7760	7872	180	4499	202	38	0.01	0.01	35
1514544	1514543	0.28	677 3-	4/0 ACSR	6101	6032	5705	179	4499	202	60	0.53	0.54	1719
1514545	1514544	0.94	677 3-	336.4 ACSR	4438	4200	3621	178	4484	202	38	0.88	1.42	2644
1514549	1514545	1.77	677 3-	336.4 ACSR	3307	3059	2487	176	4461	205	39	1.19	2.61	3374
1514551	1514549	1.82	671 3-	336.4 ACSR	3249	3001	2433	176	4125	191	36	0.08	2.69	205
1514552	1514551	1.86	671 3-	336.4 ACSR	3210	2963	2397	176	4124	194	37	0.06	2.74	146
1514499	1514552	1.98	3 3-	336.4 ACSR	3104	2860	2302	176	230	10	2	0.01	2.75	1
1514500	1514499	2.02	0 3-	336.4 ACSR	3067	2825	2269	176	0	0	0.00	2.75	0	0
SW136-B	1514500	2.02	0 3-	Open	3067	2825	2269	176	0	0	0.00	2.75	0	0
1514619	1514499	2.00	1 3-	1/0 URD PRI AL	3079	2837	2286	444	203	9	6	0.00	2.76	0
1514991	1514619	2.00	1 3-	Consumer	3079	2837	2286	444	203	9	0	0.00	2.76	0
1514553	1514552	1.90	666 3-	4/0 ACSR	3169	2923	2361	176	3848	181	54	0.07	2.81	171
1514559	1514553	1.99	331 3-	4/0 ACSR	3065	2823	2270	175	2584	122	36	0.12	2.93	207
SW100316-B	1514559	1.99	323 3-	Closed	3065	2823	2270	175	2543	120	0	0.00	2.93	0
SW100316-A	SW100316-B	1.99	323 3-	Closed	3065	2823	2270	175	2543	120	0	0.00	2.93	0
1514560	SW100316-A	2.04	323 3-	4/0 ACSR	3004	2764	2216	175	2543	120	35	0.07	3.00	123
1514562	1514560	2.20	308 3-	4/0 ACSR	2844	2610	2078	175	2478	117	35	0.19	3.19	310
SW100319-B	1514562	2.20	300 3-	Closed	2844	2610	2078	175	2220	105	0	0.00	3.19	0
SW100319-A	SW100319-B	2.20	300 3-	Closed	2844	2610	2078	175	2220	105	0	0.00	3.19	0
1514563	SW100319-A	2.25	300 3-	4/0 ACSR	2794	2562	2036	175	2220	105	31	0.06	3.25	92
1514564	1514563	2.29	296 3-	1/0 ACSR	2757	2526	2007	174	2219	105	46	0.06	3.32	112
1514495	1514564	2.48	12 3-	1/0 ACSR	2550	2324	1846	173	469	22	10	0.04	3.36	10
1514498	1514495	2.50	1 3-	1/0 ACSR	2530	2307	1831	173	6	0	0.00	3.36	0	
1514614	1514498	2.51	1 3-	1/0 URD PRI AL	2524	2302	1827	429	6	0	0.00	3.36	0	
SW100448-A	1514614	2.51	0 3-	Open	2524	2302	1827	429	0	0	0.00	3.36	0	
1514496	1514495	2.52	1 3-	1/0 ACSR	2512	2291	1817	173	1	0	0.00	3.36	0	
1514613	1514496	2.56	1 3-	1/0 URD PRI AL	2483	2266	1799	427	1	0	0.00	3.36	0	
1514497	1514613	2.66	0 3-	336.4 ACSR	2429	2216	1753	173	0	0	0.00	3.36	0	
SW100313-B	1514497	2.66	0 3-	Open	2429	2216	1753	173	0	0	0.00	3.36	0	
1514565	1514564	2.35	284 3-	4/0 ACSR	2697	2469	1957	174	1748	82	24	0.06	3.37	65
1514494	1514565	2.53	13 3-	4 ACSR	2447	2251	1771	172	245	11	8	0.04	3.41	6
1514566	1514565	2.42	268 3-	4/0 ACSR	2640	2414	1909	174	1319	62	18	0.05	3.42	41
1514493	1514566	2.46	0 3-	4/0 ACSR	2606	2382	1880	174	0	0	0.00	3.42	0	
SW143-B	1514493	2.46	0 3-	Open	2606	2382	1880	174	0	0	0.00	3.42	0	
1514567	1514566	2.50	268 3-	4/0 ACSR	2574	2352	1855	174	1319	62	18	0.05	3.47	49
1514569	1514567	2.62	259 3-	4/0 ACSR	2485	2267	1781	173	1244	59	17	0.07	3.54	53
1514572	1514569	2.66	183 3-	4/0 ACSR	2456	2240	1757	173	874	41	12	0.02	3.56	11
1514629	1514572	2.79	24 1-	1/0 URD PRI AL	0	0	1683	422	89	12	7	0.03	3.59	1
SW100451-B	1514629	2.79	0 1-	Open	0	0	1683	422	0	0	0.00	3.59	0	
1514649	1514572	2.76	12 1-	1/0 URD PRI AL	0	0	1699	423	45	6	4	0.01	3.57	0
SW100449-A	1514649	2.76	0 1-	Open	0	0	1699	423	0	0	0.00	3.57	0	
1514573	1514572	2.69	130 3-	4/0 ACSR	2432	2217	1738	173	685	32	10	0.01	3.57	5
1514612	1514573	2.74	129 3-	1/0 URD PRI AL	2395	2183	1716	425	669	31	19	0.04	3.61	22

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1514574	1514612	2.97	129 3-	4/0 ACSR	2248	2044	1597	172	669	31	9	0.05	3.66	19
1514575	1514574	2.99	1 3-	4/0 ACSR	2237	2034	1588	172	45	2	1	0.00	3.66	0
1514366	1514574	3.12	66 1-	1/0 ACSR	0	0	1518	171	181	25	11	0.04	3.70	4
1514630	1514572	2.73	17 1-	1/0 URD PRI AL	0	0	1714	424	56	7	5	0.01	3.57	0
SW100450-A	1514630	2.73	0 1-	Open	0	0	1714	424	0	0	0	0.00	3.57	0
1514570	1514569	2.68	30 3-	1/0 ACSR	2431	2215	1740	173	111	5	2	0.00	3.55	0
1514628	1514570	2.68	0 1-	1/0 URD PRI AL	0	0	1737	427	0	0	0	0.00	3.55	0
SW100451-A	1514628	2.68	0 1-	Open	0	0	1737	427	0	0	0	0.00	3.55	0
1514571	1514570	2.68	16 3-	1/0 ACSR	2428	2212	1738	173	49	2	1	0.00	3.55	0
1514623	1514571	2.69	8 1-	1/0 URD PRI AL	0	0	1733	426	21	3	2	0.00	3.55	0
SW100450-B	1514623	2.69	0 1-	Open	0	0	1733	426	0	0	0	0.00	3.55	0
1514648	1514571	2.72	8 1-	1/0 URD PRI AL	0	0	1718	425	28	4	2	0.00	3.55	0
SW100449-B	1514648	2.72	0 1-	Open	0	0	1718	425	0	0	0	0.00	3.55	0
1514568	1514567	2.54	8 3-	1/0 ACSR	2538	2317	1827	174	66	3	1	0.00	3.48	0
1514665	1514568	2.72	5 3-	1/0 URD PRI AL	2407	2197	1746	423	19	0	1	0.00	3.48	0
SW100448-B	1514665	2.72	0 3-	Open	2407	2197	1746	423	0	0	0	0.00	3.48	0
1514561	1514560	2.10	0 3-	4/0 ACSR	2950	2712	2169	175	0	0	0	0.00	3.00	0
SW139-B	1514561	2.10	0 3-	Open	2950	2712	2169	175	0	0	0	0.00	3.00	0
1514554	1514553	2.24	333 3-	4/0 ACSR	2811	2579	2051	175	1127	53	16	0.17	2.98	119
1514558	1514554	2.74	96 3-	336.4 ACSR	2480	2262	1770	174	369	17	3	0.03	3.02	5
SW100313-A	1514558	2.74	0 3-	Open	2480	2262	1770	174	0	0	0	0.00	3.02	0
1514555	1514554	2.28	206 3-	4/0 ACSR	2767	2537	2013	175	471	22	7	0.01	2.99	4
1514610	1514555	2.37	38 1-	1/0 URD PRI AL	0	0	1948	433	45	6	4	0.01	3.01	0
1514365	1514610	2.38	8 1-	1/0 ACSR	0	0	1940	174	12	1	1	0.00	3.01	0
1514622	1514365	2.39	0 1-	1/0 URD PRI AL	0	0	1936	432	0	0	0	0.00	3.01	0
SW100455-A	1514622	2.39	0 1-	Open	0	0	1936	432	0	0	0	0.00	3.01	0
1514611	1514365	2.45	8 1-	1/0 URD PRI AL	0	0	1893	429	12	1	1	0.00	3.01	0
SW100452-A	1514611	2.45	0 1-	Open	0	0	1893	429	0	0	0	0.00	3.01	0
1514640	1514555	2.37	7 1-	1/0 URD PRI AL	0	0	1949	433	15	2	1	0.01	3.00	0
1514627	1514640	2.43	1 1-	1/0 URD PRI AL	0	0	1909	430	4	0	0	0.00	3.00	0
SW100456-A	1514627	2.43	0 1-	Open	0	0	1909	430	0	0	0	0.00	3.00	0
1514641	1514640	2.42	6 1-	1/0 URD PRI AL	0	0	1917	431	11	1	1	0.00	3.00	0
SW100454-A	1514641	2.42	0 1-	Open	0	0	1917	431	0	0	0	0.00	3.00	0
1514651	1514555	2.37	11 1-	1/0 URD PRI AL	0	0	1948	433	15	2	1	0.01	3.00	0
1514653	1514651	2.45	11 1-	1/0 URD PRI AL	0	0	1893	429	15	2	1	0.00	3.00	0
SW100453-A	1514653	2.45	0 1-	Open	0	0	1893	429	0	0	0	0.00	3.00	0
1514652	1514651	2.43	0 1-	1/0 URD PRI AL	0	0	1908	430	0	0	0	0.00	3.00	0
SW100457-A	1514652	2.43	0 1-	Open	0	0	1908	430	0	0	0	0.00	3.00	0
1514556	1514555	2.48	146 3-	4/0 ACSR	2601	2378	1874	174	380	17	5	0.02	3.02	5
1514557	1514556	2.61	38 3-	4/0 ACSR	2500	2282	1791	173	85	4	1	0.00	3.02	0
1514647	1514557	2.61	0 1-	1/0 URD PRI AL	0	0	1788	429	0	0	0	0.00	3.02	0
SW100457-B	1514647	2.61	0 1-	Open	0	0	1788	429	0	0	0	0.00	3.02	0
1514639	1514557	2.61	6 1-	1/0 URD PRI AL	0	0	1788	429	8	1	1	0.00	3.02	0
SW100456-B	1514639	2.61	0 1-	Open	0	0	1788	429	0	0	0	0.00	3.02	0
1514609	1514557	2.67	6 1-	1/0 URD PRI AL	0	0	1756	427	8	1	1	0.00	3.02	0
SW100455-B	1514609	2.67	0 1-	Open	0	0	1756	427	0	0	0	0.00	3.02	0
1514626	1514556	2.51	6 1-	1/0 URD PRI AL	0	0	1850	431	11	1	1	0.00	3.02	0
SW100454-B	1514626	2.51	0 1-	Open	0	0	1850	431	0	0	0	0.00	3.02	0
1514608	1514556	2.48	8 1-	1/0 URD PRI AL	0	0	1871	432	11	1	1	0.00	3.02	0
SW100452-B	1514608	2.48	0 1-	Open	0	0	1871	432	0	0	0	0.00	3.02	0
1514646	1514556	2.48	11 1-	1/0 URD PRI AL	0	0	1872	432	13	1	1	0.00	3.02	0
SW100453-B	1514646	2.48	0 1-	Open	0	0	1872	432	0	0	0	0.00	3.02	0

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
CA100011	1514551	1.82	0 3-	Capacitor	3249	3001	2433	176	0	-14	0	0.00	2.69	0
1514550	1514549	1.84	5 3-	1/0 ACSR	3186	2938	2385	176	307	14	6	0.01	2.62	3
1514992	1514550	1.84	1 1-	Consumer	0	0	2385	176	100	14	0	0.00	2.62	0
CA100008	1514545	0.94	0 3-	Capacitor	4438	4200	3621	178	0	-14	0	0.00	1.42	0
CKT 154 total losses:		\$9,561												
SUB 3, CKT 164														
WNIC_164	WEST NICHOLASVI	0.00	159 3-	SBS_99_UNK	7503	7832	7947	180	573	26	0	0.00	0.00	0
1514620	WNIC_164	0.03	159 3-	350 MCM URD PRI	7439	7694	7872	478	573	26	8	0.01	0.01	2
1514430	1514620	0.04	60 3-	336.4 ACSR	7377	7585	7759	180	225	10	2	0.00	0.01	0
SW-1591154014-B	1514430	0.04	60 3-	Closed	7377	7585	7759	180	225	10	0	0.00	0.01	0
SW-1591154014-A	SW-1591154014-B	0.04	60 3-	Closed	7377	7585	7759	180	225	10	0	0.00	0.01	0
1514522	SW-1591154014-A	0.09	2 3-	336.4 ACSR	7158	7305	7369	180	13	0	0	0.00	0.01	0
SW679042338-B	1514522	0.09	0 3-	Closed	7158	7305	7369	180	0	0	0	0.00	0.01	0
SW679042338-A	SW679042338-B	0.09	0 3-	Closed	7158	7305	7369	180	0	0	0	0.00	0.01	0
1514621	SW-1591154014-A	0.08	58 3-	500 MCM URD PRI	7309	7535	7692	477	212	9	3	0.00	0.01	0
SW1743295580-B	1514621	0.08	58 3-	Closed	7309	7535	7692	477	212	9	0	0.00	0.01	0
SW1743295580-A	SW1743295580-B	0.08	58 3-	Closed	7309	7535	7692	477	212	9	0	0.00	0.01	0
1514666	SW1743295580-A	0.08	58 3-	500 MCM URD PRI	7305	7532	7688	477	212	9	3	0.00	0.01	0
1514576	1514666	0.11	58 3-	336.4 ACSR	7176	7364	7455	180	212	9	2	0.00	0.01	0
1514521	1514576	0.22	0 3-	1/0 ACSR	6494	6544	6381	179	0	0	0	0.00	0.01	0
1514577	1514576	0.47	58 3-	336.4 ACSR	5808	5698	5314	179	212	9	2	0.03	0.04	3
1514655	1514577	0.74	0 1-	1/0 URD PRI AL	0	0	4244	457	0	0	0	0.00	0.04	0
SW1574294373-A	1514655	0.74	0 1-	Open	0	0	4244	457	0	0	0	0.00	0.04	0
1514578	1514577	0.52	52 3-	336.4 ACSR	5651	5519	5100	179	198	9	2	0.00	0.04	0
OC1164237350	1514578	0.52	52 3-	_DefaultBayEqui	5651	5519	5100	179	198	9	0	0.00	0.04	0
1514579	OC1164237350	0.55	52 3-	336.4 ACSR	5574	5432	4997	179	198	9	2	0.00	0.04	0
1514527	1514579	0.58	52 3-	336.4 ACSR	5486	5333	4882	179	198	9	2	0.00	0.04	0
OC1423929816	1514527	0.58	52 3-	_DefaultBayEqui	5486	5333	4882	179	198	9	0	0.00	0.04	0
1514528	OC1423929816	0.84	52 3-	336.4 ACSR	4841	4629	4086	178	198	9	2	0.02	0.06	2
1514520	1514528	1.09	2 3-	4/0 ACSR	4248	4013	3433	177	3	0	0	0.00	0.06	0
SW100413-B	1514520	1.09	0 3-	Open	4248	4013	3433	177	0	0	0	0.00	0.06	0
1514529	1514528	0.92	50 3-	4/0 ACSR	4640	4419	3859	178	195	9	3	0.01	0.07	0
1514519	1514529	0.93	3 3-	4/0 ACSR	4627	4405	3844	178	1	0	0	0.00	0.07	0
1514361	1514519	1.17	3 1-	1/0 ACSR	0	0	3206	177	1	0	0	0.00	0.07	0
1514634	1514361	1.17	0 1-	1/0 URD PRI AL	0	0	3204	455	0	0	0	0.00	0.07	0
1514449	1514529	0.93	47 3-	4/0 ACSR	4630	4408	3847	178	195	8	3	0.00	0.07	0
OC1885356904	1514449	0.93	47 3-	70-L	4630	4408	3847	178	195	8	13	0.00	0.07	0
1514518	OC1885356904	0.97	47 3-	4/0 ACSR	4526	4300	3732	178	195	8	3	0.00	0.07	0
1514360	1514518	1.32	17 1-	4 ACSR	0	0	2631	174	81	11	8	0.09	0.17	4
1514654	1514579	0.80	0 1-	1/0 URD PRI AL	0	0	4081	456	0	0	0	0.00	0.04	0
SW1574294373-B	1514654	0.80	0 1-	Open	0	0	4081	456	0	0	0	0.00	0.04	0
1514509	1514620	0.11	99 3-	336.4 ACSR	7068	7192	7213	180	348	16	3	0.01	0.01	2
1514513	1514509	0.27	12 3-	336.4 ACSR	6427	6406	6176	179	25	1	0	0.00	0.02	0
SW100422-A	1514513	0.27	0 3-	Open	6427	6406	6176	179	0	0	0	0.00	0.02	0
1514510	1514509	0.22	82 3-	336.4 ACSR	6600	6615	6445	179	303	14	3	0.01	0.03	2
1514511	1514510	0.25	23 3-	336.4 ACSR	6507	6502	6299	179	89	4	1	0.00	0.03	0
1514633	1514511	0.43	10 1-	1/0 URD PRI AL	0	0	5270	464	39	5	3	0.02	0.04	0
SW-1141229715-A	1514633	0.43	0 1-	Open	0	0	5270	464	0	0	0	0.00	0.04	0
1514512	1514511	0.51	13 3-	336.4 ACSR	5618	5471	5030	179	49	2	0	0.00	0.03	0
1514359	1514510	0.29	56 1-	2 ACSR	0	0	5885	179	205	28	16	0.03	0.06	4
1514631	1514359	0.48	6 1-	1/0 URD PRI AL	0	0	4893	461	21	2	2	0.01	0.07	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW-1141229715-B	1514631	0.48	0 1-	Open	0	0	4893	461	0	0	0	0.00	0.07	0
CKT 164 total losses:		\$19												
SUB 3 total losses:		\$38,603												

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 4, CKT 104			1561		5514	5684	5734	180	10481					
DAVS_104	DAVS_104	0.00	373 3-	SBS_99_UNK	5514	5684	5734	180	2540	113	0	0.00	0.00	0
1515164	DAVS_104	0.74	373 3-	4/0 ACSR	3787	3644	3245	178	2540	113	33	0.75	0.75	1357
1515244	1515164	0.74	0 1-	4 ACSR	0	0	3228	177	0	0	0	0.00	0.75	0
SW101886-A	1515244	0.74	0 1-	Open	0	0	3228	177	0	0	0	0.00	0.75	0
1515165	1515164	1.35	345 3-	4/0 ACSR	2982	2804	2365	176	2267	101	30	0.57	1.32	939
1515243	1515165	2.51	27 1-	2 ACSR	0	0	1361	167	178	24	13	0.43	1.75	43
1515166	1515165	1.64	295 3-	4/0 ACSR	2700	2519	2088	175	1952	88	26	0.23	1.55	331
1515193	1515166	2.04	25 3-	1/0 ACSR	2323	2139	1761	173	137	6	3	0.03	1.58	3
OC101654	1515193	2.04	12 3-	REC_35_UNK	2323	2139	1761	173	52	2	7	0.00	1.58	0
1515168	OC101654	2.00	12 3-	1/0 ACSR	1823	1684	1353	169	52	2	1	0.02	1.60	0
1515148	1515168	3.21	5 1-	4 ACSR	0	0	1137	165	17	2	2	0.02	1.62	0
1515167	1515166	2.00	250 3-	4/0 ACSR	2419	2241	1825	174	1635	73	22	0.24	1.79	296
1515146	1515167	2.06	25 1-	4 ACSR	0	0	1766	173	168	22	16	0.06	1.86	9
OC101646	1515146	2.06	25 1-	50-L	0	0	1766	173	168	22	46	0.00	1.86	0
1515147	OC101646	2.59	25 1-	4 ACSR	0	0	1346	167	168	22	16	0.27	2.12	26
1515177	1515167	2.22	211 3-	4/0 ACSR	2278	2103	1699	173	1389	62	19	0.12	1.92	131
SW101601-B	1515177	2.22	210 3-	Closed	2278	2103	1699	173	1376	62	0	0.00	1.92	0
SW101601-A	SW101601-B	2.22	210 3-	Closed	2278	2103	1699	173	1376	62	0	0.00	1.92	0
1515178	SW101601-A	2.73	210 3-	4/0 ACSR	1998	1832	1457	171	1376	62	18	0.29	2.21	295
SW101598-B	1515178	2.73	195 3-	Closed	1998	1832	1457	171	1297	58	0	0.00	2.21	0
SW101598-A	SW101598-B	2.73	195 3-	Closed	1998	1832	1457	171	1297	58	0	0.00	2.21	0
1515161	SW101598-A	2.79	195 3-	4/0 ACSR	1969	1805	1433	171	1297	58	17	0.03	2.24	33
1515179	1515161	3.23	193 3-	4/0 ACSR	1784	1628	1279	170	1282	58	17	0.13	2.37	86
1515145	1515179	3.97	16 1-	2 ACSR	0	0	1019	165	99	13	7	0.15	2.52	9
1515162	1515161	2.83	1 3-	1/0 ACSR	1946	1782	1415	171	8	0	0	0.00	2.24	0
1515163	1515162	2.87	0 3-	4/0 ACSR	1927	1764	1399	171	0	0	0	0.00	2.24	0
SW100786-B	1515163	2.87	0 3-	Open	1927	1764	1399	171	0	0	0	0.00	2.24	0
CKT 104 total losses:	\$3,558													
SUB 4, CKT 114														
DAVS_114	DAVS_114	0.00	158 3-	SBS_99_UNK	5514	5684	5734	180	1211	54	0	0.00	0.00	0
1515194	DAVS_114	0.02	158 3-	336.4 ACSR	5471	5616	5661	180	1211	54	10	0.01	0.01	5
SW101657-B	1515194	0.02	158 3-	Closed	5471	5616	5661	180	1211	54	0	0.00	0.01	0
SW101657-A	SW101657-B	0.02	158 3-	Closed	5471	5616	5661	180	1211	54	0	0.00	0.01	0
1515195	SW101657-A	0.06	158 3-	336.4 ACSR	5367	5456	5489	180	1211	54	10	0.01	0.02	11
1515196	1515195	0.16	158 3-	4/0 ACSR	5067	5059	5025	179	1211	54	16	0.05	0.07	45
1515197	1515196	1.08	154 3-	1/0 ACSR	3041	2849	2528	175	1169	52	23	0.66	0.73	561
1515198	1515197	2.90	48 3-	1/0 ACSR	1604	1512	1226	166	482	21	9	0.39	1.12	113
1415389	1515198	2.91	2 3-	4/0 ACSR	1600	1508	1222	166	22	0	0	0.00	1.12	0
1415390	1415389	3.43	2 3-	336.4 ACSR	1484	1395	1114	165	22	0	0	0.00	1.12	0
SW101660-B	1415390	3.43	0 3-	Open	1484	1395	1114	165	0	0	0	0.00	1.12	0
1415549	1515198	2.91	9 1-	4/0 ACSR	0	0	1224	166	62	8	2	0.00	1.12	0
1415681	1415549	2.91	9 1-	1/0 URD PRI AL	0	0	1222	384	62	8	5	0.00	1.12	0
OC101701	1415681	2.91	9 1-	REC_99_UNK	0	0	1222	384	62	8	0	0.00	1.12	0
1415682	OC101701	2.92	9 1-	1/0 URD PRI AL	0	0	1219	383	62	8	5	0.00	1.12	0
1516150	1515197	1.93	55 1-	1/0 URD PRI AL	0	0	1713	402	262	35	21	0.80	1.53	168
1516079	1516150	1.96	45 1-	4 ACSR	0	0	1682	168	187	25	18	0.03	1.56	5
OC101702	1516079	1.96	45 1-	REC_35_UNK	0	0	1682	168	187	25	72	0.00	1.56	0
1516080	OC101702	2.62	45 1-	4 ACSR	0	0	1178	162	187	25	18	0.61	2.16	86
1516125	1516080	3.19	15 1-	1/0 URD PRI AL	0	0	1007	345	83	11	7	0.18	2.34	12

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS	
1516082	1516125	3.46	11 1-				0	910	156	66	8	6	0.09	2.43	4
1516126	1516082	3.91	3 1-	1/0 URD	PRI AL		0	823	320	38	5	3	0.04	2.46	0
SW101880-B	1516126	3.91	0 1-		Open		0	823	320	0	0	0	0.00	2.46	0
1516081	1516080	2.71	8 1-		4 ACRSR		0	1133	161	30	4	3	0.01	2.17	0
1516124	1516081	2.73	2 1-	1/0 URD	PRI AL		0	1128	359	4	0	0	0.00	2.17	0
SW101880-A	1516124	2.73	0 1-		Open		0	1128	359	0	0	0	0.00	2.17	0
CKT 114 total losses:		\$1,010													
SUB 4, CKT 124															
DAVS_124	DAVIS	0.00	665 3-		SBS_99_UNK	5514	5684	5734	180	4026	178	0	0.00	0.00	0
1515186	DAVS_124	0.02	665 3-		4/0 ACSR	5463	5603	5649	180	4026	178	53	0.03	0.03	80
SW101705-B	1515186	0.02	664 3-		Closed	5463	5603	5649	180	4025	178	0	0.00	0.03	0
SW101705-A	SW101705-B	0.02	664 3-		Closed	5463	5603	5649	180	4025	178	0	0.00	0.03	0
1515187	SW101705-A	0.13	664 3-		4/0 ACSR	5120	5124	5111	179	4025	178	53	0.18	0.20	555
1515259	1515187	0.16	5 1-		4 ACRSR	0	0	4908	179	54	7	5	0.01	0.21	0
OC101836	1515259	0.16	5 1-		REC_50_UNK	0	0	4908	179	54	7	14	0.00	0.21	0
1515260	OC101836	1.01	5 1-		4 ACRSR	0	0	2032	170	54	7	5	0.14	0.35	4
1515199	1515187	0.89	651 3-		4/0 ACSR	3551	3392	2984	177	3921	174	51	1.15	1.35	3511
1515189	1515199	1.19	536 3-		1/0 ACSR	3081	2896	2502	176	3228	144	63	0.69	2.04	1936
SW101708-B	1515189	1.19	535 3-		Closed	3081	2896	2502	176	3204	144	0	0.00	2.04	0
SW101708-A	SW101708-B	1.19	535 3-		Closed	3081	2896	2502	176	3204	144	0	0.00	2.04	0
1515190	SW101708-A	2.20	535 3-		1/0 ACSR	2077	1931	1592	171	3204	144	63	2.26	4.30	6228
1516083	1515190	2.56	506 3-		1/0 ACSR	1856	1730	1408	169	2874	131	57	0.74	5.04	1920
1516084	1516083	3.93	491 3-		1/0 ACSR	1310	1230	972	162	2674	123	53	2.56	7.60	6236
REG27	1516084	3.93	463 3-		219	1310	1230	972	162	2518	118	54	-7.60	0.00	0
1616098	REG27	4.03	463 3-		1/0 ACSR	1281	1204	950	162	2518	111	48	0.17	0.17	394
SW101711-B	1616098	4.03	463 3-		Closed	1281	1204	950	162	2515	111	0	0.00	0.17	0
SW101711-A	SW101711-B	4.03	463 3-		Closed	1281	1204	950	162	2515	111	0	0.00	0.17	0
1616099	SW101711-A	4.07	463 3-		1/0 ACSR	1271	1194	942	162	2515	111	48	0.06	0.24	145
1616101	1616099	4.44	270 3-		4/0 ACSR	1202	1128	883	161	1485	65	19	0.16	0.40	247
1516148	1616101	4.89	267 3-		4/0 ACSR	1128	1056	821	159	1474	66	19	0.28	0.68	300
SW101717-B	1516148	4.89	260 3-		Closed	1128	1056	821	159	1450	65	0	0.00	0.68	0
SW101717-A	SW101717-B	4.89	260 3-		Closed	1128	1056	821	159	1450	65	0	0.00	0.68	0
1516085	SW101717-A	4.98	260 3-		4/0 ACSR	1115	1043	810	159	1450	65	19	0.05	0.73	57
1516086	1516085	5.20	256 3-		4/0 ACSR	1082	1012	782	158	1434	64	19	0.13	0.86	143
1516113	1516086	5.45	5 1-		2 ACRSR	0	0	741	157	24	3	2	0.02	0.88	0
OC101841	1516113	5.45	3 1-		REC_35_UNK	0	0	741	157	13	1	5	0.00	0.88	0
1616172	OC101841	6.23	3 1-		2 ACRSR	0	0	638	152	13	1	1	0.02	0.90	0
1516087	1516086	5.49	246 3-		4/0 ACSR	1042	973	750	158	1376	61	18	0.17	1.03	169
1516094	1516087	5.83	116 3-		1/0 ACSR	985	922	708	156	809	36	16	0.20	1.23	133
OC101849	1516094	5.83	112 3-		REC_50_UNK	985	922	708	156	780	35	70	0.00	1.23	0
1516095	OC101849	6.84	112 3-		1/0 ACSR	846	794	607	152	780	35	15	0.56	1.79	347
1516121	1516095	7.26	17 1-		2 ACRSR	0	0	566	149	115	15	9	0.15	1.94	12
OC101850	1516121	7.26	12 1-		REC_15_UNK	0	0	566	149	58	7	53	0.00	1.94	0
1516122	OC101850	7.33	12 1-		2 ACRSR	0	0	560	149	58	7	4	0.02	1.96	0
1516115	1516122	7.57	11 1-		6 ACWC	0	0	534	147	55	7	5	0.08	2.03	4
1516116	1516115	7.74	9 1-		4 ACRSR	0	0	516	145	48	6	5	0.05	2.08	2
1516117	1516116	8.31	6 1-		6 ACWC	0	0	466	141	41	5	4	0.09	2.17	2
1516123	1516117	8.41	1 1-		4 ACRSR	0	0	458	140	9	1	1	0.00	2.17	0
1516096	1516095	7.22	76 3-		1/0 ACSR	802	754	576	150	561	25	11	0.16	1.95	76
1516097	1516096	7.93	52 3-		1/0 ACSR	733	690	526	147	314	14	6	0.13	2.08	30
1516107	1516097	7.94	23 1-		1/0 ACSR	0	0	525	147	127	17	8	0.00	2.09	0

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
OC101852	1516107	7.94	23 1-	REC_35_UNK	0	0	525	147	127	17	49	0.00	2.09	0
1516108	OC101852	9.30	23 1-	1/0 ACSR	0	0	449	142	127	17	8	0.42	2.51	39
1516110	1516108	9.31	14 1-	1/0 ACSR	0	0	449	142	72	9	4	0.00	2.51	0
OC101853	1516110	9.31	14 1-	REC_35_UNK	0	0	449	142	72	9	28	0.00	2.51	0
1516111	OC101853	10.16	14 1-	1/0 ACSR	0	0	412	138	72	9	4	0.11	2.62	5
1516112	1516111	10.71	5 1-	4 ACSR	0	0	381	134	20	2	2	0.03	2.65	0
1516109	1516108	9.34	2 1-	2 ACSR	0	0	447	141	14	1	1	0.00	2.51	0
1516106	1516097	7.94	9 1-	4 ACSR	0	0	525	147	48	6	5	0.00	2.08	0
1516076	1516096	7.22	22 1-	2 ACSR	0	0	575	150	236	32	18	0.01	1.96	0
OC101851	1516076	7.22	22 1-	REC_35_UNK	0	0	575	150	236	32	92	0.00	1.96	0
1516077	OC101851	7.50	22 1-	2 ACSR	0	0	550	148	236	32	18	0.22	2.18	38
1516078	1516077	8.29	13 1-	1/0 ACSR	0	0	499	145	139	18	8	0.16	2.33	12
1516088	1516087	5.72	125 3-	4/0 ACSR	1013	945	726	157	528	23	7	0.05	1.08	19
1516089	1516088	5.72	118 3-	336.4 ACSR	1012	945	725	157	495	22	4	0.00	1.08	0
OC101844	1516089	5.72	118 3-	70-L	1012	945	725	157	495	22	32	0.00	1.08	0
1516090	OC101844	6.25	118 3-	336.4 ACSR	964	898	685	156	495	22	4	0.07	1.15	24
1516091	1516090	6.73	108 3-	4/0 ACSR	912	849	645	154	468	21	6	0.09	1.24	31
1516073	1516091	6.75	20 1-	4 ACSR	0	0	642	154	68	9	7	0.01	1.25	0
OC101845	1516073	6.75	20 1-	REC_35_UNK	0	0	642	154	68	9	26	0.00	1.25	0
1616168	OC101845	8.46	20 1-	4 ACSR	0	0	459	140	68	9	7	0.61	1.86	33
1616084	1616168	9.34	10 1-	6 ACWC	0	0	399	134	50	6	5	0.15	2.01	5
1616085	1616084	9.51	3 1-	4 ACSR	0	0	389	133	7	0	1	0.00	2.01	0
1516092	1516091	7.77	76 3-	4/0 ACSR	818	760	571	151	363	16	5	0.13	1.38	33
1616103	1516092	8.03	2 3-	4/0 ACSR	797	740	555	151	4	0	0	0.00	1.38	0
1516093	1616103	8.04	0 3-	336.4 ACSR	797	740	555	151	0	0	0	0.00	1.38	0
SW120799-A	1516093	8.04	0 3-	Open	797	740	555	151	0	0	0	0.00	1.38	0
1516075	1616103	8.22	2 1-	4 ACSR	0	0	536	149	4	0	0	0.00	1.38	0
1616137	1516092	7.80	51 1-	1/0 ACSR	0	0	569	151	253	34	15	0.02	1.40	5
1616140	1616137	7.94	51 1-	2 ACSR	0	0	557	150	253	34	19	0.14	1.55	31
OC101846	1616140	7.94	51 1-	REC_35_UNK	0	0	557	150	253	34	98	0.00	1.55	0
1616141	OC101846	8.80	51 1-	2 ACSR	0	0	491	145	253	34	19	0.70	2.24	127
1616142	1616141	8.90	25 1-	4 ACSR	0	0	482	145	136	18	13	0.06	2.30	6
1616138	1616142	8.96	13 1-	2 ACSR	0	0	478	144	63	8	5	0.01	2.32	0
OC101860	1616138	8.96	13 1-	REC_25_UNK	0	0	478	144	63	8	34	0.00	2.32	0
1616139	OC101860	9.60	13 1-	2 ACSR	0	0	440	141	63	8	5	0.08	2.40	3
1516120	1516085	5.57	4 1-	4 ACSR	0	0	691	154	16	2	2	0.03	0.76	0
CA100053	1616101	4.44	0 3-	Capacitor	1202	1128	883	161	0	-14	0	0.00	0.40	0
1616100	1616099	4.12	193 3-	4/0 ACSR	1261	1185	934	162	1029	46	14	0.02	0.26	16
SW101714-B	1616100	4.12	193 3-	Closed	1261	1185	934	162	1029	46	0	0.00	0.26	0
SW101714-A	SW101714-B	4.12	193 3-	Closed	1261	1185	934	162	1029	46	0	0.00	0.26	0
1616104	SW101714-A	4.26	193 3-	4/0 ACSR	1235	1160	911	161	1029	46	14	0.06	0.32	45
1616105	1616104	4.30	193 3-	4 ACSR	1217	1144	898	161	1029	46	33	0.08	0.40	74
OC101859	1616105	4.30	193 3-	REC_50_UNK	1217	1144	898	161	1028	46	92	0.00	0.40	0
1616106	OC101859	4.60	193 3-	4 ACSR	1106	1049	821	158	1028	46	33	0.48	0.88	416
1616107	1616106	4.72	83 3-	4 ACSR	1063	1011	791	157	523	23	17	0.12	0.99	55
SW101723-B	1616107	4.72	83 3-	Closed	1063	1011	791	157	523	23	0	0.00	0.99	0
SW101723-A	SW101723-B	4.72	83 3-	Closed	1063	1011	791	157	523	23	0	0.00	0.99	0
1616108	SW101723-A	6.17	83 3-	4 ACSR	725	706	553	145	523	23	17	0.89	1.88	325
SW101726-B	1616108	6.17	45 3-	Closed	725	706	553	145	174	7	0	0.00	1.88	0
SW101726-A	SW101726-B	6.17	45 3-	Closed	725	706	553	145	174	7	0	0.00	1.88	0
1616109	SW101726-A	6.44	45 3-	4 ACSR	683	667	523	142	174	7	6	0.08	1.96	13
1616096	1616109	6.55	40 2-	4 ACSR	0	651	512	142	165	11	8	0.05	2.01	6

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
OC101856	1616096	6.55	32 2-	REC_35_UNK	0	651	512	142	117	7	23	0.00	2.01	0
1616097	OC101856	8.00	32 2-	4 ACSR	0	501	397	131	117	7	6	0.25	2.25	17
1615061	1616097	8.15	2 1-	4 ACSR	0	0	388	130	2	0	0	0.00	2.25	0
1616143	1616106	4.64	68 1-	4 ACSR	0	0	811	158	322	43	31	0.08	0.96	23
OC101854	1616143	4.64	68 1-	REC_35_UNK	0	0	811	158	322	43	124	0.00	0.96	0
1616144	OC101854	4.84	68 1-	4 ACSR	0	0	765	156	322	43	31	0.37	1.32	98
1616145	1616144	4.91	57 1-	2 ACSR	0	0	754	155	277	37	21	0.08	1.40	18
1616146	1616145	6.77	56 1-	4 ACSR	0	0	492	140	270	36	26	1.73	3.13	291
1616147	1616146	6.99	11 1-	6 ACWC	0	0	472	139	36	4	4	0.04	3.17	1
1616136	1616147	7.00	8 1-	4 ACSR	0	0	472	138	30	4	3	0.00	3.17	0
SW100849-B	1616104	4.26	0 3-	Open	1235	1160	911	161	0	0	0	0.00	0.32	0
1516119	1516083	2.81	14 1-	1/0 ACSR	0	0	1303	168	184	25	11	0.13	5.17	19
1516137	1516119	2.95	12 1-	1/0 URD PRI AL	0	0	1252	387	169	23	14	0.11	5.28	16
1516133	1516137	3.16	1 1-	1/0 URD PRI AL	0	0	1182	379	1	0	0	0.00	5.28	0
SW101884-A	1516133	3.16	0 1-	Open	0	0	1182	379	0	0	0	0.00	5.28	0
1516132	1516137	3.32	4 1-	1/0 URD PRI AL	0	0	1135	373	73	10	6	0.06	5.33	3
SW101884-B	1516132	3.32	0 1-	Open	0	0	1135	373	0	0	0	0.00	5.33	0
1516138	1516137	2.96	7 1-	1/0 URD PRI AL	0	0	1249	387	95	13	8	0.00	5.28	0
1516140	1516138	3.22	2 1-	1/0 URD PRI AL	0	0	1164	377	17	2	1	0.01	5.29	0
SW101882-B	1516140	3.22	0 1-	Open	0	0	1164	377	0	0	0	0.00	5.29	0
1516139	1516138	3.53	5 1-	1/0 URD PRI AL	0	0	1075	366	78	10	6	0.10	5.38	5
SW101883-B	1516139	3.53	0 1-	Open	0	0	1075	366	0	0	0	0.00	5.38	0
1516118	1515190	2.22	8 1-	1/0 ACSR	0	0	1584	171	93	12	6	0.00	4.31	0
1516134	1516118	2.25	8 1-	1/0 URD PRI AL	0	0	1564	410	93	12	8	0.02	4.32	1
1516136	1516134	2.93	7 1-	1/0 URD PRI AL	0	0	1267	382	75	10	6	0.11	4.43	5
SW101883-A	1516136	2.93	0 1-	Open	0	0	1267	382	0	0	0	0.00	4.43	0
1516135	1516134	2.36	1 1-	1/0 URD PRI AL	0	0	1511	405	17	2	1	0.00	4.33	0
SW101882-A	1516135	2.36	0 1-	Open	0	0	1511	405	0	0	0	0.00	4.33	0
1515200	1515199	1.06	93 3-	4/0 ACSR	3316	3145	2737	177	556	25	7	0.04	1.39	17
OC101839	1515200	1.06	92 3-	REC_70_UNK	3316	3145	2737	177	551	24	36	0.00	1.39	0
1515201	OC101839	1.49	92 3-	4/0 ACSR	2843	2662	2243	175	551	24	7	0.10	1.49	39
1515152	1515201	1.55	23 1-	2 ACSR	0	0	2166	175	120	16	9	0.03	1.52	3
OC101840	1515152	1.55	23 1-	REC_35_UNK	0	0	2166	175	120	16	46	0.00	1.52	0
1515153	OC101840	1.60	23 1-	2 ACSR	0	0	2107	174	120	16	9	0.02	1.53	1
1515144	1515153	2.44	7 1-	4 ACSR	0	0	1310	166	31	4	3	0.08	1.61	1
1515202	1515201	2.42	62 3-	4/0 ACSR	2156	1985	1601	172	395	17	5	0.11	1.60	27
1515277	1515202	3.34	16 1-	1/0 URD PRI AL	0	0	1227	383	112	15	9	0.21	1.81	14
SW101881-B	1515277	3.34	0 1-	Open	0	0	1227	383	0	0	0	0.00	1.81	0
1515188	1515202	2.85	10 3-	4/0 ACSR	1939	1776	1415	171	64	2	1	0.01	1.61	0
1515151	1515188	3.20	8 1-	4 ACSR	0	0	1222	167	51	6	5	0.05	1.66	2
SW101720-B	1515188	2.85	0 3-	Open	1939	1776	1415	171	0	0	0	0.00	1.61	0
CKT 124 total losses:	\$24,493													

SUB 4, CKT 134

DAVS_134	DAVIS	0.00	365 3-	SBS_99_UNK	5514	5684	5734	180	2704	119	0	0.00	0.00	0
1515169	DAVS_134	0.01	365 3-	4/0 ACSR	5485	5638	5686	180	2704	119	35	0.01	0.01	20
1515274	1515169	0.06	365 3-	4/0 URD PRI AL	5397	5523	5558	476	2704	119	53	0.06	0.07	140
1515170	1515274	0.53	365 3-	4/0 ACSR	4195	4110	3758	178	2703	119	35	0.43	0.50	1005
1515171	1515170	0.58	329 3-	4/0 ACSR	4107	4012	3645	178	2428	107	32	0.04	0.54	79
1515172	1515171	0.88	245 3-	4/0 ACSR	3593	3450	3024	177	1847	81	24	0.16	0.70	270
1515150	1515172	0.93	42 1-	4 ACSR	0	0	2896	176	373	50	36	0.11	0.80	34
1515141	1515150	0.97	39 1-	1/0 ACSR	0	0	2828	176	337	45	20	0.04	0.84	9

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE	PRIOR	MILES	PHS	WIRE	MX 3P	MX LLG	MX LG	MN LG	TOTAL	EQUIV	%	LINE	TOTAL	LINE	
SECT	SECT	CONS		CONSTR-N	FAULT	FAULT	FAULT	FAULT	KW	AMPS	CAP	DROP	DROP	LOSS	
SUB	5 FAYETTE1				5834	5949	6008	180	12699						
SUB	5, CRT 144	2067													
	FAY1_144	FAYETTE1	0.00	693 3-	SBS_99_UNK	5834	5949	6008	180	4531	202	0	0.00	0.00	0
	1415596	FAY1_144	0.15	693 3-	350 MCM URD PRI	5644	5866	5789	475	4531	202	63	0.19	0.19	723
	1415460	1415596	0.49	693 3-	336.4 ACSR	4813	4813	4524	179	4525	202	38	0.43	0.62	1349
	1415465	1415460	0.80	543 3-	336.4 ACSR	4252	4160	3786	178	3694	165	31	0.31	0.93	773
	1415472	1415465	0.87	407 3-	336.4 ACSR	4131	4023	3637	178	2722	122	23	0.06	0.99	110
	1415439	1415472	0.93	200 3-	4/0 ACSR	4024	3907	3505	178	1175	52	16	0.02	1.01	20
	SW101488-A	1415439	0.93	164 3-	Closed	4024	3907	3505	178	934	42	0	0.00	1.01	0
	SW101488-B	SW101488-A	0.93	164 3-	Closed	4024	3907	3505	178	934	42	0	0.00	1.01	0
	1415474	SW101488-B	0.98	164 3-	4/0 ACSR	3920	3793	3378	178	934	42	12	0.02	1.03	15
	1415532	1415474	1.12	58 1-	1/0 ACSR	0	0	3087	177	345	46	20	0.09	1.12	19
	1415533	1415532	1.12	18 1-	4 ACSR	0	0	3068	177	119	16	12	0.00	1.13	0
	1415534	1415533	1.28	14 1-	1/0 ACSR	0	0	2784	176	98	13	6	0.02	1.15	0
	SW101570-A	1415534	1.28	0 1-	Open	0	0	2784	176	0	0	0	0.00	1.15	0
	1415475	1415474	1.04	96 3-	4/0 ACSR	3828	3694	3268	178	538	24	7	0.01	1.04	4
	1415427	1415475	1.20	85 3-	1/0 ACSR	3522	3361	2935	177	464	20	9	0.05	1.09	15
	1415428	1415427	1.23	25 3-	1/0 ACSR	3471	3307	2882	177	156	7	3	0.00	1.09	0
	1415558	1415428	1.25	20 3-	1/0 URD PRI AL	3444	3282	2859	453	119	5	3	0.00	1.10	0
	1415545	1415558	1.33	20 1-	1/0 ACSR	0	0	2727	176	119	16	7	0.02	1.11	1
	1415651	1415545	1.34	4 1-	1/0 URD PRI AL	0	0	2718	450	24	3	2	0.00	1.11	0
	SW101569-B	1415651	1.34	0 1-	Open	0	0	2718	450	0	0	0	0.00	1.11	0
	1415546	1415545	1.35	4 1-	1/0 ACSR	0	0	2690	176	19	2	1	0.00	1.11	0
	SW101570-B	1415546	1.35	0 1-	Open	0	0	2690	176	0	0	0	0.00	1.11	0
	1415429	1415558	1.29	0 3-	1/0 ACSR	3377	3211	2791	176	0	0	0	0.00	1.10	0
	SW101434-A	1415429	1.29	0 3-	Open	3377	3211	2791	176	0	0	0	0.00	1.10	0
	1415650	1415427	1.34	20 1-	1/0 URD PRI AL	0	0	2727	447	105	14	8	0.03	1.12	2
	SW101569-A	1415650	1.34	0 1-	Open	0	0	2727	447	0	0	0	0.00	1.12	0
	1415473	1415472	1.11	207 3-	336.4 ACSR	3787	3646	3232	178	1547	69	13	0.10	1.09	107
	1415370	1415473	1.15	200 3-	336.4 ACSR	3737	3592	3175	178	1391	62	12	0.01	1.10	14
	1415371	1415370	1.28	161 3-	336.4 ACSR	3567	3409	2978	177	1060	47	9	0.04	1.14	30
	1415372	1415371	1.41	156 3-	4/0 ACSR	3396	3230	2788	177	1027	46	14	0.05	1.19	38
	1415652	1415372	1.41	21 1-	1/0 URD PRI AL	0	0	2782	455	142	19	11	0.00	1.20	0
	1415653	1415652	1.61	21 1-	1/0 URD PRI AL	0	0	2528	444	142	19	11	0.06	1.26	5
	1415373	1415372	1.46	126 3-	4/0 ACSR	3327	3159	2714	177	809	36	11	0.02	1.21	11
	1415552	1415373	1.64	35 1-	1/0 URD PRI AL	0	0	2492	444	167	22	13	0.06	1.28	6
	1415415	1415373	1.56	91 3-	4/0 ACSR	3206	3034	2585	176	641	28	9	0.03	1.24	12
	1415438	1415415	1.59	0 3-	1/0 ACSR	3158	2983	2538	176	0	0	0	0.00	1.24	0
	SW101434-B	1415438	1.59	0 3-	Open	3158	2983	2538	176	0	0	0	0.00	1.24	0
	1415416	1415415	1.94	83 3-	1/0 ACSR	2717	2528	2123	175	597	26	12	0.15	1.38	64
	1415437	1415416	1.96	54 3-	1/0 ACSR	2701	2512	2109	174	394	17	8	0.00	1.39	1
	OC101491	1415437	1.96	49 3-	REC_50_UNK	2701	2512	2109	174	365	16	33	0.00	1.39	0
	1415597	OC101491	1.97	49 3-	1/0 URD PRI AL	2690	2502	2101	437	365	16	10	0.00	1.39	1
	SW101442-A	1415597	1.97	49 3-	Closed	2690	2502	2101	437	365	16	0	0.00	1.39	0
	SW101442-B	SW101442-A	1.97	49 3-	Closed	2690	2502	2101	437	365	16	0	0.00	1.39	0
	1415598	SW101442-B	2.06	49 3-	1/0 URD PRI AL	2617	2435	2048	433	365	16	10	0.03	1.42	10
	1416021	1415598	2.11	48 3-	1/0 ACSR	2566	2384	2003	174	364	16	7	0.01	1.43	4
	1416031	1416021	2.32	46 3-	1/0 URD PRI AL	2402	2235	1883	423	352	15	9	0.07	1.50	21
	1416033	1416031	2.50	1 3-	1/0 URD PRI AL	2272	2117	1787	416	49	2	1	0.01	1.51	0
	1416034	1416033	2.54	1 1-	1/0 URD PRI AL	0	0	1760	415	49	6	4	0.01	1.52	0
	SW101440-A	1416034	2.54	1 1-	Closed	0	0	1760	415	49	6	0	0.00	1.52	0
	SW101440-B	SW101440-A	2.54	1 1-	Closed	0	0	1760	415	49	6	0	0.00	1.52	0

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1416035	SW101440-B	2.60	1 1-	1/0 URD PRI AL	0	0	1722	412	49	6	4	0.01	1.52	0
1416032	1416031	2.38	45 3-	1/0 URD PRI AL	2357	2194	1850	421	303	13	8	0.02	1.52	5
1416027	1416032	2.39	15 1-	1/0 URD PRI AL	0	0	1843	421	86	11	7	0.00	1.52	0
1416019	1416027	2.60	15 1-	4 ACSR	0	0	1625	170	86	11	8	0.10	1.63	7
1416028	1416019	2.76	14 1-	1/0 URD PRI AL	0	0	1537	400	74	10	6	0.05	1.67	3
1416020	1416028	2.79	12 1-	4 ACSR	0	0	1512	168	69	9	7	0.01	1.68	0
1416026	1416020	3.14	3 1-	1/0 URD PRI AL	0	0	1348	384	22	2	2	0.02	1.70	0
SW101575-A	1416026	3.14	0 1-	Open	0	0	1348	384	0	0	0	0.00	1.70	0
1416029	1416020	3.31	9 1-	1/0 URD PRI AL	0	0	1277	378	47	6	4	0.09	1.77	3
1416025	1416029	3.74	5 1-	1/0 URD PRI AL	0	0	1126	362	33	4	3	0.03	1.80	0
1416024	1416029	3.32	0 1-	1/0 URD PRI AL	0	0	1275	378	0	0	0	0.00	1.77	0
SW101575-B	1416024	3.32	0 1-	Open	0	0	1275	378	0	0	0	0.00	1.77	0
1416036	1416032	2.45	30 1-	1/0 URD PRI AL	0	0	1804	418	216	29	17	0.06	1.58	12
1416023	1416036	2.90	8 1-	4 ACSR	0	0	1402	167	61	8	6	0.08	1.66	3
1416022	1416036	3.18	22 1-	4 ACSR	0	0	1222	164	155	21	15	0.35	1.92	31
1416030	1416021	2.17	1 1-	1/0 URD PRI AL	0	0	1953	429	0	0	0	0.00	1.43	0
1415436	1415416	1.96	0 3-	1/0 ACSR	2705	2516	2112	174	0	0	0	0.00	1.38	0
SW101437-B	1415436	1.96	0 3-	Open	2705	2516	2112	174	0	0	0	0.00	1.38	0
1415543	1415370	1.20	34 1-	4 ACSR	0	0	3031	177	293	39	28	0.09	1.19	22
1415544	1415543	1.32	25 1-	1/0 ACSR	0	0	2819	176	262	35	15	0.05	1.24	7
1415635	1415544	1.33	2 1-	1/0 URD PRI AL	0	0	2803	451	15	1	1	0.00	1.24	0
1415542	1415473	1.11	1 1-	4 ACSR	0	0	3215	178	61	8	6	0.00	1.09	0
1415999	1415542	1.11	1 1-	Consumer	0	0	3215	178	61	8	0	0.00	1.09	0
1415466	1415465	0.99	131 3-	4/0 ACSR	3888	3760	3335	178	790	35	10	0.06	0.99	34
1415468	1415466	1.14	92 3-	4/0 ACSR	3647	3500	3055	177	591	26	8	0.03	1.02	13
1415471	1415468	1.20	31 3-	4/0 ACSR	3547	3394	2942	177	178	7	2	0.00	1.03	0
1415527	1415471	1.32	21 1-	4 ACSR	0	0	2663	176	114	15	11	0.04	1.07	3
1415469	1415468	1.33	39 3-	4/0 ACSR	3372	3210	2752	177	286	12	4	0.01	1.03	2
1415573	1415469	1.35	2 1-	1/0 URD PRI AL	0	0	2721	452	12	1	1	0.00	1.03	0
SW101573-B	1415573	1.35	0 1-	Open	0	0	2721	452	0	0	0	0.00	1.03	0
1415470	1415469	1.35	0 3-	1/0 ACSR	3339	3175	2718	177	0	0	0	0.00	1.03	0
SW101437-A	1415470	1.35	0 3-	Open	3339	3175	2718	177	0	0	0	0.00	1.03	0
1415467	1415466	1.00	27 3-	1/0 ACSR	3869	3738	3313	178	112	5	2	0.00	0.99	0
1415634	1415467	1.19	20 1-	1/0 URD PRI AL	0	0	2983	451	87	11	7	0.03	1.02	2
SW101574-B	1415634	1.19	0 1-	Open	0	0	2983	451	0	0	0	0.00	1.02	0
1415646	1415467	1.04	3 1-	1/0 URD PRI AL	0	0	3229	458	15	2	1	0.00	0.99	0
SW101571-A	1415646	1.04	0 1-	Open	0	0	3229	458	0	0	0	0.00	0.99	0
1415588	1415467	1.10	4 1-	1/0 URD PRI AL	0	0	3130	455	10	1	1	0.00	0.99	0
SW101572-A	1415588	1.10	0 1-	Open	0	0	3130	455	0	0	0	0.00	0.99	0
1415461	1415460	0.68	142 3-	4/0 ACSR	4367	4297	3913	178	775	34	10	0.06	0.68	35
1415645	1415461	0.79	4 1-	1/0 URD PRI AL	0	0	3648	460	26	3	2	0.01	0.69	0
SW101428-B	1415645	0.79	0 1-	Open	0	0	3648	460	0	0	0	0.00	0.69	0
1415587	1415461	0.70	3 1-	1/0 URD PRI AL	0	0	3882	465	17	2	1	0.00	0.68	0
SW101430-B	1415587	0.70	0 1-	Open	0	0	3882	465	0	0	0	0.00	0.68	0
1415462	1415461	0.84	121 3-	4/0 ACSR	4056	3948	3519	178	674	30	9	0.04	0.72	17
1415464	1415462	0.85	75 3-	1/0 ACSR	4035	3925	3495	178	430	19	8	0.00	0.72	0
1415629	1415464	1.02	5 1-	1/0 URD PRI AL	0	0	3152	452	22	2	2	0.01	0.73	0
SW101574-A	1415629	1.02	0 1-	Open	0	0	3152	452	0	0	0	0.00	0.73	0
1415567	1415464	1.08	41 1-	1/0 URD PRI AL	0	0	3046	449	277	37	22	0.25	0.98	59
1415586	1415567	1.30	14 1-	1/0 URD PRI AL	0	0	2683	438	114	15	9	0.05	1.03	4
SW101573-A	1415586	1.30	0 1-	Open	0	0	2683	438	0	0	0	0.00	1.03	0
1415572	1415567	1.25	22 1-	1/0 URD PRI AL	0	0	2758	441	123	16	10	0.04	1.02	3

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW101572-B	1415572	1.25	0 1-	Open	0	0	2758	441	0	0	0	0.00	1.02	0
1415644	1415464	1.15	29 1-	1/0 URD PRI AL	0	0	2920	446	131	17	10	0.08	0.81	7
SW101571-B	1415644	1.15	0 1-	Open	0	0	2920	446	0	0	0	0.00	0.81	0
1415463	1415462	0.88	11 3-	4/0 ACSR	3968	3852	3413	178	59	2	1	0.00	0.72	0
1415628	1415463	0.93	2 1-	1/0 URD PRI AL	0	0	3320	458	9	1	1	0.00	0.72	0
SW101426-B	1415628	0.93	0 1-	Open	0	0	3320	458	0	0	0	0.00	0.72	0
1415566	1415463	0.94	7 1-	1/0 URD PRI AL	0	0	3301	458	43	5	3	0.01	0.73	0
SW101427-B	1415566	0.94	0 1-	Open	0	0	3301	458	0	0	0	0.00	0.73	0
1415643	1415463	1.02	2 1-	1/0 URD PRI AL	0	0	3153	454	7	0	1	0.00	0.72	0
SW101425-B	1415643	1.02	0 1-	Open	0	0	3153	454	0	0	0	0.00	0.72	0
1415627	1415461	0.77	7 1-	1/0 URD PRI AL	0	0	3713	461	35	4	3	0.01	0.69	0
SW101429-B	1415627	0.77	0 1-	Open	0	0	3713	461	0	0	0	0.00	0.69	0
CKT 144 total losses:		\$3,627												
SUB 5, CKT 164														
FAY1_164	FAYETTE1	0.00	851 3-	SBS_99_UNK	5834	5949	6008	180	4968	222	0	0.00	0.00	0
1415623	FAY1_164	0.10	851 3-	500 MCM URD PRI	5725	5822	5907	477	4968	222	58	0.13	0.13	522
1415391	1415623	0.29	851 3-	336.4 ACSR	5218	5209	5070	179	4963	222	42	0.27	0.40	919
1415392	1415391	0.97	851 3-	4/0 ACSR	3715	3550	3097	177	4956	222	65	1.43	1.83	5230
SW101497-A	1415392	0.97	843 3-	closed	3715	3550	3097	177	4859	220	0	0.00	1.83	0
SW101497-B	SW101497-A	0.97	843 3-	closed	3715	3550	3097	177	4859	220	0	0.00	1.83	0
1415377	SW101497-B	0.98	843 3-	4/0 ACSR	3704	3538	3085	177	4859	220	65	0.01	1.84	51
1415396	1415377	1.09	712 3-	336.4 ACSR	3562	3388	2926	177	3932	178	34	0.13	1.97	349
1415399	1415396	1.27	614 3-	336.4 ACSR	3370	3186	2717	177	3254	147	28	0.16	2.13	356
1415451	1415399	1.29	286 3-	4/0 ACSR	3336	3152	2682	177	1187	53	16	0.01	2.14	11
1415452	1415451	1.31	262 3-	4/0 ACSR	3311	3126	2656	176	1120	50	15	0.01	2.15	8
SW101494-A	1415452	1.31	262 3-	closed	3311	3126	2656	176	1120	50	0	0.00	2.15	0
SW101494-B	SW101494-A	1.31	262 3-	closed	3311	3126	2656	176	1120	50	0	0.00	2.15	0
1415453	SW101494-B	1.35	262 3-	4/0 ACSR	3258	3072	2601	176	1120	50	15	0.02	2.17	17
1415454	1415453	1.41	238 3-	4/0 ACSR	3184	2996	2526	176	958	43	13	0.02	2.20	18
1415626	1415454	1.43	0 1-	1/0 URD PRI AL	0	0	2512	449	0	0	0	0.00	2.20	0
SW101584-A	1415626	1.43	0 1-	Open	0	0	2512	449	0	0	0	0.00	2.20	0
1415455	1415454	1.56	219 3-	4/0 ACSR	3014	2825	2357	176	907	41	12	0.06	2.25	37
1415636	1415455	1.73	17 1-	1/0 URD PRI AL	0	0	2198	438	99	13	8	0.03	2.29	2
SW101586-B	1415636	1.73	0 1-	Open	0	0	2198	438	0	0	0	0.00	2.29	0
1415456	1415455	1.59	163 3-	4/0 ACSR	2986	2797	2330	176	620	28	8	0.01	2.26	3
1415457	1415456	1.62	106 3-	4/0 ACSR	2954	2764	2298	176	487	22	7	0.01	2.26	2
1415458	1415457	1.65	55 3-	4/0 ACSR	2927	2737	2272	175	169	7	2	0.00	2.27	0
1415609	1415458	1.93	34 1-	1/0 URD PRI AL	0	0	2024	430	77	10	6	0.05	2.31	2
SW101583-B	1415609	1.93	0 1-	Open	0	0	2024	430	0	0	0	0.00	2.31	0
1415459	1415458	1.66	21 3-	4/0 ACSR	2915	2725	2260	175	92	4	1	0.00	2.27	0
1415565	1415459	1.83	21 1-	1/0 URD PRI AL	0	0	2112	435	92	12	7	0.03	2.30	2
SW101585-A	1415565	1.83	0 1-	Open	0	0	2112	435	0	0	0	0.00	2.30	0
1415365	1415457	1.77	50 1-	1/0 ACSR	0	0	2136	175	314	42	19	0.10	2.36	21
1415571	1415365	1.93	20 1-	1/0 URD PRI AL	0	0	2011	432	144	19	12	0.05	2.41	4
SW101587-B	1415571	1.93	0 1-	Open	0	0	2011	432	0	0	0	0.00	2.41	0
1415625	1415456	1.97	57 1-	1/0 URD PRI AL	0	0	1991	427	134	18	11	0.11	2.36	9
SW101582-B	1415625	1.97	0 1-	Open	0	0	1991	427	0	0	0	0.00	2.36	0
1415608	1415455	1.71	17 1-	1/0 URD PRI AL	0	0	2219	439	105	14	8	0.03	2.28	2
SW101586-A	1415608	1.71	0 1-	Open	0	0	2219	439	0	0	0	0.00	2.28	0
1415570	1415454	1.66	18 1-	1/0 URD PRI AL	0	0	2263	437	45	6	4	0.02	2.22	0
SW101581-B	1415570	1.66	0 1-	Open	0	0	2263	437	0	0	0	0.00	2.22	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1415607	1415453	1.53	21 1-	1/0 URD PRI AL	0	0	2406	442	136	18	11	0.05	2.22	4
SW101584-B	1415607	1.53	0 1-	Open	0	0	2406	442	0	0	0	0.00	2.22	0
SW101279-B	1415451	1.29	0 3-	Open	3336	3152	2682	177	0	0	0	0.00	2.14	0
1415423	1415399	1.30	313 3-	4/0 ACSR	3327	3143	2673	177	1967	89	26	0.03	2.16	40
SW101523-A	1415423	1.30	313 3-	Closed	3327	3143	2673	177	1967	89	0	0.00	2.16	0
SW101523-B	SW101523-A	1.30	313 3-	Closed	3327	3143	2673	177	1967	89	0	0.00	2.16	0
1415424	SW101523-B	1.53	313 3-	4/0 ACSR	3046	2856	2388	176	1967	89	26	0.17	2.33	228
1415430	1415424	1.58	233 3-	1/0 ACSR	2986	2795	2333	176	1405	63	28	0.05	2.37	56
1415684	1415430	1.67	24 1-	1/0 URD PRI AL	0	0	2250	441	91	12	7	0.02	2.39	0
SW101580-B	1415684	1.67	0 1-	Open	0	0	2250	441	0	0	0	0.00	2.39	0
1415431	1415430	1.63	204 3-	1/0 ACSR	2927	2734	2279	175	1272	57	25	0.04	2.42	47
1415683	1415431	1.65	8 1-	1/0 URD PRI AL	0	0	2255	442	32	4	3	0.00	2.42	0
SW101580-A	1415683	1.65	0 1-	Open	0	0	2255	442	0	0	0	0.00	2.42	0
1415432	1415431	1.67	189 3-	1/0 ACSR	2872	2678	2230	175	1196	54	24	0.04	2.46	36
1415538	1415432	1.73	51 2-	1/0 ACSR	0	2603	2161	175	275	18	8	0.02	2.47	4
1415550	1415538	1.84	38 1-	1/0 ACSR	0	0	2051	174	200	27	12	0.03	2.51	4
1415433	1415432	1.71	111 3-	1/0 ACSR	2827	2632	2189	175	731	33	14	0.02	2.48	13
OC101529	1415433	1.71	111 3-	REC_70_UNK	2827	2632	2189	175	731	33	48	0.00	2.48	0
1415434	OC101529	1.87	111 3-	1/0 ACSR	2646	2450	2030	174	731	33	14	0.07	2.55	37
1415435	1415434	1.94	45 3-	1/0 ACSR	2576	2379	1969	174	292	13	6	0.01	2.56	3
1415368	1415435	1.95	40 1-	4 ACSR	0	0	1957	174	258	35	25	0.02	2.58	3
1415364	1415368	2.04	12 1-	4 ACSR	0	0	1849	173	95	13	9	0.03	2.61	2
1415369	1415368	2.04	24 1-	4 ACSR	0	0	1856	173	135	18	13	0.04	2.61	3
1415526	1415434	2.10	17 1-	1/0 ACSR	0	0	1841	173	113	15	7	0.04	2.59	2
1415400	1415399	1.28	0 3-	336.4 ACSR	3353	3169	2700	177	0	0	0	0.00	2.13	0
OC101500	1415400	1.28	0 3-	REC_600_UNK	3353	3169	2700	177	0	0	0	0.00	2.13	0
1415397	1415396	1.13	87 3-	1/0 ACSR	3506	3328	2869	177	599	27	12	0.01	1.99	7
OC101526	1415397	1.13	87 3-	REC_50_UNK	3506	3328	2869	177	598	27	14	0.00	1.99	0
1415398	OC101526	1.23	87 3-	1/0 ACSR	3333	3147	2696	176	598	27	12	0.04	2.03	19
1415525	1415398	1.42	30 1-	1/0 ACSR	0	0	2430	175	207	28	12	0.06	2.08	6
1415367	1415398	1.40	37 1-	1/0 ACSR	0	0	2444	175	246	33	15	0.06	2.09	8
1415378	1415377	1.16	131 3-	4/0 ACSR	3436	3259	2793	177	927	42	12	0.07	1.91	45
1415395	1415378	1.23	33 3-	4/0 ACSR	3336	3155	2687	176	254	11	3	0.01	1.92	1
1415522	1415395	1.44	27 1-	4 ACSR	0	0	2292	174	202	27	20	0.13	2.05	15
1415520	1415378	1.21	82 2-	1/0 ACSR	0	3160	2702	176	564	38	17	0.03	1.94	12
1415363	1415520	1.52	41 1-	1/0 ACSR	0	0	2291	175	304	41	18	0.13	2.08	22
CKT 164 total losses:	\$8,182													
SUB 5, CKT 174														
FAY1_174	FAYETTE1	0.00	523 3-	SBS_99_UNK	5834	5949	6008	180	3200	141	0	0.00	0.00	0
1415551	FAY1_174	0.02	523 3-	500 MCM URD PRI	5817	5929	5993	478	3200	141	37	0.01	0.01	32
1415379	1415551	0.62	523 3-	336.4 ACSR	4427	4295	3975	179	3200	141	27	0.45	0.46	1153
1415409	1415379	0.65	83 3-	4/0 ACSR	4350	4212	3875	179	504	22	7	0.01	0.47	3
1415665	1415409	0.89	31 1-	1/0 URD PRI AL	0	0	3374	456	196	26	16	0.09	0.56	11
SW101594-B	1415665	0.89	0 1-	Open	0	0	3374	456	0	0	0	0.00	0.56	0
1415410	1415409	0.66	26 3-	1/0 ACSR	4336	4197	3858	179	144	6	3	0.00	0.47	0
SW101532-A	1415410	0.66	26 3-	Closed	4336	4197	3858	179	144	6	0	0.00	0.47	0
SW101532-B	SW101532-A	0.66	26 3-	Closed	4336	4197	3858	179	144	6	0	0.00	0.47	0
1415411	SW101532-B	0.82	26 3-	1/0 ACSR	3974	3805	3431	178	144	6	3	0.01	0.48	2
1415412	1415411	0.86	11 3-	1/0 ACSR	3883	3708	3329	178	56	2	1	0.00	0.48	0
1415640	1415412	0.86	0 1-	1/0 URD PRI AL	0	0	3323	460	0	0	0	0.00	0.48	0
SW101397-B	1415640	0.86	0 1-	Open	0	0	3323	460	0	0	0	0.00	0.48	0

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 6	FAYETTE2		2391		5940	6059	6120	180	9200					
SUB 6, CKT 104														
FAY2_104	FAYETTE2	0.00	490 3-	SBS_99_UNK	5940	6059	6120	180	2426	108	0	0.00	0.00	0
1415606	FAY2_104	0.07	490 3-	350 MCM URD PRI	5848	5999	6017	477	2426	108	34	0.05	0.05	96
1415447	1415606	0.20	490 3-	4/0 ACSR	5421	5483	5315	179	2425	108	32	0.13	0.17	228
1415421	1415447	0.41	407 3-	4/0 ACSR	4799	4753	4403	179	2046	91	27	0.19	0.36	281
1415445	1415421	0.42	3 3-	4 ACSR	4762	4707	4353	179	196	8	6	0.00	0.36	0
OC1547456399	1415445	0.42	3 3-	_DefaultBayEqui	4762	4707	4353	179	196	8	0	0.00	0.36	0
1415605	OC1547456399	0.47	1 3-	1/0 URD PRI AL	4659	4616	4248	466	162	7	4	0.01	0.37	0
1415997	1415605	0.47	1 3-	Consumer	4659	4616	4248	466	162	7	0	0.00	0.37	0
1415604	OC1547456399	0.45	2 3-	1/0 URD PRI AL	4695	4648	4285	467	34	1	1	0.00	0.36	0
1415585	1415604	0.50	1 1-	1/0 URD PRI AL	0	0	4144	464	0	0	0	0.00	0.36	0
1415422	1415421	0.49	404 3-	4/0 ACSR	4608	4535	4147	178	1848	82	24	0.06	0.42	81
1415515	1415422	0.52	380 3-	4/0 ACSR	4531	4447	4046	178	1713	76	23	0.02	0.44	30
1415541	1415515	0.53	58 2-	1/0 ACSR	0	4416	4013	178	188	12	5	0.00	0.45	0
1415709	1415541	0.86	26 1-	1/0 URD PRI AL	0	0	3233	448	84	11	7	0.06	0.50	3
SW101394-B	1415709	0.86	0 1-	Open	0	0	3233	448	0	0	0	0.00	0.50	0
1415699	1415541	0.77	32 1-	1/0 URD PRI AL	0	0	3434	453	103	13	8	0.05	0.50	3
SW101393-B	1415699	0.77	0 1-	Open	0	0	3434	453	0	0	0	0.00	0.50	0
1415516	1415515	0.55	322 3-	4/0 ACSR	4452	4359	3944	178	1525	68	20	0.02	0.47	25
1415519	1415516	0.57	316 3-	4/0 ACSR	4415	4317	3897	178	1505	67	20	0.01	0.48	12
1415698	1415519	0.91	36 1-	1/0 URD PRI AL	0	0	3127	447	195	26	15	0.14	0.62	16
SW101391-B	1415698	0.91	0 1-	Open	0	0	3127	447	0	0	0	0.00	0.62	0
1415708	1415519	0.81	14 1-	1/0 URD PRI AL	0	0	3352	452	73	9	6	0.04	0.51	2
SW101392-B	1415708	0.81	0 1-	Open	0	0	3352	452	0	0	0	0.00	0.51	0
1415584	1415519	0.85	31 1-	1/0 URD PRI AL	0	0	3266	450	157	21	12	0.09	0.57	8
SW101390-B	1415584	0.85	0 1-	Open	0	0	3266	450	0	0	0	0.00	0.57	0
1415440	1415519	0.58	235 3-	4/0 ACSR	4403	4303	3882	178	1080	48	14	0.00	0.48	2
SW101276-B	1415440	0.58	235 3-	Closed	4403	4303	3882	178	1080	48	0	0.00	0.48	0
SW101276-A	SW101276-B	0.58	235 3-	Closed	4403	4303	3882	178	1080	48	0	0.00	0.48	0
1415441	SW101276-A	0.72	235 3-	4/0 ACSR	4099	3969	3510	178	1080	48	14	0.06	0.54	47
1415697	1415441	0.75	5 1-	1/0 URD PRI AL	0	0	3463	460	27	3	2	0.00	0.54	0
SW101595-A	1415697	0.75	0 1-	Open	0	0	3463	460	0	0	0	0.00	0.54	0
1415442	1415441	0.77	201 3-	4/0 ACSR	4002	3863	3396	178	884	39	12	0.02	0.56	12
1415583	1415442	0.79	0 1-	1/0 URD PRI AL	0	0	3370	460	0	0	0	0.00	0.56	0
SW101587-A	1415583	0.79	0 1-	Open	0	0	3370	460	0	0	0	0.00	0.56	0
1415696	1415442	0.89	9 1-	1/0 URD PRI AL	0	0	3169	454	51	6	4	0.01	0.57	0
SW101396-A	1415696	0.89	0 1-	Open	0	0	3169	454	0	0	0	0.00	0.57	0
1415443	1415442	0.98	186 3-	4/0 ACSR	3645	3482	2994	177	804	36	11	0.06	0.62	30
1415694	1415443	1.32	19 1-	1/0 URD PRI AL	0	0	2521	438	98	13	8	0.08	0.69	5
1415695	1415694	1.36	3 1-	1/0 URD PRI AL	0	0	2466	436	13	1	1	0.00	0.69	0
SW101397-A	1415695	1.36	0 1-	Open	0	0	2466	436	0	0	0	0.00	0.69	0
SW101396-B	1415694	1.32	0 1-	Open	0	0	2521	438	0	0	0	0.00	0.69	0
1415444	1415443	1.09	29 3-	4/0 ACSR	3484	3312	2821	177	106	4	1	0.00	0.62	0
SW101279-A	1415444	1.09	0 3-	Open	3484	3312	2821	177	0	0	0	0.00	0.62	0
1415705	1415443	1.11	44 1-	1/0 URD PRI AL	0	0	2810	449	162	21	13	0.08	0.69	10
1415707	1415705	1.22	8 1-	1/0 URD PRI AL	0	0	2642	443	37	5	3	0.01	0.70	0
SW101593-A	1415707	1.22	0 1-	Open	0	0	2642	443	0	0	0	0.00	0.70	0
1415706	1415705	1.28	26 1-	1/0 URD PRI AL	0	0	2567	440	101	13	8	0.04	0.73	2
SW101399-A	1415706	1.28	0 1-	Open	0	0	2567	440	0	0	0	0.00	0.73	0
1415582	1415443	1.22	29 1-	1/0 URD PRI AL	0	0	2644	443	122	16	10	0.06	0.68	4
SW101398-A	1415582	1.22	0 1-	Open	0	0	2644	443	0	0	0	0.00	0.68	0

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1415517	1415516	0.60	6 3-	4/0 ACSR	4346	4241	3811	178	20	0	0	0.00	0.47	0
1415518	1415517	0.79	0 3-	4/0 ACSR	3977	3836	3367	177	0	0	0	0.00	0.47	0
1415540	1415517	0.61	6 2-	1/0 ACSR	0	4219	3788	178	20	1	1	0.00	0.47	0
1415693	1415540	0.81	4 1-	1/0 URD PRI AL	0	0	3336	453	13	1	1	0.01	0.47	0
SW101393-A	1415693	0.81	0 1-	Open	0	0	3336	453	0	0	0	0.00	0.47	0
1415704	1415540	0.62	2 1-	1/0 URD PRI AL	0	0	3771	464	6	0	0	0.00	0.47	0
SW101394-A	1415704	0.62	0 1-	Open	0	0	3771	464	0	0	0	0.00	0.47	0
1415692	1415422	0.75	24 1-	1/0 URD PRI AL	0	0	3482	453	134	18	11	0.07	0.49	6
SW101387-B	1415692	0.75	0 1-	Open	0	0	3482	453	0	0	0	0.00	0.49	0
1415448	1415447	0.20	83 3-	1/0 ACSR	5404	5464	5290	179	377	16	7	0.00	0.18	0
1415691	1415448	0.23	2 1-	1/0 URD PRI AL	0	0	5178	472	10	1	1	0.00	0.18	0
SW101387-A	1415691	0.23	0 1-	Open	0	0	5178	472	0	0	0	0.00	0.18	0
1415449	1415448	0.37	81 3-	1/0 ACSR	4830	4786	4480	178	367	16	7	0.04	0.22	13
1415486	1415449	0.43	69 3-	1/0 ACSR	4651	4579	4247	178	311	13	6	0.01	0.23	3
1415487	1415486	0.46	11 3-	1/0 ACSR	4568	4484	4142	178	55	2	1	0.00	0.23	0
1415690	1415487	0.46	5 1-	1/0 URD PRI AL	0	0	4121	464	26	3	2	0.00	0.23	0
SW101391-A	1415690	0.46	0 1-	Open	0	0	4121	464	0	0	0	0.00	0.23	0
1415703	1415487	0.51	6 1-	1/0 URD PRI AL	0	0	3984	461	29	3	2	0.00	0.24	0
SW101392-A	1415703	0.51	0 1-	Open	0	0	3984	461	0	0	0	0.00	0.24	0
1415689	1415486	0.72	27 1-	1/0 URD PRI AL	0	0	3440	450	115	15	9	0.07	0.30	5
SW101389-B	1415689	0.72	0 1-	Open	0	0	3440	450	0	0	0	0.00	0.30	0
1415702	1415486	0.68	25 1-	1/0 URD PRI AL	0	0	3555	452	115	15	9	0.06	0.29	4
SW101388-B	1415702	0.68	0 1-	Open	0	0	3555	452	0	0	0	0.00	0.29	0
1415581	1415449	0.40	3 1-	1/0 URD PRI AL	0	0	4391	466	10	1	1	0.00	0.22	0
SW101390-A	1415581	0.40	0 1-	Open	0	0	4391	466	0	0	0	0.00	0.22	0
CKT 104 total losses:		\$928												
SUB 6, CKT 114														
FAY2_114	FAYETTE2	0.00	690 3-	SBS_99_UNK	5940	6059	6120	180	2375	106	0	0.00	0.00	0
1415568	FAY2_114	0.03	690 3-	500 MCM URD PRI	5907	6021	6090	478	2375	106	28	0.02	0.02	34
1415413	1415568	0.03	690 3-	1/0 ACSR	5886	5986	6054	180	2374	106	46	0.01	0.03	19
1415504	1415413	0.09	53 3-	336.4 ACSR	5706	5748	5761	180	148	6	1	0.00	0.03	0
1415673	1415504	0.57	26 1-	1/0 URD PRI AL	0	0	3896	451	80	10	6	0.08	0.11	4
SW101406-A	1415673	0.57	0 1-	Open	0	0	3896	451	0	0	0	0.00	0.11	0
1415505	1415504	0.13	23 3-	336.4 ACSR	5603	5626	5599	180	55	2	0	0.00	0.03	0
1415713	1415505	0.14	4 1-	1/0 URD PRI AL	0	0	5572	476	10	1	1	0.00	0.03	0
SW101405-A	1415713	0.14	0 1-	Open	0	0	5572	476	0	0	0	0.00	0.03	0
1415506	1415505	0.22	19 3-	336.4 ACSR	5353	5332	5216	179	45	2	0	0.00	0.03	0
1415599	1415506	0.25	3 1-	1/0 URD PRI AL	0	0	5126	473	13	1	1	0.00	0.03	0
SW101407-A	1415599	0.25	0 1-	Open	0	0	5126	473	0	0	0	0.00	0.03	0
1415672	1415506	0.23	4 1-	1/0 URD PRI AL	0	0	5195	475	8	1	1	0.00	0.03	0
SW101406-B	1415672	0.23	0 1-	Open	0	0	5195	475	0	0	0	0.00	0.03	0
1415414	1415413	0.12	637 3-	336.4 ACSR	5637	5666	5652	180	2227	99	19	0.05	0.08	82
1415671	1415414	0.17	3 1-	1/0 URD PRI AL	0	0	5439	473	9	1	1	0.00	0.08	0
SW101404-A	1415671	0.17	0 1-	Open	0	0	5439	473	0	0	0	0.00	0.08	0
1415489	1415414	0.26	634 3-	336.4 ACSR	5268	5233	5091	179	2217	99	19	0.09	0.17	129
1415490	1415489	0.37	601 3-	336.4 ACSR	5000	4925	4708	179	2096	93	18	0.07	0.23	96
1415670	1415490	0.42	2 1-	1/0 URD PRI AL	0	0	4547	470	7	0	1	0.00	0.23	0
SW101403-B	1415670	0.42	0 1-	Open	0	0	4547	470	0	0	0	0.00	0.23	0
1415491	1415490	0.39	589 3-	336.4 ACSR	4958	4878	4650	179	2060	92	17	0.01	0.24	15
1415492	1415491	0.41	586 3-	4/0 ACSR	4909	4824	4581	179	2053	91	27	0.02	0.26	24
1415500	1415492	0.47	137 3-	4/0 ACSR	4751	4650	4361	179	612	27	8	0.02	0.27	7

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1415602	1415500	0.49	136 3-	1/0 URD PRI AL	4714	4620	4325	470	608	27	16	0.01	0.29	6
SW101313-B	1415602	0.49	136 3-	Closed	4714	4620	4325	470	608	27	0	0.00	0.29	0
SW101313-A	SW101313-B	0.49	136 3-	Closed	4714	4620	4325	470	608	27	0	0.00	0.29	0
1415594	SW101313-A	0.54	136 3-	1/0 URD PRI AL	4618	4540	4230	467	608	27	16	0.03	0.31	14
1415712	1415594	0.54	4 1-	1/0 URD PRI AL	0	0	4216	467	48	6	4	0.00	0.31	0
1415531	1415712	0.81	4 1-	4 ACSR	0	0	3148	175	48	6	5	0.04	0.35	0
1415595	1415594	0.58	128 3-	1/0 URD PRI AL	4524	4460	4135	465	550	24	15	0.02	0.34	12
1415501	1415595	0.59	122 3-	4/0 ACSR	4510	4444	4117	178	523	23	7	0.00	0.34	0
SW101310-B	1415501	0.59	122 3-	Closed	4510	4444	4117	178	523	23	0	0.00	0.34	0
SW101310-A	SW101310-B	0.59	122 3-	Closed	4510	4444	4117	178	523	23	0	0.00	0.34	0
1415502	SW101310-A	0.69	122 3-	4/0 ACSR	4282	4184	3817	178	523	23	7	0.02	0.36	9
1415711	1415502	1.30	33 1-	1/0 URD PRI AL	0	0	2605	432	155	20	12	0.20	0.55	18
1415503	1415502	0.79	28 3-	4/0 ACSR	4087	3967	3571	178	116	5	2	0.00	0.36	0
1415710	1415503	1.07	21 1-	1/0 URD PRI AL	0	0	3003	446	87	11	7	0.05	0.41	3
SW101400-B	1415710	1.07	0 1-	Open	0	0	3003	446	0	0	0	0.00	0.41	0
1415537	1415503	0.92	4 1-	1/0 ACSR	0	0	3253	177	15	2	1	0.00	0.37	0
1415687	1415537	0.92	0 1-	1/0 URD PRI AL	0	0	3236	455	0	0	0	0.00	0.37	0
SW101400-A	1415687	0.92	0 1-	Open	0	0	3236	455	0	0	0	0.00	0.37	0
1415661	1415502	0.87	58 1-	1/0 URD PRI AL	0	0	3400	453	236	31	19	0.16	0.52	32
1415669	1415661	1.26	28 1-	1/0 URD PRI AL	0	0	2670	434	102	13	8	0.08	0.60	5
1415662	1415661	1.15	21 1-	1/0 URD PRI AL	0	0	2852	439	94	12	7	0.05	0.57	3
1415660	1415595	0.61	3 1-	1/0 URD PRI AL	0	0	4063	464	16	2	1	0.00	0.34	0
SW101402-A	1415660	0.61	0 1-	Open	0	0	4063	464	0	0	0	0.00	0.34	0
1415591	1415595	0.66	3 1-	1/0 URD PRI AL	0	0	3932	461	12	1	1	0.00	0.34	0
SW101401-A	1415591	0.66	0 1-	Open	0	0	3932	461	0	0	0	0.00	0.34	0
1415493	1415492	0.48	449 3-	4/0 ACSR	4726	4623	4327	179	1441	64	19	0.04	0.30	45
1415659	1415493	0.76	28 1-	1/0 URD PRI AL	0	0	3580	455	85	11	7	0.05	0.35	3
SW101404-B	1415659	0.76	0 1-	Open	0	0	3580	455	0	0	0	0.00	0.35	0
1415494	1415493	0.54	415 3-	4/0 ACSR	4574	4456	4123	179	1329	59	18	0.04	0.34	35
1415658	1415494	0.80	16 1-	1/0 URD PRI AL	0	0	3504	455	83	11	7	0.04	0.38	2
SW101402-B	1415658	0.80	0 1-	Open	0	0	3504	455	0	0	0	0.00	0.38	0
1415686	1415494	1.20	61 1-	1/0 URD PRI AL	0	0	2699	434	196	26	16	0.27	0.61	31
SW101405-B	1415686	1.20	0 1-	Open	0	0	2699	434	0	0	0	0.00	0.61	0
1415495	1415494	0.58	336 3-	4/0 ACSR	4491	4366	4015	179	1044	46	14	0.02	0.35	12
1415657	1415495	0.80	8 1-	1/0 URD PRI AL	0	0	3496	456	40	5	3	0.02	0.37	0
SW101411-A	1415657	0.80	0 1-	Open	0	0	3496	456	0	0	0	0.00	0.37	0
1415496	1415495	0.61	328 3-	4/0 ACSR	4416	4284	3919	178	1003	44	13	0.01	0.37	10
1415685	1415496	0.85	16 1-	1/0 URD PRI AL	0	0	3381	454	54	7	4	0.03	0.39	0
SW101412-A	1415685	0.85	0 1-	Open	0	0	3381	454	0	0	0	0.00	0.39	0
1415497	1415496	0.64	312 3-	4/0 ACSR	4348	4211	3833	178	949	42	13	0.01	0.38	9
1415590	1415497	0.93	26 1-	1/0 URD PRI AL	0	0	3217	451	102	13	8	0.06	0.44	4
SW101413-B	1415590	0.93	0 1-	Open	0	0	3217	451	0	0	0	0.00	0.44	0
1415498	1415497	0.75	286 3-	4/0 ACSR	4126	3972	3559	178	847	37	11	0.04	0.42	23
1415569	1415498	0.76	239 3-	1/0 URD PRI AL	4116	3964	3551	464	691	30	18	0.00	0.42	2
SW101307-B	1415569	0.76	239 3-	Closed	4116	3964	3551	464	691	30	0	0.00	0.42	0
SW101307-A	SW101307-B	0.76	239 3-	Closed	4116	3964	3551	464	691	30	0	0.00	0.42	0
1415559	SW101307-A	0.93	239 3-	1/0 URD PRI AL	3845	3719	3308	456	691	30	18	0.11	0.53	65
1415668	1415559	1.54	57 1-	1/0 URD PRI AL	0	0	2321	425	109	14	9	0.14	0.67	9
SW101408-A	1415668	1.54	0 1-	Open	0	0	2321	425	0	0	0	0.00	0.67	0
1415589	1415559	1.62	50 1-	1/0 URD PRI AL	0	0	2235	422	200	26	16	0.29	0.81	34
SW101401-B	1415589	1.62	0 1-	Open	0	0	2235	422	0	0	0	0.00	0.81	0
1415574	1415559	0.98	0 1-	1/0 URD PRI AL	0	0	3204	453	0	0	0	0.00	0.53	0

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW101413-A	1415574	0.98	0 1-	Open	0	0	3204	453	0	0	0	0.00	0.53	0
1415656	1415559	1.26	16 1-	1/0 URD PRI AL	0	0	2710	439	50	6	4	0.04	0.56	0
SW101414-A	1415656	1.26	0 1-	Open	0	0	2710	439	0	0	0	0.00	0.56	0
1415667	1415559	0.96	0 1-	1/0 URD PRI AL	0	0	3253	455	0	0	0	0.00	0.53	0
SW101412-B	1415667	0.96	0 1-	Open	0	0	3253	455	0	0	0	0.00	0.53	0
1415560	1415559	1.06	113 3-	1/0 URD PRI AL	3631	3521	3116	450	322	14	8	0.04	0.57	11
1415655	1415560	1.35	18 1-	1/0 URD PRI AL	0	0	2624	436	66	8	5	0.04	0.61	2
1415666	1415560	1.60	48 1-	1/0 URD PRI AL	0	0	2287	424	175	23	14	0.20	0.76	20
1415555	1415560	1.07	47 1-	1/0 URD PRI AL	0	0	3101	450	80	10	6	0.00	0.57	0
1415557	1415555	1.10	0 1-	1/0 URD PRI AL	0	0	3043	448	0	0	0	0.00	0.57	0
SW101409-A	1415557	1.10	0 1-	Open	0	0	3043	448	0	0	0	0.00	0.57	0
1415556	1415555	1.36	44 1-	1/0 URD PRI AL	0	0	2618	435	77	10	6	0.05	0.62	2
SW101409-B	1415556	1.36	0 1-	Open	0	0	2618	435	0	0	0	0.00	0.62	0
1415561	1415560	1.15	0 3-	1/0 URD PRI AL	3498	3396	2995	446	0	0	0	0.00	0.57	0
SW101316-A	1415561	1.15	0 3-	Open	3498	3396	2995	446	0	0	0	0.00	0.57	0
1415654	1415559	0.99	3 1-	1/0 URD PRI AL	0	0	3188	453	10	1	1	0.00	0.53	0
SW101411-B	1415654	0.99	0 1-	Open	0	0	3188	453	0	0	0	0.00	0.53	0
1415499	1415498	0.78	34 3-	4/0 ACSR	4076	3920	3500	178	102	4	1	0.00	0.42	0
1415554	1415499	1.10	32 1-	1/0 URD PRI AL	0	0	2905	446	98	13	8	0.07	0.48	4
SW101407-B	1415554	1.10	0 1-	Open	0	0	2905	446	0	0	0	0.00	0.48	0
1415641	1415489	0.27	9 1-	1/0 URD PRI AL	0	0	5064	474	30	3	2	0.00	0.17	0
1415523	1415641	0.29	9 1-	1/0 ACSR	0	0	4936	179	30	3	2	0.00	0.17	0
1415642	1415523	0.42	8 1-	1/0 URD PRI AL	0	0	4491	466	25	3	2	0.01	0.18	0
SW101403-A	1415642	0.42	0 1-	Open	0	0	4491	466	0	0	0	0.00	0.18	0
CKT 114 total losses:		\$835												
SUB 6, CKT 124														
FAY2_124	FAYETTE2	0.00	1048 3-	SBS_99_UNK	5940	6059	6120	180	3768	168	0	0.00	0.00	0
1415633	FAY2_124	0.03	1048 3-	500 MCM URD PRI	5911	6025	6093	478	3768	168	44	0.02	0.02	78
1415510	1415633	0.25	1048 3-	4/0 ACSR	5156	5125	4896	179	3767	168	50	0.37	0.39	1008
1415539	1415510	0.29	8 2-	4/0 ACSR	0	5004	4748	179	31	2	1	0.00	0.39	0
1415701	1415539	0.31	3 1-	1/0 URD PRI AL	0	0	4679	471	11	1	1	0.00	0.39	0
SW101388-A	1415701	0.31	0 1-	Open	0	0	4679	471	0	0	0	0.00	0.39	0
1415688	1415539	0.30	5 1-	1/0 URD PRI AL	0	0	4723	471	20	2	2	0.00	0.39	0
SW101389-A	1415688	0.30	0 1-	Open	0	0	4723	471	0	0	0	0.00	0.39	0
1415511	1415510	0.32	1040 3-	4/0 ACSR	4973	4916	4632	179	3727	167	49	0.10	0.49	281
1415407	1415511	0.51	50 3-	4/0 ACSR	4492	4379	3987	178	234	10	3	0.02	0.51	2
1415446	1415407	0.54	28 3-	1/0 ACSR	4417	4295	3896	178	148	6	3	0.00	0.51	0
1415700	1415446	0.83	25 1-	1/0 URD PRI AL	0	0	3243	450	132	17	10	0.08	0.59	6
SW101421-B	1415700	0.83	0 1-	Open	0	0	3243	450	0	0	0	0.00	0.59	0
1415366	1415446	0.58	0 1-	1/0 ACSR	0	0	3765	178	0	0	0	0.00	0.51	0
SW101340-A	1415366	0.58	0 1-	Closed	0	0	3765	178	0	0	0	0.00	0.51	0
SW101340-B	SW101340-A	0.58	0 1-	Closed	0	0	3765	178	0	0	0	0.00	0.51	0
1415512	1415511	0.48	990 3-	4/0 ACSR	4547	4439	4057	178	3491	156	46	0.25	0.74	628
1415580	1415512	0.53	2 1-	1/0 URD PRI AL	0	0	3936	464	6	0	0	0.00	0.74	0
SW101585-B	1415580	0.53	0 1-	Open	0	0	3936	464	0	0	0	0.00	0.74	0
1415513	1415512	0.53	956 3-	4/0 ACSR	4450	4333	3934	178	3383	152	45	0.06	0.80	151
1415680	1415513	0.58	5 1-	1/0 URD PRI AL	0	0	3805	463	15	2	1	0.00	0.80	0
SW101422-A	1415680	0.58	0 1-	Open	0	0	3805	463	0	0	0	0.00	0.80	0
1415514	1415513	0.57	951 3-	4/0 ACSR	4361	4235	3822	178	3366	151	45	0.06	0.86	144
1415724	1415514	0.59	2 1-	1/0 URD PRI AL	0	0	3759	464	4	0	0	0.00	0.86	0
SW101423-A	1415724	0.59	0 1-	Open	0	0	3759	464	0	0	0	0.00	0.86	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS	
	1415476	1415514	0.63	949 3-	4/0 ACSR	4225	4086	3654	178	3360	151	45	0.09	0.95	232
	1415579	1415476	0.65	2 1-	1/0 URD PRI AL	0	0	3605	462	7	0	1	0.00	0.95	0
SW101424-A		1415579	0.65	0 1-	Open	0	0	3605	462	0	0	0	0.00	0.95	0
	1415477	1415476	0.71	947 3-	4/0 ACSR	4078	3928	3479	178	3352	151	44	0.11	1.06	262
	1415478	1415477	0.74	876 3-	4/0 ACSR	4018	3863	3408	178	3206	144	43	0.04	1.10	104
	1415406	1415478	0.75	162 3-	1/0 ACSR	3983	3825	3371	178	703	31	14	0.01	1.11	5
	1415723	1415406	0.90	86 1-	1/0 URD PRI AL	0	0	3108	453	365	49	29	0.11	1.22	24
SW101418-A		1415723	0.90	0 1-	Open	0	0	3108	453	0	0	0	0.00	1.22	0
	1415578	1415406	0.94	57 1-	1/0 URD PRI AL	0	0	3041	451	264	35	21	0.10	1.21	16
SW101420-A		1415578	0.94	0 1-	Open	0	0	3041	451	0	0	0	0.00	1.21	0
	1415479	1415478	0.83	714 3-	4/0 ACSR	3848	3682	3213	177	2502	112	33	0.10	1.20	189
	1415577	1415479	0.86	2 1-	1/0 URD PRI AL	0	0	3175	458	4	0	0	0.00	1.20	0
SW101581-A		1415577	0.86	0 1-	Open	0	0	3175	458	0	0	0	0.00	1.20	0
	1415722	1415479	0.86	4 1-	1/0 URD PRI AL	0	0	3161	457	7	0	1	0.00	1.20	0
SW101582-A		1415722	0.86	0 1-	Open	0	0	3161	457	0	0	0	0.00	1.20	0
	1415679	1415479	0.87	11 1-	1/0 URD PRI AL	0	0	3143	457	48	6	4	0.00	1.20	0
SW101583-A		1415679	0.87	0 1-	Open	0	0	3143	457	0	0	0	0.00	1.20	0
	1415480	1415479	0.92	697 3-	4/0 ACSR	3701	3527	3050	177	2442	110	32	0.09	1.29	168
	1415404	1415480	0.96	236 3-	1/0 ACSR	3620	3441	2967	177	979	44	19	0.03	1.32	26
	1415576	1415404	1.03	54 1-	1/0 URD PRI AL	0	0	2863	452	223	30	18	0.03	1.36	4
SW101420-B		1415576	1.03	0 1-	Open	0	0	2863	452	0	0	0	0.00	1.36	0
	1415405	1415404	1.09	182 3-	1/0 ACSR	3394	3203	2742	176	756	34	15	0.05	1.37	24
	1415721	1415405	1.15	67 1-	1/0 URD PRI AL	0	0	2664	448	258	34	21	0.03	1.41	5
SW101418-B		1415721	1.15	0 1-	Open	0	0	2664	448	0	0	0	0.00	1.41	0
	1415481	1415480	1.41	461 3-	4/0 ACSR	3050	2859	2378	176	1461	66	19	0.29	1.59	310
	1415420	1415481	1.55	236 3-	4/0 ACSR	2907	2714	2240	175	634	28	8	0.04	1.62	17
	1415678	1415420	1.66	69 1-	1/0 URD PRI AL	0	0	2140	437	175	23	14	0.04	1.66	4
SW101417-B		1415678	1.66	0 1-	Open	0	0	2140	437	0	0	0	0.00	1.66	0
	1415488	1415420	1.60	163 3-	4/0 ACSR	2859	2667	2195	175	451	20	6	0.01	1.63	3
	1415402	1415488	1.70	78 3-	4/0 ACSR	2767	2575	2109	175	181	8	2	0.01	1.64	0
	1415575	1415402	1.81	68 1-	1/0 URD PRI AL	0	0	2016	433	160	21	13	0.04	1.68	4
SW101415-B		1415575	1.81	0 1-	Open	0	0	2016	433	0	0	0	0.00	1.68	0
	1415403	1415402	1.70	0 3-	4/0 ACSR	2762	2571	2105	175	0	0	0	0.00	1.64	0
SW101316-B		1415403	1.70	0 3-	Open	2762	2571	2105	175	0	0	0	0.00	1.64	0
	1415720	1415488	1.73	79 1-	1/0 URD PRI AL	0	0	2084	435	253	34	20	0.07	1.70	10
SW101416-B		1415720	1.73	0 1-	Open	0	0	2084	435	0	0	0	0.00	1.70	0
	1415482	1415481	1.44	191 3-	4/0 ACSR	3019	2827	2348	175	705	31	9	0.01	1.59	5
SW101343-B		1415482	1.44	190 3-	Closed	3019	2827	2348	175	703	31	0	0.00	1.59	0
SW101343-A		SW101343-B	1.44	190 3-	Closed	3019	2827	2348	175	703	31	0	0.00	1.59	0
	1415483	SW101343-A	1.50	190 3-	4/0 ACSR	2961	2769	2292	175	703	31	9	0.02	1.61	9
	1415624	1415483	1.51	1 3-	1/0 URD PRI AL	2945	2754	2281	443	188	8	5	0.00	1.61	0
	1415998	1415624	1.51	1 3-	Consumer	2945	2754	2281	443	188	8	0	0.00	1.61	0
	1415484	1415483	1.52	189 3-	4/0 ACSR	2934	2742	2266	175	515	23	7	0.01	1.62	2
	1415485	1415484	1.57	75 3-	4/0 ACSR	2888	2696	2223	175	200	9	3	0.00	1.62	0
	1415419	1415485	1.59	7 3-	4/0 ACSR	2863	2671	2199	175	6	0	0	0.00	1.62	0
	1415677	1415419	1.61	5 1-	1/0 URD PRI AL	0	0	2184	440	5	0	0	0.00	1.62	0
SW101414-B		1415677	1.61	0 1-	Open	0	0	2184	440	0	0	0	0.00	1.62	0
	1415719	1415419	1.64	2 1-	1/0 URD PRI AL	0	0	2158	439	1	0	0	0.00	1.62	0
SW101408-B		1415719	1.64	0 1-	Open	0	0	2158	439	0	0	0	0.00	1.62	0
	1415593	1415485	1.69	67 1-	1/0 URD PRI AL	0	0	2112	435	194	26	16	0.05	1.67	6
SW101415-A		1415593	1.69	0 1-	Open	0	0	2112	435	0	0	0	0.00	1.67	0
	1415718	1415484	1.65	62 1-	1/0 URD PRI AL	0	0	2151	436	171	23	14	0.05	1.66	5

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 7, CKT 104			1694		4977	5290	5323	180	11987					
NWBY 104	NWBY	0.00	248 3-	SBS_99_SBS	4977	5290	5323	180	2048	92	0	0.00	0.00	0
1716148	NWBY_104	0.02	248 3-	350 MCM URD PRI	4959	5250	5301	475	2048	92	29	0.01	0.01	18
1716124	1716148	0.27	248 3-	4/0 ACSR	4344	4329	4265	179	2048	92	27	0.23	0.24	338
1716125	1716124	1.42	248 3-	336.4 ACSR	2972	2804	2449	176	2045	92	17	0.69	0.93	913
1717115	1716125	4.21	231 3-	4/0 ACSR	1492	1358	1064	168	1944	88	26	2.37	3.30	3358
OC120580	1717115	4.21	230 3-	100-L	1492	1358	1064	168	1907	87	88	0.00	3.30	0
1717089	OC120580	5.14	230 3-	4/0 ACSR	1278	1163	895	165	1907	87	26	0.58	3.89	700
1717086	1717089	5.38	52 3-	4/0 ACSR	1233	1122	860	164	394	18	5	0.04	3.92	11
1717087	1717086	5.40	28 3-	4/0 ACSR	1228	1117	856	164	204	9	3	0.00	3.93	0
1717061	1717087	5.58	5 2-	4 ACSR	0	1067	815	162	38	2	2	0.01	3.94	0
1717058	1717087	5.99	22 1-	4 ACSR	0	0	733	158	153	21	15	0.28	4.21	26
1717107	1717086	5.95	19 1-	4 ACSR	0	0	739	158	148	20	15	0.26	4.19	23
1717084	1717089	5.36	81 3-	1/0 ACSR	1225	1117	857	164	567	26	11	0.10	3.98	46
1717085	1717084	5.42	57 3-	1/0 ACSR	1209	1104	846	163	406	18	8	0.02	4.00	7
1717057	1717085	5.66	28 1-	1/0 ACSR	0	0	809	162	198	27	12	0.07	4.07	7
1717102	1717085	5.71	29 1-	1/0 ACSR	0	0	801	162	208	28	13	0.09	4.09	10
1717106	1717084	5.61	23 1-	1/0 ACSR	0	0	817	162	153	21	9	0.06	4.04	5
CKT 104 total losses:	\$5,462													
SUB 7, CKT 114														
NWBY 114	NWBY	0.00	137 3-	SBS_99_SBS	4977	5290	5323	180	669	30	0	0.00	0.00	0
1716119	NWBY_114	1.66	137 3-	4/0 ACSR	2536	2371	2008	174	669	30	9	0.45	0.45	213
1716135	1716119	1.67	5 1-	2 ACSR	0	0	2003	174	20	2	1	0.00	0.45	0
OC120594	1716135	1.67	5 1-	REC_25_UNK	0	0	2003	174	20	2	11	0.00	0.45	0
1716136	OC120594	1.85	5 1-	2 ACSR	0	0	1831	173	20	2	1	0.01	0.47	0
1716137	1716136	2.25	3 1-	6 ACWC	0	0	1475	169	19	2	2	0.04	0.51	0
1716138	1716137	2.28	2 1-	4 ACSR	0	0	1456	169	16	2	2	0.00	0.51	0
1716139	1716138	2.43	2 1-	6 ACWC	0	0	1353	167	16	2	2	0.01	0.52	0
1716120	1716119	2.29	117 3-	4/0 ACSR	2133	1971	1621	172	577	25	8	0.15	0.61	65
OC120597	1716120	2.29	113 3-	50-L	2133	1971	1621	172	570	25	51	0.00	0.61	0
1716121	OC120597	2.38	113 3-	4/0 ACSR	2082	1922	1575	172	570	25	8	0.02	0.63	9
1716122	1716121	3.21	30 3-	4/0 ACSR	1722	1575	1259	170	153	6	2	0.03	0.66	3
1716078	1716122	3.22	5 1-	1/0 ACSR	0	0	1257	170	23	3	1	0.00	0.66	0
OC120599	1716078	3.22	5 1-	REC_99_UNK	0	0	1257	170	23	3	0	0.00	0.66	0
1616169	OC120599	3.73	5 1-	1/0 ACSR	0	0	1098	167	23	3	1	0.02	0.68	0
1616092	1616169	5.33	2 1-	4 ACSR	0	0	676	152	3	0	0	0.01	0.69	0
1616171	1716122	4.35	3 3-	4/0 ACSR	1394	1269	989	166	19	0	0	0.01	0.67	0
1616110	1616171	4.35	0 3-	4/0 ACSR	1393	1268	988	166	0	0	0	0.00	0.67	0
SW120584-A	1616110	4.35	0 3-	Open	1393	1268	988	166	0	0	0	0.00	0.67	0
1616160	1616171	4.38	2 1-	6 ACWC	0	0	978	166	8	1	1	0.00	0.67	0
1716086	1716121	2.42	75 1-	1/0 ACSR	0	0	1554	172	372	50	22	0.04	0.67	12
SW120581-B	1716086	2.42	74 1-	Closed	0	0	1554	172	372	50	0	0.00	0.67	0
SW120581-A	SW120581-B	2.42	74 1-	Closed	0	0	1554	172	372	50	0	0.00	0.67	0
1716087	SW120581-A	2.48	74 1-	1/0 ACSR	0	0	1524	172	372	50	22	0.06	0.73	18
1716092	1716087	2.67	58 1-	1/0 ACSR	0	0	1429	171	309	41	18	0.17	0.90	40
OC120600	1716092	2.67	53 1-	REC_25_UNK	0	0	1429	171	283	38	153	0.00	0.90	0
1716093	OC120600	3.93	53 1-	1/0 ACSR	0	0	1013	165	283	38	17	0.89	1.79	180
1716077	1716093	4.35	35 1-	1/0 ACSR	0	0	923	163	181	24	11	0.16	1.95	18
1715046	1716077	4.45	16 1-	4 ACSR	0	0	893	162	72	9	7	0.04	1.99	3
1715047	1715046	4.53	15 1-	1/0 ACSR	0	0	880	161	64	8	4	0.01	2.00	0

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1715062	1715047	4.93	13 1-	4 ACSR	0	0	782	158	59	8	6	0.13	2.14	7
1715063	1715062	5.03	11 1-	1/0 ACSR	0	0	768	157	50	6	3	0.01	2.15	0
1715064	1715063	5.41	5 1-	4 ACSR	0	0	694	154	16	2	2	0.02	2.17	0
1716094	1716093	4.36	2 1-	4 ACSR	0	0	881	160	20	2	2	0.03	1.82	0
1716088	1716087	2.58	16 1-	4 ACSR	0	0	1451	171	62	8	6	0.04	0.77	2
OC120598	1716088	2.58	11 1-	25-H	0	0	1451	171	55	7	30	0.00	0.77	0
1716089	OC120598	2.63	11 1-	4 ACSR	0	0	1418	170	55	7	5	0.02	0.79	0
1716090	1716089	3.05	10 1-	2 ACSR	0	0	1222	167	48	6	4	0.05	0.84	2
1716091	1716090	3.22	2 1-	4 ACSR	0	0	1142	165	14	1	1	0.01	0.85	0
CKT 114 total losses:		\$572												
SUB 7, CKT 124														
NWBY_124	NWBY	0.00	155 3-	SBS_99_SBS	4977	5290	5323	180	1159	51	0	0.00	0.00	0
1716103	NWBY_124	1.54	155 3-	336.4 ACSR	2921	2745	2385	176	1159	51	10	0.49	0.49	371
SW120603-B	1716103	1.54	135 3-	Closed	2921	2745	2385	176	1041	46	0	0.00	0.49	0
SW120603-A	SW120603-B	1.54	135 3-	Closed	2921	2745	2385	176	1041	46	0	0.00	0.49	0
1716104	SW120603-A	2.21	135 3-	336.4 ACSR	2465	2287	1913	175	1041	46	9	0.20	0.69	138
1716105	1716104	2.30	126 3-	336.4 ACSR	2414	2236	1863	175	985	44	8	0.03	0.71	17
OC962591505	1716105	2.30	126 3-	_DefaultBayEqui	2414	2236	1863	175	985	44	0	0.00	0.71	0
1716095	OC962591505	3.06	126 3-	336.4 ACSR	2059	1891	1531	173	985	44	8	0.22	0.93	145
1717071	1716095	3.42	106 3-	336.4 ACSR	1925	1762	1412	172	887	40	8	0.09	1.02	54
OC120628	1717071	3.42	101 3-	REC_70_UNK	1925	1762	1412	172	860	38	55	0.00	1.02	0
1717072	OC120628	3.87	101 3-	336.4 ACSR	1780	1624	1287	171	860	38	7	0.10	1.12	57
1717066	1717072	3.88	45 1-	4 ACSR	0	0	1281	171	400	54	39	0.03	1.15	11
OC120629	1717066	3.88	45 1-	REC_99_UNK	0	0	1281	171	400	54	0	0.00	1.15	0
1717067	OC120629	4.04	45 1-	4 ACSR	0	0	1208	170	400	54	39	0.31	1.46	94
1717068	1717067	4.47	28 1-	1/0 ACSR	0	0	1082	167	249	33	15	0.16	1.62	21
1717073	1717072	4.28	34 3-	336.4 ACSR	1664	1514	1190	171	316	14	3	0.03	1.16	7
SW120606-B	1717073	4.28	27 3-	Closed	1664	1514	1190	171	237	10	0	0.00	1.16	0
SW120606-A	SW120606-B	4.28	27 3-	Closed	1664	1514	1190	171	237	10	0	0.00	1.16	0
1717074	SW120606-A	4.34	27 3-	336.4 ACSR	1650	1501	1178	170	237	10	2	0.00	1.16	0
1717079	1717074	4.35	0 3-	336.4 ACSR	1648	1499	1176	170	0	0	0	0.00	1.16	0
SW120639-A	1717079	4.35	0 3-	Open	1648	1499	1176	170	0	0	0	0.00	1.16	0
1717075	1717074	4.45	22 3-	336.4 ACSR	1623	1475	1155	170	202	9	2	0.01	1.16	0
1717078	1717075	4.64	6 3-	336.4 ACSR	1575	1430	1116	170	52	2	0	0.00	1.17	0
1717100	1717078	4.85	5 1-	1/0 ACSR	0	0	1063	169	41	5	2	0.02	1.18	0
1717101	1717100	4.87	2 1-	4 ACSR	0	0	1057	168	17	2	2	0.00	1.19	0
1717099	1717075	4.89	15 1-	1/0 ACSR	0	0	1038	168	141	19	8	0.09	1.26	7
SW120607-A	1717099	4.89	0 1-	Open	0	0	1038	168	0	0	0	0.00	1.26	0
1717069	1716095	4.05	18 3-	1/0 ACSR	1574	1451	1147	168	96	4	2	0.04	0.97	2
1717065	1717069	4.14	2 1-	4 ACSR	0	0	1111	167	2	0	0	0.00	0.97	0
1717070	1717069	4.14	0 3-	1/0 ACSR	1540	1421	1121	168	0	0	0	0.00	0.97	0
SW120796-A	1717070	4.14	0 3-	Open	1540	1421	1121	168	0	0	0	0.00	0.97	0
1716076	1716104	2.75	0 1-	2 ACSR	0	0	1517	171	0	0	0	0.00	0.69	0
CKT 124 total losses:		\$924												
SUB 7, CKT 134														
NWBY_134	NWBY	0.00	372 3-	SBS_99_SBS	4977	5290	5323	180	3122	138	0	0.00	0.00	0
1716111	NWBY_134	1.76	372 3-	4/0 ACSR	2462	2297	1935	174	3122	138	41	2.08	2.08	5121
SW120633-B	1716111	1.76	351 3-	Closed	2462	2297	1935	174	2979	134	0	0.00	2.08	0
SW120633-A	SW120633-B	1.76	351 3-	Closed	2462	2297	1935	174	2979	134	0	0.00	2.08	0
1716112	SW120633-A	2.18	351 3-	4/0 ACSR	2196	2033	1680	173	2979	134	39	0.46	2.54	1142

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1717116	1716112	2.44	315 3-	4/0 ACSR	2050	1890	1546	172	2750	124	37	0.28	2.82	644
1717105	1717116	2.46	29 1-	4 ACSR	0	0	1534	172	216	29	21	0.02	2.84	4
1717110	1717105	3.03	28 1-	1/0 URD PRI AL	0	0	1302	393	214	29	17	0.26	3.10	33
SW120785-B	1717110	3.03	0 1-	Open	0	0	1302	393	0	0	0	0.00	3.10	0
1717088	1717116	3.19	285 3-	4/0 ACSR	1731	1583	1266	170	2520	113	33	0.68	3.50	1453
1717093	1717088	3.49	230 3-	4/0 ACSR	1630	1486	1181	169	2083	94	28	0.20	3.70	371
1717098	1717093	4.08	29 1-	1/0 ACSR	0	0	1021	166	217	30	13	0.19	3.89	22
SW120607-B	1717098	4.08	0 1-	Open	0	0	1021	166	0	0	0	0.00	3.89	0
1717094	1717093	3.56	168 3-	4/0 ACSR	1608	1465	1163	168	1620	73	22	0.04	3.74	58
1717077	1717094	4.23	74 3-	1/0 ACSR	1376	1262	988	165	583	26	12	0.19	3.92	67
1717104	1717077	4.62	17 1-	1/0 ACSR	0	0	907	163	121	16	7	0.07	3.99	5
1717095	1717094	3.67	90 3-	4/0 ACSR	1573	1432	1134	168	1014	46	14	0.03	3.77	38
1717060	1717095	4.11	27 1-	4 ACSR	0	0	973	164	199	27	20	0.27	4.04	32
1717096	1717095	3.75	62 3-	4/0 ACSR	1549	1410	1115	168	815	37	11	0.01	3.78	18
1717080	1717096	3.80	48 3-	4/0 ACSR	1534	1396	1102	168	723	33	10	0.01	3.79	10
1717081	1717080	3.84	48 3-	4/0 ACSR	1525	1389	1095	168	723	33	10	0.01	3.80	6
1717082	1717081	3.98	41 3-	4/0 ACSR	1484	1352	1062	167	658	30	9	0.04	3.84	21
1717083	1717082	4.26	27 3-	4/0 ACSR	1413	1287	1005	166	539	24	7	0.05	3.89	17
1717076	1717083	4.88	2 3-	336.4 ACSR	1305	1188	917	165	260	12	2	0.05	3.94	9
1717108	1717076	4.89	1 3-	1/0 URD PRI AL	1303	1186	916	370	260	12	7	0.00	3.94	0
1717999	1717108	4.89	1 3-	Consumer	1303	1186	916	370	260	12	0	0.00	3.94	0
1717062	1717082	4.03	12 1-	1/0 ACSR	0	0	1050	167	114	15	7	0.01	3.86	1
1717063	1717062	4.21	10 1-	4 ACSR	0	0	988	165	93	12	9	0.08	3.93	5
1717064	1717063	4.27	6 1-	1/0 ACSR	0	0	975	165	46	6	3	0.01	3.94	0
1717059	1717064	4.64	4 1-	4 ACSR	0	0	871	161	26	3	3	0.03	3.97	0
1717056	1717081	4.21	7 1-	4 ACSR	0	0	963	164	65	8	6	0.08	3.87	3
CA120026	1717080	3.80	0 3-	Capacitor	1534	1396	1102	168	0	-14	0	0.00	3.79	0
1717097	1717096	4.07	14 1-	4 ACSR	0	0	999	165	92	12	9	0.09	3.87	5
1717090	1717088	3.21	38 3-	1/0 ACSR	1723	1575	1260	170	325	14	7	0.00	3.50	1
OC120667	1717090	3.21	38 3-	REC_70_UNK	1723	1575	1260	170	325	14	21	0.00	3.50	0
1717091	OC120667	3.82	38 3-	1/0 ACSR	1481	1359	1074	167	325	14	7	0.10	3.60	20
SW120636-B	1717091	3.82	10 3-	Closed	1481	1359	1074	167	87	3	0	0.00	3.60	0
SW120636-A	SW120636-B	3.82	10 3-	Closed	1481	1359	1074	167	87	3	0	0.00	3.60	0
1717092	SW120636-A	4.27	10 3-	1/0 ACSR	1338	1233	966	164	87	3	2	0.02	3.62	0
SW120639-B	1717092	4.27	0 3-	Open	1338	1233	966	164	0	0	0	0.00	3.62	0
1717118	1716112	2.24	28 1-	1/0 ACSR	0	0	1642	172	200	27	12	0.04	2.58	6
1717109	1717118	2.69	26 1-	1/0 URD PRI AL	0	0	1430	402	197	27	16	0.19	2.77	22
SW120785-A	1717109	2.69	0 1-	Open	0	0	1430	402	0	0	0	0.00	2.77	0

CKT 134 total losses: \$9,134

SUB	LINE SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
7, CKT 144	NWBY_144	0.00	550 3-	SBS_99_SBS	4977	5290	5323	180	3653	164	0	0.00	0.00	0
1716099	NWBY_144	1.85	550 3-	336.4 ACSR	2690	2511	2140	176	3653	164	31	1.95	1.95	4552
1716116	1716099	2.00	149 3-	1/0 ACSR	2546	2365	2005	175	1157	52	23	0.13	2.08	127
SW120671-B	1716116	2.00	149 3-	Closed	2546	2365	2005	175	1156	52	0	0.00	2.08	0
SW120671-A	SW120671-B	2.00	149 3-	Closed	2546	2365	2005	175	1156	52	0	0.00	2.08	0
1716114	SW120671-A	2.37	149 3-	1/0 ACSR	2234	2062	1724	173	1156	52	23	0.31	2.39	285
OC120743	1716114	2.37	127 3-	REC_70_UNK	2234	2062	1724	173	999	45	65	0.00	2.39	0
1716115	OC120743	2.48	127 3-	1/0 ACSR	2152	1989	1654	173	999	45	20	0.09	2.48	72
1716133	1716115	3.68	98 1-	1/0 ACSR	0	0	1142	167	788	108	47	1.57	4.05	705
OC120744	1716133	3.68	14 1-	REC_25_UNK	0	0	1142	167	101	13	56	0.00	4.05	0
1717103	OC120744	4.95	14 1-	1/0 ACSR	0	0	855	161	101	13	6	0.19	4.24	10

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1716110	1716115	2.52	29 3-	1/0 ACSR	2124	1964	1629	172	210	9	4	0.01	2.48	0
1816068	1716110	3.00	16 1-	1/0 ACSR	0	0	1388	170	110	15	7	0.08	2.56	5
1716100	1716099	1.89	349 3-	336.4 ACSR	2667	2488	2116	176	2149	98	19	0.02	1.97	32
OC120747	1716100	1.89	349 3-	REC_70_UNK	2667	2488	2116	176	2149	98	140	0.00	1.97	0
1716101	OC120747	1.93	349 3-	336.4 ACSR	2636	2457	2084	176	2149	98	19	0.03	2.00	43
1716102	1716101	2.01	343 3-	4/0 ACSR	2575	2397	2024	175	2111	96	28	0.07	2.07	109
1716106	1716102	2.02	340 3-	1/0 ACSR	2566	2387	2015	175	2086	95	42	0.02	2.09	29
1716107	1716106	2.33	338 3-	4/0 ACSR	2343	2169	1801	174	2079	95	28	0.29	2.37	430
1716108	1716107	2.37	327 3-	1/0 ACSR	2312	2138	1773	174	2005	91	40	0.06	2.44	103
1716109	1716108	2.63	324 3-	4/0 ACSR	2157	1987	1630	173	1996	91	27	0.23	2.67	336
1816065	1716109	3.31	282 3-	4/0 ACSR	1835	1678	1346	171	1801	82	24	0.55	3.22	723
SW120684-B	1816065	3.31	281 3-	Closed	1835	1678	1346	171	1790	82	0	0.00	3.22	0
SW120684-A	SW120684-B	3.31	281 3-	Closed	1835	1678	1346	171	1790	82	0	0.00	3.22	0
1816038	SW120684-A	5.00	281 3-	4/0 ACSR	1336	1216	938	166	1790	82	24	1.34	4.56	1779
SW120674-B	1816038	5.00	278 3-	Closed	1336	1216	938	166	1759	81	0	0.00	4.56	0
SW120674-A	SW120674-B	5.00	278 3-	Closed	1336	1216	938	166	1759	81	0	0.00	4.56	0
1816039	SW120674-A	5.11	278 3-	4/0 ACSR	1313	1195	920	165	1759	81	24	0.08	4.64	111
1816043	1816039	5.33	158 3-	4/0 ACSR	1269	1155	886	165	1783	36	11	0.08	4.72	45
OC120754	1816043	5.33	158 3-	70-L	1269	1155	886	165	1782	36	52	0.00	4.72	0
1816044	OC120754	5.39	158 3-	4/0 ACSR	1257	1144	877	164	1782	36	11	0.02	4.74	13
1816052	1816044	5.56	154 2-	1/0 ACSR	0	1108	849	164	1736	51	22	0.16	4.91	99
OC120756	1816052	5.56	154 2-	REC_35_UNK	0	1108	849	164	1735	51	147	0.00	4.91	0
1816053	OC120756	8.33	154 2-	1/0 ACSR	0	720	552	151	1735	51	22	2.31	7.22	1245
1816034	1816053	8.38	17 1-	2 ACSR	0	0	547	151	109	15	9	0.02	7.24	2
OC120757	1816034	8.38	15 1-	REC_25_UNK	0	0	547	151	88	12	50	0.00	7.24	0
1816035	OC120757	9.04	15 1-	2 ACSR	0	0	497	147	88	12	7	0.13	7.38	7
1816031	1816035	9.15	1 1-	2 ACSR	0	0	490	146	4	0	0	0.00	7.38	0
1816036	1816035	9.05	0 1-	4 ACSR	0	0	497	147	0	0	0	0.00	7.38	0
SW120786-A	1816036	9.05	0 1-	Open	0	0	497	147	0	0	0	0.00	7.38	0
1816054	1816053	8.47	73 2-	1/0 ACSR	0	707	542	150	372	26	12	0.07	7.29	22
1816032	1816054	8.50	11 1-	4 ACSR	0	0	538	150	50	7	5	0.01	7.30	0
OC120758	1816032	8.50	11 1-	REC_25_UNK	0	0	538	150	50	7	29	0.00	7.30	0
1816033	OC120758	9.35	11 1-	4 ACSR	0	0	464	143	50	7	5	0.24	7.54	10
1815006	1816033	9.91	2 1-	4 ACSR	0	0	423	139	0	0	0	0.00	7.54	0
SW120786-B	1815006	9.91	0 1-	Open	0	0	423	139	0	0	0	0.00	7.54	0
1815005	1816033	10.21	7 1-	4 ACSR	0	0	405	137	37	5	4	0.10	7.64	2
1816055	1816054	8.53	60 2-	1/0 ACSR	0	702	538	150	315	22	10	0.03	7.32	7
SW120679-B	1816055	8.53	60 2-	Closed	0	702	538	150	315	22	0	0.00	7.32	0
SW120679-A	SW120679-B	8.53	60 2-	Closed	0	702	538	150	315	22	0	0.00	7.32	0
1815010	SW120679-A	11.07	60 2-	1/0 ACSR	0	531	408	140	315	22	10	0.56	7.87	99
1815008	1815010	11.12	1 1-	2 ACSR	0	0	406	140	1	0	0	0.00	7.87	0
1815007	1815010	11.13	0 2-	1/0 ACSR	0	528	405	140	0	0	0	0.00	7.87	0
SW120681-B	1815007	11.13	0 2-	Open	0	528	405	140	0	0	0	0.00	7.87	0
1816045	1816044	5.73	3 3-	4/0 ACSR	1195	1088	830	163	45	2	1	0.01	4.75	0
1816046	1816045	6.60	2 3-	4/0 ACSR	1061	965	728	161	35	1	0	0.01	4.76	0
1816047	1816046	7.19	0 3-	4/0 ACSR	986	898	673	159	0	0	0	0.00	4.76	0
SW120677-A	1816047	7.19	0 3-	Open	986	898	673	159	0	0	0	0.00	4.76	0
1816058	1816046	6.94	1 1-	4 ACSR	0	0	675	157	9	1	1	0.01	4.77	0
OC120668	1816045	5.73	0 3-	_DefaultBayEqui	1195	1088	830	163	0	0	0	0.00	4.75	0
1816040	1816039	5.17	119 3-	4/0 ACSR	1300	1183	910	165	959	44	13	0.03	4.67	20
OC120751	1816040	5.17	119 3-	REC_50_UNK	1300	1183	910	165	959	44	89	0.00	4.67	0
1816041	OC120751	5.32	119 3-	4/0 ACSR	1270	1156	887	165	959	44	13	0.06	4.73	46

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES CONS	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
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 SUB 7 total losses: \$30,649

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES CONS	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS	
SUB SUB	8 WEST BEREA 8, CRT 104		2377		5439	5618	5677	180	13244						
	WBEB_104	WEST BEREA	0.00	635 3-	SBS_99_SBS	5439	5618	5677	180	4768	218	0	0.00	0.00	0
	2017343	WBEB_104	0.05	635 3-	1/0 URD PRI AL	5339	5472	5558	475	4768	218	128	0.20	0.20	866
	2017265	2017343	0.05	0 3-	336.4 ACSR	5324	5453	5532	179	0	0	0.00	0.20	0	
	SW121136-A	2017265	0.05	0 3-	Open	5324	5453	5532	179	0	0	0.00	0.20	0	
	2017232	2017343	0.39	635 3-	336.4 ACSR	4587	4551	4386	179	4761	218	41	0.54	0.74	1572
	2017233	2017232	0.65	632 3-	336.4 ACSR	4133	4030	3766	178	4664	214	41	0.40	1.14	1143
	2017237	2017233	0.76	626 3-	4/0 ACSR	3931	3810	3502	178	4498	207	61	0.24	1.38	729
	1917274	2017237	1.07	502 3-	4/0 ACSR	3442	3286	2908	177	4123	190	56	0.63	2.01	1767
	1917186	1917274	1.47	46 3-	336.4 ACSR	3053	2878	2473	176	280	12	2	0.02	2.03	2
	1917189	1917274	1.31	450 3-	4/0 ACSR	3135	2967	2567	176	3805	177	52	0.45	2.46	1185
	1917184	1917189	1.37	64 3-	1/0 ACSR	3051	2878	2482	176	323	14	6	0.02	2.48	4
	OC121023	1917184	1.37	64 3-	70-L	3051	2878	2482	176	323	14	21	0.00	2.48	0
	1917185	OC121023	1.95	64 3-	1/0 ACSR	2416	2231	1886	173	323	14	6	0.12	2.60	29
	1917235	1917185	2.58	16 1-	4 ACSR	0	0	1342	167	75	10	7	0.15	2.75	6
	1917226	1917185	1.96	22 1-	4 ACSR	0	0	1879	173	136	18	13	0.00	2.60	0
	1917212	1917189	1.60	386 3-	4/0 ACSR	2835	2661	2254	175	3472	162	48	0.49	2.95	1173
	SW120928-B	1917212	1.60	386 3-	Closed	2835	2661	2254	175	3462	162	0	0.00	2.95	0
	SW120928-A	SW120928-B	1.60	386 3-	Closed	2835	2661	2254	175	3462	162	0	0.00	2.95	0
	1917213	SW120928-A	1.94	386 3-	4/0 ACSR	2544	2369	1968	174	3462	162	48	0.58	3.53	1387
	1917206	1917213	2.09	245 3-	4/0 ACSR	2433	2259	1863	174	2811	132	39	0.21	3.74	413
	1917191	1917206	2.10	245 3-	1/0 ACSR	2428	2254	1858	174	2807	132	58	0.01	3.76	32
	OC121026	1917191	2.10	245 3-	70-L	2428	2254	1858	174	2807	132	190	0.00	3.76	0
	1917192	OC121026	3.05	245 3-	1/0 ACSR	1790	1650	1329	169	2807	132	58	2.27	6.03	5186
	1917144	1917192	3.27	13 1-	1/0 ACSR	0	0	1245	168	70	9	4	0.02	6.06	0
	SW121249-A	1917144	3.27	0 1-	Open	0	0	1245	168	0	0	0	0.00	6.06	0
	1917193	1917192	3.09	228 3-	1/0 ACSR	1771	1634	1314	169	2667	128	56	0.08	6.12	187
	1917181	1917193	3.30	78 3-	1/0 ACSR	1674	1547	1237	168	425	20	9	0.07	6.18	22
	1917143	1917181	3.51	10 1-	1/0 ACSR	0	0	1166	167	60	8	4	0.02	6.20	0
	SW121249-B	1917143	3.51	0 1-	Open	0	0	1166	167	0	0	0	0.00	6.20	0
	1917182	1917181	3.40	56 3-	1/0 ACSR	1629	1507	1202	167	295	13	6	0.02	6.21	6
	1917183	1917182	3.52	41 3-	1/0 ACSR	1578	1461	1163	167	239	11	5	0.02	6.23	3
	1917154	1917183	3.68	22 2-	1/0 ACSR	0	1406	1117	166	128	9	4	0.02	6.24	1
	1917142	1917154	3.75	4 1-	1/0 ACSR	0	0	1097	166	25	3	2	0.00	6.25	0
	SW121250-B	1917142	3.75	0 1-	Open	0	0	1097	166	0	0	0	0.00	6.25	0
	1917138	1917182	3.40	10 1-	1/0 ACSR	0	0	1200	167	25	3	2	0.00	6.21	0
	SW121020-B	1917138	3.40	10 1-	Closed	0	0	1200	167	25	3	0	0.00	6.21	0
	SW121020-A	SW121020-B	3.40	10 1-	Closed	0	0	1200	167	25	3	0	0.00	6.21	0
	1917140	SW121020-A	3.67	10 1-	1/0 ACSR	0	0	1118	166	25	3	2	0.02	6.23	0
	1917141	1917140	4.26	9 1-	4 ACSR	0	0	910	160	25	3	3	0.05	6.28	0
	1917239	1917141	4.26	2 1-	1/0 URD PRI AL	0	0	908	351	2	0	0	0.00	6.28	0
	1917194	1917193	3.27	150 3-	1/0 ACSR	1685	1557	1246	168	2240	108	47	0.35	6.47	655
	1917137	1917194	3.34	0 1-	1/0 ACSR	0	0	1222	168	0	0	0	0.00	6.47	0
	SW121250-A	1917137	3.34	0 1-	Open	0	0	1222	168	0	0	0	0.00	6.47	0
	1917195	1917194	3.87	147 3-	1/0 ACSR	1451	1348	1065	165	2219	107	47	1.12	7.59	2018
	1917136	1917195	4.30	23 1-	1/0 ACSR	0	0	961	163	191	27	12	0.13	7.72	14
	1917196	1917195	3.94	98 3-	1/0 ACSR	1426	1325	1046	165	1863	91	40	0.12	7.71	192
	OC121029	1917196	3.94	91 3-	REC_50_UNK	1426	1325	1046	165	1827	89	179	0.00	7.71	0
	1917197	OC121029	4.36	91 3-	1/0 ACSR	1299	1210	949	163	1827	89	39	0.69	8.40	1050
	1917200	1917197	4.47	1 3-	1/0 ACSR	1269	1183	926	162	153	7	3	0.01	8.41	2
	SW120931-B	1917200	4.47	1 3-	Closed	1269	1183	926	162	153	7	0	0.00	8.41	0

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW120931-A	SW120931-B	4.47	1 3-	Closed	1269	1183	926	162	153	7	0	0.00	8.41	0
1917207	SW120931-A	4.86	1 3-	1/0 ACSR	1174	1097	855	161	153	7	3	0.05	8.46	7
1917251	1917207	4.91	1 3-	1/0 URD PRI AL	1166	1089	850	349	153	7	4	0.01	8.47	0
1917994	1917251	4.91	1 3-	Consumer	1166	1089	850	349	153	7	0	0.00	8.47	0
1917198	1917197	4.61	87 3-	1/0 ACSR	1235	1152	900	162	1652	81	36	0.36	8.76	501
1917199	1917198	6.65	63 3-	1/0 ACSR	871	819	630	153	1571	77	34	2.87	11.64	3798
SW120934-B	1917199	6.65	45 3-	Closed	871	819	630	153	1508	76	0	0.00	11.64	0
SW120934-A	SW120934-B	6.65	45 3-	Closed	871	819	630	153	1508	76	0	0.00	11.64	0
1817007	SW120934-A	8.95	45 3-	1/0 ACSR	653	617	471	143	1508	76	33	3.07	14.70	3922
1818004	1817007	8.99	1 3-	1/0 URD PRI AL	650	615	469	268	361	18	11	0.01	14.72	5
1818999	1818004	8.99	1 3-	Consumer	650	615	469	268	361	18	0	0.00	14.72	0
1818003	1817007	9.35	7 3-	1/0 ACSR	625	591	451	142	1003	52	23	0.38	15.08	327
SL2	1818003	9.35	0 3-	Consumer	625	591	451	142	927	48	0	0.00	15.08	0
1917232	1917198	4.79	22 1-	4 ACSR	0	0	851	160	73	10	8	0.09	8.85	6
OC121030	1917232	4.79	22 1-	REC_25_UNK	0	0	851	160	73	10	42	0.00	8.85	0
1917233	OC121030	5.35	22 1-	4 ACSR	0	0	726	155	73	10	8	0.24	9.09	15
SW120935-B	1917233	5.35	19 1-	Closed	0	0	726	155	60	8	0	0.00	9.09	0
SW120935-A	SW120935-B	5.35	19 1-	Closed	0	0	726	155	60	8	0	0.00	9.09	0
1917234	SW120935-A	6.42	19 1-	4 ACSR	0	0	563	146	60	8	6	0.21	9.30	8
1917214	1917213	2.36	140 3-	4/0 ACSR	2256	2085	1700	173	623	28	8	0.12	3.65	55
SW120938-B	1917214	2.36	139 3-	Closed	2256	2085	1700	173	623	28	0	0.00	3.65	0
SW120938-A	SW120938-B	2.36	139 3-	Closed	2256	2085	1700	173	623	28	0	0.00	3.65	0
1917215	SW120938-A	2.48	139 3-	4/0 ACSR	2183	2014	1634	173	623	28	8	0.04	3.69	16
SW120941-B	1917215	2.48	139 3-	Closed	2183	2014	1634	173	623	28	0	0.00	3.69	0
SW120941-A	SW120941-B	2.48	139 3-	Closed	2183	2014	1634	173	623	28	0	0.00	3.69	0
1917216	SW120941-A	2.54	139 3-	4/0 ACSR	2150	1982	1605	172	623	28	8	0.02	3.70	7
1917221	1917216	2.60	15 3-	4/0 ACSR	2117	1949	1576	172	90	4	1	0.00	3.71	0
1917222	1917221	2.66	15 3-	4/0 ACSR	2086	1919	1548	172	90	4	1	0.00	3.71	0
1917204	1917222	2.73	0 3-	4/0 ACSR	2050	1885	1517	172	90	0	0	0.00	3.71	0
1917205	1917204	2.79	0 3-	1/0 ACSR	2012	1847	1486	172	0	0	0	0.00	3.71	0
SW120282-B	1917205	2.79	0 3-	Open	2012	1847	1486	172	0	0	0	0.00	3.71	0
1917223	1917222	2.73	15 3-	1/0 ACSR	2044	1878	1514	172	90	4	2	0.00	3.71	0
SW120944-B	1917223	2.73	13 3-	Closed	2044	1878	1514	172	57	2	0	0.00	3.71	0
SW120944-A	SW120944-B	2.73	13 3-	Closed	2044	1878	1514	172	57	2	0	0.00	3.71	0
1917201	SW120944-A	3.36	13 3-	1/0 ACSR	1706	1566	1247	169	57	2	1	0.01	3.73	0
1917135	1917201	3.36	0 1-	4 ACSR	0	0	1244	169	0	0	0	0.00	3.73	0
SW120310-B	1917135	3.36	0 1-	Open	0	0	1244	169	0	0	0	0.00	3.73	0
1917202	1917201	3.49	0 3-	1/0 ACSR	1646	1513	1201	168	0	0	0	0.00	3.73	0
1917276	1917202	3.54	0 3-	336.4 ACSR	1634	1502	1191	168	0	0	0	0.00	3.73	0
SW120335-B	1917276	3.54	0 3-	Open	1634	1502	1191	168	0	0	0	0.00	3.73	0
1917275	1917202	3.65	0 3-	336.4 ACSR	1606	1476	1167	168	0	0	0	0.00	3.73	0
SW120238-B	1917275	3.65	0 3-	Open	1606	1476	1167	168	0	0	0	0.00	3.73	0
SW120344-B	1917221	2.60	0 3-	Open	2117	1949	1576	172	0	0	0	0.00	3.71	0
1917217	1917216	2.62	124 3-	1/0 ACSR	2098	1930	1562	172	532	24	11	0.03	3.74	15
OC121033	1917217	2.62	124 3-	70-L	2098	1930	1562	172	532	24	35	0.00	3.74	0
1917218	OC121033	2.91	124 3-	1/0 ACSR	1921	1756	1419	171	532	24	11	0.12	3.86	54
1917133	1917218	3.07	27 1-	4 ACSR	0	0	1320	169	104	14	10	0.10	3.96	8
OC121034	1917133	3.07	21 1-	REC_25_UNK	0	0	1320	169	84	11	47	0.00	3.96	0
1917134	OC121034	3.80	21 1-	4 ACSR	0	0	989	162	84	11	8	0.19	4.15	10
1917219	1917218	3.20	95 3-	1/0 ACSR	1767	1622	1298	169	420	19	8	0.10	3.96	34
1917220	1917219	3.59	77 3-	1/0 ACSR	1592	1467	1163	167	350	16	7	0.11	4.07	31
1917130	1917220	3.68	63 1-	1/0 ACSR	0	0	1137	167	299	41	18	0.08	4.14	19

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
OC121035	1917130	3.68	63 1-	REC_35_UNK	0	0	1137	167	299	41 119	0.00	4.14	0	
1917131	OC121035	3.75	63 1-	1/0 ACSR	0	0	1115	167	299	41 18	0.07	4.21	16	
1917132	1917131	5.36	63 1-	4 ACSR	0	0	677	151	299	41 30	1.52	5.74	270	
1917229	1917220	3.64	8 1-	1/0 ACSR	0	0	1147	167	31	4 2	0.00	4.07	0	
OC121036	1917229	3.64	8 1-	REC_25_UNK	0	0	1147	167	31	4 17	0.00	4.07	0	
1917230	OC121036	4.06	8 1-	1/0 ACSR	0	0	1033	165	31	4 2	0.03	4.10	0	
1917231	1917230	4.97	4 1-	4 ACSR	0	0	776	156	20	2 2	0.06	4.16	0	
1917225	1917219	4.18	15 1-	4 ACSR	0	0	900	160	64	8 6	0.20	4.16	8	
2017238	2017237	0.97	123 3-	336.4 ACSR	3646	3497	3143	178	363	16 3	0.02	1.41	6	
2017348	2017238	0.99	1 1-	1/0 URD PRI AL	0	0	3115	459	0	0 0	0.00	1.41	0	
SW121248-A	2017348	0.99	0 1-	Open	0	0	3115	459	0	0 0	0.00	1.41	0	
2017253	2017238	1.04	122 3-	336.4 ACSR	3564	3409	3043	177	363	16 3	0.01	1.41	2	
2017254	2017253	1.10	57 3-	336.4 ACSR	3499	3340	2966	177	180	8 2	0.00	1.42	0	
1917272	2017254	1.39	57 1-	1/0 URD PRI AL	0	0	2561	443	180	24 14	0.11	1.53	12	
1917273	2017253	1.39	64 1-	1/0 URD PRI AL	0	0	2546	441	182	24 15	0.14	1.55	15	
SW121248-B	1917273	1.39	0 1-	Open	0	0	2546	441	0	0 0	0.00	1.55	0	
2017996	2017232	0.39	1 1-	Consumer	0	0	4386	179	68	9 0	0.00	0.74	0	
CKT 104 total losses:		\$28,811												
SUB 8, CKT 114														
WBER_114	WEST BERA	0.00	53 3-	SBS_99_SBS	5439	5618	5677	180	476	23 0	0.00	0.00	0	
2017247	WBER_114	0.17	53 3-	336.4 ACSR	5017	5013	4962	179	476	23 4	0.00	0.00	9	
2017249	2017247	0.56	13 3-	336.4 ACSR	4267	4157	3899	179	267	16 3	-0.03	-0.03	9	
2017250	2017249	0.75	9 3-	336.4 ACSR	3978	3840	3532	178	185	8 2	0.01	-0.03	0	
2017252	2017250	0.91	5 3-	336.4 ACSR	3754	3598	3261	178	142	6 1	0.01	-0.02	0	
2017229	2017252	1.02	4 3-	336.4 ACSR	3616	3452	3093	178	142	6 1	0.00	-0.02	0	
2017230	2017229	1.32	1 3-	4/0 ACSR	3224	3046	2671	177	0	0 0	0.00	-0.02	0	
2017231	2017230	1.32	1 3-	6 ACWC	3220	3041	2667	177	0	0 0	0.00	-0.02	0	
2017227	2017252	0.96	1 3-	336.4 ACSR	3689	3529	3181	178	1	0 0	0.00	-0.02	0	
SW121039-B	2017227	0.96	1 3-	Closed	3689	3529	3181	178	1	0 0	0.00	-0.02	0	
SW121039-A	SW121039-B	0.96	1 3-	Closed	3689	3529	3181	178	1	0 0	0.00	-0.02	0	
2017228	SW121039-A	1.02	1 3-	336.4 ACSR	3620	3456	3097	178	1	0 0	0.00	-0.02	0	
2017251	2017250	0.79	0 3-	336.4 ACSR	3918	3775	3458	178	0	0 0	0.00	-0.03	0	
SW120363-B	2017251	0.99	0 3-	Open	3918	3775	3458	178	0	0 0	0.00	-0.03	0	
CA120029	2017249	0.56	0 3-	Capacitor	4267	4157	3899	179	0	-14 0	0.00	-0.03	0	
2017248	2017247	0.39	35 3-	336.4 ACSR	4568	4492	4277	179	207	9 2	0.01	0.00	0	
CKT 114 total losses:		\$18												
SUB 8, CKT 124														
WBER_124	WEST BERA	0.00	961 3-	SBS_99_SBS	5439	5618	5677	180	4526	202 0	0.00	0.00	0	
2017278	WBER_124	0.07	961 3-	336.4 ACSR	5272	5345	5385	180	4526	202 38	0.08	0.08	262	
2017279	2017278	0.53	961 3-	336.4 ACSR	4328	4221	3939	179	4523	202 38	0.57	0.66	1797	
2017300	2017279	0.64	45 3-	336.4 ACSR	4143	4016	3692	178	164	7 1	0.00	0.66	0	
2017327	2017300	1.05	19 1-	1/0 URD PRI AL	0	0	2917	446	75	10 6	0.06	0.73	3	
SW121256-A	2017327	1.05	0 1-	Open	0	0	2917	446	0	0 0	0.00	0.73	0	
2017301	2017300	0.77	15 3-	336.4 ACSR	3947	3802	3441	178	51	2 0	0.00	0.66	0	
2017350	2017301	1.24	14 1-	1/0 URD PRI AL	0	0	2659	440	47	6 4	0.05	0.71	1	
SW121257-A	2017350	1.24	0 1-	Open	0	0	2659	440	0	0 0	0.00	0.71	0	
2017280	2017279	0.67	895 3-	336.4 ACSR	4091	3959	3625	178	4243	190 36	0.17	0.83	514	
2017241	2017280	0.77	829 3-	336.4 ACSR	3945	3800	3440	178	3970	178 34	0.11	0.94	305	
2017193	2017241	1.18	22 1-	1/0 ACSR	0	0	2652	176	121	16 7	0.07	1.01	5	
2017297	2017241	0.92	807 3-	336.4 ACSR	3745	3585	3195	178	3846	172 33	0.15	1.09	428	

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
2017291	2017297	1.01	779 3-	336.4 ACSR	3637	3470	3066	178	3743	168	32	0.09	1.18	237
2017323	2017291	1.78	22 1-	1/0 ACSR	0	0	2021	174	77	10	5	0.09	1.27	4
SW121255-B	2017323	1.78	0 1-	Open	0	0	2021	174	0	0	0	0.00	1.27	0
2017242	2017291	1.48	755 3-	336.4 ACSR	3137	2951	2512	177	3659	164	31	0.46	1.64	1233
2017292	2017242	1.50	125 3-	1/0 ACSR	3110	2923	2486	177	594	27	12	0.01	1.65	5
OC121122	2017292	1.50	125 3-	70-L	3110	2923	2486	177	594	27	39	0.00	1.65	0
2017298	OC121122	1.93	125 3-	1/0 ACSR	2611	2415	2023	175	594	27	12	0.16	1.81	68
2017205	2017298	2.00	7 1-	4 ACSR	0	0	1939	174	38	5	4	0.02	1.83	0
2017326	2017205	2.05	6 1-	1/0 URD PRI AL	0	0	1902	430	38	5	3	0.01	1.84	0
2017191	2017326	2.14	6 1-	4 ACSR	0	0	1809	172	38	5	4	0.02	1.85	0
2017192	2017191	2.40	3 1-	1/0 ACSR	0	0	1630	171	26	3	2	0.01	1.86	0
SW121254-A	2017192	2.40	0 1-	Open	0	0	1630	171	0	0	0	0.00	1.86	0
2017299	2017298	2.09	74 3-	1/0 ACSR	2459	2263	1889	174	320	14	6	0.04	1.85	9
2017293	2017299	2.12	64 3-	4 ACSR	2410	2224	1849	173	276	12	9	0.02	1.87	5
2017294	2017293	2.24	63 3-	1/0 ACSR	2310	2134	1763	173	276	12	5	0.03	1.89	6
2017319	2017294	2.31	9 1-	6 ACWC	0	0	1701	172	19	2	2	0.01	1.90	0
2017320	2017319	2.51	7 1-	4 ACSR	0	0	1524	170	15	2	1	0.01	1.91	0
2017321	2017320	2.61	4 1-	6 ACWC	0	0	1453	169	5	0	0	0.00	1.91	0
2017204	2017294	2.80	53 1-	6 ACWC	0	0	1326	167	252	34	25	0.59	2.48	102
2017196	2017204	3.18	12 1-	4 ACSR	0	0	1122	163	53	7	5	0.06	2.55	2
2017195	2017204	2.81	0 1-	1/0 ACSR	0	0	1324	167	0	0	0	0.00	2.48	0
SW121254-B	2017195	2.81	0 1-	Open	0	0	1324	167	0	0	0	0.00	2.48	0
2017194	2017204	3.38	7 1-	4 ACSR	0	0	1038	161	38	5	4	0.07	2.55	2
2017255	2017242	1.83	621 3-	336.4 ACSR	2844	2654	2213	176	3019	135	26	0.27	1.91	600
2017226	2017255	2.22	14 3-	4 ACSR	2292	2142	1748	172	97	4	3	0.03	1.94	2
2017256	2017255	2.42	555 3-	336.4 ACSR	2458	2273	1845	175	2736	123	23	0.38	2.29	779
2017260	2017256	2.44	487 3-	1/0 ACSR	2441	2256	1831	175	2229	100	44	0.03	2.32	62
OC121116	2017260	2.44	487 3-	REC_100_UNK	2441	2256	1831	175	2229	100	100	0.00	2.32	0
2017243	OC121116	3.14	487 3-	1/0 ACSR	1952	1791	1433	171	2229	100	44	0.97	3.29	1797
2017244	2017243	3.49	422 3-	1/0 ACSR	1762	1623	1285	169	1756	81	35	0.48	3.77	669
2017261	2017244	3.68	274 3-	1/0 ACSR	1677	1547	1220	169	1025	47	21	0.15	3.92	124
2017202	2017261	3.84	15 1-	4 ACSR	0	0	1147	167	41	5	4	0.04	3.95	1
OC121123	2017202	3.84	12 1-	REC_99_UNK	0	0	1147	167	33	4	0	0.00	3.95	0
2017203	OC121123	4.11	12 1-	4 ACSR	0	0	1035	164	33	4	3	0.03	3.98	0
2017262	2017261	3.94	250 3-	1/0 ACSR	1568	1450	1137	167	922	42	19	0.19	4.11	149
2017263	2017262	4.17	241 3-	2 ACSR	1466	1362	1062	166	913	42	24	0.25	4.36	201
2017264	2017263	4.40	234 3-	1/0 ACSR	1392	1295	1007	165	892	41	18	0.16	4.52	119
OC121126	2017264	4.40	230 3-	50-L	1392	1295	1007	165	872	40	81	0.00	4.52	0
2017223	OC121126	4.48	230 3-	1/0 ACSR	1365	1271	987	164	872	40	18	0.06	4.58	45
2017224	2017223	5.04	151 3-	1/0 ACSR	1216	1135	877	162	562	26	11	0.20	4.79	84
2017225	2017224	5.54	59 3-	1/0 ACSR	1104	1034	795	159	212	9	4	0.06	4.84	8
2117002	2017225	6.32	29 1-	2 ACSR	0	0	678	154	74	10	6	0.13	4.97	5
2017306	2017224	5.18	45 1-	4 ACSR	0	0	841	160	142	19	14	0.11	4.89	12
2017307	2017306	5.26	20 1-	4 ACSR	0	0	820	159	59	8	6	0.02	4.91	0
2017336	2017307	5.30	2 1-	1/0 URD PRI AL	0	0	814	343	9	1	1	0.00	4.91	0
SW121253-B	2017336	5.30	0 1-	Open	0	0	814	343	0	0	0	0.00	4.91	0
2017346	2017306	5.26	14 1-	1/0 URD PRI AL	0	0	827	345	39	5	3	0.01	4.90	0
SW121253-A	2017346	5.26	0 1-	Open	0	0	827	345	0	0	0	0.00	4.90	0
2017206	2017223	4.92	78 2-	1/0 ACSR	0	1155	897	162	307	21	9	0.16	4.74	36
2017303	2017206	4.45	44 1-	2 ACSR	0	0	890	162	153	21	12	0.02	4.76	3
2017304	2017303	5.41	42 1-	1/0 ACSR	0	0	814	160	144	20	9	0.11	4.87	9
2017305	2017304	5.73	4 1-	6 ACWC	0	0	746	157	10	1	1	0.01	4.88	0

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
2017200	2017206	5.35	13 1-	6 ACWC	0	0	792	158	67	9	7	0.17	4.91	9
2017201	2017200	5.67	11 1-	4 ACSR	0	0	726	155	57	8	6	0.06	4.97	2
2017245	2017244	4.93	116 3-	1/0 ACSR	1256	1170	905	163	540	25	11	0.42	4.19	148
2017199	2017245	4.99	1 1-	4 ACSR	0	0	886	162	8	1	1	0.00	4.19	0
2017246	2017245	5.00	38 3-	1/0 ACSR	1238	1153	892	162	182	8	4	0.01	4.20	1
2017198	2017246	5.97	32 1-	4 ACSR	0	0	681	153	162	22	16	0.50	4.70	48
CA120032	2017243	3.14	0 3-	Capacitor	1952	1791	1433	171	0	-14	0	0.00	3.29	0
2017257	2017256	2.56	38 3-	1/0 ACSR	2348	2163	1753	174	175	8	3	0.02	2.31	2
2017259	2017257	2.60	33 3-	2 ACSR	2313	2126	1723	174	159	7	4	0.01	2.32	0
2017315	2017259	2.60	27 1-	4 ACSR	0	0	1718	174	115	15	11	0.00	2.32	0
OC121127	2017315	2.60	27 1-	REC_25_UNK	0	0	1718	174	115	15	63	0.00	2.32	0
2017316	OC121127	2.62	27 1-	4 ACSR	0	0	1701	174	115	15	11	0.01	2.33	1
2017317	2017316	2.68	25 1-	2 ACSR	0	0	1657	173	111	15	8	0.03	2.36	2
2017318	2017317	2.84	21 1-	6 ACWC	0	0	1532	171	97	13	10	0.08	2.44	5
2017302	2017318	3.16	13 1-	4 ACSR	0	0	1322	168	55	7	5	0.05	2.49	2
2017258	2017257	2.58	0 3-	1/0 ACSR	2330	2145	1738	174	0	0	0	0.00	2.31	0
SW121051-A	2017258	2.58	0 3-	Open	2330	2145	1738	174	0	0	0	0.00	2.31	0
2017314	2017297	1.32	26 1-	1/0 ACSR	0	0	2509	176	98	13	6	0.06	1.15	3
2017281	2017280	0.71	61 3-	1/0 ACSR	4022	3883	3541	178	244	11	5	0.01	0.83	1
OC121119	2017281	0.71	59 3-	REC_50_UNK	4022	3883	3541	178	241	10	22	0.00	0.83	0
2017282	OC121119	0.74	59 3-	1/0 ACSR	3950	3805	3456	178	241	10	5	0.01	0.84	1
2017345	2017282	1.12	33 1-	1/0 URD PRI AL	0	0	2797	444	134	18	11	0.11	0.95	9
2017289	2017282	1.15	22 3-	1/0 ACSR	3218	3029	2658	176	91	4	2	0.02	0.86	0
2017324	2017289	1.15	0 1-	1/0 ACSR	0	0	2649	176	0	0	0	0.00	0.86	0
SW121255-A	2017324	1.15	0 1-	Open	0	0	2649	176	0	0	0	0.00	0.86	0
2017290	2017289	1.21	3 3-	336.4 ACSR	3159	2967	2591	176	3	0	0	0.00	0.86	0
2017325	2017290	1.30	2 1-	1/0 URD PRI AL	0	0	2484	444	2	0	0	0.00	0.86	0
SW121256-B	2017325	1.30	0 1-	Open	0	0	2484	444	0	0	0	0.00	0.86	0
2017296	2017290	1.29	1 3-	336.4 ACSR	3083	2890	2508	176	1	0	0	0.00	0.86	0
2017349	2017296	1.33	0 1-	1/0 URD PRI AL	0	0	2466	445	0	0	0	0.00	0.86	0
SW121257-B	2017349	1.33	0 1-	Open	0	0	2466	445	0	0	0	0.00	0.86	0
2017240	2017296	1.38	1 3-	336.4 ACSR	3007	2812	2424	176	1	0	0	0.00	0.86	0
2017295	2017240	1.42	1 2-	1/0 ACSR	0	2761	2378	175	1	0	0	0.00	0.86	0
SW121260-B	2017278	0.07	0 3-	Open	5272	5345	5385	180	0	0	0	0.00	0.86	0
CKT 124 total losses:		\$9,927												
SUB	8, CKT 134													
WBER_134	WEST BEREA	0.00	413 3-	SBS_99_SBS	5439	5618	5677	180	2244	99	0	0.00	0.00	0
2017234	WBER_134	0.03	413 3-	336.4 ACSR	5370	5503	5555	180	2244	99	19	0.01	0.01	26
2017283	2017234	2.39	413 3-	336.4 ACSR	2475	2289	1860	175	2244	99	19	1.16	1.17	1960
SW121130-B	2017283	2.39	350 3-	Closed	2475	2289	1860	175	1873	83	0	0.00	1.17	0
SW121130-A	SW121130-B	2.39	350 3-	Closed	2475	2289	1860	175	1873	83	0	0.00	1.17	0
2017284	SW121130-A	2.48	350 3-	336.4 ACSR	2425	2240	1814	175	1873	83	16	0.04	1.21	57
2017285	2017284	3.17	329 3-	1/0 ACSR	1948	1786	1427	171	1772	78	34	0.79	2.00	1240
2017310	2017285	3.25	14 1-	6 ACWC	0	0	1378	170	73	10	7	0.03	2.03	2
2017311	2017310	3.52	9 1-	4 ACSR	0	0	1228	168	51	6	5	0.08	2.12	4
2017312	2017311	3.64	9 1-	2 ACSR	0	0	1180	167	51	6	4	0.03	2.14	0
2017313	2017312	4.14	9 1-	4 ACSR	0	0	975	162	51	6	5	0.08	2.22	2
2017286	2017285	3.47	289 3-	1/0 ACSR	1785	1642	1301	170	1562	69	30	0.31	2.31	448
2017288	2017286	3.90	256 3-	1/0 ACSR	1592	1471	1154	168	1410	63	28	0.39	2.70	514
2017276	2017288	4.04	244 3-	1/0 ACSR	1538	1423	1114	167	1329	59	26	0.12	2.82	153
OC121187	2017276	4.04	241 3-	70-L	1538	1423	1114	167	1321	59	85	0.00	2.82	0

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
2017277	OC121187	4.22	241 3-	1/0 ACSR	1473	1364	1065	166	1321	59	26	0.15	2.98	196
2017268	2017277	4.44	158 3-	1/0 ACSR	1400	1299	1010	165	867	39	17	0.11	3.08	103
SW121134-B	2017268	4.44	147 3-	Closed	1400	1299	1010	165	817	37	0	0.00	3.08	0
SW121134-A	SW121134-B	4.44	147 3-	Closed	1400	1299	1010	165	817	37	0	0.00	3.08	0
2017269	SW121134-A	4.57	147 3-	1/0 ACSR	1363	1265	983	164	817	37	16	0.05	3.14	52
2017270	2017269	4.83	145 3-	2/0 ACSR	1295	1203	931	163	798	36	14	0.08	3.21	75
2017271	2017270	6.06	119 3-	1/0 ACSR	1027	961	736	158	666	31	14	0.28	3.49	261
2017273	2017271	6.19	50 3-	1/0 ACSR	1006	941	720	157	335	15	7	0.03	3.52	8
2017274	2017273	6.49	37 3-	1/0 ACSR	958	897	686	156	241	11	5	0.03	3.55	4
SW121051-B	2017274	6.49	0 3-	Open	958	897	686	156	0	0	0	0.00	3.55	0
2017309	2017273	6.40	3 1-	4 ACSR	0	0	684	155	25	3	2	0.02	3.54	0
2017272	2017271	6.24	3 3-	1/0 ACSR	996	932	714	157	61	13	6	-0.03	3.46	11
CA120035	2017272	6.24	0 3-	Capacitor	996	932	714	157	0	-14	0	0.00	3.46	0
2017267	2017277	4.30	75 3-	1/0 ACSR	1445	1339	1042	166	415	19	8	0.03	3.00	9
2017308	2017267	4.70	37 1-	1/0 ACSR	0	0	952	164	210	28	13	0.13	3.13	14
2017197	2017267	5.32	30 1-	1/0 ACSR	0	0	838	161	166	22	10	0.26	3.26	22
2017332	2017288	4.06	0 1-	4 ACSR	0	0	1087	166	0	0	0	0.00	2.70	0
SW121131-A	2017332	4.06	0 1-	Open	0	0	1087	166	0	0	0	0.00	2.70	0
2017287	2017286	3.72	20 3-	4 ACSR	1609	1498	1175	167	92	4	3	0.03	2.35	2
2017328	2017287	3.96	9 1-	4 ACSR	0	0	1075	165	49	6	5	0.07	2.41	3
2017330	2017328	4.06	8 1-	4 ACSR	0	0	1034	164	43	5	4	0.03	2.44	0
OC121184	2017330	4.06	8 1-	25-H	0	0	1034	164	43	5	24	0.00	2.44	0
2017331	OC121184	4.85	8 1-	4 ACSR	0	0	797	156	43	5	4	0.11	2.55	3
SW121131-B	2017331	4.85	0 1-	Open	0	0	797	156	0	0	0	0.00	2.55	0
2017329	2017328	3.96	0 1-	4 ACSR	0	0	1072	165	0	0	0	0.00	2.41	0
SW121261-A	2017329	3.96	0 1-	Open	0	0	1072	165	0	0	0	0.00	2.41	0
2017235	2017234	0.04	0 3-	336.4 ACSR	5348	5466	5516	180	0	0	0	0.00	0.01	0
SW121136-B	2017235	0.04	0 3-	Open	5348	5466	5516	180	0	0	0	0.00	0.01	0
CKT 134 total losses:		\$5,169												

SUB	8, CKT 144													
WBER_144	WEST BERA	0.00	315 3-	SBS_99_SBS	5439	5618	5677	180	1229	55	0	0.00	0.00	0
2017266	WBER_144	0.04	315 3-	336.4 ACSR	5348	5473	5522	180	1229	55	10	0.01	0.01	11
2017222	2017266	2.70	315 3-	336.4 ACSR	2312	2131	1713	174	1229	55	10	0.94	0.95	725
1917236	2017222	2.71	52 1-	1/0 ACSR	0	0	1702	174	187	25	11	0.01	0.96	1
1917237	1917236	2.72	52 1-	4 ACSR	0	0	1698	174	187	25	18	0.01	0.97	0
OC121227	1917237	2.72	52 1-	REC_70_UNK	0	0	1698	174	187	25	36	0.00	0.97	0
1917240	OC121227	2.73	1 1-	1/0 ACSR	0	0	1694	174	5	0	0	0.00	0.97	0
2017366	OC121227	3.84	51 1-	4 ACSR	0	0	1038	163	182	24	18	1.19	2.16	180
2017365	2017366	4.65	4 1-	4 ACSR	0	0	791	155	13	1	1	0.03	2.19	0
2016007	2017366	4.17	42 1-	4 ACSR	0	0	923	159	147	20	14	0.30	2.46	39
2016010	2016007	4.17	19 1-	4 ACSR	0	0	921	159	95	13	9	0.00	2.46	0
OC121247	2016010	4.17	19 1-	25-H	0	0	921	159	95	13	52	0.00	2.46	0
2016011	OC121247	5.97	19 1-	4 ACSR	0	0	565	144	95	13	9	0.53	3.00	30
2016008	2016007	4.33	23 1-	4 ACSR	0	0	875	158	52	7	5	0.05	2.51	2
OC121246	2016008	4.33	21 1-	25-H	0	0	875	158	46	6	25	0.00	2.51	0
2016009	OC121246	5.86	21 1-	4 ACSR	0	0	578	145	46	6	4	0.22	2.73	6
SW121261-B	2016009	5.86	0 1-	Open	0	0	578	145	0	0	0	0.00	2.73	0
1917180	2017222	3.38	231 3-	336.4 ACSR	2011	1841	1451	173	899	40	8	0.19	1.14	111
1917152	1917180	3.51	20 1-	4 ACSR	0	0	1378	171	160	21	16	0.12	1.26	17
OC121245	1917152	3.51	20 1-	REC_25_UNK	0	0	1378	171	160	21	87	0.00	1.26	0
1917153	OC121245	5.13	20 1-	4 ACSR	0	0	775	155	160	21	16	0.81	2.07	75

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1917187	1917180	3.81	208 3-	336.4 ACSR	1860	1697	1324	172	731	33	6	0.10	1.24	46
OC121230	1917187	3.81	206 3-	REC_100_UNK	1860	1697	1324	172	728	33	33	0.00	1.24	0
1917188	OC121230	3.86	206 3-	336.4 ACSR	1845	1683	1312	172	728	33	6	0.01	1.25	5
1917210	1917188	4.00	173 3-	4/0 ACSR	1791	1632	1268	171	627	28	8	0.04	1.28	18
1917211	1917210	5.01	115 3-	4/0 ACSR	1473	1333	1020	168	455	20	6	0.18	1.47	55
SW121190-B	1917211	5.01	86 3-	Closed	1473	1333	1020	168	348	15	0	0.00	1.47	0
SW121190-A	SW121190-B	5.01	86 3-	Closed	1473	1333	1020	168	348	15	0	0.00	1.47	0
1916027	SW121190-A	5.38	86 3-	4/0 ACSR	1382	1252	951	167	348	15	5	0.06	1.52	15
1916028	1916027	7.08	75 3-	4/0 ACSR	1077	976	727	161	319	14	4	0.22	1.75	48
SW121193-B	1916028	7.08	59 3-	Closed	1077	976	727	161	261	11	0	0.00	1.75	0
SW121193-A	SW121193-B	7.08	59 3-	Closed	1077	976	727	161	261	11	0	0.00	1.75	0
1916029	SW121193-A	7.50	59 3-	4/0 ACSR	1020	925	686	160	261	11	4	0.05	1.79	9
1816066	1916029	8.28	30 3-	4/0 ACSR	931	845	623	158	139	6	2	0.05	1.84	5
1816051	1816066	8.38	30 3-	1/0 ACSR	917	833	613	157	138	6	3	0.01	1.85	1
OC121243	1816051	8.38	30 3-	35-H	917	833	613	157	138	6	18	0.00	1.85	0
1816048	OC121243	8.71	30 3-	1/0 ACSR	876	797	587	156	138	6	3	0.04	1.89	4
1816049	1816048	9.77	30 3-	4/0 ACSR	787	717	524	152	138	6	2	0.07	1.96	7
1817006	1816049	10.94	29 3-	1/0 ACSR	686	629	460	147	138	6	3	0.11	2.07	12
1817008	1817006	11.17	18 1-	4 ACSR	0	0	444	145	107	14	11	0.08	2.15	5
1816050	1816066	8.60	0 3-	4/0 ACSR	899	816	600	157	0	0	0	0.00	1.84	0
SW120677-B	1816050	8.60	0 3-	Open	899	816	600	157	0	0	0	0.00	1.84	0
1916021	1916029	7.51	26 1-	2 ACSR	0	0	685	160	113	15	9	0.00	1.80	0
OC121240	1916021	7.51	26 1-	35-L	0	0	685	160	113	15	44	0.00	1.80	0
1916022	OC121240	8.91	26 1-	2 ACSR	0	0	545	151	113	15	9	0.43	2.23	31
1917269	1916022	9.37	7 1-	4 ACSR	0	0	501	147	31	4	3	0.04	2.27	0
1916033	1916027	5.56	11 1-	4 ACSR	0	0	903	165	28	3	3	0.03	1.55	0
OC121239	1916033	5.56	8 1-	REC_35_UNK	0	0	903	165	22	3	9	0.00	1.55	0
1916034	OC121239	6.14	8 1-	4 ACSR	0	0	770	159	22	3	2	0.04	1.59	0
1917145	1917210	4.00	58 1-	4 ACSR	0	0	1266	171	171	23	17	0.01	1.29	0
OC121237	1917145	4.00	58 1-	REC_50_UNK	0	0	1266	171	171	23	47	0.00	1.29	0
1917146	OC121237	6.46	58 1-	4 ACSR	0	0	605	148	171	23	17	1.84	3.13	220
1917148	1917146	6.57	27 1-	4 ACSR	0	0	589	147	70	9	7	0.05	3.18	3
OC121238	1917148	6.57	27 1-	25-H	0	0	589	147	70	9	39	0.00	3.18	0
1917149	OC121238	6.69	27 1-	4 ACSR	0	0	574	146	70	9	7	0.05	3.23	3
1917150	1917149	6.90	22 1-	2 ACSR	0	0	554	145	55	7	4	0.05	3.28	2
1917151	1917150	7.69	22 1-	4 ACSR	0	0	474	139	55	7	5	0.24	3.52	11
OC121244	1917151	7.69	17 1-	REC_15_UNK	0	0	474	139	42	5	39	0.00	3.52	0
1917139	OC121244	8.85	17 1-	4 ACSR	0	0	391	131	42	5	4	0.15	3.67	4
1917147	1917146	6.62	1 1-	4 ACSR	0	0	583	147	0	0	0	0.00	3.13	0
1917208	1917188	4.02	32 3-	1/0 ACSR	1768	1608	1254	171	101	4	2	0.01	1.26	0
OC121233	1917208	4.02	32 3-	50-H	1768	1608	1254	171	101	4	9	0.00	1.26	0
1916042	OC121233	5.16	32 3-	1/0 ACSR	1352	1243	952	165	101	4	2	0.08	1.34	6
1916040	1916042	5.16	7 1-	6 ACWC	0	0	950	165	15	1	1	0.00	1.34	0
OC121234	1916040	5.16	7 1-	REC_25_UNK	0	0	950	165	15	1	8	0.00	1.34	0
1916031	OC121234	5.82	7 1-	6 ACWC	0	0	787	159	15	1	1	0.03	1.37	0
1916032	1916031	5.94	0 1-	4 ACSR	0	0	760	158	0	0	0	0.00	1.37	0
1916026	1916042	5.45	17 3-	1/0 ACSR	1272	1172	895	164	59	2	1	0.01	1.35	0
1916025	1916026	5.47	16 2-	1/0 ACSR	0	0	892	164	55	3	2	0.00	1.35	0
1916035	1916025	5.53	7 1-	4 ACSR	0	0	876	163	23	3	2	0.01	1.36	0
OC121235	1916035	5.53	7 1-	REC_35_UNK	0	0	876	163	23	3	9	0.00	1.36	0
1916036	OC121235	5.57	7 1-	4 ACSR	0	0	865	163	23	3	2	0.01	1.36	0
1916037	1916036	5.67	5 1-	6 ACWC	0	0	842	162	18	2	2	0.01	1.37	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES CONS	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1916038	1916037	5.79	2 1-	2 ACSR	0	0	819	161	13	1	1	0.00	1.38	0
1916039	1916038	5.96	1 1-	4 ACSR	0	0	782	159	4	0	0	0.00	1.38	0
1916023	1916025	5.52	8 1-	4 ACSR	0	0	878	163	33	4	3	0.01	1.36	0
OC121236	1916023	5.52	8 1-	REC_35_UNK	0	0	878	163	33	4	13	0.00	1.36	0
1916024	OC121236	6.27	8 1-	4 ACSR	0	0	716	156	33	4	3	0.08	1.44	1
2017275	2017266	0.05	0 3-	336.4 ACSR	5322	5431	5477	180	0	0	0	0.00	0.01	0
SW121260-A	2017275	0.05	0 3-	Open	5322	5431	5477	180	0	0	0	0.00	0.01	0
CKT 144 total losses:	\$1,708													
SUB 8 total losses:	\$45,633													

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 9, HICKORY PLAINS			3291		7135	7464	7556	180	22596					
SUB 9, CKT 104														
HKPL_104	HICKORY PLAINS	0.00	184 3-	SBS_99_SBS	7135	7464	7556	180	1208	54	0	0.00	0.00	0
1918291	HKPL_104	0.03	184 3-	350 MCM URD PRI	7083	7351	7495	478	1208	54	17	0.01	0.01	9
1918179	1918291	0.58	184 3-	4/0 ACSR	4902	4741	4255	178	1208	54	16	0.29	0.30	230
1918252	1918179	0.61	26 1-	4 ACSR	0	0	4138	178	176	24	17	0.03	0.32	4
OC120023	1918252	0.61	26 1-	REC_35_UNK	0	0	4138	178	176	24	69	0.00	0.32	0
1918253	OC120023	0.89	26 1-	4 ACSR	0	0	2996	175	176	24	17	0.22	0.54	26
1918254	1918253	1.23	11 1-	1/0 ACSR	0	0	2432	173	64	8	4	0.04	0.57	1
1918290	1918254	1.29	1 1-	1/0 URD PRI AL	0	0	2349	427	6	0	1	0.00	0.58	0
SW120318-A	1918290	1.29	0 1-	Open	0	0	2349	427	0	0	0	0.00	0.58	0
1918180	1918179	2.94	129 3-	4/0 ACSR	2058	1872	1461	171	862	39	12	0.63	0.92	294
1918183	1918180	3.32	46 3-	336.4 ACSR	1914	1738	1345	170	290	13	2	0.03	0.96	6
1918184	1918183	3.90	19 3-	336.4 ACSR	1732	1572	1201	169	116	5	1	0.01	0.97	0
SW120314-B	1918184	3.90	0 1-	Open	0	0	1201	169	0	0	0	0.00	0.97	0
1918285	1918183	3.49	22 1-	1/0 URD PRI AL	0	0	1289	398	154	21	12	0.09	1.04	10
1918289	1918285	3.59	3 1-	1/0 URD PRI AL	0	0	1254	394	22	2	2	0.00	1.05	0
SW120313-A	1918289	3.59	0 1-	Open	0	0	1254	394	0	0	0	0.00	1.05	0
1918288	1918285	3.64	10 1-	1/0 URD PRI AL	0	0	1237	392	69	9	6	0.02	1.07	0
SW120313-B	1918288	3.64	0 1-	Open	0	0	1237	392	0	0	0	0.00	1.07	0
1918181	1918180	3.22	1 3-	4/0 ACSR	1922	1745	1353	170	1	0	0	0.00	0.92	0
1918182	1918181	3.80	0 3-	4/0 ACSR	1693	1538	1176	168	0	0	0	0.00	0.92	0
SW120521-A	1918182	3.80	0 3-	Open	1693	1538	1176	168	0	0	0	0.00	0.92	0
1918154	1918181	3.53	1 1-	4 ACSR	0	0	1189	167	1	0	0	0.00	0.92	0
CKT 104 total losses:		\$580												
SUB 9, CKT 124														
HKPL_124	HICKORY PLAINS	0.00	722 3-	SBS_99_SBS	7135	7464	7556	180	4784	215	0	0.00	0.00	0
1918174	HKPL_124	0.01	722 3-	336.4 ACSR	7079	7370	7458	180	4784	215	41	0.02	0.02	57
1918169	1918174	0.02	722 3-	336.4 ACSR	7037	7302	7386	180	4784	215	41	0.01	0.03	42
1918170	1918169	0.65	722 3-	4/0 ACSR	4692	4502	3999	178	4784	215	63	1.31	1.34	4472
1918251	1918170	0.91	11 1-	1/0 ACSR	0	0	3259	177	95	13	6	0.04	1.38	2
SW120317-A	1918251	0.91	0 1-	Open	0	0	3259	177	0	0	0	0.00	1.38	0
1918171	1918170	0.88	700 3-	4/0 ACSR	4157	3940	3400	177	4580	207	61	0.46	1.80	1531
1918257	1918171	0.90	34 1-	1/0 ACSR	0	0	3368	177	293	40	18	0.01	1.81	3
OC120057	1918257	0.90	34 1-	REC_50_UNK	0	0	3368	177	293	40	81	0.00	1.81	0
1918258	OC120057	1.40	34 1-	1/0 ACSR	0	0	2451	175	293	40	18	0.33	2.15	62
1918250	1918258	1.42	17 1-	1/0 ACSR	0	0	2422	175	137	18	8	0.01	2.16	0
1918286	1918250	1.80	17 1-	1/0 URD PRI AL	0	0	2027	421	137	18	11	0.11	2.27	9
SW120318-B	1918286	1.80	0 1-	Open	0	0	2027	421	0	0	0	0.00	2.27	0
1918249	1918258	1.44	0 1-	1/0 ACSR	0	0	2397	174	0	0	0	0.00	2.15	0
SW120317-B	1918249	1.44	0 1-	Open	0	0	2397	174	0	0	0	0.00	2.15	0
1918172	1918171	1.66	649 3-	4/0 ACSR	3002	2776	2261	175	4128	187	55	1.33	3.13	3977
1918173	1918172	1.91	539 3-	4/0 ACSR	2760	2541	2047	174	3444	157	46	0.35	3.48	935
1918255	1918173	1.94	95 1-	1/0 ACSR	0	0	2010	174	545	76	33	0.07	3.55	29
OC120059	1918255	1.94	95 1-	REC_99_UNK	0	0	2010	174	545	76	0	0.00	3.55	0
1918256	OC120059	3.08	95 1-	1/0 ACSR	0	0	1325	168	545	76	33	1.12	4.67	340
2018187	1918256	3.34	12 1-	4 ACSR	0	0	1181	166	80	11	8	0.07	4.74	4
2018188	2018187	3.39	1 1-	2 ACSR	0	0	1162	165	6	0	0	0.00	4.74	0
1918166	1918173	2.00	439 3-	4/0 ACSR	2678	2462	1976	174	2875	131	39	0.11	3.59	247
1918236	1918166	2.02	93 3-	1/0 ACSR	2658	2442	1959	174	682	31	14	0.01	3.60	6
OC120067	1918236	2.02	93 3-	REC_50_UNK	2658	2442	1959	174	682	31	64	0.00	3.60	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
	1918229	OC120067	2.48	93 3-	1/0 ACSR	2234	2047	1627	171	682	31 14	0.23	3.83	115
	1918163	1918229	2.51	42 1-	1/0 ACSR	0	0	1612	171	320	44 19	0.03	3.86	6
	1918165	1918163	3.01	17 1-	1/0 ACSR	0	0	1357	169	137	19 8	0.11	3.97	8
	SW120319-A	1918165	3.01	0 1-	Open	0	0	1357	169	0	0 0	0.00	3.97	0
	1918164	1918163	3.15	24 1-	1/0 ACSR	0	0	1300	168	182	25 11	0.19	4.04	18
	SW120319-B	1918164	3.15	0 1-	Open	0	0	1300	168	0	0 0	0.00	4.04	0
	1918230	1918229	2.64	21 3-	1/0 ACSR	2115	1943	1537	171	182	8 4	0.02	3.85	3
	1918273	1918230	3.12	18 1-	4 ACSR	0	0	1222	166	162	22 16	0.25	4.10	24
	1918167	1918166	2.39	345 3-	4/0 ACSR	2379	2175	1722	173	2191	100 29	0.33	3.93	594
	1918264	1918167	2.62	81 1-	1/0 ACSR	0	0	1580	171	537	75 33	0.38	4.31	157
	OC120060	1918264	2.62	75 1-	REC_70_UNK	0	0	1580	171	501	70 101	0.00	4.31	0
	1918265	OC120060	4.22	75 1-	1/0 ACSR	0	0	1000	164	501	70 31	1.66	5.97	500
	1918272	1918265	4.36	0 1-	1/0 ACSR	0	0	967	163	0	0 0	0.00	5.97	0
	SW120440-A	1918272	4.36	0 1-	Open	0	0	967	163	0	0 0	0.00	5.97	0
	1918266	1918265	4.52	21 1-	4 ACSR	0	0	905	161	149	21 15	0.15	6.11	13
	1918271	1918266	4.56	0 1-	336.4 ACSR	0	0	900	161	0	0 0	0.00	6.11	0
	SW120314-A	1918271	4.56	0 1-	Open	0	0	900	161	0	0 0	0.00	6.11	0
	1918211	1918167	2.64	252 3-	4/0 ACSR	2220	2024	1591	172	1586	74 22	0.19	4.11	211
	1918214	1918211	2.64	244 3-	1/0 ACSR	2217	2021	1589	172	1559	73 32	0.00	4.12	6
	1918261	1918214	3.08	16 1-	1/0 ACSR	0	0	1372	170	143	20 9	0.10	4.22	7
	SW120315-A	1918261	3.08	0 1-	Open	0	0	1372	170	0	0 0	0.00	4.22	0
	1918233	1918214	2.82	226 3-	1/0 ACSR	2090	1905	1494	171	1399	65 29	0.20	4.32	228
	1918260	1918233	3.62	19 1-	1/0 ACSR	0	0	1172	167	158	22 10	0.20	4.52	17
	SW120315-B	1918260	3.62	0 1-	Open	0	0	1172	167	0	0 0	0.00	4.52	0
	1918234	1918233	3.13	198 3-	1/0 ACSR	1895	1735	1350	169	1171	55 24	0.30	4.62	288
	OC120063	1918234	3.13	191 3-	REC_99_UNK	1895	1735	1350	169	1127	53 0	0.00	4.62	0
	1918235	OC120063	3.71	191 3-	1/0 ACSR	1612	1486	1145	167	1127	53 23	0.52	5.14	477
	2018226	1918235	3.87	175 3-	4/0 ACSR	1563	1440	1106	166	1044	49 15	0.08	5.22	61
	2018162	2018226	4.04	51 3-	4/0 ACSR	1514	1395	1068	166	377	17 5	0.03	5.25	8
	2018167	2018162	4.88	50 3-	1/0 ACSR	1256	1165	885	162	373	17 8	0.13	5.38	27
	SW120076-B	2018167	4.88	0 3-	Open	1256	1165	885	162	0	0 0	0.00	5.38	0
	2018121	2018226	4.18	123 2-	4 ACSR	0	1290	989	163	659	46 33	0.61	5.83	359
	1918155	2018121	4.22	112 1-	4 ACSR	0	0	977	163	627	89 64	0.14	5.98	81
	1918156	1918155	4.47	112 1-	6 ACWC	0	0	900	160	627	89 64	0.94	6.92	506
	1918159	1918156	4.56	24 1-	6 ACWC	0	0	874	159	165	23 17	0.09	7.01	14
	1918160	1918159	4.93	22 1-	4 ACSR	0	0	782	156	149	21 15	0.36	7.37	49
	1918161	1918160	5.11	21 1-	1/0 ACSR	0	0	757	155	148	21 9	0.05	7.42	4
	1918162	1918161	5.34	2 1-	2 ACSR	0	0	720	154	13	1 1	0.01	7.43	0
	1918157	1918156	4.47	72 1-	4 ACSR	0	0	898	160	368	52 38	0.01	6.93	5
	OC120064	1918157	4.47	72 1-	REC_35_UNK	0	0	898	160	368	52 151	0.00	6.93	0
	2018221	OC120064	6.09	72 1-	4 ACSR	0	0	582	146	368	52 38	1.96	8.89	436
	1918175	1918167	3.88	1 3-	4/0 ACSR	1664	1512	1154	168	12	14 4	-0.26	3.67	44
	1919123	1918175	4.85	0 3-	4/0 ACSR	1390	1264	949	165	0	0 0	0.00	3.67	0
	SW120449-A	1919123	4.85	0 3-	Open	1390	1264	949	165	0	0 0	0.00	3.67	0
	CA120002	1918175	3.88	0 3-	Capacitor	1664	1512	1154	168	0	-14 0	0.00	3.67	0
	1918267	1918172	1.74	63 1-	4 ACSR	0	0	2146	174	318	44 32	0.15	3.28	43
	OC120058	1918267	1.74	63 1-	REC_50_UNK	0	0	2146	174	318	44 89	0.00	3.28	0
	1918268	OC120058	2.17	63 1-	4 ACSR	0	0	1631	169	318	44 32	0.70	3.98	168
	1918269	1918268	2.38	42 1-	6 ACWC	0	0	1455	167	185	26 19	0.21	4.19	30
	1918259	1918269	2.74	30 1-	4 ACSR	0	0	1218	164	125	17 13	0.15	4.33	11
	1918168	1918174	0.01	0 3-	336.4 ACSR	7072	7359	7446	180	0	0 0	0.00	0.02	0
	SW120316-B	1918168	0.01	0 3-	Open	7072	7359	7446	180	0	0 0	0.00	0.02	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS	
CKT 124 total losses:		\$16,234													
SUB	9, CKT 134														
	HKPL_134	HICKORY PLAINS	0.00	1119 3-	SBS_99_SBS	7135	7464	7556	180	7027	324	0	0.00	0.00	0
	1918213	HKPL_134	0.01	1119 3-	336.4 ACSR	7078	7368	7456	180	7027	324	61	0.03	0.03	132
	1918210	1918213	0.01	0 3-	336.4 ACSR	7071	7358	7445	180	0	0	0	0.00	0.03	0
	SW120316-A	1918210	0.01	0 3-	Open	7071	7358	7445	180	0	0	0	0.00	0.03	0
	1918215	1918213	0.08	1119 3-	336.4 ACSR	6789	6915	6968	180	7026	324	61	0.16	0.20	691
	1918148	1918215	0.14	34 1-	6 ACWC	0	0	6295	179	275	37	27	0.10	0.30	23
	1918149	1918148	0.23	31 1-	2 ACSR	0	0	5614	178	239	32	18	0.07	0.37	13
	1918152	1918149	0.27	20 1-	4 ACSR	0	0	5256	178	174	23	17	0.04	0.41	7
	2018222	1918152	0.74	19 1-	1/0 ACSR	0	0	3772	176	174	23	10	0.13	0.54	11
	1918216	1918215	0.53	1085 3-	336.4 ACSR	5325	5157	4761	179	6745	312	59	1.03	1.23	4135
	1918282	1918216	0.55	41 1-	1/0 URD PRI AL	0	0	4696	469	234	32	19	0.02	1.25	4
	2018220	1918282	1.04	39 1-	1/0 ACSR	0	0	3121	176	225	30	13	0.17	1.42	20
	2018225	1918216	1.10	999 3-	336.4 ACSR	4159	3919	3373	178	6285	292	55	1.20	2.43	4498
	2018154	2018225	1.60	923 3-	336.4 ACSR	3478	3232	2678	177	5836	273	52	1.00	3.43	3528
	2018155	2018154	3.46	854 3-	336.4 ACSR	2160	1962	1517	173	5311	250	47	3.27	6.70	10770
	OC120203	2018155	3.46	792 3-	REC_99_VWE	2160	1962	1517	173	4867	234	0	0.00	6.70	0
	2018156	OC120203	3.70	792 3-	336.4 ACSR	2062	1870	1439	172	4867	234	44	0.39	7.09	1233
	2018139	2018156	3.89	758 3-	336.4 ACSR	1986	1798	1379	172	4614	222	42	0.31	7.40	948
	2018197	2018139	3.90	84 1-	1/0 ACSR	0	0	1376	172	491	70	31	0.01	7.41	4
	OC120187	2018197	3.90	84 1-	REC_50_UNK	0	0	1376	172	491	70	142	0.00	7.41	0
	2018198	OC120187	3.98	84 1-	1/0 ACSR	0	0	1345	171	491	70	31	0.12	7.53	47
	2018200	2018198	4.73	78 1-	6 ACWC	0	0	1012	164	453	65	47	1.21	8.74	349
	2019042	2018200	6.04	13 1-	4 ACSR	0	0	681	152	39	5	4	0.17	8.91	4
	2018199	2018198	4.07	3 1-	1/0 ACSR	0	0	1308	171	20	2	1	0.00	7.53	0
	SW120320-B	2018199	4.07	0 1-	Open	0	0	1308	171	0	0	0	0.00	7.53	0
	2018140	2018139	3.97	670 3-	336.4 ACSR	1959	1774	1358	172	4078	197	37	0.10	7.50	269
	RG120002	2018140	3.97	670 3-	219	1959	1774	1358	172	4075	197	90	-7.50	0.00	0
	2018141	RG120002	4.58	670 3-	336.4 ACSR	1760	1594	1204	170	4075	185	35	0.78	0.78	1983
	2018163	2018141	4.59	289 3-	1/0 ACSR	1753	1588	1200	170	1757	80	35	0.02	0.80	31
	OC120190	2018163	4.59	289 3-	REC_70_UNK	1753	1588	1200	170	1757	80	115	0.00	0.80	0
	2018164	OC120190	5.67	289 3-	1/0 ACSR	1359	1247	932	165	1757	80	35	1.36	2.16	1777
	2018115	2018164	5.67	44 1-	6 ACWC	0	0	930	165	245	33	24	0.01	2.17	2
	OC120191	2018115	5.67	44 1-	REC_35_UNK	0	0	930	165	245	33	97	0.00	2.17	0
	2018116	OC120191	6.47	44 1-	6 ACWC	0	0	744	157	245	33	24	0.63	2.80	91
	2018117	2018116	6.56	2 1-	4 ACSR	0	0	726	156	8	1	1	0.00	2.80	0
	2018122	2018164	5.97	178 3-	1/0 ACSR	1277	1175	876	163	1120	51	22	0.25	2.41	216
	2018127	2018122	6.18	48 3-	1/0 ACSR	1223	1127	840	162	295	13	6	0.04	2.45	9
	2018177	2018127	6.45	10 1-	6 ACWC	0	0	781	160	51	7	5	0.04	2.50	1
	2018207	2018127	6.55	25 1-	1/0 ACSR	0	0	784	161	152	21	9	0.10	2.56	9
	2018196	2018207	6.61	4 1-	4 ACSR	0	0	773	160	25	3	2	0.00	2.56	0
	2018123	2018122	6.34	103 3-	1/0 ACSR	1185	1094	815	162	642	29	13	0.17	2.58	82
	2018124	2018123	6.42	74 3-	4 ACSR	1158	1072	798	161	475	21	16	0.07	2.65	28
	2019054	2018124	6.63	16 3-	1/0 ACSR	1115	1033	768	160	90	4	2	0.01	2.65	0
	SW120070-B	2019054	6.63	0 3-	Open	1115	1033	768	160	0	0	0	0.00	2.65	0
	2018189	2018124	6.47	51 2-	1/0 ACSR	0	0	1062	161	345	23	10	0.02	2.67	6
	OC120192	2018189	6.47	51 2-	REC_35_UNK	0	0	1062	161	345	23	68	0.00	2.67	0
	2019056	OC120192	6.64	51 2-	1/0 ACSR	0	0	1029	160	345	23	10	0.07	2.74	16
	2019041	2019056	7.19	32 1-	4 ACSR	0	0	670	155	222	30	22	0.39	3.12	50
	2018148	2018141	4.67	366 3-	336.4 ACSR	1732	1568	1183	170	2168	99	19	0.07	0.85	94

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS	
SUB	9, CKT 144														
	HKPL_144	HICKORY PLAINS	0.00	580 3-	SBS_99_SBS	7135	7464	7556	180	3847	174	0	0.00	0.00	0
2018223		HKPL_144	0.42	580 3-	336.4 ACSR	5631	5503	5239	179	3847	174	33	0.50	0.50	1204
2018138		2018223	0.75	14 3-	1/0 ACSR	4474	4250	3842	177	98	4	2	0.01	0.51	0
2018126		2018223	0.50	549 3-	336.4 ACSR	5397	5242	4928	179	3621	165	31	0.10	0.60	218
2018153		2018126	0.73	18 3-	1/0 ACSR	4616	4400	3993	178	127	5	3	0.02	0.62	2
2018212		2018153	0.95	10 1-	1/0 URD PRI AL	0	0	3418	451	80	10	6	0.04	0.65	2
2018128		2018126	0.82	517 3-	336.4 ACSR	4651	4437	4011	178	3383	154	29	0.34	0.94	734
2018129		2018128	0.88	469 3-	336.4 ACSR	4544	4324	3887	178	3088	141	27	0.05	0.99	106
2018165		2018129	0.94	416 3-	336.4 ACSR	4433	4209	3762	178	2800	127	24	0.05	1.05	94
2018120		2018165	1.18	25 1-	1/0 ACSR	0	0	3141	177	171	23	10	0.07	1.11	6
2018166		2018165	1.00	389 3-	336.4 ACSR	4320	4092	3637	178	2612	119	23	0.05	1.10	88
2018152		2018166	1.08	66 3-	1/0 ACSR	4119	3882	3424	178	492	22	10	0.03	1.13	10
2018192		2018152	1.12	55 1-	1/0 ACSR	0	0	3328	177	339	46	20	0.04	1.17	10
OC120226		2018192	1.12	53 1-	50-L	0	0	3328	177	324	44	89	0.00	1.17	0
2018191		OC120226	1.17	53 1-	1/0 ACSR	0	0	3226	177	324	44	19	0.04	1.21	10
2018209		2018191	1.31	16 1-	1/0 ACSR	0	0	2922	176	144	19	9	0.03	1.24	2
2018208		2018191	1.40	33 1-	1/0 ACSR	0	0	2772	176	150	20	9	0.05	1.26	4
2018136		2018166	1.12	323 3-	336.4 ACSR	4115	3880	3403	178	2120	96	18	0.08	1.18	104
2018151		2018136	1.26	80 3-	1/0 ACSR	3810	3565	3095	177	391	17	8	0.04	1.22	13
2018195		2018151	1.30	72 1-	4 ACSR	0	0	2995	177	363	49	36	0.08	1.30	26
2018201		2018195	1.33	70 1-	2 ACSR	0	0	2920	176	352	48	27	0.05	1.36	15
2018202		2018201	1.39	69 1-	4 ACSR	0	0	2773	176	351	48	34	0.13	1.49	39
OC120227		2018202	1.39	68 1-	REC_70_UNK	0	0	2773	176	342	47	67	0.00	1.49	0
2018203		OC120227	1.40	68 1-	4 ACSR	0	0	2757	176	342	47	34	0.02	1.50	4
2018204		2018203	2.04	67 1-	1/0 ACSR	0	0	1973	172	336	46	20	0.52	2.02	115
2018206		2018204	2.22	6 1-	1/0 ACSR	0	0	1820	172	37	5	2	0.01	2.03	0
SW120326-B		2018206	2.22	0 1-	Open	0	0	1820	172	0	0	0	0.00	2.03	0
2018205		2018204	2.59	19 1-	1/0 ACSR	0	0	1579	170	153	21	9	0.13	2.15	10
2018132		2018136	1.43	228 3-	1/0 ACSR	3490	3240	2786	176	1518	69	30	0.37	1.55	448
OC120230		2018132	1.43	222 3-	100-L	3490	3240	2786	176	1487	68	68	0.00	1.55	0
2018133		OC120230	1.45	222 3-	1/0 ACSR	3448	3198	2747	176	1487	68	30	0.03	1.57	32
2018137		2018133	1.51	108 3-	1/0 ACSR	3349	3105	2655	176	809	37	16	0.04	1.61	24
2018150		2018137	1.83	105 3-	1/0 ACSR	2878	2674	2232	174	779	35	16	0.13	1.74	65
2018119		2018150	2.11	17 1-	4 ACSR	0	0	1848	171	131	17	13	0.11	1.86	9
SW120323-B		2018119	2.11	0 1-	Open	0	0	1848	171	0	0	0	0.00	1.86	0
2018186		2018150	2.19	16 1-	4 ACSR	0	0	1755	170	117	16	11	0.13	1.88	9
2018118		2018137	1.52	0 1-	4 ACSR	0	0	2643	176	0	0	0	0.00	1.61	0
SW120323-A		2018118	1.52	0 1-	Open	0	0	2643	176	0	0	0	0.00	1.61	0
2018180		2018133	2.33	104 1-	1/0 ACSR	0	0	1779	172	580	80	35	1.37	2.95	554
2018182		2018180	2.46	79 1-	1/0 ACSR	0	0	1693	171	415	57	25	0.16	3.11	52
OC120231		2018182	2.46	78 1-	REC_50_UNK	0	0	1693	171	412	57	115	0.00	3.11	0
2018183		OC120231	2.50	78 1-	1/0 ACSR	0	0	1666	171	412	57	25	0.05	3.16	17
2018184		2018183	4.03	77 1-	4 ACSR	0	0	860	156	409	57	41	2.35	5.51	612
OC120232		2018184	4.03	12 1-	REC_25_UNK	0	0	860	156	70	9	40	0.00	5.51	0
2018185		OC120232	5.17	12 1-	4 ACSR	0	0	622	146	70	9	7	0.26	5.77	11
2018181		2018180	2.41	1 1-	4 ACSR	0	0	1699	171	0	0	0	0.00	2.95	0
2018193		2018129	1.55	52 1-	1/0 ACSR	0	0	2471	175	285	39	17	0.33	1.32	51
2018194		2018193	1.57	10 1-	4 ACSR	0	0	2438	175	30	4	3	0.00	1.33	0
2018178		2018128	0.83	39 1-	1/0 ACSR	0	0	3992	178	215	29	13	0.00	0.94	0
OC120225		2018178	0.83	39 1-	REC_50_UNK	0	0	3992	178	215	29	59	0.00	0.94	0
2018179		OC120225	1.14	39 1-	1/0 ACSR	0	0	3161	177	215	29	13	0.10	1.05	11

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
CKT 144 total losses:		\$4,711												
SUB 9, CKT 154														
HKPL_154	HICKORY PLAINS	0.00	391 3-	SBS_99_SBS	7135	7464	7556	180	3552	161	0	0.00	0.00	0
1918283	HKPL_154	0.02	391 3-	350 MCM URD PRI	7099	7385	7514	478	3552	161	50	0.02	0.02	56
2018224	1918283	1.05	391 3-	336.4 ACSR	4258	4025	3478	178	3552	161	30	1.16	1.17	2580
2017364	2018224	1.95	32 3-	336.4 ACSR	3131	2892	2348	176	195	8	2	0.03	1.21	3
1917265	2017364	2.16	4 1-	4 ACSR	0	0	2038	174	43	5	4	0.04	1.25	1
SW120239-B	1917265	2.16	1 1-	Closed	0	0	2038	174	19	2	0	0.00	1.25	0
SW120239-A	SW120239-B	2.16	1 1-	Closed	0	0	2038	174	19	2	0	0.00	1.25	0
1917127	SW120239-A	2.29	1 1-	4 ACSR	0	0	1884	172	19	2	2	0.01	1.26	0
SW120310-A	1917127	2.29	0 1-	Open	0	0	1884	172	0	0	0	0.00	1.26	0
2017221	2017364	2.03	0 3-	336.4 ACSR	3057	2820	2281	176	0	0	0	0.00	1.21	0
SW120238-A	2017221	2.03	0 3-	Open	3057	2820	2281	176	0	0	0	0.00	1.21	0
2018146	2018224	1.44	17 3-	4 ACSR	3086	2920	2426	173	89	4	3	0.03	1.21	2
SW120235-B	2018146	1.44	0 3-	Open	3086	2920	2426	173	0	0	0	0.00	1.21	0
2018142	2018224	1.26	334 3-	336.4 ACSR	3926	3684	3124	177	3198	146	28	0.22	1.39	440
OC120267	2018142	1.26	324 3-	100-L	3926	3684	3124	177	3154	144	145	0.00	1.39	0
2018143	OC120267	1.38	324 3-	336.4 ACSR	3763	3520	2958	177	3154	144	27	0.12	1.51	239
2018109	2018143	1.41	31 1-	4 ACSR	0	0	2892	177	219	30	22	0.04	1.55	7
OC120268	2018109	1.41	31 1-	50-4H	0	0	2892	177	219	30	60	0.00	1.55	0
2017359	OC120268	1.72	31 1-	4 ACSR	0	0	2241	173	219	30	22	0.33	1.87	51
2017176	2017359	1.88	15 1-	1/0 ACSR	0	0	2077	173	106	14	6	0.03	1.90	1
2017333	2017176	1.88	1 1-	1/0 URD PRI AL	0	0	2072	426	6	0	0	0.00	1.90	0
2018144	2018143	1.42	293 3-	336.4 ACSR	3715	3471	2909	177	2933	134	25	0.03	1.54	65
2018130	2018144	1.48	260 3-	336.4 ACSR	3629	3385	2824	177	2736	125	24	0.06	1.60	104
2018134	2018130	1.55	28 3-	4 ACSR	3475	3216	2685	176	363	16	12	0.04	1.64	13
2018145	2018134	1.58	26 3-	1/0 ACSR	3416	3157	2633	176	350	16	7	0.01	1.65	2
2017361	2018145	1.81	25 1-	4 ACSR	0	0	2214	173	179	24	18	0.13	1.78	13
SW120311-B	2017361	1.81	0 1-	Open	0	0	2214	173	0	0	0	0.00	1.78	0
2018131	2018130	1.57	230 3-	336.4 ACSR	3524	3280	2709	177	2363	108	20	0.07	1.67	99
2018175	2018131	1.58	48 1-	4 ACSR	0	0	2707	177	326	44	32	0.01	1.68	3
OC120270	2018175	1.58	48 1-	REC_50_UNK	0	0	2709	177	326	44	90	0.00	1.68	0
2018176	OC120270	2.00	48 1-	4 ACSR	0	0	1987	172	326	44	32	0.43	2.11	82
2018135	2018131	1.66	177 3-	336.4 ACSR	3427	3184	2626	176	2006	92	17	0.05	1.72	70
2018158	2018135	1.69	166 3-	336.4 ACSR	3386	3143	2587	176	1956	89	17	0.02	1.74	29
2017360	2018158	1.84	24 1-	4 ACSR	0	0	2330	175	130	17	13	0.06	1.80	4
2018159	2018158	1.75	140 3-	336.4 ACSR	3325	3083	2529	176	1821	83	16	0.03	1.78	39
2018160	2018159	1.79	100 3-	336.4 ACSR	3287	3045	2493	176	1481	68	13	0.02	1.80	17
2017363	2018160	1.90	26 1-	4 ACSR	0	0	2301	175	212	29	21	0.08	1.87	9
2018161	2018160	2.09	68 3-	336.4 ACSR	3010	2775	2239	176	1243	57	11	0.10	1.90	73
2017334	2018161	2.20	19 3-	1/0 URD PRI AL	2905	2678	2170	440	888	40	24	0.09	1.99	72
2017341	2017334	2.59	2 3-	1/0 URD PRI AL	2550	2353	1931	425	720	33	19	0.27	2.25	173
2017998	2017341	2.59	1 3-	Consumer	2550	2353	1931	425	719	33	0	0.00	2.25	0
2017335	2017334	2.24	15 3-	1/0 URD PRI AL	2860	2637	2140	438	167	7	5	0.01	1.99	0
2017217	2017335	2.30	15 3-	336.4 ACSR	2819	2596	2105	174	167	7	1	0.00	2.00	0
2017219	2017217	2.72	15 3-	1/0 ACSR	2382	2185	1753	172	167	7	3	0.04	2.04	5
2017218	2017219	2.74	2 3-	1/0 ACSR	2369	2173	1743	172	90	4	2	0.00	2.04	0
2017342	2017218	2.83	2 3-	1/0 URD PRI AL	2307	2118	1703	419	90	4	2	0.00	2.05	0
2017220	2017219	2.77	0 3-	1/0 ACSR	2344	2151	1723	172	0	0	0	0.00	2.04	0
2017362	2018159	1.97	39 1-	4 ACSR	0	0	2165	174	320	44	32	0.22	2.00	41
2018111	2018135	1.69	3 1-	4 ACSR	0	0	2558	176	16	2	2	0.00	1.72	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW120311-A	2018111	1.69	0 1-	Open	0	0	2558	176	0	0	0.00	1.72	0	
2018168	2018144	1.45	33 1-	4 ACSR	0	0	2824	177	196	26	19	0.04	1.59	8
2018169	2018168	1.46	33 1-	6 ACWC	0	0	2811	177	196	26	19	0.01	1.59	1
OC120269	2018169	1.46	33 1-	REC_50_UNK	0	0	2811	177	196	26	54	0.00	1.59	0
2018174	OC120269	1.47	1 1-	4 ACSR	0	0	2786	176	3	0	0	0.00	1.59	0
2018170	OC120269	1.52	32 1-	6 ACWC	0	0	2669	176	193	26	19	0.07	1.67	12
2018171	2018170	1.60	31 1-	4 ACSR	0	0	2512	175	180	24	18	0.08	1.75	12
2018173	2018171	1.76	21 1-	4 ACSR	0	0	2221	173	120	16	12	0.06	1.81	4
2018172	2018171	1.74	5 1-	4 ACSR	0	0	2248	173	28	3	3	0.01	1.76	0
CKT 154 total losses:		\$4,330												
SUB 9, CKT 164														
HKPL_164	HICKORY PLAINS	0.00	295 3-	SBS_99_SBS	7135	7464	7556	180	2177	98	0	0.00	0.00	0
1918287	HKPL_164	0.02	295 3-	350 MCM URD PRI	7100	7388	7515	478	2177	98	31	0.01	0.01	20
1918218	1918287	0.40	295 3-	336.4 ACSR	5695	5582	5257	179	2177	98	19	0.26	0.27	348
1918219	1918218	0.94	276 3-	4/0 ACSR	4219	3999	3455	177	2034	92	27	0.50	0.77	690
1918222	1918219	0.96	262 3-	4/0 ACSR	4177	3957	3411	177	1949	89	26	0.02	0.79	25
1918232	1918222	1.24	6 3-	4/0 ACSR	3670	3439	2888	176	379	17	5	0.05	0.84	13
SW120276-B	1918232	1.24	6 3-	Closed	3670	3439	2888	176	379	17	0	0.00	0.84	0
SW120276-A	SW120276-B	1.24	6 3-	Closed	3670	3439	2888	176	379	17	0	0.00	0.84	0
1917178	SW120276-A	1.26	6 3-	4/0 ACSR	3642	3411	2860	176	379	17	5	0.00	0.84	0
1917175	1917178	1.29	3 3-	4/0 ACSR	3585	3353	2804	176	7	0	0	0.00	0.84	0
SW120279-B	1917175	1.29	3 3-	Closed	3585	3353	2804	176	7	0	0	0.00	0.84	0
SW120279-A	SW120279-B	1.29	3 3-	Closed	3585	3353	2804	176	7	0	0	0.00	0.84	0
1917176	SW120279-A	1.27	3 3-	4/0 ACSR	2603	2389	1907	174	7	0	0	0.00	0.84	0
SW120282-A	1917176	2.17	0 3-	Open	2603	2389	1907	174	0	0	0	0.00	0.84	0
1917179	1917178	1.35	2 3-	1/0 ACSR	3472	3237	2705	176	365	16	7	0.03	0.87	8
1917177	1917179	1.35	1 3-	4/0 ACSR	3469	3234	2702	176	359	16	5	0.00	0.87	0
1917993	1917177	1.35	1 3-	Consumer	3469	3234	2702	176	359	16	0	0.00	0.87	0
1918223	1918222	1.55	256 3-	4/0 ACSR	3228	2998	2464	175	1570	71	21	0.43	1.22	464
OC120309	1918223	1.55	251 3-	100-L	3228	2998	2464	175	1516	69	70	0.00	1.22	0
1918224	OC120309	3.22	251 3-	4/0 ACSR	1959	1777	1380	170	1516	69	20	1.07	2.29	1071
1918242	1918224	3.49	24 1-	4 ACSR	0	0	1227	167	209	28	21	0.18	2.47	22
1918243	1918242	3.56	0 1-	2 ACSR	0	0	1200	167	0	0	0	0.00	2.47	0
SW120312-A	1918243	3.56	0 1-	Open	0	0	1200	167	0	0	0	0.00	2.47	0
1918151	1918224	3.54	14 1-	1/0 ACSR	0	0	1254	169	85	11	5	0.04	2.33	2
1918225	1918224	3.48	169 3-	4/0 ACSR	1847	1677	1292	170	939	43	13	0.11	2.40	75
1918226	1918225	3.53	169 3-	1/0 ACSR	1820	1654	1273	169	939	43	19	0.04	2.44	30
1918279	1918226	3.55	66 1-	4 ACSR	0	0	1263	169	304	42	30	0.04	2.48	10
1918275	1918279	3.57	40 1-	4 ACSR	0	0	1250	169	127	17	13	0.02	2.50	2
1918276	1918275	3.71	39 1-	6 ACWC	0	0	1182	167	123	17	12	0.10	2.60	10
1918280	1918276	4.02	35 1-	4 ACSR	0	0	1053	164	104	14	10	0.10	2.70	6
SW120563-A	1918280	4.02	0 1-	Open	0	0	1053	164	0	0	0	0.00	2.70	0
1918292	1918279	3.61	26 1-	1/0 URD PRI AL	0	0	1243	396	177	24	14	0.04	2.52	5
1918274	1918292	4.24	17 1-	1/0 ACSR	0	0	1054	166	110	15	7	0.11	2.63	6
1918239	1918226	3.58	61 1-	2 ACSR	0	0	1249	169	392	54	30	0.09	2.53	30
1918241	1918239	3.73	13 1-	2 ACSR	0	0	1191	168	71	9	5	0.02	2.56	0
SW120312-B	1918241	3.73	0 1-	Open	0	0	1191	168	0	0	0	0.00	2.56	0
1918240	1918239	4.47	43 1-	2 ACSR	0	0	959	163	286	39	22	0.56	3.10	89
1918227	1918226	3.63	42 3-	1/0 ACSR	1769	1610	1237	169	242	11	5	0.02	2.46	4
1918231	1918227	4.06	3 3-	1/0 ACSR	1581	1447	1104	167	6	0	0	0.00	2.46	0
SW120273-A	1918231	4.06	0 3-	Open	1581	1447	1104	167	0	0	0	0.00	2.46	0

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Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS	
SUB 10	ALCAN 1														
SUB 10,	CKT 114		49			5588	5754	5816	180	6005					
	ALCN_114	ALCAN 1	0.00	3 3-	SBS_99_SBS	5588	5754	5816	180	3096	165	0	0.00	0.00	0
	2017207	ALCN_114	0.01	3 3-	336.4 ACSR	5570	5724	5785	180	3096	165	31	0.01	0.01	18
	2017184	2017207	0.01	0 3-	336.4 ACSR	5554	5700	5759	180	0	0	0	0.00	0.01	0
	SW120338-A	2017184	0.01	0 3-	Open	5554	5700	5759	180	0	0	0	0.00	0.01	0
	2017208	2017207	0.24	3 3-	336.4 ACSR	5000	4970	4843	179	3096	165	31	0.37	0.38	614
	SW120329-B	2017208	0.24	1 3-	Closed	5000	4970	4843	179	3090	165	0	0.00	0.38	0
	SW120329-A	SW120329-B	0.24	1 3-	Closed	5000	4970	4843	179	3090	165	0	0.00	0.38	0
	2017181	SW120329-A	0.30	1 3-	336.4 ACSR	4873	4823	4650	179	3090	165	31	0.09	0.48	155
	2017340	2017181	0.30	0 3-	1/0 URD PRI AL	4862	4815	4638	473	0	0	0	0.00	0.48	0
	SW120332-A	2017340	0.30	0 3-	Open	4862	4815	4638	473	0	0	0	0.00	0.48	0
	2017182	2017181	0.41	1 3-	336.4 ACSR	4648	4564	4320	179	3089	165	31	0.18	0.65	295
	1917267	2017182	0.75	0 3-	336.4 ACSR	4059	3912	3535	178	0	0	0	0.00	0.65	0
	SW120335-A	1917267	0.75	0 3-	Open	4059	3912	3535	178	0	0	0	0.00	0.65	0
	2017337	2017182	0.41	1 3-	4/0 URD PRI	4640	4560	4310	471	3086	165	74	0.01	0.67	32
	2017999	2017337	0.41	1 3-	Consumer	4640	4560	4310	471	3086	165	0	0.00	0.67	0
	2017338	2017337	0.42	0 3-	4/0 URD PRI	4625	4551	4292	471	0	0	0	0.00	0.67	0
	2017339	2017338	0.55	0 3-	1/0 URD PRI AL	4385	4350	4047	465	0	0	0	0.00	0.67	0
	SW120332-B	2017339	0.55	0 3-	Open	4385	4350	4047	465	0	0	0	0.00	0.67	0
CKT 114 total losses:		\$1,114													
SUB 10,	CKT 124														
	ALCN_124	ALCAN 1	0.00	46 3-	SBS_99_SBS	5588	5754	5816	180	2909	131	0	0.00	0.00	0
	2017211	ALCN_124	0.01	46 3-	336.4 ACSR	5565	5717	5777	180	2909	131	25	0.01	0.01	14
	2017212	2017211	0.02	46 3-	336.4 ACSR	5539	5676	5733	180	2909	131	25	0.01	0.02	16
	2017216	2017212	0.02	0 3-	336.4 ACSR	5525	5654	5710	180	0	0	0	0.00	0.02	0
	SW120338-B	2017216	0.02	0 3-	Open	5525	5654	5710	180	0	0	0	0.00	0.02	0
	2017213	2017212	0.31	46 3-	336.4 ACSR	4839	4787	4645	179	2909	131	25	0.27	0.28	495
	1917270	2017213	0.53	45 3-	4/0 ACSR	4333	4223	3966	179	2903	131	39	0.29	0.57	585
	1917158	1917270	0.57	43 3-	4/0 ACSR	4245	4126	3854	179	2895	135	40	0.06	0.64	122
	1917159	1917158	0.68	10 3-	4/0 ACSR	4034	3897	3594	178	2804	131	39	0.16	0.80	290
	1917160	1917159	0.73	10 3-	4/0 ACSR	3945	3801	3488	178	2802	136	40	0.08	0.88	142
	1917163	1917160	0.96	9 3-	4/0 ACSR	3573	3406	3061	177	1285	57	17	0.13	1.00	120
	1917173	1917163	1.05	1 3-	4/0 ACSR	3436	3263	2910	177	101	5	2	0.00	1.01	0
	1917174	1917173	1.07	0 3-	1/0 ACSR	3407	3232	2879	177	0	0	0	0.00	1.01	0
	1917245	1917174	1.30	0 3-	1/0 URD PRI AL	3134	2989	2648	446	0	0	0	0.00	1.01	0
	SW120377-B	1917245	1.30	0 3-	Open	3134	2989	2648	446	0	0	0	0.00	1.01	0
	1917164	1917163	0.97	8 3-	4/0 ACSR	3555	3387	3041	177	1183	53	16	0.01	1.01	5
	1917166	1917164	1.02	7 3-	4/0 ACSR	3489	3318	2968	177	702	32	9	0.01	1.01	7
	1917167	1917166	1.07	7 3-	4/0 ACSR	3412	3238	2884	177	702	31	9	0.02	1.03	7
	1917168	1917167	1.26	5 3-	336.4 ACSR	3216	3034	2661	177	594	26	5	0.03	1.06	12
	1917169	1917168	1.33	2 3-	4/0 ACSR	3134	2950	2571	177	546	24	7	0.01	1.07	6
	1917171	1917169	1.48	1 3-	336.4 ACSR	3000	2812	2425	176	508	22	4	0.02	1.09	8
	1917172	1917171	1.50	1 3-	336.4 ACSR	2987	2800	2412	176	508	27	5	0.00	1.09	0
	1917243	1917172	1.52	1 3-	1/0 URD PRI AL	2967	2782	2396	448	508	27	16	0.01	1.11	7
	1917997	1917243	1.52	1 3-	Consumer	2967	2782	2396	448	508	27	0	0.00	1.11	0
	1917244	1917243	1.52	0 3-	1/0 URD PRI AL	2963	2778	2394	448	0	0	0	0.00	1.11	0
	CA120014	1917171	1.48	0 3-	Capacitor	3000	2812	2425	176	0	-14	0	0.00	1.09	0
	1917170	1917169	1.37	0 3-	4/0 ACSR	3095	2911	2529	176	0	0	0	0.00	1.07	0
	SW120344-A	1917170	1.37	0 3-	Open	3095	2911	2529	176	0	0	0	0.00	1.07	0
	CA120011	1917166	1.02	0 3-	Capacitor	3489	3318	2968	177	0	-14	0	0.00	1.01	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES CONS	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1917165	1917164	0.99	1 3-	1/0 ACSR	3522	3352	3004	177	481	25	11	0.01	1.02	4
1917242	1917165	1.01	1 3-	1/0 URD PRI AL	3490	3324	2977	457	481	25	15	0.01	1.03	7
1917998	1917242	1.01	1 3-	Consumer	3490	3324	2977	457	481	25	0	0.00	1.03	0
1917161	1917160	0.81	1 3-	336.4 ACSR	3831	3677	3343	178	1516	81	15	0.07	0.94	53
1917162	1917161	0.83	1 3-	1/0 ACSR	3785	3628	3290	178	1515	81	35	0.04	0.98	48
1917999	1917162	0.83	1 3-	Consumer	3785	3628	3290	178	1515	81	0	0.00	0.98	0
1917241	1917162	0.85	0 3-	1/0 URD PRI AL	3763	3609	3271	461	0	0	0	0.00	0.98	0
SW120377-A	1917241	0.85	0 3-	Open	3763	3609	3271	461	0	0	0	0.00	0.98	0
CA120008	1917159	0.68	0 3-	Capacitor	4034	3897	3594	178	0	-14	0	0.00	0.80	0
1917224	1917158	1.41	32 1-	4 ACSR	0	0	1860	170	89	14	10	0.29	0.93	17
SW120378-B	1917158	0.57	0 3-	Open	4245	4126	3854	179	0	0	0	0.00	0.64	0
CA120005	1917270	0.53	0 3-	Capacitor	4333	4223	3966	179	0	-14	0	0.00	0.57	0
2017214	2017213	0.35	0 3-	336.4 ACSR	4763	4699	4535	179	0	0	0	0.00	0.28	0
SW120360-B	2017214	0.35	0 3-	Open	4763	4699	4535	179	0	0	0	0.00	0.28	0
SW120357-B	2017211	0.01	0 3-	Open	5565	5717	5777	180	0	0	0	0.00	0.01	0
CKT 124 total losses:		\$1,965												
SUB 10 total losses:		\$3,079												

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS	
SUB 12	SOUTH ELKHORN		1790		5677	5838	5907	180	11386						
SUB 12	CKT 104														
SELK_104	SOUTH ELKHORN	0.00	1042	3-	SBS_99_UNK	5677	5838	5907	180	4713	213	0	0.00	0.00	0
1414419	SELK_104	0.06	1042	3-	350 MCM URD PRI	5604	5750	5820	475	4713	213	67	0.08	0.08	300
1414315	1414419	0.31	1042	3-	336.4 ACSR	4973	4958	4783	179	4710	213	40	0.37	0.44	1107
SW101111-B	1414315	0.31	1042	3-	Closed	4973	4958	4783	179	4701	213	0	0.00	0.44	0
SW101111-A	SW101111-B	0.31	1042	3-	Closed	4973	4958	4783	179	4701	213	0	0.00	0.44	0
1414316	SW101111-A	0.65	1042	3-	336.4 ACSR	4296	4173	3829	178	4701	213	40	0.50	0.94	1515
1414461	1414316	0.85	7	1-	1/0 URD PRI AL	0	0	3399	455	67	9	5	0.03	0.97	0
SW101263-B	1414461	0.85	0	1-	Open	0	0	3399	455	0	0	0	0.00	0.97	0
1414369	1414316	1.00	5	1-	1/0 URD PRI AL	0	0	3079	447	34	4	3	0.03	0.97	0
SW101264-B	1414369	1.00	0	1-	Open	0	0	3079	447	0	0	0	0.00	0.97	0
1414317	1414316	0.82	1019	3-	336.4 ACSR	4026	3875	3486	178	4535	206	39	0.24	1.18	697
1414296	1414317	1.02	1005	3-	336.4 ACSR	3746	3574	3152	177	4459	203	38	0.27	1.45	790
1414460	1414296	1.11	2	1-	1/0 URD PRI AL	0	0	3005	455	4	0	0	0.00	1.45	0
SW101265-B	1414460	1.11	0	1-	Open	0	0	3005	455	0	0	0	0.00	1.45	0
1414472	1414296	1.09	3	1-	1/0 URD PRI AL	0	0	3041	456	9	1	1	0.00	1.45	0
SW101266-A	1414472	1.09	0	1-	Open	0	0	3041	456	0	0	0	0.00	1.45	0
1414297	1414296	1.24	976	3-	336.4 ACSR	3481	3295	2852	177	4319	197	37	0.29	1.74	814
1414459	1414297	1.88	13	1-	1/0 URD PRI AL	0	0	2099	424	82	11	7	0.11	1.85	5
SW101263-A	1414459	1.88	0	1-	Open	0	0	2099	424	0	0	0	0.00	1.85	0
1414298	1414297	1.35	939	3-	336.4 ACSR	3361	3170	2721	177	4150	189	36	0.14	1.88	382
1414471	1414298	1.41	5	1-	1/0 URD PRI AL	0	0	2651	451	12	1	1	0.00	1.88	0
SW101269-A	1414471	1.41	0	1-	Open	0	0	2651	451	0	0	0	0.00	1.88	0
1414368	1414298	1.82	25	1-	1/0 URD PRI AL	0	0	2190	430	62	8	5	0.06	1.94	2
SW101267-A	1414368	1.82	0	1-	Open	0	0	2190	430	0	0	0	0.00	1.94	0
1414299	1414298	1.40	861	3-	336.4 ACSR	3312	3120	2669	177	4016	183	35	0.06	1.94	155
1414470	1414299	1.62	19	1-	1/0 URD PRI AL	0	0	2410	442	83	11	7	0.04	1.98	2
SW101269-B	1414470	1.62	0	1-	Open	0	0	2410	442	0	0	0	0.00	1.98	0
1414300	1414299	1.41	841	3-	336.4 ACSR	3303	3111	2660	177	3929	179	34	0.01	1.95	25
1414283	1414300	1.55	407	3-	336.4 ACSR	3165	2970	2516	176	2250	103	19	0.10	2.05	146
SW101108-B	1414283	1.55	407	3-	Closed	3165	2970	2516	176	2248	103	0	0.00	2.05	0
SW101108-A	SW101108-B	1.55	407	3-	Closed	3165	2970	2516	176	2248	103	0	0.00	2.05	0
1414318	SW101108-A	1.65	407	3-	336.4 ACSR	3076	2880	2425	176	2248	103	19	0.07	2.11	101
1414384	1414318	2.07	10	1-	1/0 URD PRI AL	0	0	2033	428	76	10	6	0.07	2.18	3
SW101268-A	1414384	2.07	0	1-	Open	0	0	2033	428	0	0	0	0.00	2.18	0
1414458	1414318	2.26	35	1-	1/0 URD PRI AL	0	0	1876	419	209	28	17	0.28	2.39	35
SW101265-A	1414458	2.26	0	1-	Open	0	0	1876	419	0	0	0	0.00	2.39	0
1414271	1414318	1.68	0	3-	336.4 ACSR	3045	2848	2393	176	0	0	0	0.00	2.11	0
SW101120-A	1414271	1.68	0	3-	Closed	3045	2848	2393	176	0	0	0	0.00	2.11	0
SW101120-B	SW101120-A	1.68	0	3-	Closed	3045	2848	2393	176	0	0	0	0.00	2.11	0
1414469	1414318	2.25	29	1-	1/0 URD PRI AL	0	0	1882	420	186	25	15	0.24	2.36	27
SW101266-B	1414469	2.25	0	1-	Open	0	0	1882	420	0	0	0	0.00	2.36	0
1414319	1414318	1.71	332	3-	336.4 ACSR	3024	2827	2372	176	1776	81	15	0.03	2.14	38
1414320	1414319	1.79	251	3-	336.4 ACSR	2953	2756	2301	176	1224	56	11	0.03	2.18	26
1414269	1414320	1.92	117	3-	336.4 ACSR	2850	2653	2200	176	656	30	6	0.03	2.20	11
1414350	1414269	1.98	42	2-	2 ACSR	0	2575	2135	175	175	12	7	0.02	2.22	3
1414351	1414350	2.03	42	2-	4 ACSR	0	2485	2065	175	175	12	9	0.03	2.25	4
1414352	1414351	2.04	40	2-	1/0 ACSR	0	2478	2059	175	161	11	5	0.00	2.25	0
1414357	1414352	2.04	21	1-	1/0 ACSR	0	0	2054	175	81	11	5	0.00	2.25	0
1414270	1414269	1.99	75	3-	336.4 ACSR	2800	2603	2151	175	481	22	4	0.01	2.21	3
1414421	1414270	2.01	75	3-	1/0 URD PRI AL	2779	2583	2136	443	481	22	13	0.01	2.22	5

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LIG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1414457	1414421	2.31	8 1-	1/0 URD PRI AL	0	0	1910	428	46	6	4	0.04	2.26	0
1414356	1414457	2.34	2 1-	1/0 ACSR	0	0	1887	173	10	1	1	0.00	2.26	0
SW101258-B	1414356	2.34	0 1-	Open	0	0	1887	173	0	0	0	0.00	2.26	0
1414468	1414421	2.25	18 1-	1/0 URD PRI AL	0	0	1954	431	121	16	10	0.06	2.29	4
SW101261-B	1414468	2.25	0 1-	Open	0	0	1954	431	0	0	0	0.00	2.29	0
1414480	1414421	2.34	9 1-	1/0 URD PRI AL	0	0	1889	427	58	8	5	0.04	2.27	1
SW101259-B	1414480	2.34	0 1-	Open	0	0	1889	427	0	0	0	0.00	2.27	0
1414456	1414421	2.25	15 1-	1/0 URD PRI AL	0	0	1956	431	95	13	8	0.05	2.27	3
SW101262-B	1414456	2.25	0 1-	Open	0	0	1956	431	0	0	0	0.00	2.27	0
1414383	1414421	2.40	25 1-	1/0 URD PRI AL	0	0	1849	424	160	22	13	0.13	2.36	13
SW101260-B	1414383	2.40	0 1-	Open	0	0	1849	424	0	0	0	0.00	2.36	0
1414321	1414320	1.83	133 3-	336.4 ACSR	2917	2720	2266	176	567	26	5	0.01	2.18	3
1414322	1414321	1.84	131 3-	4/0 ACSR	2912	2714	2260	176	562	25	8	0.00	2.19	0
OC101177	1414322	1.84	131 3-	REC_100_UNK	2912	2714	2260	176	562	25	26	0.00	2.19	0
1414323	OC101177	1.89	131 3-	4/0 ACSR	2859	2662	2209	176	562	25	8	0.01	2.20	6
1414382	1414323	2.13	17 1-	1/0 URD PRI AL	0	0	2019	433	66	9	5	0.03	2.23	1
SW101257-B	1414382	2.13	0 1-	Open	0	0	2019	433	0	0	0	0.00	2.23	0
1414268	1414323	1.94	14 3-	1/0 ACSR	2804	2606	2160	175	58	2	1	0.00	2.20	0
1414396	1414268	2.25	14 1-	1/0 URD PRI AL	0	0	1922	428	58	8	5	0.04	2.24	1
SW101254-A	1414396	2.25	0 1-	Open	0	0	1922	428	0	0	0	0.00	2.24	0
1414290	1414323	1.96	99 3-	4/0 ACSR	2799	2603	2153	175	427	19	6	0.01	2.21	4
1414479	1414290	1.97	0 1-	1/0 URD PRI AL	0	0	2143	443	0	0	0	0.00	2.21	0
SW101256-B	1414479	1.97	0 1-	Open	0	0	2143	443	0	0	0	0.00	2.21	0
1414291	1414290	2.05	93 3-	4/0 ACSR	2717	2522	2075	175	404	18	5	0.02	2.23	5
1414478	1414291	2.47	30 1-	1/0 URD PRI AL	0	0	1777	421	137	18	11	0.12	2.35	10
SW101256-A	1414478	2.47	0 1-	Open	0	0	1777	421	0	0	0	0.00	2.35	0
1414292	1414291	2.13	56 3-	4/0 ACSR	2647	2453	2010	175	232	10	3	0.01	2.24	1
1414455	1414292	2.15	3 1-	1/0 URD PRI AL	0	0	2000	438	20	2	2	0.00	2.24	0
SW101255-B	1414455	2.15	0 1-	Open	0	0	2000	438	0	0	0	0.00	2.24	0
1414293	1414292	2.20	48 3-	4/0 ACSR	2588	2395	1956	175	192	8	3	0.01	2.24	0
1414294	1414293	2.24	15 3-	4/0 ACSR	2559	2368	1930	175	58	2	1	0.00	2.24	0
SW101119-B	1414294	2.24	15 3-	Closed	2559	2368	1930	175	58	2	0	0.00	2.24	0
SW101119-A	SW101119-B	2.24	15 3-	Closed	2559	2368	1930	175	58	2	0	0.00	2.24	0
1414295	SW101119-A	2.27	15 3-	4/0 ACSR	2534	2343	1907	174	58	2	1	0.00	2.24	0
1414325	1414295	2.41	9 3-	4/0 ACSR	2434	2245	1817	174	34	1	0	0.00	2.24	0
1414395	1414325	2.44	3 1-	1/0 URD PRI AL	0	0	1797	431	12	1	1	0.00	2.25	0
SW101253-B	1414395	2.44	0 1-	Open	0	0	1797	431	0	0	0	0.00	2.25	0
1414326	1414325	2.42	0 3-	4/0 ACSR	2428	2240	1812	174	0	0	0	0.00	2.24	0
1414324	1414295	2.34	4 3-	4/0 ACSR	2487	2297	1865	174	15	0	0	0.00	2.24	0
1414392	1414324	2.39	2 1-	1/0 URD PRI AL	0	0	1830	432	9	1	1	0.00	2.24	0
SW101254-B	1414392	2.39	0 1-	Open	0	0	1830	432	0	0	0	0.00	2.24	0
1414355	1414293	2.21	28 1-	1/0 ACSR	0	0	1953	175	105	14	6	0.00	2.24	0
1414454	1414355	2.47	28 1-	1/0 URD PRI AL	0	0	1781	425	105	14	9	0.06	2.30	4
SW101255-A	1414454	2.47	0 1-	Open	0	0	1781	425	0	0	0	0.00	2.30	0
1414408	1414321	1.87	2 1-	1/0 URD PRI AL	0	0	2236	445	5	0	0	0.00	2.18	0
SW101257-A	1414408	1.87	0 1-	Open	0	0	2236	445	0	0	0	0.00	2.18	0
1414420	1414319	1.84	80 3-	1/0 URD PRI AL	2894	2708	2277	443	543	24	15	0.07	2.21	31
1414451	1414420	2.12	21 1-	1/0 URD PRI AL	0	0	2033	429	177	24	14	0.18	2.39	25
1414452	1414451	2.17	12 1-	1/0 URD PRI AL	0	0	1988	426	57	7	5	0.01	2.40	0
1414361	1414452	2.18	0 1-	1/0 ACSR	0	0	1983	173	0	0	0	0.00	2.40	0
SW101258-A	1414361	2.18	0 1-	Open	0	0	1983	173	0	0	0	0.00	2.40	0
1414453	1414452	2.56	11 1-	1/0 URD PRI AL	0	0	1704	409	53	7	4	0.04	2.45	1

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW101262-A	1414453	2.56	0 1-	Open	0	0	1704	409	0	0	0.00	2.45	0	
1414998	1414451	2.12	1 1-	Consumer	0	0	2033	429	67	9	0.00	2.39	0	
1414412	1414420	2.52	34 1-	1/0 URD PRI AL	0	0	1733	411	202	27	16	0.29	2.50	35
SW101260-A	1414412	2.52	0 1-	Open	0	0	1733	411	0	0	0.00	2.50	0	
1414487	1414420	1.96	18 1-	2 URD PRI AL	0	0	2127	434	111	15	13	0.07	2.28	7
1414488	1414487	2.17	15 1-	1/0 URD PRI AL	0	0	1951	424	93	12	8	0.07	2.35	5
1414490	1414488	2.49	10 1-	1/0 URD PRI AL	0	0	1721	410	61	8	5	0.04	2.40	2
SW101261-A	1414490	2.49	0 1-	Open	0	0	1721	410	0	0	0.00	2.40	0	
1414489	1414488	2.18	0 1-	1/0 URD PRI AL	0	0	1948	424	0	0	0.00	2.35	0	
SW101259-A	1414489	2.18	0 1-	Open	0	0	1948	424	0	0	0.00	2.35	0	
1414301	1414300	1.45	433 3-	336.4 ACSR	3264	3071	2619	177	1678	76	14	0.02	1.97	22
1414280	1414301	1.52	53 3-	336.4 ACSR	3195	3001	2547	176	174	7	2	0.00	1.97	0
1414450	1414280	1.53	0 1-	1/0 URD PRI AL	0	0	2530	451	0	0	0.00	1.97	0	
SW101270-A	1414450	1.53	0 1-	Open	0	0	2530	451	0	0	0.00	1.97	0	
1414281	1414280	1.64	8 3-	336.4 ACSR	3082	2885	2430	176	23	1	0	0.00	1.97	0
1414486	1414281	1.71	0 1-	1/0 URD PRI AL	0	0	2363	446	0	0	0.00	1.97	0	
SW101271-A	1414486	1.71	0 1-	Open	0	0	2363	446	0	0	0.00	1.97	0	
1414411	1414281	1.72	4 1-	1/0 URD PRI AL	0	0	2347	445	15	2	1	0.00	1.97	0
SW101272-A	1414411	1.72	0 1-	Open	0	0	2347	445	0	0	0.00	1.97	0	
1414282	1414281	1.68	2 3-	336.4 ACSR	3043	2846	2391	176	5	0	0	0.00	1.97	0
1414449	1414282	1.72	2 1-	1/0 URD PRI AL	0	0	2357	447	5	0	0	0.00	1.97	0
SW101273-B	1414449	1.72	0 1-	Open	0	0	2357	447	0	0	0.00	1.97	0	
1414302	1414301	1.59	380 3-	336.4 ACSR	3127	2931	2476	176	1504	68	13	0.07	2.03	66
OC101178	1414302	1.59	376 3-	REC_99_UNK	3127	2931	2476	176	1489	68	0	0.00	2.03	0
1414303	OC101178	1.66	376 3-	336.4 ACSR	3062	2865	2410	176	1489	68	13	0.03	2.07	33
1414279	1414303	1.68	0 3-	336.4 ACSR	3043	2846	2391	176	0	0	0.00	2.07	0	
SW-211660960-A	1414279	1.68	0 3-	Open	3043	2846	2391	176	0	0	0.00	2.07	0	
1414304	1414303	1.80	376 3-	336.4 ACSR	2942	2744	2290	176	1488	68	13	0.06	2.13	64
1414306	1414304	1.90	292 3-	4/0 ACSR	2843	2646	2195	176	1181	54	16	0.05	2.18	44
1414406	1414306	2.33	31 1-	1/0 URD PRI AL	0	0	1864	424	145	19	12	0.18	2.37	19
1414410	1414406	2.34	0 1-	1/0 URD PRI AL	0	0	1860	423	0	0	0.00	2.37	0	
SW101251-B	1414410	2.34	0 1-	Open	0	0	1860	423	0	0	0.00	2.37	0	
1414407	1414406	2.63	12 1-	1/0 URD PRI AL	0	0	1667	410	55	7	4	0.04	2.40	1
SW101253-A	1414407	2.63	0 1-	Open	0	0	1667	410	0	0	0.00	2.40	0	
1414448	1414306	2.26	40 1-	1/0 URD PRI AL	0	0	1916	427	147	20	12	0.11	2.30	10
SW101249-A	1414448	2.26	0 1-	Open	0	0	1916	427	0	0	0.00	2.30	0	
1414485	1414306	2.68	49 1-	1/0 URD PRI AL	0	0	1640	408	197	27	16	0.33	2.51	38
SW101250-B	1414485	2.68	0 1-	Open	0	0	1640	408	0	0	0.00	2.51	0	
1414307	1414306	1.97	163 3-	4/0 ACSR	2784	2588	2138	175	644	29	9	0.02	2.20	8
1414394	1414307	2.32	24 1-	1/0 URD PRI AL	0	0	1873	426	101	13	8	0.08	2.28	5
SW101272-B	1414394	2.32	0 1-	Open	0	0	1873	426	0	0	0.00	2.28	0	
1414430	1414307	2.41	45 1-	1/0 URD PRI AL	0	0	1809	421	185	25	15	0.18	2.38	20
SW101271-B	1414430	2.41	0 1-	Open	0	0	1809	421	0	0	0.00	2.38	0	
1414364	1414307	2.08	42 2-	4/0 ACSR	0	2484	2044	175	165	11	3	0.01	2.22	2
1414360	1414364	2.12	33 1-	1/0 ACSR	0	0	2014	175	131	17	8	0.01	2.23	1
1414447	1414360	2.79	33 1-	1/0 URD PRI AL	0	0	1587	408	131	17	11	0.19	2.42	15
SW101273-A	1414447	2.79	0 1-	Open	0	0	1587	408	0	0	0.00	2.42	0	
1414365	1414364	2.12	3 2-	4/0 ACSR	0	2450	2012	175	6	0	0	0.00	2.22	0
SW101118-A	1414365	2.12	0 2-	Closed	0	2450	2012	175	0	0	0.00	2.22	0	
SW101118-B	SW101118-A	2.12	0 2-	Closed	0	2450	2012	175	0	0	0.00	2.22	0	
1414445	1414307	1.99	47 1-	1/0 URD PRI AL	0	0	2120	442	169	23	14	0.02	2.22	3
1414446	1414445	2.43	47 1-	1/0 URD PRI AL	0	0	1800	421	169	23	14	0.16	2.38	16

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW101270-B	1414446	2.43	0 1-	Open	0	0	1800	421	0	0	0	0.00	2.38	0
1414305	1414304	2.15	80 3-	336.4 ACSR	2683	2487	2040	175	302	13	3	0.03	2.16	5
1414444	1414305	2.16	0 1-	1/0 URD PRI AL	0	0	2032	440	0	0	0	0.00	2.16	0
SW101249-B	1414444	2.16	0 1-	Open	0	0	2032	440	0	0	0	0.00	2.16	0
1414387	1414305	2.35	37 1-	1/0 URD PRI AL	0	0	1905	431	146	20	12	0.09	2.25	10
1414393	1414387	2.48	11 1-	1/0 URD PRI AL	0	0	1817	425	35	4	3	0.01	2.26	0
SW101252-A	1414393	2.48	0 1-	Open	0	0	1817	425	0	0	0	0.00	2.26	0
1414390	1414387	2.48	11 1-	1/0 URD PRI AL	0	0	1812	425	37	5	3	0.01	2.26	0
1414405	1414390	2.53	0 1-	1/0 URD PRI AL	0	0	1785	423	0	0	0	0.00	2.26	0
SW101251-A	1414405	2.53	0 1-	Open	0	0	1785	423	0	0	0	0.00	2.26	0
1414391	1414390	2.49	0 1-	1/0 URD PRI AL	0	0	1809	425	0	0	0	0.00	2.26	0
SW101252-B	1414391	2.49	0 1-	Open	0	0	1809	425	0	0	0	0.00	2.26	0
1414429	1414305	2.27	14 1-	1/0 URD PRI AL	0	0	1958	435	52	7	4	0.01	2.17	0
SW101250-A	1414429	2.27	0 1-	Open	0	0	1958	435	0	0	0	0.00	2.17	0
1414389	1414296	1.20	11 1-	1/0 URD PRI AL	0	0	2875	450	41	5	3	0.02	1.48	0
1414386	1414389	1.21	2 1-	1/0 URD PRI AL	0	0	2857	450	8	1	1	0.00	1.48	0
SW101267-B	1414386	1.21	0 1-	Open	0	0	2857	450	0	0	0	0.00	1.48	0
1414385	1414389	1.24	2 1-	1/0 URD PRI AL	0	0	2809	448	15	2	1	0.00	1.48	0
SW101268-B	1414385	1.24	0 1-	Open	0	0	2809	448	0	0	0	0.00	1.48	0
1414349	1414317	0.84	8 2-	1/0 ACSR	0	3836	3446	178	43	2	1	0.00	1.18	0
1414381	1414349	0.91	1 1-	1/0 URD PRI AL	0	0	3315	458	7	0	1	0.00	1.18	0
SW101264-A	1414381	0.91	0 1-	Open	0	0	3315	458	0	0	0	0.00	1.18	0
CKT 104 total losses:		\$6,740												
SUB 12, CKT 114														
SELK_114	SOUTH ELKHORN	0.00	323 3-	SBS_99_UNK	5677	5838	5907	180	3075	138	0	0.00	0.00	0
1414272	SELK_114	0.01	323 3-	336.4 ACSR	5645	5788	5853	180	3075	138	26	0.01	0.01	21
1414422	1414272	0.06	323 3-	4/0 URD PRI AL	5553	5692	5718	474	3075	138	62	0.07	0.08	176
1414273	1414422	0.19	323 3-	336.4 ACSR	5211	5254	5145	179	3074	138	26	0.12	0.20	245
1414423	1414273	0.19	323 3-	500 MCM URD PRI	5210	5253	5144	472	3071	138	36	0.00	0.20	1
SW1050464891-B	1414423	0.19	323 3-	Closed	5210	5253	5144	472	3071	138	0	0.00	0.20	0
SW1050464891-A	SW1050464891-B	0.19	323 3-	Closed	5210	5253	5144	472	3071	138	0	0.00	0.20	0
1414274	SW1050464891-A	0.32	323 3-	336.4 ACSR	4901	4879	4688	179	3071	138	26	0.12	0.33	249
SW-479158970-B	1414274	0.32	323 3-	Closed	4901	4879	4688	179	3069	138	0	0.00	0.33	0
SW-479158970-A	SW-479158970-B	0.32	323 3-	Closed	4901	4879	4688	179	3069	138	0	0.00	0.33	0
1414275	SW-479158970-A	0.32	323 3-	336.4 ACSR	4897	4874	4681	179	3069	138	26	0.00	0.33	4
SW2058468913-B	1414275	0.32	323 3-	Closed	4897	4874	4681	179	3069	138	0	0.00	0.33	0
SW2058468913-A	SW2058468913-B	0.32	323 3-	Closed	4897	4874	4681	179	3069	138	0	0.00	0.33	0
1414276	SW2058468913-A	0.35	323 3-	336.4 ACSR	4832	4796	4585	179	3069	138	26	0.03	0.36	56
1414477	1414276	0.60	0 1-	1/0 URD PRI AL	0	0	3835	456	0	0	0	0.00	0.36	0
SW20508999-A	1414477	0.60	0 1-	Open	0	0	3835	456	0	0	0	0.00	0.36	0
1414441	1414276	0.86	0 1-	1/0 URD PRI AL	0	0	3183	443	0	0	0	0.00	0.36	0
SW583968019-B	1414441	0.86	0 1-	Open	0	0	3183	443	0	0	0	0.00	0.36	0
SW-1540355862-B	1414276	0.35	323 3-	Closed	4832	4796	4585	179	3069	138	0	0.00	0.36	0
SW-1540355862-A	SW-1540355862-B	0.35	323 3-	Closed	4832	4796	4585	179	3069	138	0	0.00	0.36	0
1414327	SW-1540355862-A	0.53	323 3-	336.4 ACSR	4485	4391	4090	178	3069	138	26	0.16	0.52	328
1414388	1414327	0.79	2 1-	1/0 URD PRI AL	0	0	3449	453	19	2	2	0.01	0.53	0
SW-751777516-A	1414388	0.79	0 1-	Open	0	0	3449	453	0	0	0	0.00	0.53	0
1414328	1414327	0.58	321 3-	336.4 ACSR	4383	4275	3952	178	3047	138	26	0.05	0.57	104
1414424	1414328	0.59	321 3-	500 MCM URD PRI	4382	4273	3951	466	3046	138	36	0.00	0.58	3
SW-2027811387-B	1414424	0.59	321 3-	Closed	4382	4273	3951	466	3046	138	0	0.00	0.58	0
SW-2027811387-A	SW-2027811387-B	0.59	321 3-	Closed	4382	4273	3951	466	3046	138	0	0.00	0.58	0

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1414425	SW-2027811387-A	0.80	321 3-	500 MCM URD PRI	4227	4133	3830	464	3046	138	36	0.17	0.75	432
SW2085818649-B	1414425	0.80	321 3-	Closed	4227	4133	3830	464	3042	138	0	0.00	0.75	0
SW2085818649-A	SW2085818649-B	0.80	321 3-	Closed	4227	4133	3830	464	3042	138	0	0.00	0.75	0
1414426	SW2085818649-A	0.80	321 3-	500 MCM URD PRI	4226	4132	3829	464	3042	138	36	0.00	0.75	5
1414373	1414426	1.22	2 1-	1/0 URD PRI AL	0	0	2936	442	19	2	2	0.02	0.76	0
SW-751777516-B	1414373	1.22	0 1-	Open	0	0	2936	442	0	0	0	0.00	0.76	0
SW548407501-B	1414426	0.80	319 3-	Closed	4226	4132	3829	464	3023	137	0	0.00	0.75	0
SW548407501-A	SW548407501-B	0.80	319 3-	Closed	4226	4132	3829	464	3023	137	0	0.00	0.75	0
1414329	SW548407501-A	0.81	319 3-	336.4 ACSR	4206	4110	3803	178	3023	137	26	0.01	0.76	21
1414372	1414329	1.41	14 1-	1/0 URD PRI AL	0	0	2613	433	115	15	9	0.15	0.90	10
SW210-A	1414372	1.41	0 1-	Open	0	0	2613	433	0	0	0	0.00	0.90	0
1414440	1414329	1.24	2 1-	1/0 URD PRI AL	0	0	2898	441	21	2	2	0.02	0.78	0
SW209-A	1414440	1.24	0 1-	Open	0	0	2898	441	0	0	0	0.00	0.78	0
SW208-B	1414440	1.24	0 1-	Open	0	0	2898	441	0	0	0	0.00	0.78	0
1414330	1414329	0.93	303 3-	336.4 ACSR	4020	3898	3558	178	2887	131	25	0.10	0.86	183
1414371	1414330	1.38	15 1-	1/0 URD PRI AL	0	0	2716	438	142	19	11	0.14	0.99	11
SW214-B	1414371	1.38	0 1-	Open	0	0	2716	438	0	0	0	0.00	0.99	0
1414331	1414330	1.13	254 3-	336.4 ACSR	3735	3583	3204	177	2479	112	21	0.15	1.01	242
1414376	1414331	1.17	0 1-	1/0 URD PRI AL	0	0	3141	456	0	0	0	0.00	1.01	0
SW214-A	1414376	1.17	0 1-	Open	0	0	3141	456	0	0	0	0.00	1.01	0
1414332	1414331	1.29	241 3-	336.4 ACSR	3539	3372	2973	177	2375	107	20	0.11	1.12	173
1414333	1414332	1.30	228 3-	336.4 ACSR	3524	3356	2956	177	2251	102	19	0.01	1.13	13
1414334	1414333	1.37	228 3-	336.4 ACSR	3444	3271	2864	177	2251	102	19	0.05	1.18	70
SW129-B	1414334	1.37	225 3-	Closed	3444	3271	2864	177	2191	99	0	0.00	1.18	0
SW129-A	SW129-B	1.37	225 3-	Closed	3444	3271	2864	177	2191	99	0	0.00	1.18	0
1414335	SW129-A	1.41	225 3-	336.4 ACSR	3402	3227	2817	177	2191	99	19	0.03	1.20	37
1414339	1414335	1.50	159 3-	336.4 ACSR	3309	3130	2714	177	1757	79	15	0.05	1.25	54
1414359	1414339	1.54	1 1-	1/0 ACSR	0	0	2655	176	9	1	1	0.00	1.25	0
1414439	1414359	1.59	1 1-	1/0 URD PRI AL	0	0	2597	449	9	1	1	0.00	1.25	0
SW215-A	1414439	1.59	0 1-	Open	0	0	2597	449	0	0	0	0.00	1.25	0
1414340	1414339	1.55	156 3-	336.4 ACSR	3260	3079	2661	176	1736	79	15	0.03	1.28	29
1414341	1414340	1.61	134 3-	336.4 ACSR	3200	3016	2596	176	1525	69	13	0.03	1.30	29
1414367	1414341	1.65	2 1-	1/0 ACSR	0	0	2526	176	4	0	0	0.00	1.31	0
1414476	1414367	1.67	2 1-	1/0 URD PRI AL	0	0	2510	448	4	0	0	0.00	1.31	0
SW217-A	1414476	1.67	0 1-	Open	0	0	2510	448	0	0	0	0.00	1.31	0
1414358	1414341	1.64	17 1-	1/0 ACSR	0	0	2549	176	134	18	8	0.01	1.32	1
1414467	1414358	1.95	14 1-	1/0 URD PRI AL	0	0	2223	434	114	15	9	0.07	1.39	5
SW216-B	1414467	1.95	0 1-	Open	0	0	2223	434	0	0	0	0.00	1.39	0
1414466	1414358	1.67	3 1-	1/0 URD PRI AL	0	0	2519	448	20	2	2	0.00	1.32	0
SW216-A	1414466	1.67	0 1-	Open	0	0	2519	448	0	0	0	0.00	1.32	0
1414284	1414341	1.73	115 3-	336.4 ACSR	3087	2900	2475	176	1387	63	12	0.05	1.36	48
1414475	1414284	2.10	13 1-	1/0 URD PRI AL	0	0	2110	430	82	11	7	0.06	1.42	3
SW204-B	1414475	2.10	0 1-	Open	0	0	2110	430	0	0	0	0.00	1.42	0
1414474	1414284	1.79	2 1-	1/0 URD PRI AL	0	0	2413	446	10	1	1	0.00	1.36	0
SW204-A	1414474	1.79	0 1-	Open	0	0	2413	446	0	0	0	0.00	1.36	0
1414285	1414284	2.00	100 3-	336.4 ACSR	2863	2673	2246	176	1295	59	11	0.10	1.46	89
1414344	1414285	2.10	41 3-	336.4 ACSR	2786	2595	2168	175	339	15	3	0.01	1.47	2
SW14-B	1414344	2.10	40 3-	Closed	2786	2595	2168	175	332	15	0	0.00	1.47	0
SW14-A	SW14-B	2.10	40 3-	Closed	2786	2595	2168	175	332	15	0	0.00	1.47	0
1414345	SW14-A	2.27	40 3-	336.4 ACSR	2671	2480	2057	175	332	15	3	0.01	1.48	2
1414346	1414345	2.33	7 3-	336.4 ACSR	2630	2439	2017	175	45	2	0	0.00	1.48	0
1414436	1414346	2.37	2 1-	1/0 URD PRI AL	0	0	1986	437	14	1	1	0.00	1.48	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW202-A	1414436	2.37	0 1-	Open	0	0	1986	437	0	0	0	0.00	1.48	0
1414347	1414346	2.42	5 3-	336.4 ACSR	2572	2382	1962	175	31	1	0	0.00	1.48	0
1414375	1414347	2.43	0 1-	1/0 URD PRI AL	0	0	1957	437	0	0	0	0.00	1.48	0
SW210-B	1414375	2.43	0 1-	Open	0	0	1957	437	0	0	0	0.00	1.48	0
1414348	1414347	2.51	5 3-	336.4 ACSR	2517	2329	1910	174	31	1	0	0.00	1.48	0
1414465	1414348	2.58	0 1-	1/0 URD PRI AL	0	0	1865	432	0	0	0	0.00	1.48	0
SW208-A	1414465	2.58	0 1-	Open	0	0	1865	432	0	0	0	0.00	1.48	0
SW209-B	1414465	2.58	0 1-	Open	0	0	1865	432	0	0	0	0.00	1.48	0
1414435	1414435	2.54	6 1-	1/0 URD PRI AL	0	0	1860	427	47	6	4	0.03	1.51	0
SW202-B	1414435	2.54	0 1-	Open	0	0	1860	427	0	0	0	0.00	1.51	0
1414277	1414285	2.05	52 3-	336.4 ACSR	2823	2632	2205	175	917	41	8	0.01	1.48	9
1414287	1414277	2.06	34 3-	1/0 ACSR	2816	2625	2199	175	222	10	4	0.00	1.48	0
OC126	1414287	2.06	34 3-	REC_50_UNK	2816	2625	2199	175	222	10	20	0.00	1.48	0
1414288	OC126	2.19	34 3-	1/0 ACSR	2676	2483	2073	175	222	10	4	0.02	1.50	4
1414434	1414288	2.55	11 1-	1/0 URD PRI AL	0	0	1811	421	115	15	9	0.09	1.59	6
SW203-B	1414434	2.55	0 1-	Open	0	0	1811	421	0	0	0	0.00	1.59	0
1414289	1414288	2.21	20 3-	1/0 ACSR	2653	2460	2052	175	91	4	2	0.00	1.50	0
1414248	1414289	2.40	2 1-	2 ACSR	0	0	1862	173	5	0	0	0.00	1.50	0
1414342	1414289	2.23	18 3-	1/0 ACSR	2628	2434	2030	174	86	3	2	0.00	1.50	0
1414433	1414342	2.31	2 1-	1/0 URD PRI AL	0	0	1973	433	12	1	1	0.00	1.50	0
SW203-A	1414433	2.31	0 1-	Open	0	0	1973	433	0	0	0	0.00	1.50	0
SW457409408-B	1414342	2.23	16 3-	Closed	2628	2434	2030	174	74	3	0	0.00	1.50	0
SW457409408-A	SW457409408-B	2.23	16 3-	Closed	2628	2434	2030	174	74	3	0	0.00	1.50	0
1414343	SW457409408-A	2.37	16 3-	1/0 ACSR	2496	2303	1915	174	74	3	1	0.01	1.51	0
1414432	1414343	2.56	8 1-	1/0 URD PRI AL	0	0	1788	423	41	5	3	0.02	1.52	0
SW205-B	1414432	2.56	0 1-	Open	0	0	1788	423	0	0	0	0.00	1.52	0
1414278	1414277	2.12	18 3-	336.4 ACSR	2776	2585	2159	175	695	31	6	0.01	1.49	5
1414427	1414278	2.12	1 3-	350 MCM URD PRI	2774	2584	2158	442	473	21	7	0.00	1.49	0
1414997	1414427	2.12	1 3-	Consumer	2774	2584	2158	442	473	21	0	0.00	1.49	0
1414286	1414278	2.15	9 3-	336.4 ACSR	2754	2563	2137	175	74	3	1	0.00	1.49	0
SW-211660960-B	1414286	2.15	0 3-	Open	2754	2563	2137	175	0	0	0	0.00	1.49	0
1414366	1414340	1.60	21 1-	2 ACSR	0	0	2574	176	205	28	16	0.05	1.32	8
1414431	1414366	2.50	21 1-	1/0 URD PRI AL	0	0	1734	407	205	28	17	0.39	1.72	48
SW217-B	1414431	2.50	0 1-	Open	0	0	1734	407	0	0	0	0.00	1.72	0
1414336	1414335	1.47	66 3-	336.4 ACSR	3346	3168	2754	177	434	19	4	0.01	1.21	2
1414338	1414336	1.58	66 3-	1/0 ACSR	3173	2987	2581	176	434	19	9	0.04	1.25	13
1414464	1414338	1.80	16 1-	1/0 URD PRI AL	0	0	2326	438	88	12	7	0.04	1.29	2
SW215-B	1414464	1.80	0 1-	Open	0	0	2326	438	0	0	0	0.00	1.29	0
1414473	1414338	2.20	22 1-	1/0 URD PRI AL	0	0	1951	419	143	19	11	0.19	1.44	16
SW205-A	1414473	2.20	0 1-	Open	0	0	1951	419	0	0	0	0.00	1.44	0
1414374	1414338	2.71	27 1-	1/0 URD PRI AL	0	0	1587	397	178	24	14	0.43	1.68	45
1414337	1414336	1.51	0 3-	336.4 ACSR	3302	3122	2706	177	0	0	0	0.00	1.21	0
SW7-B	1414337	1.51	0 3-	Open	3302	3122	2706	177	0	0	0	0.00	1.21	0
1414463	1414333	1.34	0 1-	1/0 URD PRI AL	0	0	2901	454	0	0	0	0.00	1.13	0
SW213-B	1414463	1.34	0 1-	Open	0	0	2901	454	0	0	0	0.00	1.13	0
1414370	1414332	1.33	2 1-	1/0 URD PRI AL	0	0	2912	454	27	3	2	0.00	1.12	0
SW212-B	1414370	1.33	0 1-	Open	0	0	2912	454	0	0	0	0.00	1.12	0
1414462	1414327	0.94	0 1-	1/0 URD PRI AL	0	0	3119	445	0	0	0	0.00	0.52	0
SW583968019-A	1414462	0.94	0 1-	Open	0	0	3119	445	0	0	0	0.00	0.52	0

CKT 114 total losses: \$2,804

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 12, CKT 124														
SELK_124	SOUTH ELKHORN	0.00	335 3-	SBS_99_UNK	5677	5838	5907	180	2712	122	0	0.00	0.00	0
1414308	SELK_124	0.37	335 3-	336.4 ACSR	4768	4684	4509	179	2712	122	23	0.31	0.31	543
1414484	1414308	0.89	1 1-	1/0 URD PRI AL	0	0	3131	443	0	0	0	0.00	0.31	0
SW20508999-B	1414484	0.89	0 1-	Open	0	0	3131	443	0	0	0	0.00	0.31	0
1414309	1414308	1.02	334 3-	336.4 ACSR	3711	3532	3061	177	2708	122	23	0.54	0.85	937
1414310	1414309	1.06	321 3-	1/0 ACSR	3645	3461	2992	177	2658	120	53	0.08	0.92	161
SW101181-B	1414310	1.06	321 3-	Closed	3645	3461	2992	177	2656	120	0	0.00	0.92	0
SW101181-A	SW101181-B	1.06	321 3-	Closed	3645	3461	2992	177	2656	120	0	0.00	0.92	0
1414311	SW101181-A	1.26	321 3-	1/0 ACSR	3290	3090	2639	176	2656	120	53	0.44	1.36	937
1414267	1414311	1.50	314 3-	1/0 ACSR	2955	2747	2324	175	2581	117	51	0.47	1.83	962
1413068	1414267	1.94	267 3-	1/0 ACSR	2464	2277	1891	173	2218	101	44	0.75	2.58	1331
1413105	1413068	2.27	19 1-	1/0 URD PRI AL	0	0	1675	411	82	11	7	0.10	2.68	7
MTP109791	1413105	2.27	18 3-	Node	2104	1984	1675	411	61	8	0	0.00	2.69	0
1413107	MTP109791	2.38	18 3-	1/0 URD PRI AL	2034	1916	1623	407	184	8	5	0.02	2.71	2
1413106	1413107	3.06	17 1-	1/0 URD PRI AL	0	0	1294	380	106	14	9	0.16	2.85	10
SW101244-B	1413106	3.06	0 1-	Open	0	0	1294	380	0	0	0	0.00	2.85	0
1413120	1413068	2.24	1 1-	1/0 URD PRI AL	0	0	1691	412	70	9	6	0.09	2.67	5
SW101247-A	1413120	2.24	0 1-	Closed	0	0	1691	412	61	8	0	0.00	2.67	0
SW101247-B	SW101247-A	2.24	0 1-	Closed	0	0	1691	412	61	8	0	0.00	2.67	0
1413119	SW101247-B	2.27	0 1-	1/0 URD PRI AL	0	0	1674	411	61	8	5	0.01	2.67	0
1413110	1413068	2.11	10 1-	1/0 URD PRI AL	0	0	1773	418	142	19	12	0.10	2.68	13
1413112	1413110	2.37	7 1-	1/0 URD PRI AL	0	0	1615	407	60	8	5	0.03	2.72	1
SW101246-B	1413112	2.37	0 1-	Open	0	0	1615	407	0	0	0	0.00	2.72	0
1413111	1413110	2.27	2 1-	1/0 URD PRI AL	0	0	1674	411	80	10	6	0.05	2.73	3
1413069	1413068	2.05	220 3-	1/0 ACSR	2361	2185	1804	172	1762	81	35	0.16	2.74	230
1413070	1413069	2.27	199 3-	1/0 ACSR	2182	2023	1654	171	1583	72	32	0.28	3.02	365
1413118	1413070	2.90	9 1-	1/0 URD PRI AL	0	0	1347	389	61	8	5	0.08	3.10	3
1413104	1413070	3.56	29 1-	1/0 URD PRI AL	0	0	1115	364	252	34	21	0.70	3.72	106
SW101244-A	1413104	3.56	0 1-	Open	0	0	1115	364	0	0	0	0.00	3.72	0
1413071	1413070	2.48	161 3-	1/0 ACSR	2034	1890	1533	170	1266	58	25	0.21	3.23	219
1413074	1413071	2.51	80 3-	1/0 ACSR	2015	1872	1517	170	635	29	13	0.02	3.24	8
OC101224	1413074	2.51	80 3-	REC_70_UNK	2015	1872	1517	170	635	29	42	0.00	3.24	0
1413075	OC101224	3.14	80 3-	1/0 ACSR	1672	1562	1244	167	635	29	13	0.28	3.52	134
1413083	1413075	3.19	16 1-	1/0 ACSR	0	0	1224	167	164	22	10	0.03	3.55	3
1413109	1413083	3.49	14 1-	1/0 URD PRI AL	0	0	1133	376	141	19	12	0.10	3.65	10
1413084	1413109	3.64	3 1-	1/0 ACSR	0	0	1091	164	21	2	1	0.00	3.66	0
SW101182-B	1413084	3.64	0 1-	Open	0	0	1091	164	0	0	0	0.00	3.66	0
1413076	1413075	3.24	42 3-	1/0 ACSR	1627	1520	1208	166	309	14	6	0.03	3.55	7
1413077	1413076	3.30	4 3-	1/0 ACSR	1601	1497	1188	166	25	1	1	0.00	3.55	0
1413091	1413077	3.42	2 1-	4 ACSR	0	0	1131	165	18	2	2	0.01	3.56	0
1413115	1413076	3.25	35 1-	1/0 URD PRI AL	0	0	1207	385	283	39	23	0.01	3.56	2
OC101225	1413115	3.25	35 1-	REC_35_UNK	0	0	1207	385	283	39	113	0.00	3.56	0
1413108	OC101225	3.54	35 1-	1/0 URD PRI AL	0	0	1119	374	283	39	23	0.28	3.84	62
1413086	1413108	3.61	26 1-	1/0 ACSR	0	0	1100	164	159	22	10	0.03	3.87	4
1413082	1413086	3.65	0 1-	1/0 ACSR	0	0	1087	164	0	0	0	0.00	3.87	0
SW101182-A	1413082	3.65	0 1-	Open	0	0	1087	164	0	0	0	0.00	3.87	0
1413087	1413086	4.25	24 1-	1/0 ACSR	0	0	944	161	145	20	9	0.21	4.08	20
SW101219-B	1413087	4.25	15 1-	Closed	0	0	944	161	66	9	0	0.00	4.08	0
SW101219-A	SW101219-B	4.25	15 1-	Closed	0	0	944	161	66	9	0	0.00	4.08	0
1413081	SW101219-A	4.88	15 1-	1/0 ACSR	0	0	829	158	66	9	4	0.06	4.14	2
1413072	1413071	2.55	77 3-	1/0 ACSR	1990	1851	1498	170	618	28	12	0.03	3.26	17

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1413073	1413072	2.60	12 3-	1/0 ACSR	1959	1823	1473	170	81	3	2	0.00	3.26	0
1413061	1413073	2.63	2 1-	4 ACSR	0	0	1450	169	11	1	1	0.00	3.26	0
1413099	1413072	2.55	42 1-	2 ACSR	0	0	1494	170	321	44	25	0.01	3.27	2
OC101220	1413099	2.55	42 1-	REC_50_UNK	0	0	1494	170	321	44	89	0.00	3.27	0
1413100	OC101220	3.13	42 1-	2 ACSR	0	0	1206	166	321	44	25	0.58	3.85	127
1413101	1413100	3.21	16 1-	4 ACSR	0	0	1166	165	137	19	14	0.07	3.92	8
1413090	1413101	3.31	3 1-	2 ACSR	0	0	1129	164	24	3	2	0.01	3.92	0
1413102	1413101	3.23	13 1-	1/0 ACSR	0	0	1161	165	113	15	7	0.01	3.92	0
1413088	1413102	3.46	9 1-	4 ACSR	0	0	1060	163	88	12	9	0.10	4.02	7
1413117	1413088	3.76	4 1-	1/0 URD PRI AL	0	0	986	355	49	6	4	0.04	4.06	1
1413089	1413117	3.81	1 1-	2 ACSR	0	0	972	160	14	1	1	0.00	4.06	0
1413097	1413072	2.55	20 1-	4 ACSR	0	0	1493	170	203	28	20	0.01	3.27	1
OC101221	1413097	2.55	20 1-	REC_50_UNK	0	0	1493	170	203	28	56	0.00	3.27	0
1413098	OC101221	3.19	20 1-	4 ACSR	0	0	1118	163	203	28	20	0.41	3.68	49
1413085	1413069	2.47	20 1-	1/0 ACSR	0	0	1540	170	177	24	11	0.21	2.95	28
1413114	1413085	3.08	13 1-	1/0 URD PRI AL	0	0	1277	384	156	21	13	0.21	3.16	19
1413080	1414267	1.86	33 1-	4 ACSR	0	0	1819	171	213	29	21	0.26	2.09	33
1413113	1413080	1.96	3 1-	1/0 URD PRI AL	0	0	1750	412	17	2	1	0.00	2.09	0
SW101246-A	1413113	1.96	0 1-	Open	0	0	1750	412	0	0	0	0.00	2.09	0
1414353	1414311	1.29	4 1-	1/0 ACSR	0	0	2606	176	38	5	2	0.00	1.36	0
1414437	1414353	1.44	4 1-	1/0 URD PRI AL	0	0	2427	441	38	5	3	0.02	1.39	0
1414414	1414437	2.40	3 1-	1/0 URD PRI AL	0	0	1605	398	38	5	3	0.08	1.47	2
SW101245-B	1414414	2.40	0 1-	Open	0	0	1605	398	0	0	0	0.00	1.47	0
1414438	1414437	1.45	0 1-	1/0 URD PRI AL	0	0	2410	440	0	0	0	0.00	1.39	0
SW101245-A	1414438	1.45	0 1-	Open	0	0	2410	440	0	0	0	0.00	1.39	0
CKT 124 total losses:	\$6,381													
SUB 12, CKT 134														
SELK_134	SOUTH ELKHORN	0.00	90 3-	SBS_99_UNK	5677	5838	5907	180	885	39	0	0.00	0.00	0
1414261	SELK_134	0.98	90 3-	336.4 ACSR	3764	3579	3162	178	885	39	7	0.11	0.11	148
SW101228-B	1414261	0.98	90 3-	Closed	3764	3579	3162	178	884	39	0	0.00	0.11	0
SW101228-A	SW101228-B	0.98	90 3-	Closed	3764	3579	3162	178	884	39	0	0.00	0.11	0
1414262	SW101228-A	1.30	90 3-	336.4 ACSR	3384	3185	2739	177	884	39	7	0.04	0.15	48
1414264	1414262	1.66	89 3-	336.4 ACSR	3041	2837	2383	176	874	39	7	0.04	0.19	52
1414265	1414264	1.77	61 3-	336.4 ACSR	2944	2741	2287	176	671	30	6	0.01	0.20	11
1414266	1414265	1.85	60 3-	336.4 ACSR	2884	2681	2228	176	622	28	5	0.00	0.20	6
OC1885028253	1414266	1.85	60 3-	_DefaultBayEqui	2884	2681	2228	176	622	28	0	0.00	0.20	0
1414312	OC1885028253	1.91	60 3-	336.4 ACSR	2838	2635	2183	176	622	28	5	0.00	0.20	5
1413124	1414312	2.11	5 1-	4 ACSR	0	0	1924	173	13	1	1	0.01	0.21	0
1414313	1414312	2.02	53 3-	336.4 ACSR	2754	2552	2102	175	608	28	5	0.00	0.20	8
1414428	1414313	3.19	12 1-	1/0 URD PRI AL	0	0	1396	391	152	20	12	0.37	0.58	33
SW1481789196-B	1414428	3.19	0 1-	Open	0	0	1396	391	0	0	0	0.00	0.58	0
1413125	1414313	2.09	35 3-	336.4 ACSR	2706	2505	2057	175	382	20	4	0.00	0.20	3
1413078	1413125	2.13	31 3-	336.4 ACSR	2680	2480	2033	175	377	17	3	0.00	0.20	0
1413062	1413078	2.14	30 1-	1/0 ACSR	0	0	2019	175	377	51	22	0.02	0.22	5
1413103	1413062	3.04	30 1-	1/0 URD PRI AL	0	0	1482	400	377	51	30	0.71	0.93	158
SW101243-B	1413103	3.04	0 1-	Open	0	0	1482	400	0	0	0	0.00	0.93	0
1413079	1413078	2.20	1 3-	336.4 ACSR	2630	2430	1986	175	0	0	0	0.00	0.20	0
SW101059-B	1413079	2.20	0 3-	Open	2630	2430	1986	175	0	0	0	0.00	0.20	0
CA100044	1413125	2.09	0 3-	Capacitor	2706	2505	2057	175	0	-14	0	0.00	0.20	0
1414443	1414265	1.85	1 1-	1/0 URD PRI AL	0	0	2222	444	49	6	4	0.01	0.20	0
1414246	1414264	1.81	22 1-	1/0 ACSR	0	0	2213	175	181	24	11	0.08	0.27	11

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Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 13	CROOKSVILLE		1719		5055	5360	5417	180	10583					
SUB 13, CRT 114														
CRKV_114	CROOKSVILLE	0.00	631 3-	SBS_99_SBS	5055	5360	5417	180	3631	164	0	0.00	0.00	0
1918207	CRKV_114	0.03	631 3-	336.4 ACSR	4997	5255	5309	180	3631	164	31	0.03	0.03	67
1918185	1918207	0.05	0 3-	336.4 ACSR	4954	5178	5230	180	0	0	0	0.00	0.03	0
SW120557-B	1918185	0.05	0 3-	4954	4954	5178	5230	180	0	0	0	0.00	0.03	0
1918208	1918207	0.87	631 3-	336.4 ACSR	3606	3467	3174	178	3630	164	31	0.94	0.97	2213
1919092	1918208	0.88	13 1-	1/0 ACSR	0	0	3162	178	77	10	5	0.00	0.97	0
OC120422	1919092	0.88	13 1-	REC_25_UNK	0	0	3162	178	77	10	41	0.00	0.97	0
1919093	OC120422	0.95	13 1-	1/0 ACSR	0	0	3030	177	77	10	5	0.01	0.98	0
1919090	1919093	1.45	10 1-	6 ACWC	0	0	2052	172	54	7	5	0.15	1.13	7
1919091	1919090	2.27	7 1-	4 ACSR	0	0	1269	164	48	6	5	0.12	1.25	3
1919083	1918208	1.25	614 3-	336.4 ACSR	3206	3042	2691	177	3526	160	30	0.40	1.37	931
1919108	1919083	1.29	32 1-	4 ACSR	0	0	2602	177	213	28	21	0.06	1.43	11
1919109	1919108	1.30	32 1-	1/0 ACSR	0	0	2593	177	213	28	13	0.00	1.43	0
OC120423	1919109	1.30	32 1-	50-L	0	0	2593	177	213	28	58	0.00	1.43	0
1919118	OC120423	1.35	19 1-	1/0 ACSR	0	0	2526	176	137	18	8	0.01	1.44	0
1919117	OC120423	1.69	13 1-	4 ACSR	0	0	1964	172	76	10	7	0.09	1.52	4
1919084	1919083	2.87	582 3-	336.4 ACSR	2155	1985	1613	174	3306	150	28	1.61	2.98	3560
1819044	1919084	3.02	350 3-	1/0 ACSR	2060	1890	1534	173	1792	82	36	0.19	3.17	274
1819045	1819044	3.24	315 3-	1/0 ACSR	1930	1767	1428	172	1517	69	30	0.26	3.43	320
OC120432	1819045	3.24	302 3-	REC_70_UNK	1930	1767	1428	172	1442	66	95	0.00	3.43	0
1819046	OC120432	3.55	302 3-	1/0 ACSR	1772	1627	1302	170	1442	66	29	0.33	3.76	391
1819048	1819046	4.62	281 3-	1/0 ACSR	1364	1264	989	165	1315	60	26	1.06	4.82	1127
1819052	1819048	4.67	69 3-	1/0 ACSR	1349	1251	978	165	342	15	7	0.01	4.83	4
OC120435	1819052	4.67	69 3-	REC_35_UNK	1349	1251	978	165	342	15	46	0.00	4.83	0
1919124	OC120435	6.08	69 3-	1/0 ACSR	1032	964	743	158	342	15	7	0.36	5.19	101
1919075	1919124	6.28	54 3-	1/0 ACSR	998	933	718	157	257	11	5	0.04	5.24	9
1919063	1919075	6.29	14 1-	4 ACSR	0	0	717	157	52	7	5	0.00	5.24	0
1919064	1919063	7.13	13 1-	1/0 ACSR	0	0	629	154	44	6	3	0.08	5.32	2
1819042	1919064	8.06	6 1-	4 ACSR	0	0	519	146	21	2	2	0.06	5.38	0
1919107	1919075	7.07	40 1-	6 ACWC	0	0	599	150	204	28	20	0.50	5.74	61
1919115	1919124	6.08	5 1-	6 ACWC	0	0	742	158	48	6	5	0.00	5.20	0
OC120436	1919115	6.08	5 1-	REC_35_UNK	0	0	742	158	48	6	19	0.00	5.20	0
1919116	OC120436	7.44	5 1-	6 ACWC	0	0	547	146	48	6	5	0.20	5.40	6
1819049	1819048	5.32	169 3-	1/0 ACSR	1183	1101	854	162	818	38	17	0.43	5.25	290
1819050	1819049	5.84	127 3-	1/0 ACSR	1076	1004	775	159	588	27	12	0.23	5.48	110
1819051	1819050	6.00	33 3-	1/0 ACSR	1046	977	753	159	163	7	3	0.02	5.50	3
1819079	1819051	6.00	31 1-	1/0 ACSR	0	0	752	159	153	21	9	0.00	5.50	0
OC120437	1819079	6.00	31 1-	REC_25_UNK	0	0	752	159	153	21	86	0.00	5.50	0
1819080	OC120437	6.03	31 1-	1/0 ACSR	0	0	749	158	153	21	9	0.01	5.52	2
1819082	1819080	7.46	31 1-	4 ACSR	0	0	541	146	153	21	15	0.69	6.21	64
1819064	1819050	6.34	80 3-	1/0 ACSR	988	924	711	157	358	16	7	0.14	5.62	43
1819065	1819064	6.48	79 3-	1/0 ACSR	966	904	695	156	347	16	7	0.04	5.66	11
1819059	1819065	6.53	31 1-	1/0 ACSR	0	0	690	156	130	18	8	0.02	5.68	2
1819069	1819059	6.55	31 1-	2 ACSR	0	0	687	156	130	18	10	0.01	5.69	1
1819070	1819069	7.30	30 1-	1/0 ACSR	0	0	613	153	130	18	8	0.27	5.96	27
1819071	1819070	7.69	18 1-	2 ACSR	0	0	575	150	104	14	8	0.09	6.05	6
1819060	1819071	8.09	2 1-	4 ACSR	0	0	531	147	3	0	0	0.00	6.05	0
1819066	1819065	6.71	48 1-	1/0 ACSR	0	0	670	155	217	30	13	0.15	5.81	27
OC120438	1819066	6.71	48 1-	REC_35_UNK	0	0	670	155	216	30	87	0.00	5.81	0
1819067	OC120438	6.74	48 1-	1/0 ACSR	0	0	667	155	216	30	13	0.02	5.84	4

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1819068	1819067	8.25	47 1-	4 ACSR	0	0	489	143	215	30	22	1.58	7.42	261
1820005	1819068	8.95	7 1-	4 ACSR	0	0	433	137	19	2	2	0.04	7.46	0
1820006	1819068	8.66	16 1-	4 ACSR	0	0	455	139	96	13	10	0.20	7.63	16
OC120439	1820006	8.66	10 1-	REC_15_UNK	0	0	455	139	61	8	59	0.00	7.63	0
1820004	OC120439	9.65	10 1-	4 ACSR	0	0	388	132	61	8	6	0.20	7.82	7
1819062	1819049	5.65	26 1-	2 ACSR	0	0	792	159	149	20	12	0.15	5.40	16
1819063	1819062	6.38	10 1-	4 ACSR	0	0	658	153	62	8	6	0.14	5.55	5
1819047	1819046	3.61	0 3-	4/0 ACSR	1749	1607	1284	170	0	0	0	0.00	3.76	0
SW120382-A	1819047	3.61	0 3-	Open	1749	1607	1284	170	0	0	0	0.00	3.76	0
1819061	1819044	3.19	4 1-	4 ACSR	0	0	1421	171	17	2	2	0.01	3.18	0
1819054	1919084	2.93	227 3-	1/0 ACSR	2113	1943	1578	173	1460	67	29	0.07	3.05	88
OC120426	1819054	2.93	227 3-	REC_70_UNK	2113	1943	1578	173	1459	67	29	0.00	3.05	0
1819055	OC120426	7.29	227 3-	1/0 ACSR	855	803	614	153	1459	67	96	3.53	6.58	3462
OC120429	1819055	7.29	95 3-	REC_35_UNK	855	803	614	153	584	27	79	0.00	6.58	0
1819056	OC120429	7.33	95 3-	1/0 ACSR	851	799	611	153	584	27	12	0.02	6.60	8
1819043	1819056	7.81	49 3-	1/0 ACSR	797	749	572	151	351	16	7	0.12	6.72	32
1819081	1819043	8.28	35 1-	4 ACSR	0	0	522	147	247	35	25	0.38	7.10	59
1819078	1819081	8.83	4 1-	6 ACWC	0	0	473	142	12	1	1	0.02	7.12	0
1819072	1819056	8.85	46 2-	1/0 ACSR	0	654	502	146	233	16	7	0.43	7.03	78
1819074	1819072	8.86	22 1-	4 ACSR	0	0	502	146	123	17	13	0.00	7.03	0
SW120420-A	1819074	8.86	22 1-	Closed	0	0	502	146	123	17	0	0.00	7.03	0
SW120420-B	SW120420-A	8.86	22 1-	Closed	0	0	502	146	123	17	0	0.00	7.03	0
1819075	SW120420-B	9.03	22 1-	4 ACSR	0	0	487	145	123	17	13	0.12	7.16	13
1819076	1819075	9.15	18 1-	6 ACWC	0	0	477	144	100	14	10	0.06	7.22	5
1819077	1819076	9.61	12 1-	4 ACSR	0	0	442	140	67	9	7	0.10	7.32	4
1819073	1819072	8.91	16 2-	1/0 ACSR	0	650	499	146	56	3	2	0.00	7.03	0
1819057	1819073	8.91	16 1-	4 ACSR	0	0	498	146	56	7	6	0.00	7.04	0
SW120421-A	1819057	8.91	16 1-	Closed	0	0	498	146	56	7	0	0.00	7.04	0
SW120421-B	SW120421-A	8.91	16 1-	Closed	0	0	498	146	56	7	0	0.00	7.04	0
1819058	SW120421-B	9.00	16 1-	4 ACSR	0	0	490	145	56	7	6	0.02	7.05	0
CKT 114 total losses:		\$13,735												
SUB 13, CKT 124														
CKRV_124	CROOKSVILLE	0.00	729 3-	SBS_99_SBS	5055	5360	5417	180	4497	203	0	0.00	0.00	0
1918190	CKRV_124	0.91	729 3-	336.4 ACSR	3561	3419	3118	178	4497	203	38	1.22	1.22	3557
1918237	1918190	0.96	63 1-	1/0 ACSR	0	0	3018	178	569	77	34	0.09	1.31	38
OC120504	1918237	0.96	63 1-	REC_50_UNK	0	0	3018	178	569	77	155	0.00	1.31	0
1918238	OC120504	1.66	63 1-	1/0 ACSR	0	0	2074	174	569	77	34	0.58	1.89	174
1918191	1918190	1.47	644 3-	336.4 ACSR	3009	2837	2468	177	3757	170	32	0.61	1.83	1482
1918177	1918191	1.49	558 3-	336.4 ACSR	2989	2817	2447	177	3107	142	27	0.02	1.85	45
SW120443-A	1918177	1.49	558 3-	Closed	2989	2817	2447	177	3106	142	0	0.00	1.85	0
SW120443-B	SW120443-A	1.49	558 3-	Closed	2989	2817	2447	177	3106	142	0	0.00	1.85	0
1918178	SW120443-B	3.58	558 3-	336.4 ACSR	1882	1722	1371	172	3106	142	27	1.81	3.67	3622
1919069	1918178	3.64	482 3-	4/0 ACSR	1858	1699	1350	172	2623	121	36	0.07	3.74	135
SW120446-A	1919069	3.64	482 3-	Closed	1858	1699	1350	172	2622	121	0	0.00	3.74	0
SW120446-B	SW120446-A	3.64	482 3-	Closed	1858	1699	1350	172	2622	121	0	0.00	3.74	0
1919070	SW120446-B	3.65	482 3-	4/0 ACSR	1857	1698	1349	172	2622	121	36	0.00	3.74	6
RG120006	1919070	3.65	482 3-	219	1857	1698	1349	172	2622	121	55	-3.74	0.00	0
1919066	RG120006	3.68	482 3-	4/0 ACSR	1843	1685	1338	172	2622	117	35	0.04	0.04	70
1919068	1919066	3.73	482 3-	4/0 ACSR	1823	1666	1321	172	2621	117	35	0.06	0.09	110
1919079	1919068	3.81	262 3-	1/0 ACSR	1784	1628	1291	171	1482	66	29	0.09	0.19	111
OC120507	1919079	3.81	262 3-	REC_70_UNK	1784	1628	1291	171	1481	66	95	0.00	0.19	0

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1919073	OC120507	4.73	262 3-	1/0 ACSR	1427	1312	1021	167	1481	66	29	1.02	1.21	1210
1919074	1919073	5.45	196 3-	1/0 ACSR	1229	1136	876	163	1092	49	21	0.55	1.76	471
1919065	1919074	5.48	84 1-	1/0 ACSR	0	0	870	163	448	61	27	0.04	1.80	15
OC120509	1919065	5.48	83 1-	REC_50_UNK	0	0	870	163	439	59	120	0.00	1.80	0
1919061	OC120509	6.94	83 1-	1/0 ACSR	0	0	674	156	439	59	26	1.06	2.86	263
1919062	1919061	7.14	8 1-	2 ACSR	0	0	650	155	56	7	4	0.02	2.89	0
1919080	1919074	6.24	77 3-	1/0 ACSR	1063	988	756	159	460	20	9	0.26	2.03	97
1919081	1919080	6.80	35 3-	1/0 ACSR	970	904	690	157	221	10	4	0.08	2.10	12
1919085	1919081	6.84	6 1-	2 ACSR	0	0	683	157	34	4	3	0.00	2.11	0
1919086	1919085	7.19	1 1-	1/0 ACSR	0	0	648	155	0	0	0	0.00	2.11	0
1919082	1919081	7.17	16 3-	1/0 ACSR	916	854	651	155	100	4	2	0.01	2.12	0
SW120382-B	1919082	7.17	0 3-	Open	916	854	651	155	0	0	0	0.00	2.12	0
1919087	1919080	6.25	33 1-	2 ACSR	0	0	754	159	181	24	14	0.01	2.03	1
OC120510	1919087	6.25	33 1-	35-H	0	0	754	159	181	24	71	0.00	2.03	0
1919088	OC120510	7.61	33 1-	2 ACSR	0	0	587	151	181	24	14	0.85	2.88	114
1919089	1919088	7.68	21 1-	4 ACSR	0	0	578	150	114	15	11	0.03	2.91	2
1919102	1919073	4.78	53 1-	1/0 ACSR	0	0	1009	166	298	40	18	0.05	1.25	11
OC120508	1919102	4.78	53 1-	REC_35_UNK	0	0	1009	166	298	40	116	0.00	1.25	0
1919103	OC120508	6.27	53 1-	1/0 ACSR	0	0	751	159	298	40	18	0.68	1.94	110
1919105	1919103	6.34	4 1-	2 ACSR	0	0	742	159	15	1	1	0.00	1.94	0
1919104	1919103	6.30	0 1-	1/0 ACSR	0	0	747	159	0	0	0	0.00	1.94	0
SW120450-B	1919104	6.30	0 1-	Open	0	0	747	159	0	0	0	0.00	1.94	0
1919071	1919068	3.82	220 3-	1/0 ACSR	1779	1623	1287	171	1138	51	22	0.08	0.18	75
OC120513	1919071	3.82	220 3-	REC_70_UNK	1779	1623	1287	171	1137	51	73	0.00	0.18	0
1919072	OC120513	4.40	220 3-	1/0 ACSR	1539	1410	1104	168	1137	51	22	0.50	0.67	456
1919101	1919072	4.48	1 1-	1/0 ACSR	0	0	1084	168	9	1	1	0.00	0.67	0
SW120450-A	1919101	4.48	0 1-	Open	0	0	1084	168	0	0	0	0.00	0.67	0
1919076	1919072	4.51	215 3-	1/0 ACSR	1501	1377	1076	168	1081	48	21	0.09	0.76	76
1919098	1919076	4.57	20 1-	6 ACWC	0	0	1054	167	109	14	11	0.04	0.80	4
OC120514	1919098	4.57	20 1-	REC_35_UNK	0	0	1054	167	109	14	42	0.00	0.80	0
1919099	OC120514	4.78	20 1-	6 ACWC	0	0	983	165	109	14	11	0.08	0.88	6
1919100	1919099	5.38	4 1-	4 ACSR	0	0	818	159	19	2	2	0.03	0.92	0
1919077	1919076	4.71	191 3-	1/0 ACSR	1436	1320	1027	167	939	42	18	0.14	0.90	105
1919096	1919077	5.14	92 1-	1/0 ACSR	0	0	932	165	454	61	27	0.45	1.35	138
1919097	1919096	6.79	49 1-	4 ACSR	0	0	605	149	252	34	24	1.27	2.62	186
1919078	1919077	6.89	94 3-	1/0 ACSR	956	890	679	157	443	19	9	0.51	1.41	147
1919106	1919078	6.90	40 1-	2 ACSR	0	0	678	156	165	22	12	0.00	1.41	0
OC120515	1919106	6.90	40 1-	REC_25_UNK	0	0	678	156	165	22	90	0.00	1.41	0
1919094	OC120515	7.40	40 1-	2 ACSR	0	0	620	153	165	22	12	0.33	1.74	44
1919095	1919094	8.18	33 1-	4 ACSR	0	0	529	147	149	20	14	0.36	2.10	31
1919067	1919066	3.71	0 3-	4/0 ACSR	1832	1675	1329	172	0	0	0	0.00	0.04	0
SW120449-B	1919067	3.71	0 3-	Open	1832	1675	1329	172	0	0	0	0.00	0.04	0
1918192	1918191	1.55	46 3-	1/0 ACSR	2904	2729	2363	176	357	16	7	0.02	1.86	7
1918270	1918192	2.13	45 1-	1/0 ACSR	0	0	1823	173	357	48	21	0.30	2.16	57
SW120440-B	1918270	2.13	0 1-	Open	0	0	1823	173	0	0	0	0.00	2.16	0
CKT 124 total losses:	\$12,988													
SUB 13, CKT 144														
CRKV_144	CROOKSVILLE	0.00	359 3-	SBS_99_SBS	5055	5360	5417	180	2455	110	0	0.00	0.00	0
1918284	CRKV_144	0.01	359 3-	350 MCM URD PRI	5041	5328	5400	476	2455	110	35	0.01	0.01	20
1918203	1918284	0.02	359 3-	336.4 ACSR	5028	5305	5375	180	2455	110	21	0.00	0.01	7
SW120524-A	1918203	0.02	359 3-	Closed	5028	5305	5375	180	2455	110	0	0.00	0.01	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 14	SOUTH JESSAMINE		1526		5935	6279	6360	180	15102					
SUB 14	CKT 124													
SJES_124	SOUTH JESSAMINE	0.00	985 3-	SBS_99_UNK	5935	6279	6360	180	6671	315	0	0.00	0.00	0
1615084	SJES_124	0.45	985 3-	336.4 ACSR	4789	4696	4478	179	6671	315	60	1.13	1.13	4299
1614192	1615084	0.72	76 3-	336.4 ACSR	4267	4114	3770	178	521	25	5	0.06	1.19	17
1614275	1614192	0.79	15 1-	1/0 ACSR	0	0	3586	178	104	15	7	0.03	1.22	2
OC100612	1614275	0.79	15 1-	70-L	0	0	3586	178	104	15	22	0.00	1.22	0
1614279	OC100612	1.44	15 1-	1/0 ACSR	0	0	2376	175	104	15	7	0.13	1.34	6
1614180	1614192	0.83	56 3-	336.4 ACSR	4093	3925	3550	178	400	19	4	0.02	1.21	4
1614258	1614180	0.84	25 1-	1/0 ACSR	0	0	3535	178	172	25	11	0.00	1.21	0
OC100613	1614258	0.84	25 1-	70-L	0	0	3535	178	172	25	36	0.00	1.21	0
1614259	OC100613	1.49	25 1-	1/0 ACSR	0	0	2353	175	172	25	11	0.21	1.42	17
1614181	1614180	0.94	29 3-	336.4 ACSR	3937	3758	3361	178	207	10	2	0.01	1.22	0
1614271	1614181	1.06	19 1-	336.4 ACSR	0	0	3157	178	141	20	4	0.03	1.25	2
1614274	1614271	1.20	1 1-	336.4 ACSR	0	0	2963	177	25	3	1	0.00	1.25	0
SW689114204-A	1614274	1.20	0 1-	Closed	0	0	2963	177	0	0	0	0.00	1.25	0
SW689114204-B	SW689114204-A	1.20	0 1-	Closed	0	0	2963	177	0	0	0	0.00	1.25	0
1614272	1614271	1.07	13 1-	4 ACSR	0	0	3141	178	83	12	9	0.00	1.25	0
OC100614	1614272	1.07	13 1-	70-L	0	0	3141	178	83	12	17	0.00	1.25	0
1614273	OC100614	2.46	13 1-	4 ACSR	0	0	1241	163	83	12	9	0.40	1.65	20
1614172	1615084	1.47	904 3-	4/0 ACSR	3051	2857	2412	176	6071	288	85	3.29	4.42	13006
SW100468-B	1614172	1.47	890 3-	Closed	3051	2857	2412	176	5840	282	0	0.00	4.42	0
SW100468-A	SW100468-B	1.47	890 3-	Closed	3051	2857	2412	176	5840	282	0	0.00	4.42	0
1614173	SW100468-A	1.80	890 3-	4/0 ACSR	2724	2531	2094	175	5840	282	83	1.04	5.46	4100
1614174	1614173	2.04	888 3-	4/0 ACSR	2529	2339	1913	174	5798	286	84	0.78	6.25	3040
1614176	1614174	2.33	498 3-	4/0 ACSR	2326	2141	1731	173	3622	177	52	0.55	6.80	1365
SW100482-B	1614176	2.33	479 3-	Closed	2326	2141	1731	173	3496	171	0	0.00	6.80	0
SW100482-A	SW100482-B	2.33	479 3-	Closed	2326	2141	1731	173	3496	171	0	0.00	6.80	0
1614182	SW100482-A	2.63	479 3-	4/0 ACSR	2144	1965	1573	172	3496	171	50	0.57	7.36	1375
1614268	1614182	2.75	27 1-	4 ACSR	0	0	1485	171	218	33	24	0.19	7.55	39
OC100624	1614268	2.75	27 1-	25-H	0	0	1485	171	217	33	134	0.00	7.55	0
1614269	OC100624	4.07	27 1-	4 ACSR	0	0	875	158	217	33	24	1.05	8.61	143
1614183	1614182	3.53	450 3-	4/0 ACSR	1740	1582	1239	169	3232	158	47	1.50	8.86	3388
1614189	1614183	4.53	423 3-	4/0 ACSR	1437	1306	1001	166	3033	149	44	1.57	10.44	3460
OC100641	1614189	4.53	411 3-	REC_99_VWE	1437	1306	1001	166	2979	148	0	0.00	10.44	0
1614190	OC100641	4.55	411 3-	4/0 ACSR	1431	1300	996	166	2979	148	44	0.04	10.48	91
1714116	1614190	4.90	411 3-	4/0 ACSR	1350	1227	934	165	2978	152	45	0.59	11.06	1225
RG100003	1714116	4.90	399 3-	219	1350	1227	934	165	2920	149	68	-11.06	0.00	0
1714080	RG100003	5.43	399 3-	4/0 ACSR	1242	1129	853	163	2920	136	40	0.81	0.81	1525
1714086	1714080	5.98	67 3-	1/0 ACSR	1121	1025	771	161	410	19	9	0.19	1.00	58
OC100628	1714086	5.98	57 3-	REC_70_UNK	1121	1025	771	161	335	16	23	0.00	1.00	0
1714087	OC100628	7.55	57 3-	1/0 ACSR	873	807	603	154	335	16	7	0.36	1.36	77
1714109	1714087	7.56	4 1-	6 ACWC	0	0	601	153	26	3	3	0.00	1.36	0
OC100635	1714109	7.56	4 1-	REC_25_UNK	0	0	601	153	26	3	15	0.00	1.36	0
1714110	OC100635	8.04	4 1-	6 ACWC	0	0	547	149	26	3	3	0.06	1.42	0
1714103	1714110	8.41	1 1-	4 ACSR	0	0	510	146	9	1	1	0.01	1.43	0
1714088	1714087	8.48	20 3-	1/0 ACSR	770	715	534	149	124	6	3	0.06	1.41	4
SW100488-B	1714088	8.48	4 3-	Closed	770	715	534	149	5	0	0	0.00	1.41	0
SW100488-A	SW100488-B	8.48	4 3-	Closed	770	715	534	149	5	0	0	0.00	1.41	0
1714089	SW100488-A	8.57	4 3-	1/0 ACSR	762	707	528	149	5	0	0	0.00	1.41	0
1714073	1714089	8.62	2 1-	4 ACSR	0	0	523	149	4	0	0	0.00	1.42	0
SW100485-B	1714073	8.62	1 1-	Closed	0	0	523	149	0	0	0	0.00	1.42	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW100485-A	SW100485-B	8.62	1 1-	Closed	0	0	523	149	0	0	0	0.00	1.42	0
1714074	SW100485-A	8.85	1 1-	4 ACSR	0	0	502	147	0	0	0	0.00	1.42	0
1714081	1714089	8.77	1 3-	1/0 ACSR	744	691	515	148	0	0	0	0.00	1.41	0
SW100479-B	1714081	8.77	0 3-	Open	744	691	515	148	0	0	0	0.00	1.41	0
1714075	1714080	5.76	325 3-	4/0 ACSR	1181	1074	808	162	2453	114	34	0.42	1.23	672
1614211	1714075	6.17	310 3-	4/0 ACSR	1116	1015	760	161	2340	109	32	0.48	1.71	747
SW100491-B	1614211	6.17	302 3-	Closed	1116	1015	760	161	2280	107	0	0.00	1.71	0
SW100491-A	SW100491-B	6.17	302 3-	Closed	1116	1015	760	161	2280	107	0	0.00	1.71	0
1614170	SW100491-A	6.28	302 3-	4/0 ACSR	1100	1000	748	161	2280	107	31	0.13	1.84	192
1614233	1614170	6.37	235 3-	4/0 ACSR	1086	988	738	160	1807	84	25	0.08	1.92	101
OC100640	1614233	6.37	233 3-	50-L	1086	988	738	160	1796	83	167	0.00	1.92	0
1714117	OC100640	7.16	233 3-	4/0 ACSR	984	895	664	158	1796	83	25	0.64	2.56	754
1714090	1714117	8.31	187 3-	4/0 ACSR	864	787	579	154	1508	69	21	0.69	3.25	679
1714082	1714090	8.35	159 3-	1/0 ACSR	860	783	576	154	1116	51	22	0.03	3.28	29
1714083	1714082	8.44	159 3-	1/0 ACSR	850	774	570	154	1116	55	24	0.10	3.38	86
1714084	1714083	8.55	113 3-	1/0 ACSR	838	764	562	153	838	41	18	0.09	3.47	59
1714085	1714084	8.88	58 3-	1/0 ACSR	802	733	539	152	435	21	9	0.14	3.61	48
1714107	1714085	8.88	58 1-	6 ACWC	0	0	538	152	435	64	46	0.02	3.62	7
OC100632	1714107	8.88	58 1-	25-H	0	0	538	152	435	64	260	0.00	3.62	0
1714108	OC100632	10.12	58 1-	6 ACWC	0	0	439	142	435	64	46	1.88	5.51	494
1714094	1714084	8.62	55 1-	4 ACSR	0	0	554	153	403	60	43	0.21	3.67	75
OC100633	1714094	8.62	55 1-	35-H	0	0	554	153	402	60	172	0.00	3.67	0
1714095	OC100633	9.50	55 1-	4 ACSR	0	0	475	145	402	60	43	1.76	5.43	511
1714091	1714095	10.28	18 1-	4 ACSR	0	0	419	139	123	18	13	0.62	6.05	65
1714093	1714091	10.87	9 1-	4 ACSR	0	0	384	135	54	8	6	0.12	6.16	4
1714092	1714091	11.40	6 1-	4 ACSR	0	0	357	131	42	6	5	0.17	6.22	4
1714096	1714095	9.68	5 1-	4 ACSR	0	0	461	144	33	5	4	0.02	5.45	0
1714059	1714083	8.48	46 1-	1/0 ACSR	0	0	567	154	277	41	18	0.04	3.42	9
OC100634	1714059	8.48	46 1-	REC_35_UNK	0	0	567	154	277	41	118	0.00	3.42	0
1714060	OC100634	9.23	46 1-	1/0 ACSR	0	0	516	150	277	41	18	0.53	3.95	85
1714071	1714060	9.30	1 1-	6 ACWC	0	0	510	150	10	1	1	0.00	3.96	0
1714072	1714071	9.35	1 1-	4 ACSR	0	0	506	149	10	1	1	0.00	3.96	0
1714070	1714060	10.12	15 1-	6 ACWC	0	0	446	143	85	12	9	0.27	4.22	14
CA100020	1714082	8.35	0 3-	Capacitor	860	783	576	154	0	-14	0	0.00	3.28	0
1714057	1714117	7.20	10 1-	4 ACSR	0	0	659	158	47	6	5	0.01	2.58	0
OC100636	1714057	7.20	10 1-	25-H	0	0	659	158	47	6	28	0.00	2.58	0
1714058	OC100636	8.62	10 1-	4 ACSR	0	0	497	145	47	6	5	0.23	2.81	7
1614171	1614170	6.89	65 3-	4/0 ACSR	1017	925	688	159	454	22	7	0.11	1.95	24
1614232	1614171	7.08	24 3-	4 ACSR	971	888	659	157	142	6	5	0.03	1.97	3
1614147	1614232	7.25	1 1-	4 ACSR	0	0	635	155	3	0	0	0.00	1.98	0
1614231	1614171	6.92	0 3-	4/0 ACSR	1013	921	685	159	0	0	0	0.00	1.95	0
SW100494-B	1614231	6.92	0 3-	Open	1013	921	685	159	0	0	0	0.00	1.95	0
1614256	1714075	5.78	3 1-	4 ACSR	0	0	804	162	23	3	2	0.00	1.23	0
OC100637	1614256	5.78	3 1-	25-H	0	0	804	162	23	3	13	0.00	1.23	0
1614257	OC100637	6.62	3 1-	4 ACSR	0	0	654	154	23	3	2	0.07	1.30	0
CA100017	1614190	4.55	0 3-	Capacitor	1431	1300	996	166	0	-13	0	0.00	10.48	0
1614276	1614183	3.55	9 1-	4 ACSR	0	0	1225	169	60	9	7	0.01	8.87	0
OC100625	1614276	3.55	9 1-	REC_25_UNK	0	0	1225	169	60	9	37	0.00	8.87	0
1614277	OC100625	3.67	9 1-	4 ACSR	0	0	1173	168	60	9	7	0.04	8.92	2
1614278	1614277	4.21	8 1-	6 ACWC	0	0	964	162	45	7	5	0.09	9.01	3
SW100483-A	1614278	4.21	0 1-	Open	0	0	964	162	0	0	0	0.00	9.01	0
1614175	1614174	2.10	383 3-	4/0 ACSR	2482	2293	1871	174	2142	109	32	0.08	6.33	116

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1614168	1614175	2.43	383 3-	1/0 ACSR	2208	2021	1644	172	2141	109 48	0.70	7.03	1237	
1614169	1614168	2.45	362 3-	1/0 ACSR	2193	2007	1632	172	1968	101 44	0.04	7.07	64	
OC100631	1614169	2.45	362 3-	70-L	2193	2007	1632	172	1968	101 145	0.00	7.07	0	
1614177	OC100631	2.54	362 3-	1/0 ACSR	2130	1953	1582	172	1968	101 44	0.17	7.24	278	
1615128	1614177	5.15	346 3-	1/0 ACSR	1122	1050	811	159	1929	99 43	4.20	11.44	6021	
1715065	1615128	5.48	1 3-	336.4 ACSR	1084	1013	779	158	3	0	0.00	11.44	0	
SW100471-A	1715065	5.48	0 3-	Open	1084	1013	779	158	0	0	0.00	11.44	0	
1715066	1615128	5.72	258 3-	1/0 ACSR	1015	952	732	157	1261	67 29	0.72	12.16	772	
1715073	1715066	6.64	18 1-	4 ACSR	0	0	589	149	80	12 9	0.28	12.44	15	
1714115	1715066	6.39	227 3-	1/0 ACSR	911	856	656	154	1123	60 26	0.77	12.93	746	
1714078	1714115	6.70	185 3-	1/0 ACSR	871	819	627	152	942	50 22	0.29	13.23	240	
OC100619	1714078	6.70	181 3-	50-H	871	819	627	152	912	49 99	0.00	13.23	0	
1714079	OC100619	7.15	181 3-	1/0 ACSR	817	769	588	150	912	49 21	0.42	13.65	329	
1714120	1714079	7.67	23 1-	4 ACSR	0	0	529	146	143	23 17	0.50	14.14	64	
1714121	1714120	8.04	13 1-	6 ACWC	0	0	494	143	103	16 12	0.24	14.39	22	
1714122	1714121	8.92	8 1-	4 ACSR	0	0	425	137	68	11 8	0.23	14.62	11	
1714119	1714079	7.51	144 3-	1/0 ACSR	779	734	561	149	718	39 17	0.26	13.91	162	
1714101	1714119	7.59	42 1-	4 ACSR	0	0	552	148	174	28 20	0.10	14.01	17	
OC100620	1714101	7.59	37 1-	25-H	0	0	552	148	152	24 100	0.00	14.01	0	
1714102	OC100620	7.73	37 1-	4 ACSR	0	0	537	147	152	24 18	0.15	14.16	21	
1714104	1714102	8.01	31 1-	6 ACWC	0	0	509	145	130	21 15	0.25	14.41	30	
1714106	1714104	8.11	10 1-	6 ACWC	0	0	500	144	18	2 2	0.01	14.43	0	
1714118	1714106	10.44	9 1-	4 ACSR	0	0	347	128	14	2 2	0.13	14.56	1	
1715094	1714104	8.19	15 1-	6 ACWC	0	0	492	143	83	13 10	0.10	14.52	8	
1715086	1715094	8.59	11 1-	4 ACSR	0	0	459	140	66	10 8	0.12	14.64	6	
1715088	1715086	8.98	2 1-	4 ACSR	0	0	430	137	7	1 1	0.01	14.65	0	
1715087	1715086	8.65	1 1-	4 ACSR	0	0	454	140	3	0 0	0.00	14.64	0	
1714077	1714119	8.03	102 3-	1/0 ACSR	729	688	525	147	518	28 12	0.27	14.18	122	
SW100479-A	1714077	8.77	11 3-	1/0 ACSR	669	632	481	144	76	4 2	0.03	14.21	1	
1714067	1714077	8.77	0 3-	Open	669	632	481	144	0	0 0	0.00	14.21	0	
OC100621	1714076	8.04	82 1-	4 ACSR	0	0	524	147	406	66 47	0.03	14.21	14	
1714068	1714067	8.04	82 1-	REC_35_UNK	0	0	524	147	406	66 190	0.00	14.21	0	
SW100473-B	OC100621	9.43	82 1-	4 ACSR	0	0	413	136	405	66 47	4.21	18.43	1646	
SW100473-A	1714068	9.43	73 1-	Closed	0	0	413	136	358	60 0	0.00	18.43	0	
1714069	SW100473-B	9.43	73 1-	Closed	0	0	413	136	358	60 0	0.00	18.43	0	
OC100623	SW100473-A	9.45	73 1-	4 ACSR	0	0	411	136	358	60 43	0.06	18.49	22	
1714064	1714069	9.50	36 1-	4 ACSR	0	0	408	136	143	24 17	0.05	18.54	8	
SW100475-B	1714064	9.50	35 1-	25-H	0	0	408	136	141	24 96	0.00	18.54	0	
SW100475-A	OC100623	10.10	35 1-	4 ACSR	0	0	374	132	141	24 17	0.55	19.09	69	
1714066	1714065	10.10	24 1-	Closed	0	0	374	132	85	14 0	0.00	19.09	0	
SW100476-B	SW100475-B	10.10	24 1-	Closed	0	0	374	132	85	14 0	0.00	19.09	0	
SW100476-A	SW100475-A	10.23	24 1-	4 ACSR	0	0	367	131	85	14 10	0.08	19.17	7	
1714056	SW100476-B	10.23	21 1-	Closed	0	0	367	131	72	12 0	0.00	19.17	0	
1714061	SW100476-A	12.37	21 1-	4 ACSR	0	0	282	118	72	12 9	0.63	19.80	31	
OC100622	1714061	9.48	34 1-	4 ACSR	0	0	410	136	199	33 24	0.04	18.53	9	
1714062	1714061	9.48	34 1-	25-H	0	0	410	136	199	33 136	0.00	18.53	0	
SW100474-B	OC100622	9.83	34 1-	4 ACSR	0	0	388	133	199	33 24	0.52	19.05	100	
SW100474-A	1714062	9.83	25 1-	Closed	0	0	388	133	162	27 0	0.00	19.05	0	
1714063	SW100474-B	9.83	25 1-	Closed	0	0	388	133	162	27 0	0.00	19.05	0	
1714097	SW100474-A	11.38	25 1-	4 ACSR	0	0	316	123	162	27 20	1.01	20.07	113	
	1714115	6.43	37 1-	4 ACSR	0	0	651	153	148	23 17	0.04	12.98	6	

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
OC100616	1714097	6.43	37 1-	25-H	0	0	651	153	148	23	96	0.00	12.98	0
1714098	OC100616	7.03	37 1-	4 ACSR	0	0	570	148	148	23	17	0.50	13.48	59
1714099	1714098	7.04	21 1-	6 ACWC	0	0	569	148	68	11	8	0.00	13.48	0
SW100472-B	1714099	7.04	21 1-	Closed	0	0	569	148	68	11	0	0.00	13.48	0
SW100472-A	SW100472-B	7.04	21 1-	Closed	0	0	569	148	68	11	0	0.00	13.48	0
1714100	SW100472-A	7.64	21 1-	6 ACWC	0	0	505	143	68	11	8	0.16	13.64	7
1614267	1714100	7.95	5 1-	6 ACWC	0	0	478	141	3	0	0	0.00	13.65	0
SW100483-B	1714100	7.64	0 1-	Open	0	0	505	143	0	0	0	0.00	13.64	0
1614249	1614177	2.69	16 1-	4 ACSR	0	0	1467	170	36	5	4	0.04	7.27	1
1614260	1614249	2.77	10 1-	2 ACSR	0	0	1421	169	30	4	3	0.01	7.29	0
1614261	1614260	2.92	9 1-	4 ACSR	0	0	1323	168	30	4	3	0.03	7.32	0
SW100484-B	1614261	2.92	6 1-	Closed	0	0	1323	168	25	3	0	0.00	7.32	0
SW100484-A	SW100484-B	2.92	6 1-	Closed	0	0	1323	168	25	3	0	0.00	7.32	0
1614262	SW100484-A	2.94	6 1-	4 ACSR	0	0	1315	168	25	3	3	0.00	7.32	0
1614265	1614168	2.47	21 1-	4 ACSR	0	0	1614	172	162	24	18	0.04	7.07	6
OC100615	1614265	2.47	21 1-	REC_99_L	0	0	1614	172	162	24	25	0.00	7.07	0
1615130	OC100615	3.38	21 1-	4 ACSR	0	0	1066	162	162	24	18	1.00	8.07	142
1615098	1615130	4.02	14 1-	4 ACSR	0	0	851	156	135	20	15	0.36	8.43	33
1615099	1615098	4.21	1 1-	2 ACSR	0	0	811	155	19	2	2	0.01	8.44	0
1615119	1615130	3.39	1 1-	1/0 URD PRI AL	0	0	1064	364	0	0	0	0.00	8.07	0
OC287598522	1615119	3.39	1 1-	_DefaultBayEqui	0	0	1064	364	0	0	0	0.00	8.07	0
1615120	OC287598522	3.47	1 1-	1/0 URD PRI AL	0	0	1042	361	0	0	0	0.00	8.07	0
CA100014	1614173	1.80	0 3-	Capacitor	2724	2531	2094	175	0	-13	0	0.00	5.46	0
CKT 124 total losses:		\$54,493												
SUB 14, CKT 134														
SJES_134	SOUTH JESSAMINE	0.00	498 3-	SBS_99_UNK	5935	6279	6360	180	2840	138	0	0.00	0.00	0
1615080	SJES_134	0.52	498 3-	336.4 ACSR	4633	4519	4257	179	2840	138	26	0.62	0.62	969
1615096	1615080	0.61	13 1-	1/0 ACSR	0	0	3970	178	14	2	1	0.00	0.63	0
OC100713	1615096	0.61	13 1-	35-L	0	0	3970	178	14	2	6	0.00	0.63	0
1615097	OC100713	0.94	13 1-	1/0 ACSR	0	0	3098	177	14	2	1	0.01	0.64	0
1615081	1615080	0.71	480 3-	336.4 ACSR	4301	4150	3812	178	2788	136	26	0.21	0.84	329
SW100644-B	1615081	0.71	480 3-	Closed	4301	4150	3812	178	2786	136	0	0.00	0.84	0
SW100644-A	SW100644-B	0.71	480 3-	Closed	4301	4150	3812	178	2786	136	0	0.00	0.84	0
1615078	SW100644-A	1.72	480 3-	336.4 ACSR	3063	2857	2403	176	2786	136	26	1.16	1.99	1757
1615085	1615078	1.83	320 3-	336.4 ACSR	2970	2764	2310	176	1798	88	17	0.08	2.08	83
SW100654-B	1615085	1.83	318 3-	Closed	2970	2764	2310	176	1776	87	0	0.00	2.08	0
SW100654-A	SW100654-B	1.83	318 3-	Closed	2970	2764	2310	176	1776	87	0	0.00	2.08	0
1615086	SW100654-A	3.33	318 3-	336.4 ACSR	2090	1908	1506	173	1776	87	17	0.99	3.06	899
1615087	1615086	3.41	174 3-	1/0 ACSR	2043	1862	1470	172	952	47	21	0.07	3.13	52
OC100721	1615087	3.41	174 3-	100-L	2043	1862	1470	172	951	47	47	0.00	3.13	0
1615088	OC100721	3.77	174 3-	1/0 ACSR	1841	1682	1317	171	951	47	21	0.32	3.45	246
1615089	1615088	4.84	140 3-	1/0 ACSR	1407	1300	999	165	763	37	17	0.74	4.20	441
1715071	1615089	6.06	28 3-	336.4 ACSR	1209	1114	841	163	151	7	1	0.04	4.24	2
SW100471-B	1715071	6.06	0 3-	Open	1209	1114	841	163	0	0	0	0.00	4.24	0
1715068	1615089	5.12	97 3-	1/0 ACSR	1324	1226	939	164	534	26	12	0.14	4.33	57
1715077	1715068	5.23	18 1-	4 ACSR	0	0	908	163	110	16	12	0.08	4.42	8
OC100726	1715077	5.23	16 1-	REC_35_UNK	0	0	908	163	101	15	43	0.00	4.42	0
1715078	OC100726	5.63	16 1-	4 ACSR	0	0	807	159	101	15	11	0.20	4.62	15
1715074	1715078	5.78	8 1-	6 ACWC	0	0	774	158	43	6	5	0.04	4.66	1
1715075	1715074	6.22	5 1-	4 ACSR	0	0	689	154	28	4	3	0.04	4.70	0
1715069	1715068	5.17	72 3-	1/0 ACSR	1311	1214	930	164	371	18	8	0.02	4.35	5

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
OC100725	1715069	5.17	71 3-		50-H	1311	1214	930	164	371	18 37	0.00	4.35	0
1715070	OC100725	5.33	71 3-	1/0	ACSR	1267	1174	898	163	371	18 8	0.04	4.39	9
1715082	1715070	6.92	35 1-	4	ACSR	0	0	594	149	134	20 14	1.08	5.47	106
OC100727	1715082	6.92	18 1-	25-H	0	0	0	594	149	55	8 33	0.00	5.47	0
1715083	OC100727	7.54	18 1-	4	ACSR	0	0	522	144	55	8 6	0.17	5.64	7
1715084	1715083	7.65	12 1-	6	ACWC	0	0	512	143	20	3 2	0.01	5.65	0
1715085	1715084	8.72	11 1-	4	ACSR	0	0	423	135	15	2 2	0.06	5.71	0
1715076	1715085	8.82	0 1-	4	ACSR	0	0	416	134	0	0 0	0.00	5.71	0
1615094	1615088	3.85	30 1-	4	ACSR	0	0	1272	170	176	26 19	0.11	3.56	17
OC100722	1615094	3.85	29 1-	REC_35_UNK	0	0	0	1272	170	176	26 75	0.00	3.56	0
1615095	OC100722	4.90	29 1-	4	ACSR	0	0	873	159	176	26 19	0.66	4.22	70
1615108	1615086	3.37	73 1-	1/0	ACSR	0	0	1488	173	366	54 24	0.05	3.11	14
OC100716	1615108	3.37	73 1-	50-L	0	0	0	1488	173	366	54 109	0.00	3.11	0
1615101	OC100716	3.39	4 1-	4	ACSR	0	0	1474	172	23	3 2	0.00	3.11	0
1615109	OC100716	3.76	69 1-	1/0	ACSR	0	0	1317	171	344	51 22	0.49	3.60	121
SW100655-B	1615109	3.76	64 1-	Closed	0	0	0	1317	171	311	46 0	0.00	3.60	0
SW100655-A	SW100655-B	3.76	64 1-	Closed	0	0	0	1317	171	311	46 0	0.00	3.60	0
1615105	SW100655-A	4.11	64 1-	1/0	ACSR	0	0	1196	169	311	46 20	0.39	3.99	87
1615107	1615105	4.71	49 1-	1/0	ACSR	0	0	1029	166	265	39 17	0.49	4.48	84
1615113	1615107	4.77	12 1-	4	ACSR	0	0	1008	165	48	7 5	0.02	4.50	0
OC100718	1615113	4.77	12 1-	25-H	0	0	0	1008	165	48	7 29	0.00	4.50	0
1615104	OC100718	4.92	12 1-	4	ACSR	0	0	958	164	48	7 5	0.05	4.55	2
1615100	1615104	5.25	11 1-	6	ACWC	0	0	867	161	48	7 5	0.10	4.65	4
1715079	1615100	5.81	6 1-	4	ACSR	0	0	738	155	35	5 4	0.08	4.73	2
1715080	1715079	5.97	1 1-	1/0	ACSR	0	0	719	155	4	0 0	0.00	4.73	0
1715081	1715080	6.14	1 1-	4	ACSR	0	0	688	153	4	0 0	0.00	4.73	0
1615110	1615107	4.71	20 1-	1/0	ACSR	0	0	1028	166	115	17 8	0.00	4.48	0
OC100717	1615110	4.71	20 1-	25-H	0	0	0	1028	166	115	17 69	0.00	4.48	0
1615112	OC100717	5.93	18 1-	1/0	ACSR	0	0	799	160	110	16 7	0.30	4.79	18
1715090	1615112	7.01	7 1-	4	ACSR	0	0	612	150	21	3 2	0.08	4.87	0
1615111	OC100717	4.83	2 1-	4	ACSR	0	0	990	165	6	0 1	0.00	4.48	0
1615106	1615105	4.72	9 1-	4	ACSR	0	0	963	163	16	2 2	0.04	4.03	0
1615079	1615078	1.72	130 3-	336.4	ACSR	3058	2852	2398	176	836	41 8	0.00	2.00	0
SW100647-B	1615079	1.72	130 3-	Closed	0	0	0	2398	176	836	41 0	0.00	2.00	0
SW100647-A	SW100647-B	1.72	130 3-	Closed	0	0	0	2398	176	836	41 0	0.00	2.00	0
1615082	SW100647-A	2.92	130 3-	336.4	ACSR	2273	2084	1664	174	836	41 8	0.39	2.38	171
1615083	1615082	3.63	12 3-	336.4	ACSR	1972	1797	1408	172	111	5 1	0.02	2.40	0
SW100651-A	1615083	3.63	0 3-	Open	0	0	0	1408	172	0	0 0	0.00	2.40	0
1615066	1615082	2.95	101 1-	4	ACSR	0	0	1641	173	584	86 62	0.11	2.50	60
OC100714	1615066	2.95	101 1-	REC_70_UNK	0	0	0	1641	173	583	86 123	0.00	2.50	0
1615067	OC100714	3.54	101 1-	4	ACSR	0	0	1248	167	583	86 62	2.13	4.63	1020
1615068	1615067	3.99	75 1-	6	ACWC	0	0	1044	163	426	64 46	1.18	5.81	420
1615069	1615068	4.25	60 1-	4	ACSR	0	0	952	160	315	47 34	0.56	6.37	158
1615073	1615069	4.54	9 1-	4	ACSR	0	0	863	158	38	5 4	0.04	6.41	0
1615070	1615069	4.39	47 1-	4	ACSR	0	0	907	159	251	38 27	0.24	6.61	53
OC100715	1615070	4.39	44 1-	REC_35_UNK	0	0	0	907	159	215	32 94	0.00	6.61	0
1615071	OC100715	5.55	44 1-	4	ACSR	0	0	648	149	215	32 24	0.99	7.60	137
SW100648-B	1615071	5.55	3 1-	Closed	0	0	0	648	149	17	2 0	0.00	7.60	0
SW100648-A	SW100648-B	5.55	3 1-	Closed	0	0	0	648	149	17	2 0	0.00	7.60	0
1615072	SW100648-A	6.39	3 1-	4	ACSR	0	0	535	142	17	2 2	0.05	7.65	0

CKT 134 total losses: \$7,424

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS	
SUB 14, CKT 144															
	SJES_144	SOUTH JESSAMINE	0.00	43 3-	SBS_99_UNK	5935	6279	6360	180	5591	259	0	0.00	0.00	0
	1614298	SJES_144	0.97	43 3-	556.1 ACSR	3994	3830	3468	178	5591	259	36	1.42	1.42	3816
SW1794355222-B	1614298	1614298	0.97	43 3-	Closed	3994	3830	3468	178	5558	259	0	0.00	1.42	0
SW1794355222-A	SW1794355222-B	1614298	0.97	43 3-	Closed	3994	3830	3468	178	5558	259	0	0.00	1.42	0
1614212	SW1794355222-A	1614212	1.01	43 3-	556.1 ACSR	3933	3766	3395	178	5558	259	36	0.07	1.48	179
1614210	1614212	1614210	1.03	0 3-	556.1 ACSR	3909	3740	3366	178	0	0	0	0.00	1.48	0
SW722105637-A	1614210	1614210	1.03	0 3-	Open	3909	3740	3366	178	0	0	0	0.00	1.48	0
1614213	1614212	1614213	1.15	43 3-	556.1 ACSR	3757	3582	3188	178	5557	259	36	0.20	1.69	554
1614214	1614213	1614214	1.56	43 3-	556.1 ACSR	3326	3140	2710	178	5552	263	36	0.63	2.32	1639
1614215	1614214	1614215	1.99	40 3-	556.1 ACSR	2962	2775	2336	177	5503	267	37	0.73	3.05	1800
SW100936-B	1614215	1614215	1.99	36 3-	Closed	2962	2775	2336	177	5450	265	0	0.00	3.05	0
SW100936-A	SW100936-B	1614215	1.99	36 3-	Closed	2962	2775	2336	177	5450	265	0	0.00	3.05	0
1614216	SW100936-A	1614216	2.04	36 3-	556.1 ACSR	2925	2738	2298	177	5450	265	36	0.08	3.13	210
1614204	1614216	1614204	2.10	9 3-	336.4 ACSR	2879	2692	2252	177	568	28	5	0.01	3.15	5
SW100769-B	1614204	1614204	2.10	9 3-	Closed	2879	2692	2252	177	568	28	0	0.00	3.15	0
SW100769-A	SW100769-B	1614204	2.10	9 3-	Closed	2879	2692	2252	177	568	28	0	0.00	3.15	0
1614205	SW100769-A	1614205	2.41	9 3-	336.4 ACSR	2657	2471	2034	176	568	28	5	0.06	3.21	17
OC1276286947	1614205	1614205	2.41	5 3-	_DefaultBayEqui	2657	2471	2034	176	352	17	0	0.00	3.21	0
1614207	OC1276286947	1614207	2.63	3 3-	336.4 ACSR	2520	2336	1904	176	345	17	3	0.03	3.24	5
1614208	1614207	1614208	2.64	0 3-	336.4 ACSR	2518	2334	1902	176	0	0	0	0.00	3.24	0
RG2018065555	1614208	1614208	2.64	0 3-	219	2518	2334	1902	176	0	0	0	-3.24	0.00	0
1614209	RG2018065555	1614209	2.84	0 3-	336.4 ACSR	2402	2221	1795	175	0	0	0	0.00	0.00	0
1614995	1614207	1614207	2.63	1 3-	Consumer	2520	2336	1904	176	251	12	0	0.00	3.24	0
1614206	OC1276286947	1614206	2.53	2 3-	1/0 ACSR	2545	2358	1935	175	7	0	0	0.00	3.24	0
1614193	1614216	1614193	2.14	26 3-	556.1 ACSR	2851	2665	2225	177	4880	237	32	0.15	3.29	343
1614203	1614193	1614203	2.18	0 3-	4/0 ACSR	2814	2629	2190	177	0	0	0	0.00	3.29	0
SW100730-A	1614203	1614203	2.18	0 3-	Open	2814	2629	2190	177	0	0	0	0.00	3.29	0
1614194	1614193	1614194	2.19	26 3-	4/0 ACSR	2804	2618	2179	177	4877	237	70	0.14	3.43	446
RG100009	1614194	1614194	2.19	26 3-	219	2804	2618	2179	177	4873	237	108	-3.43	0.00	0
1614196	RG100009	1614196	2.40	25 3-	4/0 ACSR	2632	2448	2014	176	4402	207	61	0.48	0.48	1363
1614217	1614196	1614217	2.45	25 3-	4/0 ACSR	2590	2407	1975	176	4391	213	63	0.14	0.62	374
SW100917-B	1614217	1614217	2.45	25 3-	Closed	2590	2407	1975	176	4387	213	0	0.00	0.62	0
SW100917-A	SW100917-B	1614217	2.45	25 3-	Closed	2590	2407	1975	176	4387	213	0	0.00	0.62	0
1614218	SW100917-A	1614218	2.67	25 3-	4/0 ACSR	2426	2247	1824	175	4387	213	63	0.57	1.19	1566
1614200	1614218	1614200	2.75	2 3-	4/0 ACSR	2375	2198	1778	175	39	1	1	0.00	1.19	0
SW100932-B	1614200	1614200	2.75	2 3-	Closed	2375	2198	1778	175	39	1	0	0.00	1.19	0
SW100932-A	SW100932-B	1614200	2.75	2 3-	Closed	2375	2198	1778	175	39	1	0	0.00	1.19	0
1614201	SW100932-A	1614201	2.82	3 3-	4/0 ACSR	2330	2154	1738	175	39	1	1	0.00	1.19	0
1614202	1614201	1614202	2.83	0 3-	336.4 ACSR	2327	2150	1735	175	0	0	0	0.00	1.19	0
SW100924-A	1614202	1614202	2.83	0 3-	Closed	2327	2150	1735	175	0	0	0	0.00	1.19	0
SW100924-B	SW100924-A	1614202	2.83	0 3-	Closed	2327	2150	1735	175	0	0	0	0.00	1.19	0
1614229	1614218	1614229	2.68	19 3-	336.4 ACSR	2423	2244	1821	175	4250	207	39	0.01	1.20	24
SW100935-B	1614229	1614229	2.68	19 3-	Closed	2423	2244	1821	175	4250	207	0	0.00	1.20	0
SW100935-A	SW100935-B	1614229	2.68	19 3-	Closed	2423	2244	1821	175	4250	207	0	0.00	1.20	0
1614230	SW100935-A	1614230	2.80	19 3-	336.4 ACSR	2358	2180	1761	175	4250	207	39	0.21	1.41	504
1614243	1614230	1614230	2.81	1 3-	336.4 ACSR	2353	2175	1757	175	3626	177	33	0.01	1.42	29
OC100964	1614243	1614243	2.81	1 3-	REC_99_VWE	2353	2175	1757	175	3625	177	0	0.00	1.42	0
1614244	OC100964	1614244	2.83	1 3-	336.4 ACSR	2345	2168	1749	175	3625	177	33	0.02	1.45	46
1614245	1614244	1614245	2.87	0 3-	336.4 ACSR	2324	2147	1730	175	0	0	0	0.00	1.45	0
1614247	1614245	1614247	3.07	0 3-	336.4 ACSR	2228	2053	1644	174	0	0	0	0.00	1.45	0
1614248	1614247	1614248	3.07	0 3-	1/0 ACSR	2223	2049	1640	174	0	0	0	0.00	1.45	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1614285	1614248	3.08	0 3-	350 MCM URD PRI	2222	2048	1640	431	0	0	0	0.00	1.45	0
SW100927-B	1614285	3.08	0 3-	Closed	2222	2048	1640	431	0	0	0	0.00	1.45	0
SW100927-A	SW100927-B	3.08	0 3-	Closed	2222	2048	1640	431	0	0	0	0.00	1.45	0
1614286	SW100927-A	3.10	0 3-	350 MCM URD PRI	2218	2045	1637	431	0	0	0	0.00	1.45	0
1614246	1614245	2.88	0 3-	336.4 ACSR	2319	2143	1726	175	0	0	0	0.00	1.45	0
SW100930-A	1614246	2.88	0 3-	Closed	2319	2143	1726	175	0	0	0	0.00	1.45	0
SW100930-B	SW100930-A	2.88	0 3-	Closed	2319	2143	1726	175	0	0	0	0.00	1.45	0
1614996	1614244	2.83	1 3-	Consumer	2345	2168	1749	175	3625	177	0	0.00	1.45	0
1614235	1614230	2.83	15 3-	336.4 ACSR	2344	2166	1748	175	548	26	5	0.01	1.42	2
SW100921-B	1614235	2.83	15 3-	Closed	2344	2166	1748	175	548	26	0	0.00	1.42	0
SW100921-A	SW100921-B	2.83	15 3-	Closed	2344	2166	1748	175	548	26	0	0.00	1.42	0
1614236	SW100921-A	2.88	15 3-	336.4 ACSR	2320	2144	1727	175	548	26	5	0.01	1.43	3
1614238	1614236	2.89	12 3-	336.4 ACSR	2314	2138	1722	175	200	9	2	0.00	1.43	0
1614241	1614238	2.90	11 3-	1/0 ACSR	2306	2130	1715	174	200	9	4	0.00	1.43	0
OC100963	1614241	2.90	11 3-	REC_70_UNK	2306	2130	1715	174	200	9	14	0.00	1.43	0
1614242	OC100963	3.10	11 3-	1/0 ACSR	2165	1989	1599	173	200	9	4	0.02	1.45	2
1614239	1614238	2.99	1 3-	336.4 ACSR	2262	2087	1674	174	0	0	0	0.00	1.43	0
1614240	1614239	3.02	1 3-	4 ACSR	2237	2060	1654	174	0	0	0	0.00	1.43	0
1614237	1614236	2.89	1 3-	1/0 ACSR	2312	2135	1720	174	344	16	7	0.00	1.43	0
1614284	1614237	2.92	1 3-	350 MCM URD PRI	2305	2130	1715	434	344	16	5	0.00	1.43	0
1614997	1614284	2.92	1 3-	Consumer	2305	2130	1715	434	344	16	0	0.00	1.43	0
CA100041	1614196	2.40	0 3-	Capacitor	2632	2448	2014	176	0	-14	0	0.00	0.48	0
1614195	RG100009	2.33	1 3-	1/0 ACSR	2669	2481	2056	176	470	22	10	0.06	0.06	21
1614998	1614195	2.33	1 3-	Consumer	2669	2481	2056	176	470	22	0	0.00	0.06	0
CA100038	1614214	1.56	0 3-	Capacitor	3326	3140	2710	178	0	-14	0	0.00	2.32	0
CA100035	1614213	1.15	0 3-	Capacitor	3757	3582	3188	178	0	-14	0	0.00	1.69	0
CKT 144 total losses:		\$12,948												
SUB 14 total losses:		\$74,865												

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 15 NORTH MADISON			931		5406	5587	5643	180	9024					
SUB 15, CKT 104														
NMAD_104	NORTH MADISON	0.00	77 3-	SBS_99_UNK	5406	5587	5643	180	918	41	0	0.00	0.00	0
1616120	NMAD_104	0.48	77 3-	336.4 ACSR	4388	4294	4091	179	918	41	8	0.13	0.13	79
1616121	1616120	0.54	77 3-	1/0 ACSR	4239	4131	3896	179	918	41	18	0.04	0.17	32
1616122	1616121	1.03	76 3-	336.4 ACSR	3565	3400	3063	178	894	40	8	0.10	0.27	49
SW974667890-A	1616122	1.03	45 3-	Closed	3565	3400	3063	178	466	20	0	0.00	0.27	0
SW974667890-B	SW974667890-A	1.03	45 3-	Closed	3565	3400	3063	178	466	20	0	0.00	0.27	0
1616123	SW974667890-B	1.68	45 3-	336.4 ACSR	2932	2747	2377	176	466	20	4	0.07	0.34	21
1616081	1616123	1.76	29 1-	2 ACSR	0	0	2275	176	306	41	23	0.10	0.44	25
1616082	1616081	1.76	29 1-	4 ACSR	0	0	2267	176	306	41	29	0.01	0.45	3
OC120885	1616082	1.76	29 1-	REC_35_UNK	0	0	2267	176	306	41	118	0.00	0.45	0
1616093	OC120885	1.86	18 1-	4 ACSR	0	0	2127	175	237	32	23	0.12	0.57	22
1616094	1616093	2.23	13 1-	2 ACSR	0	0	1766	172	161	21	12	0.12	0.69	11
1616083	OC120885	2.48	11 1-	4 ACSR	0	0	1477	168	68	9	7	0.15	0.60	6
1616111	1616123	1.77	4 3-	336.4 ACSR	2857	2672	2301	176	6	0	0	0.00	0.34	0
OC120884	1616111	1.77	2 3-	REC_100_UNK	2857	2672	2301	176	6	0	0	0.00	0.34	0
1616112	OC120884	2.40	2 3-	336.4 ACSR	2448	2266	1904	175	6	0	0	0.00	0.34	0
CKT 104 total losses:		\$248												
SUB 15, CKT 114														
NMAD_114	NORTH MADISON	0.00	349 3-	SBS_99_UNK	5406	5587	5643	180	3680	167	0	0.00	0.00	0
1616119	NMAD_114	2.62	349 3-	336.4 ACSR	2344	2166	1806	175	3680	167	32	3.04	3.04	7141
1617046	1616119	3.54	349 3-	1/0 ACSR	1772	1640	1323	170	3618	167	73	2.68	5.72	8005
1616170	1617046	4.64	15 1-	4 ACSR	0	0	880	159	47	6	5	0.16	5.88	5
1617062	1617046	3.55	67 1-	4 ACSR	0	0	1320	170	598	84	60	0.02	5.74	11
OC120886	1617062	3.55	67 1-	REC_35_UNK	0	0	1320	170	598	84	241	0.00	5.74	0
1617063	OC120886	3.74	67 1-	4 ACSR	0	0	1221	168	598	84	60	0.73	6.46	391
1617060	1617063	3.90	1 1-	4 ACSR	0	0	1146	166	22	3	2	0.01	6.48	0
SW120920-B	1617060	3.90	0 1-	Open	0	0	1146	166	0	0	0	0.00	6.48	0
1617064	1617063	4.69	65 1-	4 ACSR	0	0	868	159	573	81	58	2.75	9.21	1227
1617065	1617064	6.25	36 1-	2 ACSR	0	0	624	149	322	46	26	1.13	10.34	218
1617047	1617046	3.74	265 3-	1/0 ACSR	1679	1556	1248	169	2905	137	60	0.48	6.20	1178
1617061	1617047	3.75	0 1-	4 ACSR	0	0	1245	169	0	0	0	0.00	6.20	0
SW120920-A	1617061	3.75	0 1-	Open	0	0	1245	169	0	0	0	0.00	6.20	0
1617048	1617047	4.36	265 3-	1/0 ACSR	1443	1343	1063	166	2894	137	60	1.41	7.61	3391
RG120009	1617048	4.36	248 3-	219	1443	1343	1063	166	2667	127	58	-7.61	0.00	0
1617042	RG120009	4.79	248 3-	1/0 ACSR	1311	1223	962	164	2667	119	52	0.86	0.86	1814
SW120793-A	1617042	4.79	227 3-	Closed	1311	1223	962	164	2451	110	0	0.00	0.86	0
SW120793-B	SW120793-A	4.79	227 3-	Closed	1311	1223	962	164	2451	110	0	0.00	0.86	0
1517009	SW120793-B	5.01	227 3-	1/0 ACSR	1255	1172	918	163	2451	110	48	0.40	1.26	805
1517014	1517009	5.18	11 1-	1/0 URD PRI AL	0	0	888	356	94	12	8	0.03	1.30	2
SW120921-A	1517014	5.18	0 1-	Open	0	0	888	356	0	0	0	0.00	1.30	0
1516149	1517009	5.80	214 3-	1/0 ACSR	1079	1011	786	159	2321	105	46	1.38	2.64	2545
1516100	1516149	6.05	197 3-	1/0 ACSR	1033	969	752	158	2081	95	41	0.40	3.04	686
1516105	1516100	6.22	73 3-	1/0 ACSR	1005	943	730	157	835	38	17	0.10	3.14	66
1517020	1516105	7.19	23 1-	1/0 URD PRI AL	0	0	629	306	220	30	18	0.46	3.60	61
SW120921-B	1517020	7.19	0 1-	Open	0	0	629	306	0	0	0	0.00	3.60	0
1517018	1516105	7.02	8 1-	1/0 URD PRI AL	0	0	646	310	96	13	8	0.17	3.31	10
SW120924-A	1517018	7.02	0 1-	Open	0	0	646	310	0	0	0	0.00	3.31	0
1517019	1516105	7.11	32 1-	1/0 URD PRI AL	0	0	637	308	382	52	31	0.73	3.88	169
SW120925-A	1517019	7.11	0 1-	Open	0	0	637	308	0	0	0	0.00	3.88	0

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Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1516101	1516100	6.18	118 3-	1/0 ACSR	1012	949	736	158	1159	53	23	0.11	3.15	105
1516141	1516101	6.18	16 1-	1/0 URD PRI AL	0	0	735	333	75	10	6	0.00	3.16	0
1516143	1516141	6.41	12 1-	1/0 URD PRI AL	0	0	709	326	64	8	5	0.03	3.19	1
SW120922-A	1516143	6.41	0 1-	Open	0	0	709	326	0	0	0	0.00	3.19	0
1516142	1516141	6.55	4 1-	1/0 URD PRI AL	0	0	694	322	11	1	1	0.01	3.16	0
SW120922-B	1516142	6.55	0 1-	Open	0	0	694	322	0	0	0	0.00	3.16	0
1516102	1516101	6.53	95 3-	1/0 ACSR	956	898	694	156	1018	46	20	0.26	3.42	215
1516103	1516102	6.58	83 3-	336.4 ACSR	952	894	690	156	884	40	8	0.01	3.43	7
1516104	1516103	8.70	53 3-	336.4 ACSR	800	747	564	152	636	29	6	0.23	3.66	74
1517010	1516104	8.77	10 3-	336.4 ACSR	796	743	561	151	88	4	1	0.00	3.66	0
1517011	1517010	8.97	5 3-	336.4 ACSR	784	732	551	151	30	1	0	0.00	3.67	0
1517013	1517010	8.80	3 1-	1/0 URD PRI AL	0	0	559	299	41	5	3	0.00	3.67	0
SW120925-B	1517013	8.80	0 1-	Open	0	0	559	299	0	0	0	0.00	3.67	0
1517012	1516104	8.77	1 1-	1/0 URD PRI AL	0	0	559	299	12	1	1	0.00	3.66	0
SW120924-B	1517012	8.77	0 1-	Open	0	0	559	299	0	0	0	0.00	3.66	0
1516128	1516103	6.58	28 1-	1/0 URD PRI AL	0	0	690	324	223	30	18	0.01	3.44	0
1516130	1516128	6.76	15 1-	1/0 URD PRI AL	0	0	672	320	115	15	9	0.04	3.48	3
SW120923-A	1516130	6.76	0 1-	Open	0	0	672	320	0	0	0	0.00	3.48	0
1516129	1516128	6.92	13 1-	1/0 URD PRI AL	0	0	656	315	108	14	9	0.08	3.51	5
SW120923-B	1516129	6.92	0 1-	Open	0	0	656	315	0	0	0	0.00	3.51	0
1516098	1516149	6.11	1 3-	4/0 ACSR	1037	971	751	158	16	0	0	0.00	2.64	0
1516099	1516098	6.19	0 3-	336.4 ACSR	1029	963	744	158	0	0	0	0.00	2.64	0
SW120799-B	1516099	6.19	0 3-	Open	1029	963	744	158	0	0	0	0.00	2.64	0
CKT 114 total losses:	\$28,135													
SUB 15, CKT 124														
NMAD_124	NORTH MADISON	0.00	176 3-	SBS_99_SBS	5406	5587	5643	180	2263	101	0	0.00	0.00	0
1616131	NMAD_124	0.03	176 3-	336.4 ACSR	5321	5452	5498	180	2263	101	19	0.02	0.02	34
1616132	1616131	0.46	176 3-	1/0 ACSR	4092	3982	3732	178	2263	101	44	0.74	0.77	1363
1616133	1616132	0.89	173 3-	4/0 ACSR	3380	3211	2855	176	2242	101	30	0.42	1.18	664
1616134	1616133	1.20	162 3-	1/0 ACSR	2929	2740	2395	175	2111	95	42	0.50	1.69	866
1616154	1616134	1.20	23 1-	1/0 ACSR	0	0	2387	175	277	37	16	0.00	1.69	0
OC120887	1616154	1.20	23 1-	REC_50_UNK	0	0	2387	175	277	37	76	0.00	1.69	0
1616155	OC120887	1.28	23 1-	1/0 ACSR	0	0	2289	174	277	37	16	0.07	1.76	14
1616156	1616155	1.33	23 1-	2 ACSR	0	0	2224	174	277	37	21	0.04	1.80	9
1617078	1616156	2.99	11 1-	4 ACSR	0	0	946	158	153	20	15	1.43	3.23	180
1617056	1617078	3.43	2 1-	4 ACSR	0	0	814	154	110	15	11	0.30	3.53	29
1617999	1617056	3.43	1 1-	Consumer	0	0	814	154	107	14	0	0.00	3.53	0
1617055	1617078	3.52	3 1-	4 ACSR	0	0	790	153	15	2	1	0.02	3.25	0
1616135	1616134	2.21	139 3-	1/0 ACSR	1995	1865	1543	170	1826	83	36	1.35	3.04	1945
1617051	1616135	2.48	93 3-	1/0 ACSR	1835	1718	1407	168	1214	55	24	0.25	3.29	249
1617076	1617051	2.87	9 1-	1/0 URD PRI AL	0	0	1255	383	104	14	8	0.09	3.37	5
SW120916-B	1617076	2.87	0 1-	Open	0	0	1255	383	0	0	0	0.00	3.37	0
1617052	1617051	2.53	78 3-	1/0 ACSR	1809	1695	1386	168	1042	47	21	0.04	3.32	34
1617053	1617052	2.58	78 3-	336.4 ACSR	1793	1679	1371	168	1042	47	9	0.02	3.34	12
1617045	1617053	2.69	1 3-	1/0 ACSR	1738	1629	1325	168	19	0	0	0.00	3.34	0
SW120796-B	1617045	2.69	0 3-	Open	1738	1629	1325	168	0	0	0	0.00	3.34	0
1617054	1617053	2.61	75 3-	336.4 ACSR	1785	1671	1363	168	985	45	9	0.01	3.35	5
1617040	1617054	2.65	43 1-	1/0 ACSR	0	0	1346	168	582	80	35	0.07	3.42	33
1617058	1617040	2.70	43 1-	1/0 URD PRI AL	0	0	1325	393	581	80	47	0.13	3.55	70
1617073	1617058	3.56	40 1-	1/0 URD PRI AL	0	0	1051	361	541	74	44	1.00	4.55	327
SW120919-A	1617073	3.56	0 1-	Open	0	0	1051	361	0	0	0	0.00	4.55	0

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1617059	1617058	2.77	3 1-	4/0 URD PRI AL	0	0	1300	391	40	5	2	0.01	3.56	0
1617069	1617059	2.78	3 1-	1/0 URD PRI AL	0	0	1298	390	40	5	3	0.00	3.56	0
SW120917-B	1617069	2.78	0 1-	Open	0	0	1298	390	0	0	0	0.00	3.56	0
1717117	1617054	3.47	32 3-	336.4 ACSR	1558	1452	1155	166	404	18	4	0.06	3.41	13
1617044	1717117	3.54	3 3-	336.4 ACSR	1541	1436	1140	166	63	2	1	0.00	3.41	0
1617057	1617044	3.61	1 1-	1/0 URD PRI AL	0	0	1121	380	22	3	2	0.00	3.42	0
SW120918-B	1617057	3.61	0 1-	Open	0	0	1121	380	0	0	0	0.00	3.42	0
1617075	1617044	3.55	2 1-	1/0 URD PRI AL	0	0	1139	383	40	5	3	0.00	3.41	0
1617068	1717117	3.50	2 1-	1/0 URD PRI AL	0	0	1146	383	32	4	3	0.00	3.42	0
SW120919-B	1617068	3.50	0 1-	Open	0	0	1146	383	0	0	0	0.00	3.42	0
1617049	1616135	2.27	27 3-	1/0 ACSR	1958	1831	1512	170	363	16	7	0.02	3.05	5
1617074	1617049	2.29	0 1-	1/0 URD PRI AL	0	0	1499	404	0	0	0	0.00	3.05	0
SW120916-A	1617074	2.29	0 1-	Open	0	0	1499	404	0	0	0	0.00	3.05	0
1617050	1617049	2.45	27 3-	1/0 ACSR	1852	1734	1422	169	363	16	7	0.05	3.10	14
1617066	1617050	2.61	22 1-	1/0 URD PRI AL	0	0	1352	393	324	44	26	0.20	3.30	55
1617067	1617066	2.70	0 1-	1/0 URD PRI AL	0	0	1318	389	0	0	0	0.00	3.30	0
SW120917-A	1617067	2.70	0 1-	Open	0	0	1318	389	0	0	0	0.00	3.30	0
1617070	1617066	2.90	18 1-	1/0 URD PRI AL	0	0	1245	382	249	34	20	0.25	3.55	50
1617071	1617070	2.91	12 1-	4/0 URD PRI AL	0	0	1240	381	160	22	10	0.01	3.56	0
1617039	1617071	3.09	10 1-	2 ACSR	0	0	1166	164	135	18	10	0.08	3.64	8
1617072	1617039	3.44	6 1-	1/0 URD PRI AL	0	0	1065	362	69	9	6	0.05	3.69	2
SW120918-A	1617072	3.44	0 1-	Open	0	0	1065	362	0	0	0	0.00	3.69	0

CKT 124 total losses: \$5,986

SUB 15, CKT 134

NMAD_134	NORTH MADISON	0.00	329 3-	SBS_99_SBS	5406	5587	5643	180	2163	97	0	0.00	0.00	0
1616113	NMAD_134	0.03	329 3-	336.4 ACSR	5335	5474	5521	180	2163	97	18	0.02	0.02	26
1616114	1616113	0.86	329 3-	1/0 ACSR	3291	3113	2808	176	2162	97	42	1.36	1.38	2343
1616115	1616114	1.11	317 3-	4 ACSR	2750	2610	2282	173	2031	92	66	0.90	2.28	1643
1616151	1616115	1.40	16 1-	4 ACSR	0	0	1837	170	102	13	10	0.19	2.47	17
OC120908	1616151	1.40	16 1-	25-H	0	0	1837	170	102	13	56	0.00	2.47	0
1616153	OC120908	2.81	15 1-	4 ACSR	0	0	924	156	102	13	10	0.44	2.91	26
1616152	OC120908	1.47	1 1-	4 ACSR	0	0	1762	169	0	0	0	0.00	2.47	0
1616116	1616115	1.19	300 3-	1/0 ACSR	2654	2519	2189	173	1899	87	38	0.12	2.40	189
1616117	1616116	2.20	300 3-	1/0 ACSR	1837	1744	1441	168	1898	87	38	1.50	3.90	2332
OC120911	1616117	2.20	290 3-	70-L	1837	1744	1441	168	1821	84	121	0.00	3.90	0
1616118	OC120911	2.32	290 3-	1/0 ACSR	1773	1684	1386	167	1821	84	37	0.17	4.07	259
1616127	1616118	1.39	164 3-	1/0 ACSR	1740	1653	1358	167	953	44	19	0.05	4.12	36
1616128	1616127	2.40	155 3-	4 ACSR	1729	1643	1349	167	875	40	29	0.02	4.14	13
1616129	1616128	3.73	97 3-	1/0 ACSR	1248	1188	949	161	579	26	12	0.49	4.62	206
1616087	1616129	3.75	24 1-	4 ACSR	0	0	942	160	133	18	13	0.02	4.64	2
1616088	1616087	3.76	24 1-	2 ACSR	0	0	941	160	133	18	10	0.00	4.64	0
OC120912	1616088	3.76	24 1-	REC_25_UNK	0	0	941	160	133	18	75	0.00	4.64	0
1616089	OC120912	4.00	24 1-	2 ACSR	0	0	883	159	133	18	10	0.14	4.78	16
1616090	1616089	4.16	22 1-	6 ACWC	0	0	839	157	131	18	13	0.09	4.88	9
1616091	1616090	4.49	8 1-	2 ACSR	0	0	777	155	55	7	4	0.06	4.94	2
1615062	1616091	4.61	5 1-	6 ACWC	0	0	750	154	28	3	3	0.01	4.95	0
1615063	1615062	5.05	4 1-	4 ACSR	0	0	668	150	11	1	1	0.02	4.97	0
1615064	1615063	5.11	1 1-	2 ACSR	0	0	660	150	0	0	0	0.00	4.97	0
1616130	1616129	3.98	38 3-	1/0 ACSR	1187	1130	900	159	209	9	4	0.04	4.66	6
1616095	1616130	4.18	6 1-	4 ACSR	0	0	843	158	49	6	5	0.04	4.70	1
1616086	1616095	4.29	1 1-	2 ACSR	0	0	822	157	17	2	1	0.00	4.71	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

	LINE SECT	PRIOR SECT	MILES CONS	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB	21 BRIDGEPORT			3553		3642	3808	3826	357	18315					
SUB	21, CKT 114														
	BPRT_114+	BRIDGEPORT	0.00	1142 3-	SBS_99_UNK	3642	3808	3826	357	6148	137	0	0.00	0.00	0
	1110022+	BPRT_114	0.03	1142 3-	336.4 ACSR	3625	3779	3796	357	6148	137	26	0.01	0.01	55
	1109025+	1110022	1.37	1142 3-	3/0 ACSR	2805	2732	2563	347	6147	137	46	1.02	1.03	4846
	1109017+	1109025	1.38	0 1-	4 ACSR	0	0	2558	346	0	0	0.00	1.03	0	0
	SW401086-A+	1109017	1.38	0 1-	Open	0	0	2558	346	0	0	0.00	1.03	0	0
	1109013+	1109025	4.39	1111 3-	3/0 ACSR	1821	1696	1449	324	5953	133	45	2.16	3.19	9980
	1209058+	1109013	4.41	904 3-	3/0 ACSR	1817	1692	1446	324	4958	113	38	0.01	3.20	42
	1209059+	1209058	4.41	899 3-	1/0 ACSR	1816	1692	1445	324	4939	112	49	0.00	3.20	11
	1209048+	1209059	4.41	899 3-	3/0 ACSR	1815	1691	1444	324	4939	112	38	0.00	3.20	11
	OC400857+	1209048	4.41	899 3-	REC_70_UNK	1815	1691	1444	324	4939	112	161	0.00	3.20	0
	1209050+	OC400857	5.27	899 3-	3/0 ACSR	1648	1524	1284	318	4939	112	38	0.51	3.72	2028
	1209056+	1209050	5.28	871 3-	1/0 ACSR	1647	1523	1283	318	4643	106	46	0.00	3.72	20
	RG400021+	1209056	5.28	871 3-	219	1647	1523	1283	318	4643	106	49	-3.72	0.00	0
	1209057+	RG400021	5.37	871 3-	3/0 ACSR	1630	1506	1267	317	4643	103	34	0.05	0.05	198
	1209051+	1209057	5.79	828 3-	3/0 ACSR	1559	1437	1202	314	4420	98	33	0.22	0.28	786
	1210114+	1209051	7.14	521 3-	3/0 ACSR	1369	1260	1033	304	2724	60	20	0.42	0.69	867
	1210075+	1210114	7.17	50 3-	3/0 ACSR	1366	1257	1030	304	178	3	1	0.00	0.69	0
	OC400871+	1210075	7.17	50 3-	REC_99_UNK	1366	1257	1030	304	178	3	0	0.00	0.69	0
	1210076+	OC400871	8.28	50 3-	3/0 ACSR	1241	1142	922	297	178	3	1	0.02	0.71	2
	1210059+	1210076	9.65	18 1-	4 ACSR	0	0	759	275	64	4	3	0.07	0.78	2
	SW400209-A+	1210059	9.65	0 1-	Open	0	0	759	275	0	0	0.00	0.78	0	0
	1310114+	1210076	9.49	10 3-	3/0 ACSR	1128	1038	828	289	40	0	0.00	0.72	0	0
	SW401081-A+	1310114	9.49	0 3-	Open	1128	1038	828	289	0	0	0.00	0.72	0	0
	1210073+	1210114	7.25	390 3-	1/0 ACSR	1353	1245	1019	303	2186	48	21	0.04	0.74	80
	OC400868+	1210073	7.25	366 3-	REC_70_UNK	1353	1245	1019	303	2092	46	67	0.00	0.74	0
	1210071+	OC400868	8.85	366 3-	1/0 ACSR	1156	1067	853	289	2092	46	20	0.51	1.25	816
	1210072+	1210071	8.92	237 3-	4 ACSR	1144	1058	844	288	1423	31	23	0.04	1.29	53
	1210078+	1210072	9.41	155 3-	4 ACSR	1068	996	794	281	976	21	16	0.14	1.44	101
	1210057+	1210078	9.64	59 1-	2 ACSR	0	0	774	278	377	25	14	0.05	1.49	11
	1210058+	1210057	9.83	8 1-	4 ACSR	0	0	754	275	46	3	2	0.01	1.49	0
	1210074+	1210072	9.47	70 3-	4 ACSR	1059	988	783	279	362	8	6	0.04	1.34	9
	SW400758-A+	1210074	9.47	0 3-	Open	1059	988	783	279	0	0	0.00	1.34	0	0
	1209052+	1209051	5.91	298 3-	1/0 ACSR	1538	1415	1183	313	1607	35	16	0.03	0.31	46
	OC400862+	1209052	5.91	297 3-	REC_70_UNK	1538	1415	1183	313	1602	35	51	0.00	0.31	0
	1209053+	OC400862	6.77	297 3-	1/0 ACSR	1394	1286	1055	305	1602	35	16	0.24	0.55	307
	1209063+	1209053	7.02	79 1-	4 ACSR	0	0	1011	300	404	27	19	0.15	0.69	51
	OC400863+	1209063	7.02	75 1-	REC_35_UNK	0	0	1011	300	383	25	73	0.00	0.69	0
	1209064+	OC400863	9.20	75 1-	4 ACSR	0	0	729	266	383	25	18	0.76	1.45	190
	1209065+	1209064	9.50	14 1-	6 ACWC	0	0	701	262	90	6	4	0.03	1.48	2
	1209066+	1209065	9.82	5 1-	4 ACSR	0	0	672	258	38	2	2	0.01	1.49	0
	1209054+	1209053	8.09	187 3-	1/0 ACSR	1217	1126	905	293	1000	22	10	0.23	0.78	192
	1209043+	1209054	8.17	51 1-	2 ACSR	0	0	896	292	278	18	10	0.02	0.80	5
	1209044+	1209043	8.45	50 1-	4 ACSR	0	0	859	287	271	18	13	0.10	0.90	23
	OC400864+	1209044	8.45	40 1-	35-2E	0	0	859	287	211	14	40	0.00	0.90	0
	1209045+	OC400864	10.07	40 1-	4 ACSR	0	0	690	263	211	14	10	0.44	1.34	75
	1209046+	1209045	10.29	32 1-	6 ACWC	0	0	671	260	158	10	8	0.04	1.39	6
	1209047+	1209046	11.57	22 1-	4 ACSR	0	0	579	244	112	7	5	0.11	1.49	7
	1209055+	1209054	8.57	121 3-	1/0 ACSR	1163	1077	860	288	652	14	6	0.06	0.84	30
	1209067+	1209055	8.58	116 1-	4 ACSR	0	0	859	288	613	41	29	0.01	0.84	3
	1209072+	1209067	9.88	25 1-	4 ACSR	0	0	719	269	86	5	4	0.11	0.95	7

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1309069+	1209072	10.38	8 1-	6 ACWC	0	0	676	262	31	2	1	0.01	0.97	0
1209068+	1209067	8.97	91 1-	4 ACSR	0	0	812	282	526	35	25	0.30	1.14	134
OC400865+	1209068	8.97	85 1-	REC_35_UNK	0	0	812	282	491	32	94	0.00	1.14	0
1209069+	OC400865	11.31	4 85 1-	4 ACSR	0	0	605	250	491	32	24	0.97	2.11	303
1209070+	1209069	11.42	9 1-	6 ACWC	0	0	598	249	72	4	3	0.01	2.12	0
1209071+	1209070	12.19	9 1-	4 ACSR	0	0	551	240	72	4	3	0.04	2.16	2
1209060+	1209057	5.44	43 1-	4 ACSR	0	0	1249	315	222	14	11	0.02	0.08	5
OC400859+	1209060	5.44	43 1-	REC_35_UNK	0	0	1249	315	222	14	42	0.00	0.08	0
1209061+	OC400859	5.81	43 1-	4 ACSR	0	0	1163	309	222	14	11	0.11	0.19	21
1209074+	1209061	5.91	39 1-	1/0 URD PRI AL_	0	0	1150	616	199	13	8	0.02	0.21	3
1209076+	1209074	5.96	36 1-	1/0 URD PRI AL_	0	0	1142	614	186	12	7	0.01	0.22	2
1210116+	1209076	6.06	34 1-	4 ACSR	0	0	1121	305	186	12	9	0.03	0.25	4
SW400759-B+	1210116	6.06	34 1-	Closed	0	0	1121	305	186	12	0	0.00	0.25	0
SW400759-A+	SW400759-B	6.06	34 1-	Closed	0	0	1121	305	186	12	0	0.00	0.25	0
1210109+	SW400759-A	6.20	33 1-	1/0 URD PRI AL_	0	0	1102	599	179	11	7	0.03	0.27	4
SW400760-B+	1210109	6.20	32 1-	Closed	0	0	1102	599	179	11	0	0.00	0.27	0
SW400760-A+	SW400760-B	6.20	32 1-	Closed	0	0	1102	599	179	11	0	0.00	0.27	0
1210097+	SW400760-A	6.25	7 1-	4 ACSR	0	0	1093	302	55	3	3	0.00	0.27	0
1210110+	SW400760-A	6.95	25 1-	1/0 URD PRI AL_	0	0	1013	566	124	8	5	0.05	0.32	3
SW401080-B+	1210110	6.95	0 1-	Open	0	0	1013	566	0	0	0	0.00	0.32	0
1210096+	SW400759-A	6.09	1 1-	4 ACSR	0	0	1115	304	7	0	0	0.00	0.25	0
1209075+	1209074	5.91	0 1-	1/0 URD PRI AL_	0	0	1149	616	0	0	0	0.00	0.21	0
SW401080-A+	1209075	5.91	0 1-	Open	0	0	1149	616	0	0	0	0.00	0.21	0
1209039+	1109013	4.43	113 1-	4 ACSR	0	0	1435	323	515	35	25	0.03	3.22	15
OC400858+	1209039	4.43	112 1-	REC_35_UNK	0	0	1435	323	496	33	97	0.00	3.22	0
1209041+	OC400858	5.11	106 1-	4 ACSR	0	0	1238	310	469	32	23	0.30	3.52	94
1209042+	1209041	5.52	29 1-	2 ACSR	0	0	1159	305	115	7	4	0.02	3.54	2
1209040+	OC400858	4.44	6 1-	4 ACSR	0	0	1433	323	27	1	1	0.00	3.22	0
CKT 114 total losses:		\$21,454												
SUB 21, CTG 124														
BPRT_124+	BRIDGEPORT	0.00	1005 3-	SBS_99_UNK	3642	3808	3826	357	5247	116	0	0.00	0.00	0
1110024+	BPRT_124	0.61	1005 3-	336.4 ACSR	3312	3314	3290	354	5247	116	22	0.22	0.22	808
1110018+	1110024	2.04	958 3-	336.4 ACSR	2723	2627	2464	348	4988	111	21	0.47	0.69	1670
SW400874-B+	1110018	2.04	924 3-	Closed	2723	2627	2464	348	4790	107	0	0.00	0.69	0
SW400874-A+	SW400874-B	2.04	924 3-	Closed	2723	2627	2464	348	4790	107	0	0.00	0.69	0
1110019+	SW400874-A	2.49	924 3-	336.4 ACSR	2580	2472	2284	346	4790	107	20	0.14	0.83	490
1110027+	1110019	2.66	224 3-	1/0 ACSR	2505	2392	2192	345	1164	26	11	0.04	0.86	36
OC400965+	1110027	2.66	223 3-	REC_70_UNK	2505	2392	2192	345	1159	25	37	0.00	0.86	0
1109026+	OC400965	3.90	223 3-	1/0 ACSR	2050	1917	1681	331	1159	25	11	0.26	1.12	248
1109018+	1109026	4.19	91 1-	6 ACWC	0	0	1561	325	515	34	25	0.22	1.34	101
OC400976+	1109018	4.19	86 1-	REC_35_UNK	0	0	1561	325	506	34	97	0.00	1.34	0
1109019+	OC400976	5.17	86 1-	6 ACWC	0	0	1247	307	506	34	24	0.63	1.98	260
1109020+	1109019	5.28	66 1-	2 ACSR	0	0	1224	306	373	25	14	0.04	2.02	13
1109021+	1109020	7.44	62 1-	6 ACWC	0	0	827	272	353	23	17	0.65	2.67	148
1109015+	1109021	7.55	1 1-	6 ACWC	0	0	814	270	9	0	0	0.00	2.67	0
1109016+	1109015	7.59	0 1-	4 ACSR	0	0	809	270	0	0	0	0.00	2.67	0
SW401086-B+	1109016	7.59	0 1-	Open	0	0	809	270	0	0	0	0.00	2.67	0
1109014+	1109021	7.64	7 1-	4 ACSR	0	0	802	269	49	3	2	0.01	2.68	0
1109012+	1109026	4.06	115 3-	1/0 ACSR	2000	1865	1629	330	590	13	6	0.02	1.14	9
1109022+	1109012	6.04	115 1-	6 ACWC	0	0	1056	294	590	39	28	1.25	2.39	534
1009013+	1109022	6.09	1 1-	4 ACSR	0	0	1047	293	9	0	0	0.00	2.39	0

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1009011+	1109022	6.06	56 1-	6 ACWC	0	0	1053	293	261	17	13	0.01	2.39	1
OC400977+	1009011	6.06	56 1-	REC_99_UNK	0	0	1053	293	261	17	0	0.00	2.39	0
1009014+	OC400977	6.13	56 1-	6 ACWC	0	0	1040	292	261	17	13	0.03	2.42	6
1009015+	1009014	6.35	52 1-	4 ACSR	0	0	997	289	248	16	12	0.08	2.49	16
1009016+	1009015	8.47	43 1-	6 ACWC	0	0	716	259	204	13	10	0.33	2.82	40
1009012+	1009016	8.52	1 1-	2 ACSR	0	0	712	258	6	0	0	0.00	2.82	0
1110025+	1110019	2.69	683 3-	336.4 ACSR	2520	2409	2212	346	3550	79	15	0.05	0.87	122
SW400877-B+	1110025	2.69	682 3-	Closed	2520	2409	2212	346	3540	79	0	0.00	0.87	0
SW400877-A+	SW400877-B	2.69	682 3-	Closed	2520	2409	2212	346	3540	79	0	0.00	0.87	0
1010101+	SW400877-A	4.69	682 3-	336.4 ACSR	2042	1915	1676	337	3540	79	15	0.45	1.32	1122
1010053+	1010101	4.91	47 1-	4 ACSR	0	0	1590	332	196	13	9	0.07	1.39	11
OC400958+	1010053	4.91	45 1-	REC_50_UNK	0	0	1590	332	191	12	26	0.00	1.39	0
1010057+	OC400958	4.92	1 1-	4 ACSR	0	0	1587	332	7	0	0	0.00	1.39	0
1010054+	OC400958	5.57	44 1-	4 ACSR	0	0	1370	319	184	12	9	0.15	1.54	23
1010055+	1010054	5.87	33 1-	6 ACWC	0	0	1285	313	131	8	6	0.05	1.59	5
1010056+	1010055	6.86	27 1-	4 ACSR	0	0	1053	296	96	6	5	0.07	1.66	4
SW401085-B+	1010056	6.86	0 1-	Open	0	0	1053	296	0	0	0	0.00	1.66	0
1010065+	1010101	5.16	481 3-	336.4 ACSR	1955	1826	1586	335	2448	55	10	0.08	1.40	136
OC400962+	1010065	5.16	474 3-	REC_100_UNK	1955	1826	1586	335	2389	53	54	0.00	1.40	0
1010066+	OC400962	6.02	474 3-	336.4 ACSR	1811	1684	1442	331	2389	53	10	0.14	1.54	236
1010088+	1010066	7.44	22 1-	4 ACSR	0	0	1092	303	121	8	6	0.13	1.66	9
1010071+	1010066	7.75	439 3-	336.4 ACSR	1580	1456	1221	323	2185	49	9	0.24	1.78	378
1010077+	1010071	7.91	240 3-	336.4 ACSR	1560	1438	1203	322	1293	29	5	0.01	1.79	14
1010080+	1010077	7.93	197 3-	1/0 ACSR	1557	1435	1201	322	1048	23	10	0.00	1.80	3
OC400968+	1010080	7.93	197 3-	REC_50_UNK	1557	1435	1201	322	1048	23	47	0.00	1.80	0
0910023+	OC400968	11.73	197 3-	1/0 ACSR	1073	994	784	286	1048	23	10	0.65	2.44	533
0910002+	0910023	12.70	139 3-	1/0 ACSR	992	920	720	278	792	17	8	0.14	2.58	91
0910004+	0910002	12.75	15 3-	1/0 ACSR	988	916	716	278	79	1	1	0.00	2.58	0
0910010+	0910004	12.78	15 1-	4 ACSR	0	0	713	277	79	5	4	0.00	2.59	0
AU400001	0910010	12.78	14 1-	99 KVA 1PH AUTO	0	0	234	138	70	4	70	0.56	3.15	0
0910011	AU400001	13.59	14 1-	4 ACSR	0	0	224	132	70	9	7	0.18	3.33	8
0910017	0910011	13.66	1 1-	2 ACSR	0	0	223	132	4	0	0	0.00	3.33	0
OC400969+	0910010	12.78	0 1-	REC_99_UNK	0	0	713	277	0	0	0	0.00	2.59	0
0910003+	0910002	13.95	114 3-	1/0 ACSR	902	838	649	268	666	15	7	0.13	2.71	65
0910013+	0910003	13.98	27 2-	1/0 ACSR	0	836	648	268	144	4	2	0.00	2.71	0
0910006+	0910013	14.07	17 1-	6 ACWC	0	0	641	266	110	7	5	0.01	2.73	1
OC400975+	0910006	14.07	16 1-	REC_25_UNK	0	0	641	266	101	6	27	0.00	2.73	0
0910007+	OC400975	15.60	16 1-	6 ACWC	0	0	549	247	101	6	5	0.11	2.84	7
0910014+	0910013	15.23	10 2-	1/0 ACSR	0	764	590	258	34	1	1	0.01	2.72	0
OC400974+	0910014	15.23	0 2-	25-2E	0	764	590	258	0	0	0	0.00	2.72	0
0909004+	OC400974	15.23	0 2-	1/0 ACSR	0	764	590	258	0	0	0	0.00	2.72	0
0910015+	0910003	14.01	47 1-	6 ACWC	0	0	645	267	293	19	14	0.02	2.73	6
OC400972+	0910015	14.01	46 1-	REC_25_UNK	0	0	645	267	283	19	77	0.00	2.73	0
0909007+	OC400972	14.94	46 1-	6 ACWC	0	0	586	255	283	19	14	0.30	3.04	66
0909005+	0909007	15.48	22 1-	4 ACSR	0	0	555	248	157	10	8	0.07	3.11	7
0909003+	0909005	15.56	2 1-	2 ACSR	0	0	551	247	17	1	1	0.00	3.11	0
0910005+	0910023	11.81	0 1-	4 ACSR	0	0	777	285	0	0	0	0.00	2.44	0
1010078+	1010077	7.97	40 3-	336.4 ACSR	1554	1431	1197	322	221	4	1	0.00	1.79	0
1010079+	1010078	9.15	38 3-	4 ACSR	1290	1212	982	300	208	4	3	0.05	1.85	7
1010092+	1010079	9.19	2 1-	4 ACSR	0	0	976	299	3	0	0	0.00	1.85	0
SW400880-B+	1010079	9.15	0 3-	Open	1290	1212	982	300	0	0	0	0.00	1.85	0
1010072+	1010071	7.85	161 3-	3/0 ACSR	1564	1441	1206	322	707	15	5	0.01	1.79	5

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1010073+	1010072	7.85	160 3-	336.4 ACSR	1563	1440	1206	322	701	15	3	0.00	1.79	0
OC400970+	1010073	7.85	160 3-	REC_99_UNK	1563	1440	1206	322	701	15	0	0.00	1.79	0
1010074+	OC400970	8.19	160 3-	336.4 ACSR	1525	1404	1166	320	701	15	3	0.02	1.80	8
1010075+	1010074	8.54	154 3-	3/0 ACSR	1475	1355	1121	318	682	15	5	0.03	1.83	14
1010076+	1010075	8.60	130 3-	336.4 ACSR	1468	1349	1115	317	573	12	2	0.00	1.83	0
1010093+	1010076	8.61	93 1-	4 ACSR	0	0	1114	317	399	26	19	0.00	1.84	1
OC400971+	1010093	8.61	93 1-	35-H	0	0	1114	317	399	26	77	0.00	1.84	0
1010094+	OC400971	9.68	93 1-	4 ACSR	0	0	939	298	399	26	19	0.60	2.44	206
1010095+	1010094	9.72	82 1-	6 ACWC	0	0	934	297	355	24	17	0.02	2.46	6
1010096+	1010095	10.39	81 1-	2 ACSR	0	0	862	289	355	24	13	0.23	2.69	71
0910025+	1010096	11.45	73 1-	6 ACWC	0	0	745	273	334	22	16	0.47	3.17	132
0909002+	0910025	12.65	19 1-	4 ACSR	0	0	642	257	65	4	3	0.06	3.22	2
1009022+	0910025	13.58	42 1-	4 ACSR	0	0	578	245	202	13	10	0.32	3.49	39
1010085+	1010076	8.71	37 1-	4 ACSR	0	0	1096	315	175	11	9	0.03	1.86	4
AU400002	1010085	8.71	37 1-	99 KVA 1PH AUTO	0	0	245	143	175	11	174	1.68	3.54	0
1009021	AU400002	9.54	35 1-	4 ACSR	0	0	235	136	164	22	16	0.60	4.15	73
1009009	1009021	11.10	16 1-	4 ACSR	0	0	215	126	76	10	7	0.39	4.54	19
1009010	1009009	11.17	1 1-	2 ACSR	0	0	214	125	7	0	1	0.00	4.54	0
SW401088-B	1009021	9.54	0 1-	Open	0	0	235	136	0	0	0	0.00	4.15	0
1010086	AU400002	8.77	2 1-	4 ACSR	0	0	245	142	11	1	1	0.00	3.55	0
1010082+	1010101	4.83	94 1-	6 ACWC	0	0	1623	334	531	35	26	0.11	1.43	51
OC400959+	1010082	4.83	91 1-	REC_99_UNK	0	0	1623	334	519	35	0	0.00	1.43	0
1010084+	OC400959	4.83	2 1-	4 ACSR	0	0	1620	334	14	0	1	0.00	1.43	0
1009020+	OC400959	8.06	89 1-	6 ACWC	0	0	860	277	506	34	24	1.20	2.63	358
SW401088-A+	1009020	8.06	0 1-	Open	0	0	860	277	0	0	0	0.00	2.63	0
1110029+	1110024	1.00	46 1-	2 ACSR	0	0	2886	349	246	16	9	0.09	0.30	18
1110030+	1110029	1.00	41 1-	6 ACWC	0	0	2879	348	213	14	10	0.00	0.30	0
OC400957+	1110030	1.00	41 1-	REC_50_UNK	0	0	2879	348	213	14	28	0.00	0.30	0
1110031+	OC400957	2.40	41 1-	6 ACWC	0	0	1751	320	213	14	10	0.27	0.57	38
1110032+	1110031	3.56	16 1-	4 ACSR	0	0	1274	299	54	3	3	0.05	0.62	1
CKT 124 total losses:	\$8,280													
SUB 21, CKT 134														
BPRT 134+	BRIDGEPORT	0.00	443 3-	SBS_99_UNK	3642	3808	3826	357	2211	49	0	0.00	0.00	0
1110020+	BPRT 134	0.06	443 3-	336.4 ACSR	3606	3748	3764	357	2211	49	9	0.01	0.01	15
1110021+	1110020	4.59	443 3-	3/0 ACSR	1781	1656	1410	323	2211	49	16	1.17	1.18	2001
1010067+	1110021	4.86	410 3-	3/0 ACSR	1725	1601	1357	321	2015	45	15	0.07	1.25	108
OC401012+	1010067	4.86	396 3-	100-E	1725	1601	1357	321	1956	43	44	0.00	1.25	0
1010068+	OC401012	6.39	396 3-	3/0 ACSR	1470	1353	1121	310	1956	43	15	0.34	1.59	519
1010059+	1010068	6.43	118 3-	1/0 ACSR	1464	1348	1117	309	737	16	7	0.00	1.60	3
1010060+	1010059	6.48	118 3-	3/0 ACSR	1458	1341	1110	309	737	16	6	0.00	1.60	3
1010061+	1010060	6.58	118 3-	1/0 ACSR	1440	1326	1095	308	737	16	7	0.01	1.61	9
OC401015+	1010061	6.58	117 3-	REC_70_UNK	1440	1326	1095	308	726	16	23	0.00	1.61	0
1010069+	OC401015	8.08	117 3-	1/0 ACSR	1232	1137	916	294	726	16	7	0.19	1.80	112
1011023+	1010069	8.14	99 3-	2/0 ACSR	1225	1131	910	294	640	14	5	0.01	1.81	3
1010100+	1011023	8.25	98 3-	1/0 ACSR	1212	1120	900	293	635	14	6	0.01	1.82	7
1011024+	1010100	8.54	98 1-	336.4 ACSR	0	0	882	292	635	42	8	0.06	1.88	27
1011014+	1011024	8.58	98 1-	3/0 ACSR	0	0	879	291	635	42	14	0.01	1.89	6
OC401022+	1011014	8.58	98 1-	35-2E	0	0	879	291	635	42	123	0.00	1.89	0
1011015+	OC401022	8.60	98 1-	3/0 ACSR	0	0	877	291	635	42	14	0.01	1.90	4
1011019+	1011015	9.78	33 1-	4 ACSR	0	0	744	273	274	18	13	0.24	2.14	39
1010102+	1011015	9.89	64 1-	4 ACSR	0	0	734	271	352	23	17	0.60	2.49	172

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1011018+	1010102	9.94	2 1-	4 ACSR	0	0	729	271	12	0	1	0.00	2.49	0
SW401082-A+	1011018	9.94	0 1-	Open	0	0	729	271	0	0	0	0.00	2.49	0
1011017+	1010102	11.57	48 1-	4 ACSR	0	0	600	249	259	17	13	0.32	2.82	50
1010062+	1010068	8.39	230 3-	3/0 ACSR	1231	1132	914	296	973	21	7	0.23	1.82	176
1010064+	1010062	8.51	208 3-	2 ACSR	1214	1118	900	295	904	20	11	0.03	1.85	24
1010058+	1010064	9.66	137 3-	2 ACSR	1071	995	786	281	572	12	7	0.17	2.02	83
1010089+	1010058	9.66	16 1-	4 ACSR	0	0	785	281	97	6	5	0.00	2.02	0
OC401017+	1010089	9.66	16 1-	REC_50_UNK	0	0	785	281	97	6	13	0.00	2.02	0
1010090+	OC401017	11.33	16 1-	4 ACSR	0	0	638	257	97	6	5	0.14	2.16	9
1011013+	1010090	11.74	2 1-	4 ACSR	0	0	610	252	12	0	1	0.01	2.17	0
1011020+	1011013	11.74	1 1-	1/0 URD PRI AL_	0	0	609	416	12	0	0	0.00	2.17	0
1011012+	1010090	11.58	1 1-	4 ACSR	0	0	621	254	3	0	0	0.00	2.16	0
SW401082-B+	1011012	11.58	0 1-	Open	0	0	621	254	0	0	0	0.00	2.16	0
1010081+	1010058	9.95	104 1-	1/0 ACSR	0	0	766	279	392	26	12	0.08	2.10	25
OC401018+	1010081	9.95	102 1-	REC_50_UNK	0	0	766	279	382	25	52	0.00	2.10	0
0910024+	OC401018	15.36	102 1-	1/0 ACSR	0	0	517	242	382	25	11	0.90	3.00	215
0910012+	0910024	15.36	28 1-	1/0 ACSR	0	0	517	241	94	6	3	0.00	3.00	0
OC401019+	0910012	15.36	28 1-	25-2E	0	0	517	241	94	6	26	0.00	3.00	0
0810004+	OC401019	17.60	28 1-	1/0 ACSR	0	0	455	228	94	6	3	0.10	3.10	6
0810001+	0810004	18.09	3 1-	4 ACSR	0	0	438	224	29	1	1	0.01	3.11	0
0810002+	0810001	18.47	1 1-	2 ACSR	0	0	428	221	10	0	0	0.00	3.11	0
0910008+	0910024	15.95	3 1-	4 ACSR	0	0	490	235	2	0	0	0.00	3.00	0
1010052+	1010064	9.32	71 1-	2 ACSR	0	0	819	285	332	22	12	0.25	2.11	70
OC401016+	1010052	9.32	62 1-	REC_35_UNK	0	0	819	285	284	19	55	0.00	2.11	0
0910022+	OC401016	12.68	62 1-	2 ACSR	0	0	592	252	284	19	11	0.54	2.65	95
0910001+	0910022	14.62	12 1-	6 ACWC	0	0	490	230	36	2	2	0.05	2.70	0
1010063+	1010062	8.45	0 3-	3/0 ACSR	1224	1126	909	296	0	0	0	0.00	1.82	0
SW400880-A+	1010063	8.45	0 3-	Open	1224	1126	909	296	0	0	0	0.00	1.82	0
1010051+	1110021	4.59	0 1-	4 ACSR	0	0	1409	323	0	0	0	0.00	1.18	0
SW401085-A+	1010051	4.59	0 1-	Open	0	0	1409	323	0	0	0	0.00	1.18	0
CKT 134 total losses:		\$3,781												
SUB 21, CKT 144														
BPR1_144+	BRIDGEPORT	0.00	963 3-	SBS_99_UNK	3642	3808	3826	357	4709	104	0	0.00	0.00	0
1110017+	BPR1_144	2.81	963 3-	336.4 ACSR	2486	2369	2124	344	4709	104	20	0.74	0.74	2839
SW401025-B+	1110017	2.81	913 3-	Closed	2486	2369	2124	344	4480	99	0	0.00	0.74	0
SW401025-A+	SW401025-B	2.81	913 3-	Closed	2486	2369	2124	344	4480	99	0	0.00	0.74	0
1210079+	SW401025-A	3.10	913 3-	336.4 ACSR	2403	2283	2026	343	4480	99	19	0.07	0.82	272
1210080+	1210079	3.50	867 3-	336.4 ACSR	2302	2177	1911	341	4213	94	18	0.11	0.92	334
1210081+	1210080	3.96	778 3-	336.4 ACSR	2194	2066	1791	339	3761	84	16	0.10	1.02	249
1210085+	1210081	4.07	255 3-	336.4 ACSR	2169	2040	1763	338	1116	24	5	0.01	1.03	7
1210086+	1210085	4.24	196 3-	336.4 ACSR	2133	2003	1724	337	986	22	4	0.01	1.04	8
OC401076+	1210086	4.24	195 3-	70-E	2133	2003	1724	337	976	21	31	0.00	1.04	0
1210087+	OC401076	4.33	195 3-	336.4 ACSR	2114	1984	1705	337	976	21	4	0.00	1.05	3
1210091+	1210087	5.01	109 3-	4 ACSR	1844	1720	1454	323	505	11	8	0.08	1.12	23
1210105+	1210091	5.06	3 1-	2 ACSR	0	0	1442	322	12	0	0	0.00	1.12	0
1210088+	1210085	4.13	57 3-	336.4 ACSR	2157	2028	1751	338	127	2	1	0.00	1.03	0
OC401079+	1210088	4.13	57 3-	REC_50_UNK	2157	2028	1751	338	127	2	6	0.00	1.03	0
1210089+	OC401079	4.29	57 3-	336.4 ACSR	2121	1992	1712	337	127	2	1	0.00	1.03	0
1210090+	1210089	4.46	4 3-	2 ACSR	2066	1933	1657	335	12	0	0	0.00	1.03	0
1210082+	1210081	4.12	257 3-	4 ACSR	2125	1989	1726	335	1619	36	26	0.10	1.12	136
1210084+	1210082	4.30	85 3-	4 ACSR	2045	1902	1649	331	538	12	9	0.03	1.15	12

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS	WIRE	MX 3P	MX LLG	MX LG	MN LG	TOTAL	EQUIV	%	LINE	TOTAL	LINE
		CONS		CONSTR-N	FAULT	FAULT	FAULT	FAULT	KW	AMPS	CAP	DROP	DROP	LOSS
1210056+	1210084	4.31	35 1-	4 ACSR	0	0	1647	331	210	14	10	0.00	1.15	0
1210083+	1210082	4.20	114 3-	4 ACSR	2088	1950	1693	334	699	15	11	0.02	1.15	15
1210107+	1210083	4.21	28 1-	4 ACSR	0	0	1691	334	209	14	10	0.00	1.15	0
OC401072+	1210107	4.21	28 1-	REC_50_UNK	0	0	1691	334	209	14	28	0.00	1.15	0
1210108+	OC401072	4.49	28 1-	4 ACSR	0	0	1589	328	209	14	10	0.04	1.19	5
1210098+	1210083	4.21	78 1-	4 ACSR	0	0	1691	333	437	29	21	0.00	1.15	1
OC401073+	1210098	4.21	78 1-	REC_50_UNK	0	0	1691	333	437	29	59	0.00	1.15	0
1210099+	OC401073	4.37	78 1-	4 ACSR	0	0	1624	330	437	29	21	0.10	1.25	36
1210104+	1210099	4.45	10 1-	4 ACSR	0	0	1593	328	39	2	2	0.00	1.25	0
1210100+	1210099	4.46	58 1-	4 ACSR	0	0	1592	328	341	22	16	0.04	1.29	12
1210101+	1210100	5.43	55 1-	6 ACWC	0	0	1272	310	327	21	16	0.24	1.53	47
1210102+	1210101	5.81	3 1-	4 ACSR	0	0	1175	303	8	0	0	0.00	1.53	0
1210103+	1210102	6.51	1 1-	6 ACWC	0	0	1025	291	0	0	0	0.00	1.53	0
1210060+	1210080	3.52	70 1-	4 ACSR	0	0	1899	340	370	24	18	0.01	0.94	4
OC401071+	1210060	3.52	70 1-	35-L	0	0	1899	340	370	24	71	0.00	0.94	0
1210061+	OC401071	4.35	70 1-	4 ACSR	0	0	1537	323	370	24	18	0.34	1.28	93
1210062+	1210061	4.57	35 1-	2 ACSR	0	0	1470	320	187	12	7	0.03	1.31	4
1210063+	1210062	5.70	22 1-	4 ACSR	0	0	1142	300	103	6	5	0.09	1.40	5
CA400021+	1210079	3.10	0 3-	Capacitor	2403	2283	2026	343	0	-7	0	0.00	0.82	0
CKT 144 total losses:	\$4,105													
SUB 21 total losses:	\$37,620													

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 22 NINEVAH			1463		5895	6095	6116	180	8060					
SUB 22, CKT 104														
NINV_104	NINEVAH	0.00	349 3-	SBS_99_UNK	5895	6095	6116	180	2066	93 0	0.00	0.00	0.00	0
1311044	NINV_104	1.07	349 3-	336.4 ACSR	3747	3549	3171	178	2066	93 18	0.67	0.67	887	
1311049	1311044	1.09	55 2-	1/0 ACSR	0	3498	3120	178	251	17 7	0.01	0.68	2	
SW400002-B	1311049	1.09	55 2-	Closed	0	3498	3120	178	251	17 0	0.00	0.68	0	
SW400002-A	SW400002-B	1.09	55 2-	Closed	0	3498	3120	178	251	17 0	0.00	0.68	0	
1311050	SW400002-A	1.72	55 2-	1/0 ACSR	0	2537	2191	174	251	17 7	0.19	0.87	34	
1311033	1311050	1.72	38 1-	4 ACSR	0	0	2183	174	143	19 14	0.01	0.87	0	
OC400059	1311033	1.72	38 1-	REC_50_UNK	0	0	2183	174	143	19 39	0.00	0.87	0	
1311034	OC400059	3.70	38 1-	4 ACSR	0	0	845	155	143	19 14	0.87	1.75	72	
1311117	1311034	5.21	0 1-	6 ACWC	0	0	566	143	0	0 0	0.00	1.75	0	
1312001	1311117	7.21	0 1-	2 ACSR	0	0	424	133	0	0 0	0.00	1.75	0	
1311058	1311050	1.72	13 1-	4 ACSR	0	0	2183	174	52	7 5	0.00	0.87	0	
OC400060	1311058	1.72	13 1-	REC_50_UNK	0	0	2183	174	52	7 14	0.00	0.87	0	
1311059	OC400060	2.43	13 1-	4 ACSR	0	0	1426	167	52	7 5	0.11	0.98	3	
1311045	1311044	1.82	289 3-	336.4 ACSR	2965	2758	2354	176	1756	79 15	0.40	1.07	446	
1311040	1311045	2.52	261 3-	336.4 ACSR	2481	2284	1898	175	1524	69 13	0.32	1.38	311	
1311062	1311040	3.02	206 3-	336.4 ACSR	2224	2036	1659	174	1164	53 10	0.17	1.55	124	
1311046	1311062	3.16	175 3-	4 ACSR	2092	1931	1554	172	1040	47 34	0.26	1.81	241	
1311041	1311046	3.25	6 3-	4 ACSR	2000	1856	1484	171	58	2 2	0.01	1.81	0	
1311032	1311041	3.28	1 1-	4 ACSR	0	0	1465	171	0	0 0	0.00	1.81	0	
1311047	1311046	3.26	169 3-	4 ACSR	1996	1853	1481	171	980	44 32	0.18	1.99	161	
OC400056	1311047	3.26	169 3-	REC_70_UNK	1996	1853	1481	171	979	44 64	0.00	1.99	0	
1311048	OC400056	6.73	169 3-	4 ACSR	648	643	509	140	979	44 32	5.29	7.28	4276	
1411151	1311048	6.86	19 1-	4 ACSR	0	0	497	139	105	15 11	0.08	7.35	7	
OC400050	1411151	6.86	17 1-	35-H	0	0	497	139	91	13 37	0.00	7.35	0	
1411152	OC400050	7.52	17 1-	4 ACSR	0	0	439	135	91	13 9	0.20	7.55	11	
1411120	1311048	6.81	104 3-	4 ACSR	637	634	501	140	571	27 20	0.08	7.36	42	
SW400006-B	1411120	6.81	102 3-	Closed	637	634	501	140	532	25 0	0.00	7.36	0	
SW400006-A	SW400006-B	6.81	102 3-	Closed	637	634	501	140	532	25 0	0.00	7.36	0	
1411116	SW400006-A	6.92	102 3-	4 ACSR	623	620	490	139	532	25 18	0.11	7.47	58	
1411126	1411116	6.97	37 1-	4 ACSR	0	0	486	139	226	32 23	0.07	7.54	13	
OC400051	1411126	6.97	36 1-	50-H	0	0	486	139	222	31 64	0.00	7.54	0	
1411127	OC400051	7.45	36 1-	4 ACSR	0	0	446	135	222	31 23	0.69	8.23	140	
1411137	1411127	7.52	29 1-	4 ACSR	0	0	440	135	185	26 19	0.09	8.31	14	
1411138	1411137	7.64	28 1-	6 ACWC	0	0	431	134	170	24 18	0.13	8.44	20	
1411133	1411138	7.64	27 1-	2 ACSR	0	0	431	134	169	24 14	0.00	8.45	0	
OC400052	1411133	7.64	27 1-	REC_25_UNK	0	0	431	134	169	24 98	0.00	8.45	0	
1411135	OC400052	7.77	25 1-	2 ACSR	0	0	424	133	142	20 11	0.07	8.51	8	
1411139	1411135	8.72	22 1-	6 ACWC	0	0	367	127	103	14 11	0.38	8.90	27	
1311051	1411139	9.02	2 1-	2 ACSR	0	0	355	126	21	2 2	0.01	8.91	0	
1411134	OC400052	7.71	2 1-	2 ACSR	0	0	427	134	27	3 2	0.00	8.45	0	
1411128	1411127	8.81	6 1-	4 ACSR	0	0	359	126	36	5 4	0.16	8.39	4	
1411117	1411116	7.64	65 3-	4 ACSR	544	543	431	134	306	14 10	0.33	7.80	83	
SW400009-B	1411117	7.64	46 3-	Closed	544	543	431	134	182	8 0	0.00	7.80	0	
SW400009-A	SW400009-B	7.64	46 3-	Closed	544	543	431	134	182	8 0	0.00	7.80	0	
1411118	SW400009-A	7.74	46 3-	4 ACSR	535	534	424	133	182	8 6	0.03	7.83	6	
1411129	1411118	7.74	46 1-	4 ACSR	0	0	423	133	182	26 19	0.01	7.84	0	
OC400053	1411129	7.74	46 1-	REC_35_UNK	0	0	423	133	182	26 75	0.00	7.84	0	
1411130	OC400053	8.15	46 1-	4 ACSR	0	0	397	131	182	26 19	0.45	8.29	73	
1411136	1411130	9.25	42 1-	4 ACSR	0	0	338	124	144	20 15	0.52	8.81	46	

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW40001-A	1411136	9.25	0 1-	Open	0	0	338	124	0	0	0.00	8.81	0	
1411131	1411130	8.15	2 1-	4 ACSR	0	0	396	130	17	2	0.00	8.30	0	
SW400010-B	1411131	8.15	2 1-	Closed	0	0	396	130	17	2	0.00	8.30	0	
SW400010-A	SW400010-B	8.15	2 1-	Closed	0	0	396	130	17	2	0.00	8.30	0	
1411132	SW400010-A	8.16	2 1-	4 ACSR	0	0	396	130	17	2	0.00	8.30	0	
1411119	1411118	8.17	0 3-	4 ACSR	497	498	395	130	0	0	0.00	7.83	0	
SW400003-A	1411119	8.17	0 3-	Open	497	498	395	130	0	0	0.00	7.83	0	
1310090	1311040	2.54	35 1-	2 ACSR	0	0	1882	175	263	35	20	0.02	1.40	4
1310091	1310090	2.55	34 1-	4 ACSR	0	0	1876	175	260	35	25	0.01	1.41	2
OC400057	1310091	2.55	34 1-	REC_50_UNK	0	0	1876	175	260	35	71	0.00	1.41	0
1310094	OC400057	2.59	11 1-	4 ACSR	0	0	1836	174	77	10	8	0.01	1.42	0
1310092	OC400057	2.67	23 1-	4 ACSR	0	0	1757	173	183	24	18	0.10	1.51	13
1310093	1310092	2.82	9 1-	2 ACSR	0	0	1649	172	77	10	6	0.02	1.54	0
1311054	1311045	1.83	16 1-	4 ACSR	0	0	2345	176	136	18	13	0.00	1.07	0
OC400058	1311054	1.83	16 1-	50-L	0	0	2345	176	136	18	37	0.00	1.07	0
1311055	OC400058	1.90	16 1-	4 ACSR	0	0	2242	175	136	18	13	0.06	1.13	7
1311056	1311055	2.04	16 1-	2 ACSR	0	0	2072	174	136	18	10	0.07	1.20	7
1311057	1311056	2.49	9 1-	4 ACSR	0	0	1586	170	86	11	8	0.18	1.38	11
1311052	1311057	2.57	4 1-	2 ACSR	0	0	1532	169	42	5	3	0.01	1.39	0
1311053	1311052	2.87	4 1-	4 ACSR	0	0	1316	166	42	5	4	0.06	1.45	2
1311060	1311053	2.90	1 1-	1/0 URD PRI AL	0	0	1305	384	21	2	2	0.00	1.45	0
CKT 104 total losses:		\$7,155												

SUB 22, CKT 114														
NINV_114	NINEVAH	0.00	67 3-	SBS_99_UNK	5895	6095	6116	180	708	31	0	0.00	0.00	0
1310115	NINV_114	3.31	67 3-	336.4 ACSR	2094	1911	1499	173	708	31	6	0.62	0.62	264
SW400063-B	1310115	3.31	31 3-	Closed	2094	1911	1499	173	532	24	0	0.00	0.62	0
SW400063-A	SW400063-B	3.31	31 3-	Closed	2094	1911	1499	173	532	24	0	0.00	0.62	0
1310070	SW400063-A	4.80	31 3-	336.4 ACSR	1617	1465	1116	170	532	24	5	0.22	0.85	75
1310062	1310070	4.85	9 3-	336.4 ACSR	1606	1455	1107	169	192	8	2	0.00	0.85	0
1310063	1310062	4.85	9 3-	1/0 ACSR	1604	1453	1106	169	192	8	4	0.00	0.85	0
OC400099	1310063	4.85	9 3-	50-L	1604	1453	1106	169	192	8	17	0.00	0.85	0
1310064	OC400099	5.30	9 3-	1/0 ACSR	1449	1320	998	167	192	8	4	0.03	0.88	3
1310071	1310070	4.85	13 3-	336.4 ACSR	1606	1455	1107	169	271	12	2	0.00	0.85	0
1310061	1310071	5.64	11 3-	1/0 ACSR	1347	1232	928	166	270	12	5	0.08	0.93	12
CKT 114 total losses:		\$354												

SUB 22, CKT 134														
NINV_134	NINEVAH	0.00	1003 3-	SBS_99_UNK	5895	6095	6116	180	5104	232	0	0.00	0.00	0
XFMR24+	NINV_134	0.00	1003 3-	5000kVA AUTO	1297	1316	1318	346	5104	232	101	1.42	1.42	0
1311035+	XFMR24	1.20	1003 3-	336.4 ACSR	1214	1204	1182	339	5104	116	22	0.46	1.87	1514
1311037+	1311035	1.65	545 3-	336.4 ACSR	1185	1171	1138	337	3001	68	13	0.10	1.98	203
1211048+	1311037	2.27	351 3-	336.4 ACSR	1147	1129	1082	334	1765	40	8	0.08	2.06	92
OC400196+	1211048	2.27	336 3-	REC_99_UNK	1147	1129	1082	334	1628	37	0	0.00	2.06	0
1210115+	OC400196	5.46	336 3-	336.4 ACSR	985	949	861	316	1628	37	7	0.27	2.33	229
1210093+	1210115	5.50	108 3-	4 ACSR	982	945	857	316	573	13	9	0.01	2.34	5
OC400204+	1210093	5.50	108 3-	REC_99_UNK	982	945	857	316	573	13	0	0.00	2.34	0
1210094+	OC400204	6.52	108 3-	4 ACSR	903	855	767	297	573	13	9	0.26	2.59	133
1210070+	1210094	6.97	37 1-	4 ACSR	0	0	729	289	270	18	13	0.10	2.69	15
1210095+	1210094	7.21	67 3-	4 ACSR	849	798	711	285	277	6	5	0.06	2.66	13
1210106+	1210095	7.70	36 1-	4 ACSR	0	0	674	278	115	7	6	0.04	2.70	3
1210092+	1210115	5.49	0 3-	4 ACSR	982	946	858	316	0	0	0	0.00	2.33	0

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Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LIG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW400758-B+	1210092	5.49	0 3-	Open	982	946	858	316	0	0	0.00	0.00	2.33	0
1311038+	1311037	1.84	179 3-	2 ACSR	1168	1152	1112	334	1171	26	15	0.07	2.04	67
OC400191+	1311038	1.84	178 3-	REC_99_UNK	1168	1152	1112	334	1160	26	0	0.00	2.04	0
1211047+	OC400191	3.05	178 3-	2 ACSR	1063	1029	961	316	1160	26	15	0.39	2.43	378
SW400104-B+	1211047	3.05	154 3-	Closed	1063	1029	961	316	1007	23	0	0.00	2.43	0
SW400104-A+	SW400104-B	3.05	154 3-	Closed	1063	1029	961	316	1007	23	0	0.00	2.43	0
1211035+	SW400104-A	3.59	154 3-	2 ACSR	1018	978	903	309	1007	23	13	0.16	2.59	139
1211036+	1211035	3.96	152 3-	1/0 ACSR	991	949	872	305	984	22	10	0.07	2.66	60
1211037+	1211036	4.40	137 3-	1/0 ACSR	961	917	836	301	910	20	9	0.08	2.74	57
1211043+	1211037	4.61	33 1-	6 ACWC	0	0	815	297	218	15	11	0.07	2.81	13
1211042+	1211043	4.71	31 1-	4 ACSR	0	0	805	295	201	13	10	0.02	2.83	3
1211041+	1211042	5.15	12 1-	6 ACWC	0	0	764	288	103	7	5	0.04	2.87	2
1211038+	1211037	5.50	99 3-	1/0 ACSR	892	843	756	291	663	15	7	0.12	2.86	60
OC400193+	1211038	5.50	64 3-	REC_99_UNK	892	843	756	291	450	10	0	0.00	2.86	0
1211040+	OC400193	5.61	64 3-	1/0 ACSR	885	836	749	290	450	10	5	0.01	2.87	3
1211029+	1211040	6.08	50 1-	6 ACWC	0	0	711	282	355	24	18	0.23	3.10	67
1211030+	1211029	6.82	34 1-	4 ACSR	0	0	655	271	278	19	14	0.29	3.40	66
1211031+	1211030	6.89	28 1-	6 ACWC	0	0	650	270	218	15	11	0.02	3.42	4
1211032+	1211031	6.93	28 1-	4 ACSR	0	0	647	269	218	15	11	0.01	3.43	2
1211033+	1211032	7.09	22 1-	6 ACWC	0	0	637	267	180	12	9	0.03	3.46	4
1211034+	1211033	7.71	10 1-	4 ACSR	0	0	597	259	88	6	4	0.04	3.51	2
1211044+	1211036	4.11	15 1-	1/0 URD PRI AL	0	0	862	567	74	5	3	0.01	2.68	0
1211026+	1211044	4.39	15 1-	6 ACWC	0	0	833	298	74	5	4	0.03	2.70	2
1211027+	1211026	4.39	13 1-	4 ACSR	0	0	833	298	57	3	3	0.00	2.70	0
OC400192+	1211027	4.39	13 1-	REC_99_UNK	0	0	833	298	57	3	0	0.00	2.70	0
1211023+	OC400192	4.61	13 1-	4 ACSR	0	0	811	295	57	3	3	0.02	2.72	0
1211024+	1211023	5.02	12 1-	6 ACWC	0	0	771	288	56	3	3	0.03	2.75	1
1211028+	1211024	5.32	2 1-	4 ACSR	0	0	744	283	10	0	0	0.00	2.75	0
1211025+	1211024	5.23	7 1-	6 ACWC	0	0	752	284	22	1	1	0.00	2.76	0
1311036+	1311035	1.55	411 3-	4/0 ACSR	1186	1174	1143	337	1844	42	12	0.07	1.95	91
1310065+	1311036	2.46	390 3-	3/0 ACSR	1116	1095	1045	329	1718	39	13	0.21	2.15	262
OC400199+	1310065	2.46	380 3-	REC_50_UNK	1116	1095	1045	329	1599	36	73	0.00	2.15	0
1310066+	OC400199	2.89	380 3-	3/0 ACSR	1085	1061	1005	326	1599	36	12	0.09	2.25	112
1310107+	1310066	2.93	3 1-	2 ACSR	0	0	1001	326	43	2	2	0.00	2.25	0
SW400208-A+	1310107	2.93	0 1-	Open	0	0	1001	326	0	0	0	0.00	2.25	0
1310067+	1310066	3.57	374 3-	3/0 ACSR	1040	1011	946	321	1544	35	12	0.13	2.38	150
1310102+	1310067	3.89	122 1-	4 ACSR	0	0	910	314	646	44	32	0.31	2.69	167
1310103+	1310102	4.38	100 1-	2 ACSR	0	0	865	308	565	39	22	0.25	2.94	106
1310105+	1310103	4.57	38 1-	2 ACSR	0	0	849	305	273	18	10	0.04	2.98	9
1310106+	1310105	4.80	19 1-	1/0 ACSR	0	0	831	303	157	10	5	0.01	3.00	0
1310104+	1310103	4.57	18 1-	2 ACSR	0	0	849	305	114	7	4	0.01	2.95	0
SW400208-B+	1310104	4.57	0 1-	Open	0	0	849	305	0	0	0	0.00	2.95	0
1310068+	1310067	4.02	218 3-	3/0 ACSR	1011	980	911	317	715	16	5	0.03	2.41	16
1310060+	1310068	4.65	67 1-	4 ACSR	0	0	845	305	406	27	20	0.38	2.79	128
OC400200+	1310060	4.65	61 1-	REC_50_UNK	0	0	845	305	354	24	49	0.00	2.79	0
1210064+	OC400200	4.69	61 1-	4 ACSR	0	0	841	305	354	24	17	0.02	2.81	8
1210069+	1210064	4.85	7 1-	4 ACSR	0	0	826	302	44	3	2	0.01	2.82	0
SW400209-B+	1210069	4.85	0 1-	Open	0	0	826	302	0	0	0	0.00	2.82	0
1210065+	1210064	5.31	54 1-	4 ACSR	0	0	782	294	309	21	15	0.23	3.04	52
1210067+	1210065	6.48	15 1-	6 ACWC	0	0	684	285	117	8	6	0.11	3.15	8
1210068+	1210067	6.50	1 1-	2 ACSR	0	0	683	275	6	0	0	0.00	3.15	0
1210066+	1210065	5.77	3 1-	4 ACSR	0	0	741	286	48	3	2	0.02	3.06	0

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 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
OC400201+	1210066	5.77	0 1-	REC_99_UNK	0	0	741	286	0	0	0	0.00	3.06	0
CKT 134 total losses:	\$4,246													
SUB 22, CKT 144														
NINV_144	NINEVAH	0.00	44 1-	SBS_99_UNK	0	0	6116	180	183	24	0	0.00	0.00	0
1311031	NINV_144	1.96	44 1-	4 ACSR	0	0	1135	160	183	24	18	1.10	1.10	115
CKT 144 total losses:	\$115													
SUB 22 total losses:	\$11,870													

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS	
SUB 23 SINAI			2214		5564		5843		5898		180		12227		
SUB 23, CKT 104															
SINI_104	SINAI	0.00	213 3-	SBS_99_UNK	5564	5843	5898	180	1083	48 0	0.00	0.00	0.00	0	
1409052	SINI_104	4.82	213 3-	336.4 ACSR	1588	1439	1106	170	1083	48 9	1.18	1.18	1.18	725	
1409071	1409052	4.82	83 3-	4 ACSR	1585	1437	1104	169	472	21 15	0.00	1.19	1.19	2	
OC400537	1409071	4.82	83 3-	REC_50_UNK	1585	1437	1104	169	472	21 43	0.00	1.19	1.19	0	
1409072	OC400537	6.79	83 3-	4 ACSR	864	832	632	151	472	21 15	1.36	2.55	2.55	514	
1409074	1409072	8.96	60 3-	4 ACSR	545	537	415	134	304	13 10	0.67	3.22	3.22	133	
1509077	1409074	9.04	3 2-	4 ACSR	0	530	410	134	41	2 2	0.01	3.23	3.23	0	
1509089	1509077	9.04	2 1-	4 ACSR	0	0	410	133	30	4 3	0.00	3.23	3.23	0	
1409073	1409072	6.88	0 3-	1/0 ACSR	853	821	623	150	0	0 0	0.00	2.55	2.55	0	
SW400741-B	1409073	6.88	0 3-	Open	853	821	623	150	0	0 0	0.00	2.55	2.55	0	
1409066	1409052	4.95	15 3-	336.4 ACSR	1557	1412	1082	169	109	4 1	0.00	1.19	1.19	0	
OC400557	1409066	4.95	14 3-	REC_99_UNK	1557	1412	1082	169	108	4 0	0.00	1.19	1.19	0	
1409067	OC400557	6.60	14 3-	336.4 ACSR	1252	1134	848	166	108	4 1	0.03	1.21	1.21	1	
CKT 104 total losses:		\$1,375													
SUB 23, CKT 114															
SINI_114	SINAI	0.00	808 3-	SBS_99_UNK	5564	5843	5898	180	4375	195 0	0.00	0.00	0.00	0	
1409053	SINI_114	0.93	808 3-	336.4 ACSR	3789	3626	3323	178	4375	195 37	1.11	1.11	1.11	3376	
1409054	1409053	1.63	700 3-	336.4 ACSR	3033	2842	2479	177	3828	172 32	0.72	1.83	1.83	1981	
1409064	1409054	2.03	515 3-	1/0 ACSR	2582	2388	2027	175	3110	140 61	0.91	2.75	2.75	2425	
1509103	1409064	2.32	422 3-	1/0 ACSR	2317	2144	1782	173	2521	114 50	0.53	3.27	3.27	1157	
1509070	1509103	3.49	409 3-	1/0 ACSR	1626	1512	1193	167	2439	113 49	2.26	5.54	5.54	4544	
1509071	1509070	4.16	348 3-	1/0 ACSR	1382	1289	1001	164	2038	96 42	1.09	6.63	6.63	1854	
RG400015	1509071	4.16	333 3-	219	1382	1289	1001	164	1948	92 42	-6.63	0.00	0.00	0	
1509068	RG400015	4.72	333 3-	1/0 ACSR	1224	1144	879	161	1948	87 38	0.85	0.85	0.85	1336	
1509081	1509068	4.73	18 1-	4 ACSR	0	0	878	161	110	14 11	0.00	0.86	0.86	0	
OC400619	1509081	4.73	18 1-	REC_35_UNK	0	0	878	161	110	14 43	0.00	0.86	0.86	0	
1509082	OC400619	4.73	18 1-	4 ACSR	0	0	877	161	110	14 11	0.00	0.86	0.86	0	
1509083	1509082	5.95	18 1-	6 ACWC	0	0	634	150	110	14 11	0.50	1.36	1.36	36	
1509096	1509083	6.34	5 1-	4 ACSR	0	0	580	147	28	3 3	0.03	1.40	1.40	0	
1509069	1509068	5.09	313 3-	1/0 ACSR	1140	1067	816	159	1790	81 35	0.50	1.35	1.35	716	
OC400622	1509069	5.09	307 3-	REC_70_UNK	1140	1067	816	159	1714	77 111	0.00	1.35	1.35	0	
1509072	OC400622	5.45	307 3-	1/0 ACSR	1068	1000	762	158	1714	77 34	0.46	1.81	1.81	630	
1509073	1509072	6.22	202 3-	1/0 ACSR	939	881	666	154	1184	54 23	0.71	2.52	2.52	678	
1509084	1509073	6.24	64 1-	4 ACSR	0	0	663	154	291	40 29	0.03	2.54	2.54	7	
1509097	1509084	6.24	64 1-	6 ACWC	0	0	662	154	291	40 29	0.01	2.55	2.55	3	
OC400624	1509097	6.24	64 1-	REC_35_UNK	0	0	662	154	291	40 114	0.00	2.55	2.55	0	
1508068	OC400624	7.98	64 1-	6 ACWC	0	0	467	140	291	40 29	2.23	4.78	4.78	464	
1508060	1508068	9.10	21 1-	6 ACWC	0	0	390	132	98	13 10	0.36	5.14	5.14	21	
1508061	1508060	9.19	1 1-	4 ACSR	0	0	384	131	4	0 0	0.00	5.14	5.14	0	
1508058	1508068	8.08	4 1-	6 ACWC	0	0	458	139	28	3 3	0.01	4.80	4.80	0	
1508059	1508058	9.55	3 1-	4 ACSR	0	0	364	129	15	2 2	0.07	4.87	4.87	0	
1509074	1509073	7.86	129 3-	1/0 ACSR	747	703	530	147	834	38 17	1.00	3.52	3.52	653	
OC450325	1509074	7.86	108 3-	REC_35_UNK	747	703	530	147	701	32 93	0.00	3.52	3.52	0	
1508038	OC450325	7.93	108 3-	1/0 ACSR	741	698	526	147	701	32 14	0.03	3.55	3.55	20	
1608024	1508038	8.22	59 1-	8 ACWC	0	0	490	143	400	55 56	1.06	4.61	4.61	378	
1608014	1608024	8.31	11 1-	6 ACWC	0	0	482	143	63	8 6	0.03	4.64	4.64	2	
1608023	1608014	9.12	10 1-	8 ACWC	0	0	404	134	59	8 8	0.22	4.86	4.86	8	
1608018	1608024	9.34	44 1-	8 ACWC	0	0	385	132	308	43 43	2.99	7.60	7.60	818	
1608011	1608018	9.62	36 1-	6 ACWC	0	0	369	130	266	38 27	0.42	8.02	8.02	96	

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1608012	1608011	10.15	28 1-	4 ACSR	0	0	344	127	206	29	21	0.55	8.57	89
1608013	1608012	10.35	13 1-	6 ACWC	0	0	335	125	117	16	12	0.15	8.72	16
1608015	1608013	10.60	10 1-	4 ACSR	0	0	324	124	106	15	11	0.13	8.85	11
1609058	1608015	12.31	5 1-	4 ACSR	0	0	266	114	51	7	5	0.28	9.13	9
1608016	1608015	10.65	1 1-	4 ACSR	0	0	322	124	5	0	1	0.00	8.85	0
1608022	1508038	8.25	48 1-	8 ACWC	0	0	487	143	296	41	41	0.81	4.36	207
OC400626	1608022	8.25	43 1-	25-H	0	0	487	143	246	34	137	0.00	4.36	0
1609057	OC400626	9.32	43 1-	8 ACWC	0	0	386	132	246	34	34	1.84	6.20	350
1609042	1609057	9.61	19 1-	4 ACSR	0	0	370	130	127	17	13	0.15	6.35	13
1609043	1609042	10.52	3 1-	8 ACWC	0	0	315	122	33	4	5	0.14	6.49	3
1509087	1509072	5.53	85 1-	4 ACSR	0	0	745	157	388	53	38	0.20	2.01	65
OC400623	1509087	5.53	82 1-	REC_99_UNK	0	0	745	157	369	50	0	0.00	2.01	0
1509085	OC400623	6.50	82 1-	4 ACSR	0	0	589	148	369	50	36	2.08	4.08	642
1509094	1509085	7.48	20 1-	4 ACSR	0	0	484	141	100	13	10	0.45	4.53	33
1509095	1509094	8.48	10 1-	6 ACWC	0	0	409	134	45	6	5	0.14	4.67	4
1509086	1509085	7.85	49 1-	4 ACSR	0	0	453	138	216	30	21	1.40	5.49	228
1509090	1509086	8.30	17 1-	4 ACSR	0	0	420	135	85	11	9	0.18	5.67	12
1509091	1509090	8.37	7 1-	6 ACWC	0	0	415	134	42	5	4	0.02	5.69	0
1509092	1509091	8.51	7 1-	4 ACSR	0	0	406	133	42	5	4	0.03	5.71	0
1509093	1509092	8.63	5 1-	2 ACSR	0	0	400	133	21	3	2	0.01	5.72	0
1509088	1509086	9.74	10 1-	6 ACWC	0	0	341	126	28	3	3	0.17	5.65	3
1509060	1509070	3.49	53 1-	4 ACSR	0	0	1191	167	318	44	32	0.01	5.55	3
OC400618	1509060	3.49	53 1-	REC_35_UNK	0	0	1191	167	318	44	128	0.00	5.55	0
1509061	OC400618	4.12	53 1-	4 ACSR	0	0	943	161	318	44	32	1.20	6.75	331
1509062	1509061	5.41	49 1-	2 ACSR	0	0	699	153	279	39	22	1.35	8.10	297
1509065	1509062	5.86	11 1-	4 ACSR	0	0	624	149	77	11	8	0.23	8.33	16
1509066	1509065	7.03	10 1-	2 ACSR	0	0	514	142	77	11	6	0.20	8.53	9
SW400747-B	1509066	7.03	0 1-	Open	0	0	514	142	0	0	0	0.00	8.53	0
1509063	1509062	5.96	21 1-	6 ACWC	0	0	611	148	115	16	12	0.29	8.40	25
1509064	1509063	6.75	11 1-	4 ACSR	0	0	516	142	50	7	5	0.13	8.52	4
SW400746-B	1509064	6.75	0 1-	Open	0	0	516	142	0	0	0	0.00	8.52	0
CA400006	1509103	2.32	0 3-	Capacitor	2317	2144	1782	173	0	-14	0	0.00	3.27	0
1409043	1409064	2.04	92 1-	6 ACWC	0	0	2020	174	564	77	56	0.02	2.77	10
OC400616	1409043	2.04	92 1-	REC_50_UNK	0	0	2020	174	564	77	56	0.00	2.77	0
1409042	OC400616	2.67	92 1-	6 ACWC	0	0	1424	168	564	77	56	2.13	4.90	1033
SW400558-B	1409042	2.67	90 1-	Closed	0	0	1424	168	519	72	0	0.00	4.90	0
SW400558-A	SW400558-B	2.67	90 1-	Closed	0	0	1424	168	519	72	0	0.00	4.90	0
1509050	SW400558-A	3.50	90 1-	6 ACWC	0	0	995	160	519	72	52	2.47	7.36	1078
1509051	1509050	4.03	74 1-	4 ACSR	0	0	828	155	418	59	43	1.32	8.68	478
1509053	1509051	4.29	68 1-	4 ACSR	0	0	765	153	348	50	36	0.57	9.26	182
1509059	1509053	4.29	0 1-	4 ACSR	0	0	764	153	0	0	0	0.00	9.26	0
SW400746-A	1509059	4.29	0 1-	Open	0	0	764	153	0	0	0	0.00	9.26	0
1509054	1509053	4.35	67 1-	4 ACSR	0	0	751	152	335	48	35	0.14	9.39	41
OC400617	1509054	4.35	64 1-	REC_99_UNK	0	0	751	152	304	44	0	0.00	9.39	0
1509055	OC400617	5.20	64 1-	4 ACSR	0	0	601	145	304	44	32	1.31	10.70	314
1509057	1509055	5.69	35 1-	4 ACSR	0	0	539	141	163	23	17	0.41	11.11	53
1509058	1509057	6.86	19 1-	6 ACWC	0	0	433	133	88	13	9	0.34	11.45	19
1509056	1509055	5.21	0 1-	2 ACSR	0	0	601	145	0	0	0	0.00	10.70	0
SW400747-A	1509056	5.21	0 1-	Open	0	0	601	145	0	0	0	0.00	10.70	0
1509052	1509051	4.48	0 1-	4 ACSR	0	0	724	151	0	0	0	0.00	8.68	0
1409061	1409054	1.85	167 3-	1/0 ACSR	2771	2575	2211	175	578	26	11	0.10	1.93	46
OC400615	1409061	1.85	164 3-	REC_70_UNK	2771	2575	2211	175	563	25	37	0.00	1.93	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1409062	OC400615	3.50	164 3-	1/0 ACSR	1620	1507	1189	167	563	25	11	0.63	2.57	270
1409063	1409062	3.51	0 3-	1/0 ACSR	1618	1505	1187	167	0	0	0	0.00	2.57	0
SW400741-A	1409063	3.51	0 3-	Open	1618	1505	1187	167	0	0	0	0.00	2.57	0
1409080	1409062	5.09	146 2-	1/0 ACSR	0	1051	815	159	419	28	13	0.54	3.10	132
1409079	1409080	5.82	37 1-	4 ACSR	0	0	671	153	74	10	7	0.17	3.27	7
1409077	1409053	0.93	89 1-	4 ACSR	0	0	3306	178	427	58	42	0.02	1.13	6
OC400611	1409077	0.93	89 1-	REC_70_UNK	0	0	3306	178	427	58	83	0.00	1.13	0
1409078	OC400611	2.39	89 1-	2 ACSR	0	0	1442	167	427	58	32	2.45	3.57	823
1509078	1409078	2.65	78 1-	2 ACSR	0	0	1306	166	351	48	27	0.38	3.95	112
1508067	1509078	4.23	76 1-	2 ACSR	0	0	815	155	336	46	26	1.92	5.87	487
1508042	1508067	4.44	8 1-	4 ACSR	0	0	766	154	28	3	3	0.03	5.90	0
1508043	1508042	5.06	6 1-	6 ACWC	0	0	649	148	18	2	2	0.06	5.96	0
1508044	1508043	5.21	2 1-	4 ACSR	0	0	624	147	15	2	2	0.01	5.97	0
1508039	1508067	4.64	43 1-	2 ACSR	0	0	743	153	189	26	15	0.30	6.17	46
OC400612	1508039	4.64	35 1-	REC_35_UNK	0	0	743	153	149	21	60	0.00	6.17	0
1508040	OC400612	6.46	35 1-	2 ACSR	0	0	531	143	149	21	12	0.70	6.87	65
1508041	1508040	7.21	6 1-	4 ACSR	0	0	460	137	25	3	2	0.06	6.92	0
CKT 114 total losses:		\$28,775												
SUB 23, CKT 124														
SINI_124	SINI	0.00	366 3-	SBS_99_UNK	5564	5843	5898	180	1864	84	0	0.00	0.00	0
1409049	SINI_124	1.10	366 3-	3/0 ACSR	3162	2984	2609	176	1864	84	28	1.06	1.06	1427
1408073	1409049	1.11	22 1-	4 ACSR	0	0	2597	176	177	24	17	0.01	1.06	0
OC400650	1408073	1.11	22 1-	REC_99_UNK	0	0	2597	176	177	24	0	0.00	1.06	0
1408074	OC400650	1.31	22 1-	4 ACSR	0	0	2222	173	177	24	17	0.21	1.27	31
1408075	1408074	1.44	20 1-	2 ACSR	0	0	2064	173	160	21	12	0.09	1.36	12
1408076	1408075	2.68	20 1-	6 ACWC	0	0	1066	160	160	21	16	0.87	2.23	98
1408077	1408076	2.99	5 1-	4 ACSR	0	0	948	157	70	9	7	0.10	2.33	5
1408078	1408077	3.05	1 1-	2 ACSR	0	0	930	157	34	4	3	0.00	2.33	0
1408047	1409049	2.93	326 3-	3/0 ACSR	1794	1650	1326	169	1530	69	23	1.43	2.49	1602
OC400653	1408047	2.93	300 3-	REC_70_UNK	1794	1650	1326	169	1376	63	90	0.00	2.49	0
1508035	OC400653	3.32	300 3-	3/0 ACSR	1641	1510	1200	168	1376	63	21	0.28	2.77	287
1508054	1508035	3.51	22 1-	4 ACSR	0	0	1113	166	191	26	19	0.21	2.99	35
OC400654	1508054	3.51	21 1-	REC_99_UNK	0	0	1113	166	166	22	0	0.00	2.99	0
1508055	OC400654	3.69	21 1-	4 ACSR	0	0	1044	164	166	22	16	0.13	3.12	16
1508056	1508055	4.86	11 1-	6 ACWC	0	0	724	153	81	11	8	0.35	3.47	19
1408087	1508056	4.99	2 1-	4 ACSR	0	0	699	152	17	2	2	0.01	3.48	0
1508036	1508035	4.90	270 3-	3/0 ACSR	1218	1122	865	162	1094	50	17	0.86	3.63	681
1508047	1508036	4.94	94 1-	4 ACSR	0	0	856	162	382	53	38	0.09	3.72	31
OC400655	1508047	4.94	94 1-	REC_99_UNK	0	0	856	162	382	53	0	0.00	3.72	0
1508048	OC400655	5.26	94 1-	4 ACSR	0	0	783	159	382	53	38	0.75	4.47	250
1508049	1508048	5.32	90 1-	2 ACSR	0	0	772	158	364	50	28	0.10	4.57	31
1508050	1508049	6.09	86 1-	4 ACSR	0	0	636	151	364	50	36	1.67	6.23	521
1408101	1508050	7.21	15 1-	4 ACSR	0	0	502	142	63	8	6	0.22	6.46	9
SW400749-B	1408101	7.21	0 1-	Open	0	0	502	142	0	0	0	0.00	6.46	0
1508051	1508050	6.16	62 1-	4 ACSR	0	0	626	151	254	35	26	0.11	6.35	26
1408100	1508051	7.79	62 1-	6 ACWC	0	0	454	138	253	35	26	1.69	8.03	296
1507007	1408100	8.26	12 1-	4 ACSR	0	0	420	135	73	10	8	0.19	8.23	12
1507008	1507007	8.98	9 1-	6 ACWC	0	0	376	130	55	7	6	0.13	8.36	4
SW400748-B	1507008	8.98	0 1-	Open	0	0	376	130	0	0	0	0.00	8.36	0
1508037	1508036	5.69	129 3-	3/0 ACSR	1079	994	760	160	529	24	8	0.20	3.83	77
1508033	1508037	5.99	70 1-	4 ACSR	0	0	704	157	277	38	28	0.52	4.35	125

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
OC400657	1508033	5.99	68 1-	REC_35_UNK	0	0	704	157	260	36 104	0.00	4.35	0	
1508034	OC400657	10.21	68 1-	4 ACSR	0	0	333	125	260	36 26	3.45	7.79	534	
1508062	1508037	5.76	39 1-	4 ACSR	0	0	746	159	144	20 14	0.06	3.89	8	
OC400656	1508062	5.76	39 1-	REC_35_UNK	0	0	746	159	144	20 57	0.00	3.89	0	
1508063	OC400656	5.79	39 1-	4 ACSR	0	0	740	159	144	20 14	0.03	3.92	4	
1508064	1508063	8.80	39 1-	6 ACWC	0	0	409	134	144	20 14	1.45	5.37	128	
1507010	1508064	8.94	1 1-	4 ACSR	0	0	400	133	11	1 1	0.00	5.37	0	
1507009	1508064	8.87	0 1-	6 ACWC	0	0	405	134	0	0 0	0.00	5.37	0	
SW400748-A	1507009	8.87	0 1-	Open	0	0	405	134	0	0 0	0.00	5.37	0	
CKT 124 total losses:		\$6,269												
SUB 23, CKT 134														
SINI_134	SINI	0.00	441 3-	SBS_99_UNK	5564	5843	5898	180	2719	121 0	0.00	0.00	0	
1408099	SINI_134	2.47	441 3-	336.4 ACSR	2450	2260	1840	175	2719	121 23	1.73	1.73	3345	
1408054	1408099	3.17	409 3-	336.4 ACSR	2108	1930	1535	173	2454	110 21	0.44	2.17	810	
OC400697	1408054	3.17	399 3-	REC_100_UNK	2108	1930	1535	173	2370	106 107	0.00	2.17	0	
1408055	OC400697	5.22	399 3-	336.4 ACSR	1497	1362	1052	169	2370	106 20	1.21	3.38	2191	
1408086	1408055	5.23	0 1-	4 ACSR	0	0	1050	169	0	0 0	0.00	3.38	0	
SW400749-A	1408086	5.23	0 1-	Open	0	0	1050	169	0	0 0	0.00	3.38	0	
1408056	1408055	7.28	382 3-	336.4 ACSR	1158	1055	798	165	2246	102 19	1.11	4.49	2005	
RG400018	1408056	7.28	369 3-	219	1158	1055	798	165	2125	97 44	-4.49	0.00	0	
1408057	RG400018	7.47	369 3-	336.4 ACSR	1135	1034	782	164	2125	93 18	0.09	0.09	149	
1408069	1408057	7.83	22 1-	8 ACWC	0	0	704	159	133	17 18	0.39	0.48	44	
OC400698	1408069	7.83	17 1-	REC_50_UNK	0	0	704	159	113	15 30	0.00	0.48	0	
1408070	OC400698	7.99	17 1-	8 ACWC	0	0	672	157	113	15 15	0.15	0.63	15	
1408071	1408070	8.58	14 1-	8 ACWC	0	0	571	149	99	13 13	0.52	1.15	46	
1408072	1408071	9.53	14 1-	6 ACWC	0	0	477	142	99	13 10	0.28	1.43	16	
SW400752-B	1408070	7.99	0 1-	Open	0	0	672	157	0	0 0	0.00	0.63	0	
1408058	1408057	7.47	325 3-	1/0 ACSR	1134	1033	781	164	1862	82 36	0.01	0.10	12	
SW400661-B	1408058	7.47	325 3-	Closed	1134	1033	781	164	1862	82 0	0.00	0.10	0	
SW400661-A	SW400661-B	7.47	325 3-	Closed	1134	1033	781	164	1862	82 0	0.00	0.10	0	
1408059	SW400661-A	7.57	325 3-	1/0 ACSR	1116	1017	768	164	1862	82 36	0.12	0.22	199	
1408060	1408059	7.64	325 3-	3/0 ACSR	1104	1007	759	163	1861	82 27	0.06	0.28	98	
1407040	1408060	9.84	322 3-	1/0 ACSR	800	738	545	153	1859	82 36	2.67	2.94	4380	
1407030	1407040	10.22	204 3-	1/0 ACSR	763	705	519	151	1201	54 24	0.27	3.22	330	
1407028	1407030	11.23	201 3-	1/0 ACSR	678	629	461	146	1137	52 23	0.86	4.08	782	
1407024	1407028	11.42	39 1-	2 ACSR	0	0	450	145	233	32 18	0.19	4.27	39	
OC400704	1407024	11.42	39 1-	REC_99_UNK	0	0	450	145	233	32 0	0.00	4.27	0	
1407025	OC400704	11.51	39 1-	2 ACSR	0	0	445	145	233	32 18	0.09	4.36	17	
1407020	1407025	11.82	37 1-	4 ACSR	0	0	425	142	208	28 21	0.32	4.68	52	
1407021	1407020	12.66	22 1-	6 ACWC	0	0	378	136	124	17 12	0.39	5.07	32	
1407022	1407021	13.17	5 1-	4 ACSR	0	0	354	132	26	3 3	0.04	5.11	0	
1407029	1407028	11.29	136 3-	2 ACSR	673	624	458	146	767	35 20	0.05	4.13	37	
OC400703	1407029	11.29	136 3-	REC_50_UNK	673	624	458	146	767	35 71	0.00	4.13	0	
1407026	OC400703	13.54	136 3-	2 ACSR	513	483	356	134	767	35 20	1.81	5.95	1144	
1407023	1407026	14.78	8 1-	4 ACSR	0	0	307	126	76	10 8	0.30	6.25	14	
1407027	1407026	14.03	88 3-	2 ACSR	487	460	339	132	501	23 13	0.26	6.21	111	
1407034	1407027	14.04	61 1-	4 ACSR	0	0	339	132	306	43 31	0.01	6.22	3	
OC400705	1407034	14.04	61 1-	REC_25_UNK	0	0	339	132	306	43 173	0.00	6.22	0	
1407035	OC400705	14.34	61 1-	4 ACSR	0	0	327	130	306	43 31	0.50	6.72	125	
1407036	1407035	14.95	49 1-	2 ACSR	0	0	309	127	214	30 17	0.37	7.09	53	
1407037	1407036	15.16	23 1-	4 ACSR	0	0	302	125	60	8 6	0.04	7.13	1	

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1307011	1407027	15.39	13 1-	2 ACSR	0	0	300	125	84	11	7	0.25	6.46	12
CA400009	1407030	10.22	0 3-	Capacitor	763	705	519	151	0	-14	0	0.00	3.22	0
1407033	1407040	9.86	92 1-	6 ACWC	0	0	543	152	508	70	50	0.07	3.01	30
OC400699	1407033	9.86	92 1-	REC_50_UNK	0	0	543	152	508	70	140	0.00	3.01	0
1307012	OC400699	11.52	92 1-	6 ACWC	0	0	415	139	508	70	50	4.34	7.35	1734
1307005	1307012	11.74	47 1-	6 ACWC	0	0	401	137	289	41	30	0.38	7.73	94
OC400700	1307005	11.74	41 1-	REC_25_UNK	0	0	401	137	239	34	137	0.00	7.73	0
1307006	OC400700	13.88	41 1-	6 ACWC	0	0	305	123	239	34	25	1.64	9.37	240
1307007	1307006	14.26	1 1-	2 ACSR	0	0	295	122	0	0	0	0.00	9.37	0
1307008	1307012	12.46	6 1-	6 ACWC	0	0	363	132	42	5	4	0.13	7.48	4
1308014	1307008	12.94	1 1-	2 ACSR	0	0	346	130	2	0	0	0.00	7.48	0
1408085	1408099	2.53	8 1-	6 ACWC	0	0	1787	174	76	10	7	0.02	1.76	1
OC400694	1408085	2.53	7 1-	REC_50_UNK	0	0	1787	174	64	8	17	0.00	1.76	0
1408083	OC400694	3.33	7 1-	6 ACWC	0	0	1215	166	64	8	6	0.21	1.96	9
1408084	1408083	3.58	1 1-	4 ACSR	0	0	1096	163	21	2	2	0.02	1.98	0
CKT 134 total losses:		\$18,174												
SUB 23, CKT 144														
SINI_144	SINI	0.00	386 3-	SBS_99_UNK	5564	5843	5898	180	2186	98	0	0.00	0.00	0
1409050	SINI_144	1.53	386 3-	2 ACSR	2132	2048	1728	169	2186	98	55	3.82	3.82	7114
1409081	1409050	1.60	29 1-	6 ACWC	0	0	1653	168	150	20	15	0.07	3.89	9
OC400731	1409081	1.60	29 1-	REC_70_UNK	0	0	1653	168	150	20	30	0.00	3.89	0
1408102	OC400731	3.13	29 1-	6 ACWC	0	0	840	154	150	20	15	0.91	4.80	93
1408089	1408102	3.31	5 1-	4 ACSR	0	0	792	152	42	5	4	0.04	4.84	1
1408090	1408089	3.71	4 1-	2 ACSR	0	0	725	150	27	3	2	0.02	4.86	0
1409047	1409050	2.42	346 3-	2 ACSR	1506	1458	1191	163	1905	88	49	1.95	5.77	3208
1408098	1409047	3.49	104 3-	2 ACSR	1109	1079	866	156	532	25	14	0.68	6.45	321
1408051	1408098	3.50	103 3-	4 ACSR	1106	1077	865	156	509	24	17	0.01	6.45	3
OC400738	1408051	3.50	103 3-	50-H	1106	1077	865	156	509	24	48	0.00	6.45	0
1408052	OC400738	3.57	103 3-	4 ACSR	1081	1053	846	155	509	24	17	0.06	6.52	31
1408053	1408052	3.60	103 3-	2 ACSR	1071	1044	838	155	508	24	13	0.02	6.54	11
1309070	1408053	5.98	44 1-	6 ACWC	0	0	473	137	173	24	18	1.30	7.84	137
1408068	1408053	4.49	3 1-	4 ACSR	0	0	649	148	17	2	2	0.05	6.59	0
SW400753-B	1408068	4.49	0 1-	Open	0	0	649	148	0	0	0	0.00	6.59	0
1308022	1408053	6.88	56 1-	6 ACWC	0	0	405	131	318	45	32	4.42	10.96	995
1309034	1308022	7.36	5 1-	4 ACSR	0	0	376	128	66	9	7	0.16	11.12	9
1309035	1309034	7.50	2 1-	2 ACSR	0	0	371	127	35	5	3	0.01	11.13	0
1309049	1308022	7.12	3 1-	6 ACWC	0	0	390	129	37	5	4	0.03	10.99	0
1309050	1309049	7.21	0 1-	4 ACSR	0	0	385	129	0	0	0	0.00	10.99	0
1408097	1409047	2.95	205 3-	3/0 ACSR	1362	1313	1058	161	1183	55	19	0.34	6.11	317
OC400734	1408097	2.95	202 3-	REC_50_UNK	1362	1313	1058	161	1160	54	110	0.00	6.11	0
1408048	OC400734	3.57	202 3-	3/0 ACSR	1225	1175	923	159	1160	54	18	0.39	6.51	357
1408066	1408048	3.87	4 1-	6 ACWC	0	0	835	156	24	3	2	0.02	6.53	0
1408067	1408066	4.09	0 1-	4 ACSR	0	0	781	154	0	0	0	0.00	6.53	0
SW400753-A	1408067	4.09	0 1-	Open	0	0	781	154	0	0	0	0.00	6.53	0
1408049	1408048	4.68	195 3-	3/0 ACSR	1037	989	764	155	1105	52	17	0.66	7.17	562
1408082	1408049	4.68	52 1-	6 ACWC	0	0	763	155	278	39	28	0.01	7.18	3
OC400735	1408082	4.68	52 1-	REC_99_UNK	0	0	763	155	278	39	0	0.00	7.18	0
1408080	OC400735	5.09	50 1-	6 ACWC	0	0	685	152	265	37	27	0.65	7.82	151
1408081	1408080	5.44	47 1-	2 ACSR	0	0	639	150	233	33	19	0.34	8.16	64
1408062	1408081	6.72	40 1-	6 ACWC	0	0	488	140	188	27	19	1.26	9.42	193
1408064	1408062	7.46	10 1-	6 ACWC	0	0	428	134	74	10	8	0.21	9.63	10

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES CONS	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1408065	1408064	7.65	1 1-	4 ACSR	0	0	415	133	12	1	1	0.01	9.64	0
1408063	1408062	7.15	7 1-	6 ACWC	0	0	452	137	45	6	5	0.06	9.49	2
SW400752-A	1408063	7.15	0 1-	Open	0	0	452	137	0	0	0	0.00	9.49	0
1408079	OC400735	4.69	2 1-	2 ACSR	0	0	762	155	13	1	1	0.00	7.18	0
1408050	1408049	6.05	132 3-	3/0 ACSR	870	826	630	151	745	35	12	0.52	7.69	293
1308011	1408050	6.89	101 3-	3/0 ACSR	793	751	569	148	542	25	9	0.22	7.91	89
1308012	1308011	7.02	13 1-	6 ACWC	0	0	553	147	70	10	7	0.06	7.97	3
OC400740	1308012	7.02	12 1-	25-H	0	0	553	147	60	8	34	0.00	7.97	0
1308013	OC400740	8.45	12 1-	6 ACWC	0	0	428	136	60	8	6	0.27	8.24	10
1308017	1308011	6.97	66 1-	6 ACWC	0	0	558	148	340	48	35	0.19	8.10	58
OC400739	1308017	6.97	65 1-	25-H	0	0	558	148	327	47	188	0.00	8.10	0
1308018	OC400739	7.47	65 1-	6 ACWC	0	0	507	144	327	47	34	0.94	9.04	266
1308019	1308018	7.56	53 1-	4 ACSR	0	0	498	143	265	38	27	0.16	9.20	38
1308020	1308019	9.49	52 1-	6 ACWC	0	0	366	129	246	35	25	1.79	10.99	295
1407038	1308020	9.84	3 1-	4 ACSR	0	0	349	127	40	5	4	0.05	11.03	0
1308015	1408050	7.13	9 1-	6 ACWC	0	0	503	142	75	10	8	0.37	8.06	21
1308016	1308015	7.48	1 1-	2 ACSR	0	0	478	140	33	4	3	0.03	8.08	0
CKT 144 total losses:	\$14,664													
SUB 23 total losses:	\$69,257													

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 24 VAN_ARSDELL			2272		5524	5962	5914	179	14684					
SUB 24, CKT 104														
VANA_104	VAN_ARSDELL	0.00	0 3-	SBS_99_UNK	5524	5962	5914	179	0	0	0	0.00	0.00	0
1510072	VANA_104	0.01	0 3-	3/0 ACSR	5489	5899	5852	179	0	0	0	0.00	0.00	0
1510073	1510072	0.03	0 3-	3/0 ACSR	5413	5763	5720	179	0	0	0	0.00	0.00	0
1510098	1510073	0.03	0 3-	1/0 URD PRI AL	5407	5754	5713	474	0	0	0	0.00	0.00	0
SW450002-B	1510073	0.03	0 3-	Open	5413	5763	5720	179	0	0	0	0.00	0.00	0
SW450287-B	1510072	0.01	0 3-	Open	5489	5899	5852	179	0	0	0	0.00	0.00	0
CKT 104 total losses:		\$0												
SUB 24, CKT 114														
VANA_114	VAN_ARSDELL	0.00	772 3-	SBS_99_UNK	5524	5962	5914	179	4820	218	0	0.00	0.00	0
1510065	VANA_114	0.02	772 3-	336.4 ACSR	5467	5862	5812	179	4820	218	41	0.03	0.03	97
1510060	1510065	0.03	0 3-	336.4 ACSR	5448	5831	5780	179	0	0	0	0.00	0.03	0
SW450287-A	1510060	0.03	0 3-	Open	5448	5831	5780	179	0	0	0	0.00	0.03	0
1511095	1510065	1.97	772 3-	336.4 ACSR	2741	2532	2135	175	4819	218	41	2.83	2.86	8771
1511078	1511095	4.14	732 3-	336.4 ACSR	1753	1601	1246	171	4463	205	39	2.86	5.72	8692
1611037	1511078	4.94	302 3-	3/0 ACSR	1482	1355	1039	168	1973	92	31	0.84	6.56	1310
OC450110	1611037	4.94	293 3-	70-L	1482	1355	1039	168	1913	90	129	0.00	6.56	0
1611038	OC450110	6.59	293 3-	3/0 ACSR	1121	1027	772	162	1913	90	30	1.50	8.06	2158
1611039	1611038	6.82	234 3-	1/0 ACSR	1076	987	740	161	1468	70	30	0.28	8.34	362
1611026	1611039	6.96	47 1-	2 ACSR	0	0	720	160	298	42	24	0.18	8.51	46
OC450104	1611026	6.96	44 1-	35-H	0	0	720	160	275	39	113	0.00	8.51	0
1611027	OC450104	8.05	44 1-	2 ACSR	0	0	594	153	275	39	22	1.02	9.54	217
1611028	1611027	8.91	20 1-	4 ACSR	0	0	502	145	156	22	16	0.48	10.02	50
1612050	1611028	9.10	2 1-	4 ACSR	0	0	486	144	10	1	1	0.01	10.02	0
SW450288-B	1612050	9.10	0 1-	Open	0	0	486	144	0	0	0	0.00	10.02	0
1611029	1611028	9.33	2 1-	4 ACSR	0	0	467	142	6	0	1	0.01	10.02	0
1611040	1611039	8.15	187 3-	1/0 ACSR	876	809	599	154	1167	55	24	1.21	9.55	1217
1611045	1611040	8.15	52 1-	4 ACSR	0	0	599	154	302	43	31	0.01	9.56	3
OC450103	1611045	8.15	52 1-	50-H	0	0	599	154	302	43	87	0.00	9.56	0
1611046	OC450103	11.74	52 1-	4 ACSR	0	0	336	127	302	43	31	3.49	13.05	661
1611041	1611040	8.70	118 3-	1/0 ACSR	812	752	555	152	782	37	16	0.34	9.88	231
1611031	1611041	8.71	107 2-	1/0 ACSR	0	751	555	152	722	52	23	0.01	9.89	4
OC450102	1611031	8.71	107 2-	REC_50_UNK	0	751	555	152	722	52	105	0.00	9.89	0
1711063	OC450102	8.88	107 2-	1/0 ACSR	0	735	543	151	722	52	23	0.17	10.06	106
1711031	1711063	9.09	16 1-	4 ACSR	0	0	522	149	113	16	12	0.14	10.20	14
1711032	1711031	9.62	13 1-	6 ACWC	0	0	476	145	89	12	9	0.20	10.40	13
1711033	1711032	10.45	5 1-	4 ACSR	0	0	417	138	31	4	3	0.08	10.48	2
1711034	1711063	8.95	91 2-	1/0 ACSR	0	728	538	151	608	44	19	0.06	10.12	31
1711047	1711034	10.54	91 1-	4 ACSR	0	0	413	138	608	88	63	3.48	13.60	1410
1711048	1711047	11.03	11 1-	6 ACWC	0	0	384	134	66	9	7	0.11	13.71	5
1611042	1511078	5.13	410 3-	336.4 ACSR	1506	1373	1048	169	2273	106	20	0.64	6.36	1045
1611043	1611042	5.45	128 3-	4 ACSR	1355	1252	947	165	742	34	25	0.43	6.79	298
OC450113	1611043	5.45	123 3-	70-L	1355	1252	947	165	707	33	48	0.00	6.79	0
1611044	OC450113	8.02	123 3-	4 ACSR	676	660	505	142	707	33	24	2.36	9.15	1271
1612037	1611044	8.46	57 3-	4 ACSR	619	607	466	139	286	13	10	0.23	9.38	64
1612033	1612037	8.56	10 3-	4 ACSR	607	596	458	138	51	2	2	0.01	9.39	0
1612039	1612033	8.57	8 1-	4 ACSR	0	0	457	138	41	5	4	0.00	9.40	0
OC450105	1612039	8.57	8 1-	REC_50_UNK	0	0	457	138	41	5	12	0.00	9.40	0
1612040	OC450105	8.96	8 1-	4 ACSR	0	0	427	136	41	5	4	0.05	9.45	1
1612041	1612040	9.74	1 1-	6 ACWC	0	0	380	130	0	0	0	0.00	9.45	0

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1612029	1612033	8.64	2 1-	4 ACSR	0	0	451	138	9	1	1	0.00	9.40	0
1612034	1612037	8.47	45 3-	1/0 ACSR	619	606	466	139	231	11	5	0.00	9.39	0
OC450107	1612034	8.47	45 3-	REC_50_UNK	619	606	466	139	231	11	22	0.00	9.39	0
1612035	OC450107	8.53	45 3-	1/0 ACSR	615	602	462	139	231	11	5	0.01	9.40	2
RG450000	1612035	8.53	44 3-	219	615	602	462	139	230	11	5	-9.40	0.00	0
1612031	RG450000	9.71	44 3-	1/0 ACSR	547	535	407	135	230	10	4	0.19	0.19	35
1612032	1612031	10.16	2 3-	1/0 ACSR	526	513	390	133	10	0	0	0.00	0.19	0
1612054	1612032	13.12	0 1-	2 ACSR	0	0	291	120	0	0	0	0.00	0.19	0
1612055	1612054	13.94	0 1-	6 ACWC	0	0	267	116	0	0	0	0.00	0.19	0
1613083	1612055	15.02	0 1-	2 ACSR	0	0	246	112	0	0	0	0.00	0.19	0
1612053	1612032	10.98	0 3-	1/0 ACSR	490	477	362	130	7	0	0	0.00	0.20	0
1612045	1612053	10.98	0 3-	1/0 URD PRI AL	490	477	362	225	0	0	0	0.00	0.20	0
SW450008-A	1612045	10.98	0 3-	Closed	490	477	362	225	0	0	0	0.00	0.20	0
SW450008-B	SW450008-A	10.98	0 3-	Closed	490	477	362	225	0	0	0	0.00	0.20	0
1612046	SW450008-B	11.09	0 3-	1/0 URD PRI AL	486	473	359	224	0	0	0	0.00	0.20	0
1612025	1612031	9.72	36 1-	4 ACSR	0	0	407	135	194	25	19	0.01	0.20	0
OC450118	1612025	9.72	36 1-	REC_25_UNK	0	0	407	135	194	25	104	0.00	0.20	0
1612026	OC450118	9.88	36 1-	4 ACSR	0	0	397	133	194	25	19	0.18	0.37	29
1612027	1612026	11.27	33 1-	6 ACWC	0	0	328	125	176	23	17	0.72	1.09	74
1612024	1611044	8.03	0 1-	4 ACSR	0	0	504	142	0	0	0	0.00	9.15	0
SW450288-A	1612024	8.03	0 1-	Open	0	0	504	142	0	0	0	0.00	9.15	0
1611033	1611042	5.22	265 3-	336.4 ACSR	1487	1355	1033	168	1418	66	13	0.04	6.40	38
1611034	1611033	5.27	208 3-	3/0 ACSR	1472	1342	1022	168	1125	52	18	0.03	6.43	28
OC450116	1611034	5.27	208 3-	70-L	1472	1342	1022	168	1125	52	76	0.00	6.43	0
1611035	OC450116	5.50	208 3-	3/0 ACSR	1411	1287	977	167	1125	52	18	0.13	6.56	118
RG450001	1611035	5.50	201 3-	219	1411	1287	977	167	1069	50	23	-6.56	0.00	0
1612052	RG450001	7.00	201 3-	3/0 ACSR	1103	1009	754	162	1069	47	16	0.75	0.75	582
1612030	1612052	9.51	164 3-	3/0 ACSR	806	739	544	153	843	37	13	0.99	1.73	613
1512034	1612030	9.98	137 3-	1/0 ACSR	760	699	514	151	701	31	14	0.25	1.98	146
OC450121	1512034	9.98	133 3-	REC_50_UNK	760	699	514	151	691	31	63	0.00	1.98	0
1512035	OC450121	10.63	133 3-	1/0 ACSR	704	649	478	148	691	31	14	0.33	2.31	188
1512029	1512035	10.64	27 1-	6 ACWC	0	0	477	148	186	25	18	0.01	2.32	0
OC450122	1512029	10.64	27 1-	REC_25_UNK	0	0	477	148	186	25	101	0.00	2.32	0
1512030	OC450122	11.73	27 1-	6 ACWC	0	0	405	139	186	25	18	0.64	2.95	71
1512031	1512030	11.78	3 1-	6 ACWC	0	0	402	139	8	1	1	0.00	2.96	0
1512032	1512031	11.84	2 1-	4 ACSR	0	0	399	139	4	0	0	0.00	2.96	0
1612051	1512035	13.24	101 3-	1/0 ACSR	542	504	371	138	465	21	9	0.58	2.89	170
1612036	1612051	13.35	26 3-	1/0 ACSR	537	500	368	137	111	5	2	0.01	2.90	0
1612038	1612036	14.80	24 1-	6 ACWC	0	0	310	127	99	13	10	0.43	3.33	25
1612044	1612051	13.54	3 1-	4 ACSR	0	0	357	135	8	1	1	0.01	2.90	0
1612042	1612052	7.19	9 1-	4 ACSR	0	0	720	160	46	6	4	0.03	0.78	0
1612043	1612042	8.10	6 1-	2 ACSR	0	0	612	154	10	1	1	0.02	0.80	0
1611024	1611033	5.23	55 1-	4 ACSR	0	0	1029	168	272	38	27	0.02	6.42	5
OC450117	1611024	5.23	55 1-	REC_35_UNK	0	0	1029	168	272	38	110	0.00	6.42	0
1511094	OC450117	7.33	55 1-	4 ACSR	0	0	589	149	272	38	27	2.04	8.45	362
1511054	1511094	8.19	15 1-	6 ACWC	0	0	496	142	37	5	4	0.14	8.59	4
1511055	1511054	8.29	5 1-	4 ACSR	0	0	486	141	14	2	1	0.00	8.60	0
1511052	1511095	1.98	16 1-	4 ACSR	0	0	2128	175	109	14	11	0.00	2.87	0
OC450100	1511052	1.98	16 1-	50-L	0	0	2128	175	109	14	30	0.00	2.87	0
1511053	OC450100	2.04	16 1-	4 ACSR	0	0	2040	175	109	14	11	0.04	2.91	4
1511050	1511053	3.28	15 1-	6 ACWC	0	0	1092	162	102	13	10	0.42	3.33	27
1511051	1511050	3.42	1 1-	4 ACSR	0	0	1031	161	10	1	1	0.00	3.33	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS	
CKT 114 total losses:		\$30,600													
SUB 24, CKT 124															
VANA_124	VAN_ARSDELL	0.00	395 3-	SBS_99_UNK	5524	5962	5914	179	2845	128	0	0.00	0.00	0	
1610083	VANA_124	2.26	395 3-	3/0 ACSR	2112	1958	1614	171	2845	128	43	3.26	3.26	6779	
1610049	1610083	3.38	346 3-	3/0 ACSR	1605	1485	1180	167	2498	115	38	1.48	4.74	2865	
1610050	1610049	3.43	338 3-	1/0 ACSR	1585	1467	1164	167	2438	113	49	0.10	4.83	197	
RG450006	1610050	3.43	338 3-	219	1585	1467	1164	167	2436	113	52	-4.83	0.00	0	
1610051	RG450006	3.43	338 3-	1/0 ACSR	1584	1467	1164	167	2436	109	47	0.00	0.00	4	
1610052	1610051	4.07	338 3-	3/0 ACSR	1393	1289	1009	165	2436	109	36	0.78	0.79	1435	
1610073	1610052	4.14	23 1-	4 ACSR	0	0	986	164	168	22	16	0.07	0.86	10	
OC450196	1610073	4.14	23 1-	50-H	0	0	986	164	168	22	45	0.00	0.86	0	
1610074	OC450196	4.17	23 1-	4 ACSR	0	0	976	164	168	22	16	0.03	0.88	4	
1610075	1610074	5.23	22 1-	6 ACWC	0	0	715	154	162	21	16	0.51	1.39	48	
1610076	1610075	5.79	0 1-	8 ACWC	0	0	597	147	0	0	0	0.00	1.39	0	
1610056	1610052	5.46	297 3-	3/0 ACSR	1106	1023	785	160	2119	95	32	1.44	2.22	2288	
1610054	1610056	5.76	216 3-	2 ACSR	1037	963	735	158	1525	69	39	0.54	2.76	717	
SW450125-A	1610054	5.76	213 3-	Closed	1037	963	735	158	1497	68	0	0.00	2.76	0	
SW450125-B	SW450125-A	5.76	213 3-	Closed	1037	963	735	158	1497	68	0	0.00	2.76	0	
1610055	SW450125-B	6.74	213 3-	2 ACSR	858	807	608	152	1497	68	38	1.58	4.34	1999	
1710043	1610055	6.75	0 1-	4 ACSR	0	0	607	152	0	0	0	0.00	4.34	0	
SW450296-A	1710043	6.75	0 1-	Open	0	0	607	152	0	0	0	0.00	4.34	0	
1710051	1610055	7.47	184 3-	2 ACSR	758	717	538	147	1273	58	33	1.05	5.38	1166	
1710052	1710051	8.53	155 3-	2 ACSR	646	615	460	141	1086	50	28	1.27	6.65	1197	
RG450009	1710052	8.53	134 3-	219	646	615	460	141	931	43	20	-6.65	0.00	0	
1711064	RG450009	8.57	134 3-	2 ACSR	643	612	458	141	931	41	23	0.04	0.04	32	
1711046	1711064	9.80	22 3-	3/0 ACSR	581	553	413	138	137	6	2	0.04	0.08	3	
SW450126-B	1711046	9.80	0 3-	Open	581	553	413	138	0	0	0	0.00	0.08	0	
1710077	1711064	9.02	111 3-	4 ACSR	592	567	426	138	779	34	25	0.60	0.64	412	
OC450202	1710077	9.02	108 3-	REC_50_UNK	592	567	426	138	752	33	67	0.00	0.64	0	
1710054	OC450202	10.77	108 3-	4 ACSR	448	436	332	126	752	33	24	2.14	2.78	1386	
1710061	1710054	10.77	48 1-	4 ACSR	0	0	332	126	276	37	27	0.01	2.79	2	
OC450203	1710061	10.77	48 1-	REC_35_UNK	0	0	332	126	276	37	108	0.00	2.79	0	
1710062	OC450203	11.58	48 1-	4 ACSR	0	0	301	121	276	37	27	1.26	4.06	295	
1710078	1710062	12.56	21 1-	4 ACSR	0	0	270	116	152	20	15	0.45	4.51	41	
1711049	1710062	12.46	15 1-	4 ACSR	0	0	273	116	81	11	8	0.22	4.27	11	
1710055	1710054	10.91	45 3-	4 ACSR	439	428	326	125	364	16	12	0.07	2.85	19	
1710063	1710055	11.58	23 1-	4 ACSR	0	0	301	121	168	23	16	0.50	3.35	60	
1710064	1710063	11.66	9 1-	6 ACWC	0	0	298	121	74	10	7	0.03	3.38	2	
1710065	1710064	11.74	8 1-	4 ACSR	0	0	295	120	67	9	7	0.02	3.39	0	
SW450297-A	1710065	11.74	0 1-	Open	0	0	295	120	0	0	0	0.00	3.39	0	
1710045	1710051	7.48	10 1-	4 ACSR	0	0	538	147	79	10	8	0.00	5.39	0	
OC450199	1710045	7.48	10 1-	REC_25_UNK	0	0	538	147	79	10	44	0.00	5.39	0	
1710046	OC450199	7.88	10 1-	4 ACSR	0	0	498	144	79	10	8	0.19	5.57	13	
1610082	1710046	8.19	8 1-	6 ACWC	0	0	471	142	70	9	7	0.10	5.68	6	
1610044	1610082	8.64	5 1-	8 ACWC	0	0	427	137	38	5	5	0.10	5.78	3	
1610043	1610044	8.80	2 1-	4 ACSR	0	0	416	136	12	1	1	0.01	5.78	0	
1610045	1610056	5.54	49 1-	4 ACSR	0	0	767	159	361	49	35	0.18	2.41	58	
OC450197	1610045	5.54	48 1-	REC_50_UNK	0	0	767	159	347	47	95	0.00	2.41	0	
1610046	OC450197	6.58	48 1-	4 ACSR	0	0	599	150	347	47	34	1.87	4.28	521	
1610040	1610046	6.61	29 1-	4 ACSR	0	0	594	150	222	30	22	0.04	4.33	8	
OC450198	1610040	6.61	27 1-	REC_25_UNK	0	0	594	150	217	30	120	0.00	4.33	0	

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1610041	OC450198	8.33	27 1-	4 ACSR	0	0	429	136	217	30	21	1.16	5.49	152
1610042	1610041	8.42	1 1-	2 ACSR	0	0	425	136	2	0	0	0.00	5.49	0
1610047	1610046	6.91	4 1-	4 ACSR	0	0	557	147	23	3	2	0.02	4.31	0
1610057	1610056	6.82	6 3-	4 ACSR	778	743	568	148	29	1	1	0.04	2.26	0
1610065	1610083	2.32	11 1-	4 ACSR	0	0	1564	171	58	7	6	0.02	3.28	0
1610066	1610065	2.32	11 1-	6 ACWC	0	0	1559	171	58	7	6	0.00	3.28	0
OC450195	1610066	2.32	11 1-	REC_99_UNK	0	0	1559	171	58	7	0	0.00	3.28	0
1610067	OC450195	3.58	11 1-	6 ACWC	0	0	920	158	58	7	6	0.27	3.55	10
1610068	1610067	3.61	2 1-	2 ACSR	0	0	911	158	13	1	1	0.00	3.55	0
CKT 124 total losses:		\$21,743												
SUB 24, CKT 134														
VANA_134	VAN_ARSDPELL	0.00	577 3-	SBS_99_UNK	5524	5962	5914	179	3572	158	0	0.00	0.00	0
1510075	VANA_134	1.18	577 3-	3/0 ACSR	3026	2833	2498	175	3572	158	53	1.97	1.97	5739
1510058	1510075	1.32	270 3-	2 ACSR	2812	2637	2289	174	1686	75	42	0.25	2.22	392
OC450229	1510058	1.32	268 3-	REC_100_UNK	2812	2637	2289	174	1668	74	75	0.00	2.22	0
1510059	OC450229	2.46	268 3-	2 ACSR	1706	1628	1324	166	1668	74	42	1.99	4.21	3108
1510093	1510059	3.03	22 1-	4 ACSR	0	0	1036	161	185	25	18	0.58	4.79	90
OC450233	1510093	3.03	17 1-	35-H	0	0	1036	161	148	20	59	0.00	4.79	0
1510094	OC450233	3.06	17 1-	4 ACSR	0	0	1022	160	148	20	15	0.03	4.82	4
1510096	1510094	3.27	2 1-	4 ACSR	0	0	945	158	15	2	2	0.01	4.83	0
SW450294-B	1510096	3.27	0 1-	Open	0	0	945	158	0	0	0	0.00	4.83	0
1510095	1510094	4.02	13 1-	4 ACSR	0	0	742	152	115	15	11	0.34	5.16	24
1510077	1510059	3.66	238 3-	4 ACSR	1055	1033	830	155	1418	64	46	2.73	6.95	3693
1510091	1510077	3.74	28 1-	4 ACSR	0	0	809	154	125	17	13	0.06	7.01	7
OC450234	1510091	3.74	28 1-	50-H	0	0	809	154	125	17	35	0.00	7.01	0
1510092	OC450234	5.39	28 1-	4 ACSR	0	0	532	141	125	17	13	0.65	7.66	50
1510078	1510077	5.15	199 3-	4 ACSR	701	697	559	143	1169	54	39	2.63	9.58	2957
1510069	1510078	5.24	125 3-	1/0 ACSR	693	689	553	142	724	35	15	0.04	9.61	36
OC450236	1510069	5.24	125 3-	50-H	693	689	553	142	724	35	71	0.00	9.61	0
1510070	OC450236	6.59	125 3-	1/0 ACSR	600	592	468	137	724	35	15	0.48	10.09	462
1510071	1510070	6.66	107 3-	1/0 ACSR	596	588	464	137	609	29	13	0.03	10.13	18
1510088	1510071	6.66	44 1-	6 ACWC	0	0	464	137	292	42	30	0.01	10.14	3
SW450225-A	1510088	6.66	44 1-	Closed	0	0	464	137	292	42	0	0.00	10.14	0
SW450225-B	SW450225-A	6.66	44 1-	Closed	0	0	464	137	292	42	0	0.00	10.14	0
1510089	SW450225-B	6.91	44 1-	6 ACWC	0	0	444	135	292	42	30	0.45	10.59	122
RG450010	1510089	6.91	43 1-	0	0	0	444	135	279	40	82	-10.59	0.00	0
1510090	RG450010	8.39	43 1-	6 ACWC	0	0	354	126	279	37	27	1.97	1.97	417
1410070	1510090	8.78	24 1-	4 ACSR	0	0	336	124	170	23	16	0.35	2.32	49
1410071	1410070	9.71	17 1-	4 ACSR	0	0	299	118	134	18	13	0.48	2.80	43
1410072	1410071	10.01	3 1-	2 ACSR	0	0	291	117	35	4	3	0.02	2.82	0
SW400406-B	1410070	8.78	0 1-	Open	0	0	336	124	0	0	0	0.00	2.32	0
1510083	1510071	6.66	60 1-	1/0 ACSR	0	0	464	137	297	43	19	0.01	10.13	1
SW450226-A	1510083	6.66	60 1-	Closed	0	0	464	137	297	43	0	0.00	10.13	0
SW450226-B	SW450226-A	6.66	60 1-	Closed	0	0	464	137	297	43	0	0.00	10.13	0
1510084	SW450226-B	9.69	60 1-	1/0 ACSR	0	0	349	127	297	43	19	1.38	11.51	237
CA450002	1510070	6.59	0 3-	Capacitor	600	592	468	137	0	-13	0	0.00	10.09	0
1510067	1510078	6.10	39 3-	4 ACSR	575	575	462	136	197	9	7	0.31	9.88	54
1510062	1510067	6.16	16 2-	4 ACSR	0	0	569	135	68	4	4	0.01	9.90	0
1510063	1510062	6.16	16 2-	1/0 ACSR	0	0	569	135	68	4	2	0.00	9.90	0
OC450238	1510063	6.16	16 2-	35-H	0	0	569	135	68	4	14	0.00	9.90	0
1509105	OC450238	8.23	16 2-	1/0 ACSR	0	0	469	372	128	68	4	0.10	10.00	4

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1509075	1509105	8.54	1 2-	4 ACSR	0	448	356	127	2	0	0	0.00	10.00	0
SW450291-B	1509075	8.54	0 2-	Open	0	448	356	127	0	0	0	0.00	10.00	0
1510068	1510067	6.69	14 3-	4 ACSR	518	519	417	132	77	3	3	0.08	9.97	6
1509104	1510068	7.52	12 1-	4 ACSR	0	0	367	126	69	9	7	0.20	10.16	9
1509080	1509104	7.57	1 1-	2 ACSR	0	0	365	126	4	0	0	0.00	10.16	0
1510076	1510075	1.34	304 3-	3/0 ACSR	2836	2648	2302	175	1809	82	27	0.16	2.13	224
OC450232	1510076	1.34	304 3-	REC_70_UNK	2836	2648	2302	175	1807	82	118	0.00	2.13	0
1510079	OC450232	2.36	304 3-	3/0 ACSR	2050	1900	1559	171	1807	82	27	0.94	3.07	1302
1610072	1510079	2.45	0 1-	4 ACSR	0	0	1495	170	0	0	0	0.00	3.07	0
SW450293-A	1610072	2.45	0 1-	Open	0	0	1495	170	0	0	0	0.00	3.07	0
1510102	1510079	2.60	292 3-	3/0 ACSR	1924	1782	1448	170	1714	78	26	0.21	3.29	287
1610086	1510102	2.68	9 1-	8 ACWC	0	0	1388	169	50	6	7	0.02	3.31	0
1610071	1610086	2.84	1 1-	6 ACWC	0	0	1289	167	5	0	1	0.00	3.31	0
SW450293-B	1610071	2.84	0 1-	Open	0	0	1289	167	0	0	0	0.00	3.31	0
1510056	1510102	2.93	280 3-	3/0 ACSR	1775	1643	1321	169	1643	75	25	0.28	3.56	354
1610084	1510056	5.01	274 3-	3/0 ACSR	1187	1097	846	162	1594	73	24	1.46	5.03	1666
1609038	1610084	5.50	76 2-	4 ACSR	0	962	741	157	437	30	22	0.58	5.61	224
1609033	1609038	5.59	45 1-	4 ACSR	0	0	722	156	264	37	26	0.16	5.77	38
1609029	1609033	5.60	31 1-	4 ACSR	0	0	721	156	178	24	18	0.01	5.78	0
OC450241	1609029	5.60	31 1-	35-H	0	0	721	156	178	24	71	0.00	5.78	0
1609030	OC450241	6.49	31 1-	4 ACSR	0	0	585	148	178	24	18	0.73	6.50	97
1609032	1609030	8.10	15 1-	6 ACWC	0	0	432	136	84	11	8	0.42	6.92	22
1609031	1609033	5.60	11 1-	4 ACSR	0	0	721	156	77	10	8	0.00	5.77	0
OC450242	1609031	5.60	11 1-	35-H	0	0	721	156	77	10	31	0.00	5.77	0
1609028	OC450242	7.35	11 1-	4 ACSR	0	0	491	141	77	10	8	0.42	6.19	20
1609039	1609038	5.60	23 2-	4 ACSR	0	935	721	156	120	8	6	0.04	5.65	4
1609053	1609039	5.71	2 1-	4 ACSR	0	0	701	155	17	2	2	0.01	5.66	0
1609054	1609053	5.89	1 1-	2 ACSR	0	0	677	154	10	1	1	0.00	5.66	0
1609040	1609039	5.70	20 2-	4 ACSR	0	912	703	155	98	6	5	0.03	5.67	2
OC450240	1609040	5.70	20 2-	50-L	0	912	703	155	98	6	14	0.00	5.67	0
1509106	OC450240	6.64	20 2-	4 ACSR	0	729	566	147	98	6	5	0.23	5.90	19
1509076	1509106	6.95	1 2-	4 ACSR	0	683	531	145	2	0	0	0.00	5.90	0
SW450291-A	1509076	6.95	0 2-	Open	0	683	531	145	0	0	0	0.00	5.90	0
1509067	1509106	7.67	14 1-	4 ACSR	0	0	464	139	66	9	7	0.25	6.15	11
1510052	1509067	7.73	2 1-	2 ACSR	0	0	460	139	12	1	1	0.00	6.15	0
1510097	1510052	7.74	2 1-	1/0 URD PRI AL	0	0	460	256	12	1	1	0.00	6.15	0
1609036	1610084	5.06	120 2-	4 ACSR	0	1081	833	161	658	45	33	0.10	5.13	63
OC450244	1609036	5.06	120 2-	REC_50_UNK	0	1081	833	161	657	45	92	0.00	5.13	0
1609037	OC450244	7.33	120 2-	4 ACSR	0	633	494	142	657	45	33	3.96	9.09	2241
1609034	1609037	7.88	47 1-	4 ACSR	0	0	447	138	251	36	26	0.72	9.82	149
OC450246	1609034	7.88	28 1-	25-H	0	0	447	138	156	22	91	0.00	9.82	0
1609035	OC450246	10.41	28 1-	4 ACSR	0	0	311	121	156	22	16	1.28	11.09	125
SW450290-B	1609035	10.41	0 1-	Open	0	0	311	121	0	0	0	0.00	11.09	0
1609045	1609037	7.33	52 1-	4 ACSR	0	0	493	142	270	39	28	0.01	9.10	3
OC450245	1609045	7.33	52 1-	REC_35_UNK	0	0	493	142	270	39	111	0.00	9.10	0
1609046	OC450245	9.40	52 1-	4 ACSR	0	0	354	127	270	39	28	2.13	11.23	393
1609047	1609046	9.90	10 1-	6 ACWC	0	0	332	124	50	7	5	0.11	11.34	4
1609044	1609047	10.14	2 1-	4 ACSR	0	0	321	123	17	2	2	0.01	11.36	0
1510085	1510056	2.94	0 1-	4 ACSR	0	0	1318	169	0	0	0	0.00	3.56	0
SW450294-A	1510085	2.94	0 1-	Open	0	0	1318	169	0	0	0	0.00	3.56	0

CKT 134 total losses: \$24,773

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 24, CKT 144														
VANA_144	VAN_ARSDELL	0.00	528 3-	SBS_99_UNK	5524	5962	5914	179	3447	156	0	0.00	0.00	0
1510074	VANA_144	2.67	528 3-	3/0 ACSR	1891	1751	1420	170	3447	156	52	5.05	5.05	12668
OC450271	1510074	2.67	513 3-	REC_100_UNK	1891	1751	1420	170	3267	153	154	0.00	5.05	0
1610058	OC450271	4.73	513 3-	3/0 ACSR	1243	1149	890	163	3267	153	51	3.74	8.79	9505
RG450013	1610058	4.73	512 3-	219	1243	1149	890	163	3185	153	70	-8.79	0.00	0
1610059	RG450013	6.13	512 3-	3/0 ACSR	1007	931	709	158	3185	142	48	2.30	2.30	5555
1610061	1610059	6.48	108 1-	6 ACWC	0	0	653	155	743	101	73	1.53	3.83	977
OC450272	1610061	6.48	101 1-	50-H	0	0	653	155	683	94	189	0.00	3.83	0
1610062	OC450272	6.65	101 1-	6 ACWC	0	0	629	153	683	94	68	0.71	4.54	425
RG450014	1610062	6.65	98 1-	50	0	0	629	153	644	89	179	-4.54	0.00	0
1610063	RG450014	8.19	98 1-	6 ACWC	0	0	466	141	644	86	62	4.81	4.81	2364
1609049	1610063	8.21	68 1-	6 ACWC	0	0	465	140	396	55	39	0.04	4.85	15
OC450273	1609049	8.21	68 1-	35-H	0	0	465	140	396	55	158	0.00	4.85	0
1609050	OC450273	8.29	68 1-	6 ACWC	0	0	458	140	396	55	39	0.21	5.06	75
1610085	1609050	11.73	61 1-	6 ACWC	0	0	286	118	353	49	35	3.81	8.87	823
1610064	1610085	11.84	2 1-	4 ACSR	0	0	283	118	8	1	1	0.00	8.87	0
1609051	1609050	8.86	7 1-	6 ACWC	0	0	417	136	43	5	4	0.07	5.13	2
1609048	1610063	8.25	1 1-	6 ACWC	0	0	461	140	2	0	0	0.00	4.81	0
1610070	1610059	7.34	15 1-	6 ACWC	0	0	545	147	79	10	8	0.29	2.59	13
SW450295-A	1610070	7.34	0 1-	Open	0	0	545	147	0	0	0	0.00	2.59	0
1610060	1610059	7.35	384 3-	3/0 ACSR	863	798	602	154	2281	103	35	1.43	3.73	2518
1710049	1610060	7.42	73 3-	4 ACSR	850	788	594	153	511	23	17	0.06	3.79	29
OC450276	1710049	7.42	71 3-	50-H	850	788	594	153	499	22	46	0.00	3.79	0
1710050	OC450276	9.20	71 3-	4 ACSR	595	568	430	139	499	22	16	1.29	5.08	522
1610069	1710050	9.32	2 1-	6 ACWC	0	0	423	138	0	0	0	0.00	5.08	0
SW450295-B	1610069	9.32	0 1-	Open	0	0	423	138	0	0	0	0.00	5.08	0
1710076	1710050	9.53	46 1-	4 ACSR	0	0	409	136	310	43	31	0.62	5.71	174
OC450286	1710076	9.53	45 1-	35-H	0	0	409	136	303	42	121	0.00	5.71	0
1710038	OC450286	10.22	45 1-	4 ACSR	0	0	370	131	303	42	30	0.94	6.65	210
1710040	1710038	10.30	0 1-	4 ACSR	0	0	366	131	0	0	0	0.00	6.65	0
SW450296-B	1710040	10.30	0 1-	Open	0	0	366	131	0	0	0	0.00	6.65	0
1710039	1710038	10.81	20 1-	4 ACSR	0	0	341	128	133	18	13	0.25	6.89	20
1610053	1710050	9.24	0 3-	4 ACSR	591	565	428	138	0	0	0	0.00	5.08	0
1710056	1610060	7.36	297 3-	3/0 ACSR	863	798	602	154	1669	76	26	0.00	3.73	6
1710057	1710056	7.40	297 3-	3/0 ACSR	858	794	598	153	1669	76	26	0.04	3.77	51
1710058	1710057	8.27	297 3-	4 ACSR	714	673	507	146	1669	76	55	2.52	6.29	3809
RG450017	1710058	8.27	283 3-	219	714	673	507	146	1547	72	33	-6.29	0.00	0
1710059	RG450017	8.37	283 3-	4 ACSR	699	660	497	145	1547	69	49	0.28	0.28	393
1710047	1710059	8.49	112 3-	4 ACSR	683	645	487	144	726	32	23	0.15	0.44	100
OC450279	1710047	8.49	112 3-	35-H	683	645	487	144	725	32	93	0.00	0.44	0
1710048	OC450279	9.15	112 3-	4 ACSR	603	576	436	139	725	32	23	0.83	1.27	536
1710037	1710048	9.61	16 1-	4 ACSR	0	0	405	136	94	12	9	0.22	1.48	16
OC450281	1710037	9.61	13 1-	REC_25_UNK	0	0	405	136	63	8	34	0.00	1.48	0
1710042	OC450281	11.02	1 1-	4 ACSR	0	0	333	126	11	1	1	0.05	1.53	0
1710041	OC450281	9.66	12 1-	4 ACSR	0	0	402	135	52	7	5	0.01	1.49	0
1710066	1710048	10.94	93 1-	4 ACSR	0	0	336	127	618	83	60	5.65	6.92	2735
1710068	1710066	10.95	57 1-	4 ACSR	0	0	336	127	392	55	40	0.01	6.93	5
OC450280	1710068	10.95	57 1-	REC_25_UNK	0	0	336	127	392	55	222	0.00	6.93	0
1710069	OC450280	12.23	57 1-	4 ACSR	0	0	288	119	392	55	40	2.40	9.34	727
1710072	1710069	12.43	4 1-	4 ACSR	0	0	282	118	35	5	4	0.02	9.36	0
SW450297-B	1710072	12.43	0 1-	Open	0	0	282	118	0	0	0	0.00	9.36	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 26	CLAY_LICK		1660		5202	5546	5529	179	10907					
SUB 26,	CKT 114													
	CLIC_114	CLAY_LICK	0.00	57 3-	SBS_99_UNK	5202	5546	5529	179	423	18 0	0.00	0.00	0
	1511076	CLIC_114	0.09	57 3-	336.4 ACSR	4988	5196	5164	179	423	18 4	0.01	0.01	3
	1511077	1511076	2.01	57 3-	3/0 ACSR	2242	2075	1743	172	423	18 6	0.37	0.38	114
	1510053	1511077	2.67	28 3-	3/0 ACSR	1871	1729	1411	170	272	12 4	0.08	0.46	17
	1510054	1510053	2.86	16 3-	3/0 ACSR	1788	1652	1339	169	169	7 3	0.01	0.48	2
	1510055	1510054	3.23	3 3-	3/0 ACSR	1643	1517	1216	168	30	1 0	0.00	0.48	0
	SW450002-A	1510055	3.23	0 3-	Open	1643	1517	1216	168	0	0 0	0.00	0.48	0
	1511096	1510054	4.04	10 1-	4 ACSR	0	0	860	158	112	15 11	0.39	0.87	26
	1510080	1510053	3.79	7 1-	6 ACWC	0	0	911	159	55	7 5	0.18	0.65	6
	1510050	1511077	2.66	13 1-	4 ACSR	0	0	1256	166	72	9 7	0.22	0.60	12
	1510051	1510050	3.17	8 1-	6 ACWC	0	0	1019	161	42	5 4	0.06	0.67	2
	CKT 114 total losses:	\$182												
SUB 26,	CKT 124													
	CLIC_124	CLAY_LICK	0.00	631 3-	SBS_99_UNK	5202	5546	5529	179	4020	178 0	0.00	0.00	0
	1511074	CLIC_124	0.11	631 3-	336.4 ACSR	4934	5113	5076	179	4020	178 34	0.12	0.12	355
	1511069	1511074	0.34	631 3-	3/0 ACSR	4354	4288	4182	178	4017	178 59	0.42	0.54	1383
	1511070	1511069	0.37	630 3-	3/0 ACSR	4272	4185	4066	178	3997	180 60	0.07	0.62	225
	1511063	1511070	0.43	454 3-	3/0 ACSR	4152	4037	3898	178	2962	133 45	0.09	0.70	192
	OC400291	1511063	0.43	454 3-	REC_100_UNK	4152	4037	3898	178	2961	133 134	0.00	0.70	0
	1511064	OC400291	0.78	454 3-	3/0 ACSR	3503	3339	3067	177	2961	133 45	0.54	1.24	1189
	1511065	1511064	1.35	429 3-	1/0 ACSR	2695	2518	2184	174	2806	127 55	1.18	2.42	2647
	1511066	1511065	3.46	322 3-	1/0 ACSR	1403	1316	1034	163	2181	99 43	3.25	5.67	5512
	1511084	1511066	4.10	2 1-	4 ACSR	0	0	834	157	3	0 0	0.01	5.67	0
	SW400403-A	1511084	4.10	0 1-	Open	0	0	834	157	0	0 0	0.00	5.67	0
	1511059	1511066	3.53	254 3-	1/0 ACSR	1380	1294	1015	163	1710	80 35	0.10	5.76	143
	RG400003	1511059	3.53	254 3-	219	1380	1294	1015	163	1709	80 37	-5.76	0.00	0
	1511060	RG400003	4.04	254 3-	1/0 ACSR	1237	1162	902	161	1709	76 33	0.64	0.64	884
	SW400223-B	1511060	4.04	234 3-	Closed	1237	1162	902	161	1628	73 0	0.00	0.64	0
	SW400223-A	SW400223-B	4.04	234 3-	Closed	1237	1162	902	161	1628	73 0	0.00	0.64	0
	1511071	SW400223-A	5.25	234 3-	1/0 ACSR	990	932	712	155	1628	73 32	1.46	2.11	1936
	1511072	1511071	5.33	146 3-	1/0 ACSR	977	920	702	155	1063	48 21	0.07	2.17	58
	OC400284	1511072	5.33	146 3-	50-H	977	920	702	155	1063	48 97	0.00	2.17	0
	1512041	OC400284	7.44	146 3-	1/0 ACSR	726	685	515	146	1063	48 21	1.42	3.59	1122
	OC400286	1512041	7.44	105 3-	35-H	726	685	515	146	687	31 90	0.00	3.59	0
	1512033	OC400286	7.48	105 3-	1/0 ACSR	722	682	512	145	687	31 14	0.01	3.61	7
	1512028	1512033	7.57	64 1-	4 ACSR	0	0	504	145	357	19 35	0.19	3.80	61
	1512020	1512028	9.39	64 1-	6 ACWC	0	0	376	132	356	49 35	2.99	6.79	794
	1512022	1512020	9.82	36 1-	6 ACWC	0	0	354	129	173	24 17	0.42	7.21	62
	1512025	1512022	9.82	19 1-	6 ACWC	0	0	354	129	80	11 8	0.00	7.21	0
	OC400288	1512025	9.82	19 1-	REC_35_UNK	0	0	354	129	80	11 32	0.00	7.21	0
	1512027	OC400288	9.83	1 1-	4 ACSR	0	0	354	129	9	1 1	0.00	7.21	0
	1512026	OC400288	11.14	18 1-	6 ACWC	0	0	300	121	70	10 7	0.29	7.50	13
	1512023	1512022	9.82	12 1-	6 ACWC	0	0	354	129	60	8 6	0.00	7.21	0
	OC400287	1512023	9.82	12 1-	REC_35_UNK	0	0	354	129	60	8 25	0.00	7.21	0
	1512024	OC400287	11.52	12 1-	6 ACWC	0	0	288	119	60	8 6	0.32	7.53	12
	1512021	1512020	9.84	1 1-	6 ACWC	0	0	353	129	3	0 0	0.00	6.79	0
	1511079	1511071	5.25	73 1-	2 ACSR	0	0	711	155	471	64 36	0.01	2.12	5
	OC400281	1511079	5.25	73 1-	REC_50_UNK	0	0	711	155	471	64 129	0.00	2.12	0
	1512042	OC400281	5.97	73 1-	2 ACSR	0	0	621	151	471	64 36	1.33	3.44	507

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1512037	1512042	7.11	66 1-	4 ACSR	0	0	491	141	403	55	40	2.36	5.80	752
1512038	1512037	8.10	44 1-	2 ACSR	0	0	430	136	263	36	20	0.79	6.59	146
SW400227-B	1512038	8.10	21 1-	Closed	0	0	430	136	109	15	0	0.00	6.59	0
SW400227-A	SW400227-B	8.10	21 1-	Closed	0	0	430	136	109	15	0	0.00	6.59	0
1511081	SW400227-A	8.66	21 1-	2 ACSR	0	0	401	134	109	15	9	0.20	6.79	16
1511082	1511081	9.10	11 1-	4 ACSR	0	0	376	131	53	7	5	0.14	6.93	7
1511083	1511082	10.34	11 1-	4 ACSR	0	0	319	123	53	7	5	0.21	7.14	7
SW400403-B	1511082	9.10	0 1-	Open	0	0	376	131	0	0	0	0.00	6.93	0
1511046	1511065	1.53	70 1-	4 ACSR	0	0	1932	172	352	48	34	0.39	2.81	120
OC400280	1511046	1.53	69 1-	50-H	0	0	1932	172	348	47	95	0.00	2.81	0
1511047	OC400280	2.11	69 1-	4 ACSR	0	0	1380	166	348	47	34	1.12	3.93	326
1511048	1511047	2.39	49 1-	4 ACSR	0	0	1208	163	233	32	23	0.39	4.32	81
1511049	1511048	4.27	46 1-	4 ACSR	0	0	642	147	203	28	20	1.18	5.50	144
1511090	1511048	2.51	1 1-	1/0 URD PRI AL	0	0	1166	367	22	3	2	0.01	4.33	0
SW400402-A	1511090	2.51	0 1-	Open	0	0	1166	367	0	0	0	0.00	4.33	0
1511089	1511047	2.70	7 1-	1/0 URD PRI AL	0	0	1155	365	50	6	4	0.06	3.99	2
SW400402-B	1511089	2.70	0 1-	Open	0	0	1155	365	0	0	0	0.00	3.99	0
1511061	1511070	0.47	176 3-	4 ACSR	3968	3849	3668	177	1033	46	33	0.17	0.78	154
OC400275	1511061	0.47	170 3-	REC_70_UNK	3968	3849	3668	177	983	44	63	0.00	0.78	0
1511062	OC400275	1.87	170 3-	4 ACSR	1536	1520	1277	163	983	44	32	2.04	2.82	1610
1511087	1511062	1.88	95 1-	6 ACWC	0	0	1273	163	522	71	51	0.02	2.84	8
OC400276	1511087	1.88	95 1-	REC_35_UNK	0	0	1273	163	522	71	205	0.00	2.84	0
1411160	OC400276	2.42	95 1-	6 ACWC	0	0	1006	158	522	71	51	1.48	4.32	621
SW400224-B	1411160	2.42	70 1-	Closed	0	0	1006	158	375	52	0	0.00	4.32	0
SW400224-A	SW400224-B	2.42	70 1-	Closed	0	0	1006	158	375	52	0	0.00	4.32	0
1411145	SW400224-A	5.55	70 1-	6 ACWC	0	0	450	134	375	52	37	4.70	9.01	1215
1411148	1411145	5.72	2 1-	6 ACWC	0	0	437	133	14	2	1	0.01	9.02	0
1411146	1411145	5.72	17 1-	6 ACWC	0	0	437	133	96	13	10	0.10	9.12	9
OC400279	1411146	5.72	17 1-	REC_25_UNK	0	0	437	133	96	13	55	0.00	9.12	0
1411147	OC400279	6.53	17 1-	6 ACWC	0	0	383	127	96	13	10	0.25	9.36	15
1511057	1511062	1.88	20 2-	4 ACSR	0	1516	1273	163	136	9	7	0.00	2.82	0
OC400278	1511057	1.88	20 2-	REC_35_UNK	0	1516	1273	163	136	9	27	0.00	2.82	0
1511058	OC400278	2.70	20 2-	4 ACSR	0	1083	903	155	136	9	7	0.23	3.05	22
SW400226-B	1511058	2.70	9 2-	Closed	0	1083	903	155	57	3	0	0.00	3.05	0
SW400226-A	SW400226-B	2.70	9 2-	Closed	0	1083	903	155	57	3	0	0.00	3.05	0
1511056	SW400226-A	3.18	9 2-	4 ACSR	0	927	771	151	57	3	3	0.04	3.09	1
CA400012	1511069	0.34	0 3-	Capacitor	4354	4288	4182	178	0	-14	0	0.00	0.54	0

CKT 124 total losses: \$22,363

SUB 26, CKT 134

CLIC_134	CLAY_LICK	0.00	365 3-	SBS_99_UNK	5202	5546	5529	179	2071	91	0	0.00	0.00	0
1411158	CLIC_134	3.97	365 3-	336.4 ACSR	1773	1617	1272	171	2071	91	17	1.76	1.76	3055
1411085	1411158	4.10	31 1-	4 ACSR	0	0	1211	170	243	33	24	0.19	1.95	41
OC400337	1411085	4.10	31 1-	REC_99_UNK	0	0	1211	170	243	33	0	0.00	1.95	0
1411086	OC400337	5.03	31 1-	4 ACSR	0	0	878	160	243	33	24	1.14	3.09	217
1411078	1411086	5.46	18 1-	2 ACSR	0	0	793	158	160	21	12	0.24	3.33	30
1411079	1411078	6.46	13 1-	4 ACSR	0	0	614	149	109	15	11	0.37	3.70	25
1411080	1411079	6.59	1 1-	2 ACSR	0	0	600	148	11	1	1	0.00	3.70	0
1411106	1411158	4.27	314 3-	336.4 ACSR	1689	1539	1202	170	1677	74	14	0.10	1.86	163
1411108	1411106	4.47	314 3-	336.4 ACSR	1637	1491	1159	170	1676	74	14	0.07	1.92	108
1411109	1411108	5.29	308 3-	1/0 ACSR	1359	1246	949	166	1655	74	32	0.88	2.80	1376
SW400294-B	1411109	5.29	303 3-	Closed	1359	1246	949	166	1653	72	0	0.00	2.80	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW400294-A	SW400294-B	5.29	303 3-	Closed	1359	1246	949	166	1613	72	0	0.00	2.80	0
1411110	SW400294-A	6.02	303 3-	1/0 ACSR	1176	1083	816	162	1613	72	32	0.76	3.56	1174
1411090	1411110	6.48	294 3-	1/0 ACSR	1082	1000	749	160	1567	71	31	0.47	4.03	722
1411093	1411090	6.75	285 3-	1/0 ACSR	1033	956	715	159	1561	71	31	0.28	4.31	431
1411094	1411093	6.80	285 3-	1/0 ACSR	1025	949	710	158	1557	71	31	0.06	4.36	74
1411096	1411094	7.08	169 3-	1/0 ACSR	980	907	677	157	732	33	15	0.16	4.52	100
OC400340	1411096	7.08	169 3-	REC_50_UNK	980	907	677	157	731	33	68	0.00	4.52	0
1411113	OC400340	8.12	169 3-	1/0 ACSR	840	781	579	152	731	33	15	0.52	5.04	300
1411115	1411113	10.35	76 3-	1/0 ACSR	641	600	441	143	291	13	6	0.33	5.38	64
1411081	1411115	10.36	20 1-	6 ACWC	0	0	440	143	90	12	9	0.00	5.38	0
SW400295-B	1411081	10.36	20 1-	Closed	0	0	440	143	90	12	0	0.00	5.38	0
SW400295-A	SW400295-B	10.36	20 1-	Closed	0	0	440	143	90	12	0	0.00	5.38	0
1411082	SW400295-A	11.46	20 1-	6 ACWC	0	0	375	134	90	12	9	0.34	5.72	19
1411083	1411082	11.48	2 1-	4 ACSR	0	0	374	134	9	1	1	0.00	5.72	0
1411084	1411083	11.71	1 1-	6 ACWC	0	0	363	133	6	0	1	0.00	5.72	0
1412018	1411113	8.25	52 3-	1/0 ACSR	825	768	569	152	265	12	5	0.03	5.07	6
OC400346	1412018	8.25	49 3-	35-H	825	768	569	152	242	11	32	0.00	5.07	0
1412010	OC400346	8.35	49 3-	1/0 ACSR	814	758	562	151	242	11	5	0.02	5.09	4
1412009	1412010	8.35	3 3-	1/0 ACSR	814	757	561	151	27	1	1	0.00	5.09	0
1412016	1412009	8.36	1 1-	1/0 URD PRI AL	0	0	561	299	16	2	1	0.00	5.09	0
1412011	1412010	8.35	43 3-	1/0 ACSR	814	757	561	151	189	8	4	0.00	5.09	0
1412012	1412011	9.49	43 2-	1/0 ACSR	0	656	489	146	189	13	6	0.17	5.26	19
1412015	1412012	10.27	7 1-	1/0 ACSR	0	0	449	143	32	4	2	0.04	5.29	0
1411111	1411094	7.20	116 3-	1/0 ACSR	961	891	664	157	824	38	17	0.25	4.62	175
1411092	1411111	7.26	2 1-	6 ACWC	0	0	655	156	9	1	1	0.00	4.62	0
1411112	1411111	7.27	109 3-	1/0 ACSR	951	881	657	156	784	36	16	0.04	4.66	29
OC400343	1411112	7.27	109 3-	REC_35_UNK	951	881	657	156	783	36	104	0.00	4.66	0
1411095	OC400343	9.64	109 3-	1/0 ACSR	694	649	483	146	783	36	16	0.85	5.51	414
1412013	1411095	10.35	14 1-	6 ACWC	0	0	431	140	138	19	14	0.51	6.01	56
1412014	1412013	10.82	9 1-	4 ACSR	0	0	401	137	92	12	9	0.14	6.15	8
CA400015	1411093	6.75	0 3-	Capacitor	1033	956	715	159	0	-14	0	0.00	4.31	0
1411107	1411106	4.29	0 3-	336.4 ACSR	1683	1533	1197	170	0	0	0	0.00	1.86	0
SW400003-B	1411107	4.29	0 3-	Open	1683	1533	1197	170	0	0	0	0.00	1.86	0
CKT 134 total losses:		\$8,610												
SUB 26, CKT 144														
CLIC_144	CLAY_LICK	0.00	607 3-	SBS_99_UNK	5202	5546	5529	179	4393	195	0	0.00	0.00	0
1511067	CLIC_144	1.14	607 3-	336.4 ACSR	3361	3184	2905	177	4393	195	37	1.26	1.26	3986
1411157	1511067	2.75	490 3-	336.4 ACSR	2227	2062	1727	174	3448	154	29	1.32	2.57	3472
1411097	1411157	3.13	445 3-	1/0 ACSR	1980	1833	1503	172	3137	141	62	0.82	3.39	2255
1411098	1411097	3.25	438 3-	1/0 ACSR	1912	1771	1444	172	2969	136	59	0.27	3.66	682
1411104	1411098	3.29	278 3-	1/0 ACSR	1887	1749	1423	171	1913	88	38	0.07	3.73	107
OC400391	1411104	3.29	278 3-	REC_70_UNK	1887	1749	1423	171	1912	88	126	0.00	3.73	0
1411105	OC400391	3.85	278 3-	1/0 ACSR	1625	1508	1201	168	1912	88	38	0.79	4.52	1236
1410041	1411105	4.64	215 3-	1/0 ACSR	1348	1255	979	165	1405	65	28	0.86	5.38	1021
1410061	1410041	4.73	41 1-	4 ACSR	0	0	950	164	216	30	22	0.12	5.50	24
1410062	1410061	4.74	41 1-	6 ACWC	0	0	948	164	216	30	22	0.01	5.51	2
OC400397	1410062	4.74	41 1-	REC_35_UNK	0	0	948	164	216	30	86	0.00	5.51	0
1410063	OC400397	4.95	41 1-	6 ACWC	0	0	888	162	216	30	22	0.26	5.77	50
1410064	1410063	5.07	37 1-	4 ACSR	0	0	856	160	190	26	19	0.13	5.90	22
1410065	1410064	5.67	28 1-	6 ACWC	0	0	724	155	157	22	16	0.44	6.34	52
1410066	1410065	5.80	15 1-	4 ACSR	0	0	701	154	78	10	8	0.06	6.40	4

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1410067	1410066	6.14	14 1-	2 ACSR	0	0	655	152	78	10	6	0.06	6.47	3
1410068	1410067	6.27	2 1-	4 ACSR	0	0	635	151	10	1	1	0.00	6.47	0
1410042	1410041	5.05	166 3-	1/0 ACSR	1238	1154	892	162	1140	53	23	0.37	5.75	361
1410043	1410042	5.18	162 3-	1/0 ACSR	1206	1125	868	162	1102	51	22	0.11	5.86	107
OC400395	1410043	5.18	161 3-	REC_35_UNK	1206	1125	868	162	1093	51	146	0.00	5.86	0
1410044	OC400395	5.52	161 3-	1/0 ACSR	1131	1056	811	160	1093	51	22	0.28	6.14	260
1410049	1410044	7.60	62 1-	4 ACSR	0	0	501	142	405	57	41	3.85	9.98	1157
1410055	1410049	7.86	25 1-	4 ACSR	0	0	478	140	140	20	15	0.23	10.22	31
OC400396	1410055	7.86	25 1-	REC_25_UNK	0	0	478	140	140	20	82	0.00	10.22	0
1410056	OC400396	9.96	25 1-	4 ACSR	0	0	345	126	140	20	15	0.95	11.17	84
1410050	1410049	7.79	4 1-	4 ACSR	0	0	485	141	34	5	4	0.04	10.03	1
1410051	1410050	8.15	4 1-	6 ACWC	0	0	455	138	34	5	4	0.05	10.08	1
1410054	1410051	8.30	2 1-	4 ACSR	0	0	443	137	9	1	1	0.00	10.08	0
1410046	1410044	5.65	92 2-	1/0 ACSR	0	1031	791	160	622	43	19	0.11	6.25	59
1410059	1410046	6.57	31 1-	6 ACWC	0	0	630	151	198	27	20	0.95	7.20	152
1510104	1410059	7.26	19 1-	4 ACSR	0	0	542	146	132	18	13	0.29	7.49	23
1410047	1410046	7.36	61 2-	1/0 ACSR	0	780	595	152	424	29	13	0.70	6.95	203
1410038	1410047	7.77	20 1-	6 ACWC	0	0	548	148	138	19	14	0.34	7.29	41
1410039	1410038	8.38	18 1-	4 ACSR	0	0	488	143	126	17	13	0.42	7.71	43
1410040	1410039	9.50	12 1-	6 ACWC	0	0	406	135	87	12	9	0.31	8.01	16
1410048	1410047	7.43	6 2-	1/0 ACSR	0	772	589	151	35	2	1	0.00	6.96	0
1410058	1410048	7.82	6 1-	4 ACSR	0	0	545	148	35	4	4	0.04	7.00	0
SW400406-A	1410058	7.82	0 1-	Open	0	0	545	148	0	0	0	0.00	7.00	0
1410037	1410042	5.31	3 1-	4 ACSR	0	0	827	160	35	4	4	0.03	5.77	0
1410052	1411105	3.85	48 1-	4 ACSR	0	0	1198	168	327	45	32	0.01	4.53	3
OC400392	1410052	3.85	48 1-	REC_35_UNK	0	0	1198	168	327	45	130	0.00	4.53	0
1411159	OC400392	4.23	48 1-	4 ACSR	0	0	1041	165	327	45	32	0.65	5.18	171
1411123	1411159	4.76	19 1-	4 ACSR	0	0	871	159	134	18	13	0.22	5.40	18
SW400408-B	1411123	4.76	0 1-	Open	0	0	871	159	0	0	0	0.00	5.40	0
1410080	1411159	5.15	18 1-	4 ACSR	0	0	775	156	90	12	9	0.26	5.43	14
1411099	1411098	3.62	159 3-	1/0 ACSR	1725	1602	1290	170	1046	48	21	0.27	3.93	221
OC400400	1411099	3.62	140 3-	REC_50_UNK	1725	1602	1290	170	829	38	76	0.00	3.93	0
1411100	OC400400	3.73	140 3-	1/0 ACSR	1675	1556	1250	169	829	38	17	0.07	4.00	50
1411101	1411100	4.39	137 3-	1/0 ACSR	1427	1331	1055	166	821	37	16	0.36	4.36	224
1411102	1411101	4.60	48 3-	1/0 ACSR	1362	1272	1004	165	378	17	8	0.06	4.42	19
1411103	1411102	4.76	6 3-	1/0 ACSR	1314	1228	967	164	21	0	0	0.00	4.42	0
1411144	1411103	4.85	4 1-	4 ACSR	0	0	940	163	8	1	1	0.00	4.42	0
SW400401-B	1411103	4.76	0 1-	Open	0	0	967	164	0	0	0	0.00	4.42	0
1411087	1411102	4.81	36 1-	4 ACSR	0	0	935	163	326	45	32	0.37	4.79	100
1411089	1411087	5.24	11 1-	4 ACSR	0	0	821	159	119	16	12	0.16	4.95	11
1411088	1411087	5.17	14 1-	4 ACSR	0	0	838	159	118	16	12	0.13	4.92	9
1411141	1411101	4.76	35 1-	4 ACSR	0	0	931	162	202	28	20	0.43	4.79	75
1410082	1411141	5.77	21 1-	4 ACSR	0	0	694	153	113	15	11	0.36	5.15	24
1410081	1411141	5.46	9 1-	4 ACSR	0	0	753	156	61	8	6	0.13	4.92	5
1411121	1411100	3.74	0 1-	4 ACSR	0	0	1247	169	0	0	0	0.00	4.00	0
SW400408-A	1411121	3.74	0 1-	Open	0	0	1247	169	0	0	0	0.00	4.00	0
CA400018	1411097	3.13	0 3-	Capacitor	1980	1833	1503	172	0	-14	0	0.00	3.39	0
1511085	1511067	1.33	81 1-	4 ACSR	0	0	2499	175	612	82	59	0.71	1.96	377
OC400388	1511085	1.33	80 1-	REC_50_UNK	0	0	2499	175	604	82	165	0.00	1.96	0
1510103	OC400388	3.14	80 1-	4 ACSR	0	0	941	157	604	82	59	3.64	5.61	1358
1510086	1510103	3.27	5 1-	6 ACWC	0	0	899	156	58	8	6	0.04	5.65	2
1410057	1510086	3.66	4 1-	4 ACSR	0	0	790	153	52	7	5	0.06	5.71	2

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES CONS	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
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 SUB 26 total losses: \$49,293

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES CONS	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 27	CHAPLIN		1		25395	26479	26577	180	1399					
SUB 27,	CKT 114													
	CHAP_114	CHAPLIN 0.00	1 3-	SBS_99_UNK	25395	26479	26577	180	1399	67	0	0.00	0.00	0
	1507006	CHAP_114 0.01	1 3-	336.4 ACSR	25069	25955	26025	180	1399	67	13	0.00	0.00	3
	1507999	1507006 0.01	1 3-	Consumer	25069	25955	26025	180	1399	67	0	0.00	0.00	0
CKT 114	total losses:	\$3												
SUB 27	total losses:	\$3												

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 31	BRACKEN_COUNTY		1764		5611	5860	5894	180	6608					
SUB 31,	CKT 104													
BRAK_104	BRACKEN_COUNTY	0.00	644 3-	SBS_99_UNK	5611	5860	5894	180	2445	109 0	0.00	0.00	0.00	0
0419042	BRAK_104	0.17	644 3-	336.4 ACSR	5165	5187	5163	179	2445	109 21	0.12	0.12	0.12	199
0419037	0419042	0.19	59 1-	4 ACSR	0	0	5027	179	202	27 19	0.03	0.15	0.15	5
OC145075	0419037	0.19	59 1-	REC_70_UNK	0	0	5027	179	202	27 39	0.00	0.15	0.15	0
0418053	OC145075	2.74	59 1-	4 ACSR	0	0	872	154	202	27 19	2.02	2.17	2.17	274
0418028	0418053	2.79	1 1-	2 ACSR	0	0	861	154	13	1 1	0.00	2.17	2.17	0
0418029	0418053	3.78	23 1-	6 ACWC	0	0	643	146	50	6 5	0.23	2.39	2.39	8
0318041	0418029	5.95	14 1-	4 ACSR	0	0	413	130	23	3 2	0.15	2.54	2.54	2
0319041	0419042	0.96	582 3-	336.4 ACSR	3763	3583	3205	178	2221	99 19	0.49	0.61	0.61	752
0319029	0319041	1.02	446 3-	3/0 ACSR	3664	3480	3093	178	1612	72 24	0.05	0.66	0.66	60
0318042	0319029	2.48	446 3-	336.4 ACSR	2444	2251	1831	175	1612	72 14	0.63	1.29	1.29	687
0318025	0318042	4.83	327 3-	4 ACSR	933	916	721	152	1107	49 36	4.09	5.38	5.38	3795
0318028	0318025	4.87	133 3-	4 ACSR	920	904	712	151	401	18 13	0.04	5.42	5.42	13
OC145066	0318028	4.87	133 3-	REC_70_UNK	920	904	712	151	401	18 27	0.00	5.42	5.42	0
0318029	OC145066	5.48	133 3-	4 ACSR	781	773	610	146	401	18 13	0.42	5.83	5.83	149
0318030	0318029	5.71	108 3-	4 ACSR	739	732	579	145	306	14 10	0.13	5.96	5.96	36
0318031	0318030	7.56	85 3-	4 ACSR	511	512	407	131	219	10 7	0.52	6.47	6.47	85
0317010	0318031	8.73	44 1-	4 ACSR	0	0	343	124	73	10 7	0.27	6.74	6.74	12
0317008	0318031	8.05	6 3-	4 ACSR	473	474	377	128	12	0 0	0.01	6.48	6.48	0
SW145797-A	0317008	8.05	0 3-	Open	473	474	377	128	0	0 0	0.00	6.48	6.48	0
0318035	0318030	5.82	22 1-	4 ACSR	0	0	565	144	82	11 8	0.06	6.02	6.02	4
OC145072	0318035	5.82	22 1-	REC_50_UNK	0	0	565	144	82	11 23	0.00	6.02	6.02	0
0318036	OC145072	6.12	22 1-	4 ACSR	0	0	529	141	82	11 8	0.15	6.17	6.17	11
0318037	0318036	8.10	21 1-	6 ACWC	0	0	376	128	77	10 8	0.53	6.70	6.70	26
0317004	0318037	8.28	2 1-	4 ACSR	0	0	366	127	9	1 1	0.01	6.70	6.70	0
0318033	0318029	5.53	16 1-	6 ACWC	0	0	602	146	46	6 5	0.02	5.85	5.85	0
OC145071	0318033	5.53	16 1-	REC_25_UNK	0	0	602	146	46	6 26	0.00	5.85	5.85	0
0318034	OC145071	7.52	16 1-	6 ACWC	0	0	412	132	46	6 5	0.28	6.13	6.13	8
0318026	0318025	5.37	123 3-	1/0 ACSR	860	842	658	149	436	20 9	0.18	5.57	5.57	69
OC145069	0318026	5.37	123 3-	REC_50_UNK	860	842	658	149	436	20 41	0.00	5.57	5.57	0
0318027	OC145069	8.20	123 3-	1/0 ACSR	610	592	452	138	436	20 9	0.70	6.27	6.27	217
0218007	0318027	8.33	41 1-	4 ACSR	0	0	441	137	103	14 10	0.08	6.35	6.35	8
OC145070	0218007	8.33	40 1-	REC_25_UNK	0	0	441	137	96	13 54	0.00	6.35	6.35	0
0218008	OC145070	8.84	40 1-	4 ACSR	0	0	406	134	96	13 10	0.28	6.63	6.63	23
0218006	0218008	10.67	33 1-	6 ACWC	0	0	316	122	78	10 8	0.48	7.11	7.11	23
0219009	0218006	10.84	6 1-	4 ACSR	0	0	310	121	6	0 1	0.00	7.11	7.11	0
0218005	0318027	8.65	20 1-	4 ACSR	0	0	419	135	94	13 9	0.13	6.40	6.40	8
0318024	0318042	2.77	86 3-	1/0 ACSR	2213	2023	1633	173	348	15 7	0.07	1.36	2.00	58
0318020	0318024	2.89	76 1-	4 ACSR	0	0	1540	172	297	40 29	0.22	1.58	1.58	56
0318023	0318020	2.96	2 1-	4 ACSR	0	0	1484	171	4	0 0	0.00	1.58	1.58	0
0318021	0318020	2.89	74 1-	4 ACSR	0	0	1536	172	293	39 28	0.01	1.59	1.59	3
OC145063	0318021	2.89	74 1-	REC_99_UNK	0	0	1536	172	293	39 0	0.00	1.59	1.59	0
0319040	OC145063	4.35	74 1-	4 ACSR	0	0	856	157	293	39 28	1.50	3.09	3.09	277
0319019	0319040	5.72	21 1-	6 ACWC	0	0	593	146	45	6 4	0.19	3.28	3.28	5
0319027	0319041	1.75	131 3-	1/0 ACSR	2627	2429	2036	174	578	25 11	0.29	0.91	0.91	127
OC147018	0319027	1.75	95 3-	REC_35_UNK	2627	2429	2036	174	413	18 53	0.00	0.91	0.91	0
0319028	OC147018	1.80	95 3-	1/0 ACSR	2567	2374	1981	173	413	18 8	0.02	0.92	0.92	6
0319036	0319028	4.38	50 1-	4 ACSR	0	0	683	149	236	31 23	2.22	3.14	3.14	337
0319043	0319036	5.20	9 1-	6 ACWC	0	0	561	143	49	6 5	0.12	3.26	3.26	4
0319044	0319028	4.17	44 1-	4 ACSR	0	0	723	151	169	22 16	1.21	2.13	2.13	119

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
CKT 104 total losses:		\$7,428												
SUB 31, CTK 114														
BRAK_114	BRACKEN_COUNTY	0.00	1120 3-	SBS_99_UNK	5611	5860	5894	180	4163	184	0	0.00	0.00	0
0419044	BRAK_114	0.23	1120 3-	336.4 ACSR	5033	5007	4961	179	4163	184	35	0.25	0.25	757
0419051	0419044	0.27	83 1-	4 ACSR	0	0	4740	179	316	42	30	0.07	0.32	20
0419052	0419051	0.40	83 1-	2 ACSR	0	0	4151	178	316	42	24	0.17	0.49	44
0419053	0419052	0.42	82 1-	4 ACSR	0	0	4049	178	310	41	30	0.04	0.53	10
OC145166	0419053	0.42	81 1-	REC_100_UNK	0	0	4049	178	302	40	41	0.00	0.53	0
0419054	OC145166	1.08	81 1-	4 ACSR	0	0	2097	170	302	40	29	1.05	1.58	254
0418038	0419054	1.19	64 1-	2 ACSR	0	0	1968	170	224	30	17	0.10	1.68	18
0418039	0418038	1.45	62 1-	4 ACSR	0	0	1652	167	211	28	20	0.33	2.00	60
0418043	0418039	3.46	25 1-	4 ACSR	0	0	717	149	96	13	9	0.82	2.82	55
0418044	0418043	3.87	7 1-	2 ACSR	0	0	659	147	38	5	3	0.03	2.86	0
0418040	0418039	2.43	35 1-	4 ACSR	0	0	1012	158	112	15	11	0.57	2.58	51
0418041	0418040	3.23	26 1-	2 ACSR	0	0	816	153	80	10	6	0.18	2.76	10
0418042	0418041	4.57	13 1-	4 ACSR	0	0	570	142	30	4	3	0.12	2.88	2
0419045	0419044	1.28	1034 3-	336.4 ACSR	3388	3197	2841	177	3835	170	32	1.00	1.25	2836
0419047	0419045	1.43	551 3-	4 ACSR	3071	2882	2519	176	2033	90	65	0.54	1.78	1004
0419048	0419047	1.44	551 3-	1/0 ACSR	3062	2874	2511	176	2024	90	39	0.01	1.79	15
OC145169	0419048	1.44	551 3-	REC_100_UNK	3062	2874	2511	176	2024	90	91	0.00	1.79	0
0419049	OC145169	3.28	551 3-	1/0 ACSR	1613	1511	1192	166	2024	90	39	2.46	4.25	4452
0419065	0419049	3.29	52 1-	4 ACSR	0	0	1189	166	177	24	18	0.01	4.26	0
OC145191	0419065	3.29	52 1-	REC_99_UNK	0	0	1189	166	177	24	0	0.00	4.26	0
0419066	OC145191	3.50	52 1-	4 ACSR	0	0	1094	164	177	24	18	0.22	4.48	35
0419067	0419066	4.35	51 1-	2 ACSR	0	0	865	158	167	23	13	0.57	5.05	79
0419068	0419067	5.37	40 1-	4 ACSR	0	0	650	150	147	20	15	0.91	5.96	119
0419070	0419068	5.99	25 1-	4 ACSR	0	0	563	144	92	12	9	0.31	6.28	24
0419071	0419070	6.72	19 1-	6 ACWC	0	0	486	139	68	9	7	0.29	6.57	17
0419072	0419071	8.06	16 1-	4 ACSR	0	0	387	130	60	8	6	0.25	6.82	9
0419069	0419068	7.15	11 1-	4 ACSR	0	0	448	136	47	6	5	0.26	6.23	8
0319042	0419049	5.05	464 3-	1/0 ACSR	1095	1030	787	158	1685	76	33	1.94	6.19	3101
0319020	0319042	5.20	446 3-	1/0 ACSR	1066	1004	766	157	1570	73	32	0.18	6.38	247
0319034	0319020	5.71	6 1-	6 ACWC	0	0	671	153	30	4	3	0.07	6.45	2
0319035	0319034	6.04	1 1-	4 ACSR	0	0	621	150	14	1	1	0.01	6.46	0
0319021	0319020	5.57	435 3-	1/0 ACSR	1001	943	716	155	1528	71	31	0.44	6.82	586
0319025	0319021	5.69	216 3-	1/0 ACSR	981	924	701	155	881	41	18	0.08	6.90	64
OC145172	0319025	5.69	208 3-	REC_50_UNK	981	924	701	155	841	39	79	0.00	6.90	0
0319026	OC145172	7.51	208 3-	1/0 ACSR	755	713	534	147	841	39	17	1.05	7.95	699
0320026	0319026	7.61	55 1-	4 ACSR	0	0	524	146	198	28	20	0.12	8.07	20
OC145173	0320026	7.61	44 1-	REC_99_UNK	0	0	524	146	164	23	0	0.00	8.07	0
0320024	OC145173	7.95	44 1-	4 ACSR	0	0	491	143	164	23	17	0.31	8.38	43
0320025	0320024	7.99	31 1-	2 ACSR	0	0	488	143	116	16	9	0.02	8.40	2
0320022	0320025	8.23	27 1-	4 ACSR	0	0	468	141	108	15	11	0.14	8.54	13
0320023	0320022	9.76	19 1-	6 ACWC	0	0	370	131	75	10	8	0.36	8.90	17
0320019	0319026	7.55	87 2-	2 ACSR	0	708	531	147	409	29	16	0.04	7.99	13
0320020	0320019	7.58	87 2-	4 ACSR	0	703	527	146	409	29	21	0.04	8.03	17
0420010	0320020	7.99	85 2-	2 ACSR	0	661	497	144	403	28	16	0.31	8.34	107
0420007	0420010	8.00	57 1-	4 ACSR	0	0	496	144	278	39	28	0.01	8.35	3
OC145174	0420007	8.00	57 1-	REC_70_UNK	0	0	496	144	278	39	57	0.00	8.35	0
0320028	OC145174	9.06	57 1-	4 ACSR	0	0	415	136	278	39	28	0.94	9.29	162
0420005	0420010	8.00	22 1-	4 ACSR	0	0	496	144	72	10	7	0.00	8.34	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
OC145175	0420005	8.00	22 1-	REC_70_UNK	0	0	496	144	72	10	15	0.00	8.34	0
0420006	OC145175	9.00	22 1-	4 ACSR	0	0	418	137	72	10	7	0.29	8.63	15
0320016	0420006	9.58	12 1-	2 ACSR	0	0	391	134	19	2	1	0.03	8.66	0
0320017	0320016	10.15	4 1-	4 ACSR	0	0	360	130	5	0	1	0.01	8.67	0
0320018	0320017	10.52	0 1-	6 ACWC	0	0	343	127	0	0	0	0.00	8.67	0
0319022	0319021	5.72	213 3-	1/0 ACSR	977	920	698	155	632	29	13	0.07	8.69	40
0319031	0319022	5.81	12 1-	6 ACWC	0	0	682	154	33	4	3	0.02	6.91	0
OC145176	0319031	5.81	12 1-	REC_35_UNK	0	0	682	154	33	4	13	0.00	6.91	0
0319032	OC145176	8.16	12 1-	6 ACWC	0	0	427	136	33	4	3	0.24	7.15	5
0319033	0319032	8.39	0 1-	4 ACSR	0	0	412	134	0	0	0	0.00	7.15	0
0319023	0319022	5.95	199 3-	1/0 ACSR	941	887	672	154	588	27	12	0.11	7.00	54
OC145179	0319023	5.95	195 3-	REC_70_UNK	941	887	672	154	576	27	39	0.00	7.00	0
0319024	OC145179	9.11	195 3-	1/0 ACSR	627	593	441	140	576	27	12	1.29	8.29	599
OC146965	0319024	9.11	156 3-	REC_50_UNK	627	593	441	140	442	21	42	0.00	8.29	0
0219008	OC146965	9.29	156 3-	1/0 ACSR	616	582	433	140	442	21	9	0.06	8.35	23
0219010	0219008	10.94	111 1-	6 ACWC	0	0	343	128	308	44	32	1.61	9.96	307
0219006	0219008	9.76	35 1-	2 ACSR	0	0	409	137	101	14	8	0.16	8.51	12
0219007	0219006	10.80	12 1-	6 ACWC	0	0	354	130	55	7	6	0.27	8.78	11
0320014	0219007	11.19	8 1-	2 ACSR	0	0	340	128	27	3	2	0.04	8.81	0
0320015	0320014	12.54	5 1-	6 ACWC	0	0	290	120	15	2	1	0.06	8.87	0
CA145002	0319042	5.05	0 3-	Capacitor	1095	1030	787	158	0	-13	0	0.00	6.19	0
0419039	0419045	1.59	441 3-	4 ACSR	2765	2615	2238	174	1577	71	51	0.87	2.12	1244
OC145184	0419039	1.59	438 3-	REC_70_UNK	2765	2615	2238	174	1556	70	101	0.00	2.12	0
0419040	OC145184	2.75	438 3-	4 ACSR	1443	1415	1153	162	1556	70	51	3.13	5.25	4360
0419041	0419040	3.89	351 3-	4 ACSR	948	940	764	152	1200	55	40	2.42	7.67	2652
RG145002	0419041	3.89	327 3-	219	948	943	764	152	1104	52	24	-7.67	0.00	0
0418054	RG145002	5.13	327 3-	4 ACSR	686	687	556	142	1104	49	35	2.26	2.26	2151
0418033	0418054	5.30	300 3-	2 ACSR	669	670	542	141	963	43	24	0.18	2.44	154
0418031	0418033	5.66	299 3-	4 ACSR	620	622	503	138	955	43	31	0.60	3.04	520
0418036	0418031	7.28	173 3-	1/0 ACSR	531	529	420	133	531	24	11	0.62	3.66	262
OC145189	0418036	7.28	150 3-	REC_35_UNK	531	529	420	133	450	20	59	0.00	3.66	0
0418037	OC145189	7.43	150 3-	1/0 ACSR	525	522	414	132	450	20	9	0.05	3.71	19
0418047	0418037	9.07	79 1-	4 ACSR	0	0	326	122	253	34	25	2.33	6.04	493
0418048	0418047	9.19	59 1-	2 ACSR	0	0	323	122	202	28	16	0.10	6.14	18
0418049	0418048	9.70	59 1-	4 ACSR	0	0	303	119	202	28	20	0.43	6.56	61
0418050	0418049	10.43	15 1-	2 ACSR	0	0	284	116	65	9	5	0.13	6.70	6
0417108	0418050	10.76	4 1-	4 ACSR	0	0	274	115	20	2	2	0.02	6.72	0
0418026	0418037	9.73	69 1-	4 ACSR	0	0	301	119	191	26	19	1.49	5.20	178
0418027	0418026	11.85	13 1-	2 ACSR	0	0	253	111	19	2	1	0.09	5.29	0
0417059	0418027	12.20	2 1-	4 ACSR	0	0	244	109	0	0	0	0.00	5.29	0
0418032	0418031	5.71	116 3-	2 ACSR	615	618	499	138	388	17	10	0.02	3.07	8
0418034	0418032	6.38	116 3-	4 ACSR	542	545	441	134	388	17	13	0.42	3.48	138
0518056	0418034	8.21	57 3-	4 ACSR	408	413	334	122	211	9	7	0.35	3.83	45
SW145888-A	0518056	8.21	0 3-	Open	408	413	334	122	0	0	0	0.00	3.83	0
0418045	0418034	6.38	35 1-	6 ACWC	0	0	440	133	97	13	9	0.00	3.49	0
OC145186	0418045	6.38	35 1-	REC_25_UNK	0	0	440	133	97	13	53	0.00	3.49	0
0518057	OC145186	8.88	35 1-	6 ACWC	0	0	307	119	97	13	9	0.76	4.25	45
0519003	0518057	8.95	6 1-	4 ACSR	0	0	305	118	4	0	0	0.00	4.25	0
0519004	0519003	9.84	6 1-	2 ACSR	0	0	282	115	4	0	0	0.01	4.26	0
0419055	0419040	3.14	71 1-	4 ACSR	0	0	983	158	239	33	24	0.54	5.79	111
0419063	0419055	3.19	35 1-	4 ACSR	0	0	966	158	105	14	11	0.03	5.82	3
OC145190	0419063	3.19	35 1-	REC_35_UNK	0	0	966	158	105	14	42	0.00	5.82	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
0419064	OC145190	5.99	35 1-	4 ACSR	0	0	468	136	105	14	11	0.92	6.74	59
0419056	0419055	3.45	29 1-	4 ACSR	0	0	880	156	99	13	10	0.18	5.97	16
0419057	0419056	3.62	27 1-	2 ACSR	0	0	842	155	90	12	7	0.07	6.04	5
0419058	0419057	3.63	26 1-	4 ACSR	0	0	841	155	90	12	9	0.00	6.04	0
OC145185	0419058	3.63	26 1-	REC_50_UNK	0	0	841	155	90	12	25	0.00	6.04	0
0419059	OC145185	4.33	26 1-	4 ACSR	0	0	683	149	90	12	9	0.22	6.26	12
0419060	0419059	4.35	7 1-	6 ACWC	0	0	679	148	8	1	1	0.00	6.26	0
0419061	0419060	4.45	5 1-	2 ACSR	0	0	666	148	6	0	0	0.00	6.26	0
0419062	0419061	4.99	3 1-	4 ACSR	0	0	583	144	0	0	0	0.00	6.26	0

CKT 114 total losses: \$28,601

SUB 31 total losses: \$36,029

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LIG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 32	COLEMANSVILLE		2148		5193	5425	5486	180	5901					
SUB 32,	CKT 104													
COLE_104	COLEMANSVILLE	0.00	817 3-	SBS_99_UNK	5193	5425	5486	180	2293	101 0	0.00	0.00	0.00	0
0616050	COLE_104	0.05	817 3-	336.4 ACSR	5070	5215	5266	180	2293	101 19	0.03	0.03	0.03	52
0616051	0616050	0.76	817 3-	3/0 ACSR	3531	3398	3074	177	2293	101 34	0.71	0.74	1413	
0616052	0616051	1.22	796 3-	3/0 ACSR	2923	2757	2397	175	2243	99 33	0.45	1.19	895	
0616053	0616052	2.96	667 3-	3/0 ACSR	1752	1609	1300	169	1942	86 29	1.41	2.60	2525	
0616038	0616053	3.04	378 3-	1/0 ACSR	1717	1578	1271	169	1141	51 22	0.05	2.65	62	
OC145236	0616038	3.04	378 3-	REC_70_UNK	1717	1578	1271	169	1141	51 74	0.00	2.65	0	
0615048	OC145236	3.95	378 3-	1/0 ACSR	1374	1270	994	164	1141	51 22	0.61	3.25	736	
0515038	0615048	4.94	270 3-	1/0 ACSR	1126	1046	804	159	864	39 17	0.43	3.68	443	
0515017	0515038	6.95	236 3-	1/0 ACSR	819	766	577	150	766	35 15	1.17	4.85	758	
0515018	0515017	7.06	131 3-	1/0 ACSR	807	755	568	150	516	23 10	0.04	4.90	20	
OC145243	0515018	7.06	131 3-	REC_50_UNK	807	755	568	150	516	23 48	0.00	4.90	0	
0515019	OC145243	9.45	131 3-	1/0 ACSR	610	573	426	140	516	23 10	0.80	5.69	315	
0514004	0515019	10.76	57 1-	4 ACSR	0	0	353	131	190	26 19	0.93	6.62	117	
SW145193-B	0514004	10.76	14 1-	Closed	0	0	353	131	36	5 0	0.00	6.62	0	
SW145193-A	SW145193-B	10.76	14 1-	Closed	0	0	353	131	36	5 0	0.00	6.62	0	
0514002	SW145193-A	11.73	14 1-	4 ACSR	0	0	313	124	36	5 4	0.11	6.73	2	
0515020	0515019	11.25	8 3-	2 ACSR	494	468	349	131	153	7 4	0.16	5.85	15	
0515029	0515017	7.14	95 1-	4 ACSR	0	0	555	149	225	31 22	0.26	5.11	53	
OC145240	0515029	7.14	95 1-	REC_50_UNK	0	0	555	149	224	31 63	0.00	5.11	0	
0515027	OC145240	8.22	95 1-	4 ACSR	0	0	455	140	224	31 22	1.45	6.57	288	
0515031	0515027	10.51	47 1-	4 ACSR	0	0	325	125	106	14 11	0.79	7.36	53	
0515032	0515031	10.57	1 1-	2 ACSR	0	0	324	124	5	0 0	0.00	7.36	0	
0515028	0515027	9.79	42 1-	4 ACSR	0	0	358	129	101	14 10	0.60	7.17	41	
0515030	0515028	10.05	5 1-	2 ACSR	0	0	348	128	20	2 2	0.01	7.18	0	
CA145005	0515038	4.94	0 3-	Capacitor	1126	1046	804	159	0	-14 0	0.00	3.68	0	
0615042	0615048	3.96	96 1-	4 ACSR	0	0	992	164	235	32 23	0.01	3.26	2	
OC145244	0615042	3.96	96 1-	REC_99_UNK	0	0	992	164	235	32 0	0.00	3.26	0	
0515039	OC145244	4.57	96 1-	4 ACSR	0	0	817	158	235	32 23	0.79	4.06	155	
0515024	0515039	5.54	76 1-	2 ACSR	0	0	667	152	185	25 14	0.63	4.69	91	
0515025	0515024	9.35	49 1-	4 ACSR	0	0	337	125	126	17 12	1.48	6.17	112	
0616054	0616053	3.01	275 3-	4 ACSR	1717	1581	1274	169	762	34 25	0.07	2.66	46	
OC145239	0616054	3.01	275 3-	REC_70_UNK	1717	1581	1274	169	761	34 50	0.00	2.66	0	
0516032	OC145239	4.58	275 3-	4 ACSR	978	944	742	154	761	34 25	2.12	4.79	1478	
0516022	0516032	4.89	270 3-	4 ACSR	894	868	682	151	735	34 24	0.41	5.19	276	
RG145005	0516022	4.89	263 3-	219	894	868	682	151	714	33 15	-5.19	0.00	0	
0516023	RG145005	6.67	263 3-	4 ACSR	595	587	465	137	714	31 23	2.15	2.15	1347	
0516017	0516023	6.70	236 3-	2 ACSR	592	585	462	137	663	30 17	0.03	2.17	15	
0516027	0516017	7.43	19 1-	4 ACSR	0	0	408	132	34	4 3	0.13	2.30	4	
OC145245	0516027	7.43	17 1-	REC_50_UNK	0	0	408	132	25	3 7	0.00	2.30	0	
0516028	OC145245	9.01	17 1-	4 ACSR	0	0	325	122	25	3 2	0.12	2.42	2	
0516018	0516017	7.88	214 3-	4 ACSR	483	480	381	129	620	28 20	1.28	3.45	715	
0516019	0516018	9.00	112 3-	1/0 ACSR	443	439	347	126	326	14 6	0.24	3.69	59	
0516026	0516019	10.48	82 1-	4 ACSR	0	0	288	117	225	31 22	1.40	5.09	224	
0515021	0516026	10.94	30 1-	6 ACWC	0	0	274	115	84	11 8	0.22	5.31	16	
0515022	0515021	11.25	22 1-	4 ACSR	0	0	265	113	72	10 7	0.10	5.41	5	
0515023	0515022	11.98	11 1-	2 ACSR	0	0	251	111	31	4 2	0.05	5.46	0	
0516020	0516018	9.24	90 3-	4 ACSR	397	397	316	121	270	12 9	0.56	4.01	124	
0516021	0516020	9.68	3 3-	4 ACSR	376	376	300	119	12	0 0	0.00	4.01	0	
SW145795-A	0516021	9.68	0 3-	Open	376	376	300	119	0	0 0	0.00	4.01	0	

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
0516015	0516020	9.76	58 1-	4 ACSR	0	0	297	118	175	24	17	0.53	4.53	80
OC145246	0516015	9.76	55 1-	REC_35_UNK	0	0	297	118	155	21	61	0.00	4.53	0
0416013	OC145246	14.08	55 1-	4 ACSR	0	0	197	99	155	21	15	2.06	6.60	192
0516024	0516032	4.71	3 1-	6 ACWC	0	0	716	153	13	1	1	0.01	4.80	0
0516025	0516024	4.96	2 1-	4 ACSR	0	0	671	150	11	1	1	0.01	4.80	0
0616035	0616052	1.51	125 1-	4 ACSR	0	0	1965	172	287	38	28	0.50	1.68	124
OC145232	0616035	1.51	125 1-	REC_50_UNK	0	0	1965	172	285	38	78	0.00	1.68	0
0616036	OC145232	1.84	125 1-	4 ACSR	0	0	1603	169	285	38	28	0.56	2.24	137
0616037	0616036	3.70	122 1-	2 ACSR	0	0	860	157	270	36	20	1.82	4.06	385
0615028	0616037	3.83	91 1-	4 ACSR	0	0	826	155	198	27	20	0.15	4.22	27
0615029	0615028	5.04	89 1-	2 ACSR	0	0	639	148	197	27	15	0.98	5.20	166
0615034	0615029	5.22	61 1-	2 ACSR	0	0	617	147	148	20	11	0.12	5.31	15
OC145233	0615034	5.22	61 1-	REC_99_UNK	0	0	617	147	148	20	0	0.00	5.31	0
0615035	OC145233	6.34	61 1-	2 ACSR	0	0	513	141	148	20	11	0.44	5.75	43
0515040	0615035	8.04	15 1-	4 ACSR	0	0	383	130	38	5	4	0.20	5.95	5
0615030	0615029	6.17	19 1-	2 ACSR	0	0	526	142	39	5	3	0.16	5.36	5
0615031	0615030	6.70	12 1-	4 ACSR	0	0	475	138	27	3	3	0.06	5.41	0
0615032	0615031	6.98	3 1-	2 ACSR	0	0	457	137	8	1	1	0.01	5.42	0
0615033	0615032	7.42	3 1-	4 ACSR	0	0	424	134	8	1	1	0.01	5.43	0
SW145384-B	0615030	6.17	0 1-	Open	0	0	526	142	0	0	0	0.00	5.36	0
0616056	0616051	2.84	15 1-	4 ACSR	0	0	921	156	21	2	2	0.13	0.87	2
CKT 104 total losses:		\$13,640												
SUB 32, CKT 114														
COLE_114	COLEMANSVILLE	0.00	501 3-	SBS_99_UNK	5193	5425	5486	180	1383	61	0	0.00	0.00	0
0616040	COLE_114	2.15	501 3-	336.4 ACSR	2562	2382	1974	175	1383	61	12	0.84	0.84	798
0616041	0616040	2.71	461 3-	336.4 ACSR	2259	2084	1689	174	1274	57	11	0.20	1.04	177
0616064	0616041	2.71	0 1-	4 ACSR	0	0	1684	174	0	0	0	0.00	1.04	0
SW145386-A	0616064	2.71	0 1-	Open	0	0	1684	174	0	0	0	0.00	1.04	0
0616042	0616041	3.17	459 3-	336.4 ACSR	2056	1887	1507	173	1266	57	11	0.17	1.21	146
0617052	0616042	3.48	401 3-	336.4 ACSR	1941	1777	1408	172	1146	51	10	0.10	1.31	79
0617028	0617052	3.56	396 3-	4 ACSR	1880	1714	1361	172	1134	51	37	0.16	1.47	168
OC145291	0617028	3.56	396 3-	REC_70_UNK	1880	1714	1361	172	1132	51	73	0.00	1.47	0
0617029	OC145291	3.67	396 3-	4 ACSR	1803	1654	1304	170	1132	51	37	0.21	1.68	216
RG145008	0617029	3.67	396 3-	219	1803	1654	1304	170	1131	51	23	-1.68	0.00	0
0617030	RG145008	4.12	396 3-	4 ACSR	1502	1407	1091	166	1131	50	36	0.89	0.89	898
0617031	0617030	5.93	389 3-	4 ACSR	838	817	635	149	1096	49	35	3.43	4.33	3366
0617032	0617031	7.91	363 3-	4 ACSR	548	544	427	134	996	46	33	3.45	7.77	3117
0617033	0617032	8.06	158 3-	3/0 ACSR	542	538	422	134	388	18	6	0.03	7.80	10
OC145296	0617033	8.06	158 3-	REC_35_UNK	542	538	422	134	388	18	53	0.00	7.80	0
0617034	OC145296	10.58	158 3-	3/0 ACSR	462	453	349	128	388	18	6	0.41	8.21	115
0618088	0617034	12.35	88 3-	3/0 ACSR	418	408	312	124	193	9	3	0.15	8.37	22
0618061	0618088	13.17	10 3-	3/0 ACSR	400	399	297	122	21	1	0	0.01	8.37	0
0618062	0618061	13.44	6 3-	3/0 ACSR	394	384	293	121	14	0	0	0.00	8.38	0
0618063	0618062	13.44	0 3-	1/0 ACSR	394	384	293	121	0	0	0	0.00	8.38	0
SW145249-A	0618063	13.44	0 3-	Open	394	384	293	121	0	0	0	0.00	8.38	0
0618044	0618061	13.55	0 1-	2 ACSR	0	0	288	120	0	0	0	0.00	8.37	0
0618042	0618088	12.57	54 1-	4 ACSR	0	0	304	122	109	15	11	0.16	8.52	16
OC145297	0618042	12.57	51 1-	REC_25_UNK	0	0	304	122	105	15	60	0.00	8.52	0
0618043	OC145297	14.25	51 1-	4 ACSR	0	0	254	113	105	15	11	0.56	9.08	37
0718049	0617034	11.18	11 3-	3/0 ACSR	446	436	335	126	32	1	1	0.01	8.22	0
SW145250-A	0718049	11.18	0 3-	Open	446	436	335	126	0	0	0	0.00	8.22	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
0617044	0617032	8.85	182 2-	4 ACSR	0	467	369	128	520	37	26	1.31	9.08	595
0717034	0617044	12.42	71 1-	4 ACSR	0		243	109	180	26	19	2.06	11.14	232
0617038	0617044	8.90	75 1-	4 ACSR	0	0	366	128	229	32	24	0.07	9.15	16
OC145293	0617038	8.90	75 1-	REC_35_UNK	0	0	366	128	229	32	94	0.00	9.15	0
0617039	OC145293	8.96	75 1-	4 ACSR	0	0	363	127	229	32	24	0.09	9.24	18
0617036	0617039	9.16	72 1-	6 ACWC	0	0	353	126	215	30	22	0.26	9.50	50
0617035	0617036	9.67	68 1-	4 ACSR	0	0	330	123	192	27	20	0.58	10.07	99
0717017	0617035	9.97	56 1-	6 ACWC	0	0	318	121	158	23	16	0.27	10.35	39
0717020	0717017	11.11	20 1-	6 ACWC	0	0	278	115	54	7	6	0.24	10.59	9
0718065	0717020	11.83	7 1-	4 ACSR	0	0	258	112	11	1	1	0.03	10.61	0
0717018	0717017	10.20	29 1-	6 ACWC	0	0	309	120	79	11	8	0.12	10.47	9
0717019	0717018	11.16	29 1-	4 ACSR	0	0	276	115	79	11	8	0.24	10.71	12
SW145756-A	0717019	11.16	0 1-	Open	0	0	276	115	0	0	0	0.00	10.71	0
0617027	0617031	6.00	14 1-	2 ACSR	0	0	627	149	47	6	4	0.01	4.34	0
0617025	0617027	6.01	14 1-	4 ACSR	0	0	626	149	47	6	5	0.00	4.34	0
OC145292	0617025	6.01	14 1-	REC_25_UNK	0	0	626	149	47	6	26	0.00	4.34	0
0617026	OC145292	7.31	14 1-	4 ACSR	0	0	476	139	47	6	5	0.19	4.53	5
0617037	0617030	4.21	1 1-	2 ACSR	0	0	1065	165	3	0	0	0.00	0.89	0
0616033	0616042	3.50	56 1-	4 ACSR	0	0	1312	170	114	15	11	0.22	1.42	22
OC145298	0616033	3.50	53 1-	REC_35_UNK	0	0	1312	170	111	14	43	0.00	1.42	0
0617051	OC145298	5.70	53 1-	4 ACSR	0	0	641	149	111	14	11	0.73	2.16	48
0616062	0616040	2.45	35 1-	6 ACWC	0	0	1681	172	96	12	9	0.16	1.00	13
0616063	0616062	3.15	32 1-	4 ACSR	0	0	1192	165	84	11	8	0.18	1.18	9
SW145386-B	0616063	3.15	0 1-	Open	0	0	1192	165	0	0	0	0.00	1.18	0
CKT 114 total losses:		\$10,341												
SUB 32, CKT 124														
COLE_124	COLEMANSVILLE	0.00	316 3-	SBS_99_UNK	5193	5425	5486	180	1029	45	0	0.00	0.00	0
0616045	COLE_124	0.01	316 3-	336.4 ACSR	5162	5372	5431	180	1029	45	9	0.00	0.00	3
0616046	0616045	0.07	316 3-	1/0 ACSR	4986	5084	5138	179	1029	45	20	0.04	0.05	36
0616047	0616046	1.95	316 3-	4 ACSR	1367	1358	1141	160	1029	45	33	3.27	3.32	2958
0616048	0616047	3.46	233 3-	4 ACSR	816	820	677	147	783	35	26	1.89	5.21	1262
0716039	0616048	3.58	134 3-	4 ACSR	791	795	656	146	448	20	15	0.10	5.30	41
0716066	0716039	3.60	0 1-	2 ACSR	0	0	654	146	0	0	0	0.00	5.30	0
0716040	0716039	3.59	134 3-	4 ACSR	789	794	655	146	447	20	15	0.00	5.31	2
OC145329	0716040	3.59	134 3-	70-L	789	794	655	146	447	20	30	0.00	5.31	0
0716041	OC145329	4.50	134 3-	4 ACSR	639	644	530	139	447	20	15	0.65	5.96	251
0716042	0716041	5.07	83 3-	4 ACSR	570	576	473	135	269	12	9	0.27	6.23	67
0716044	0716042	5.33	74 3-	1/0 ACSR	557	562	459	134	250	11	5	0.05	6.28	11
OC146966	0716044	5.33	74 3-	REC_35_UNK	557	562	459	134	250	11	33	0.00	6.28	0
0716045	OC146966	5.68	74 3-	1/0 ACSR	540	544	443	133	250	11	5	0.06	6.34	13
0717033	0716045	7.59	60 1-	4 ACSR	0	0	331	122	203	28	20	1.21	7.55	150
0716043	0716042	5.13	0 3-	4 ACSR	564	570	468	135	0	0	0	0.00	6.23	0
SW145299-A	0716043	5.13	0 3-	Open	564	570	468	135	0	0	0	0.00	6.23	0
0716065	0716041	5.63	18 1-	4 ACSR	0	0	428	132	72	10	7	0.25	6.21	11
0716063	0616048	3.51	41 1-	4 ACSR	0	0	669	147	156	21	16	0.05	5.25	7
OC145326	0716063	3.51	41 1-	REC_99_UNK	0	0	669	147	156	21	0	0.00	5.25	0
0716064	OC145326	5.78	41 1-	4 ACSR	0	0	417	131	156	21	16	1.10	6.35	104
SW145389-A	0716064	5.78	0 1-	Open	0	0	417	131	0	0	0	0.00	6.35	0
0616057	0616047	2.00	62 1-	4 ACSR	0	0	1113	160	163	22	16	0.05	3.37	7
0616058	0616057	2.01	60 1-	2 ACSR	0	0	1111	160	135	18	10	0.00	3.37	0
OC145325	0616058	2.01	60 1-	REC_50_UNK	0	0	1111	160	135	18	37	0.00	3.37	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES CONS	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS

SUB 32	total losses:		\$32,551											

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 33	FOUR_OAKS				4932	5203	5255	180	8225					
SUB 33,	CKT 114		2062											
4OAK_114	FOUR_OAKS	0.00	211 3-	SBS_99_UNK	4932	5203	5255	180	752	33 0	0.00	0.00	0.00	0
0517053	4OAK_114	0.01	211 3-	3/0 ACSR	4906	5159	5211	180	752	33 11	0.00	0.00	0.00	2
0517054	0517053	0.31	211 3-	1/0 ACSR	4102	4057	3911	178	752	33 15	0.18	0.18	0.18	108
0517056	0517054	2.54	176 3-	1/0 ACSR	1684	1576	1272	167	655	29 13	1.08	1.26	1.26	553
OC145791	0517056	2.54	152 3-	REC_99_UNK	1684	1576	1272	167	583	26 0	0.00	1.26	1.26	0
0517057	OC145791	2.57	152 3-	1/0 ACSR	1671	1563	1260	167	583	26 12	0.01	1.27	1.27	6
0517063	0517057	3.00	69 1-	4 ACSR	0	0	1056	162	254	34 25	0.63	1.90	1.90	133
0517064	0517063	3.13	62 1-	2 ACSR	0	0	1017	162	221	30 17	0.11	2.02	2.11	161
0517065	0517064	4.20	59 1-	4 ACSR	0	0	719	152	207	28 20	1.07	3.09	3.09	266
0417105	0517065	5.19	20 1-	4 ACSR	0	0	565	144	74	10 7	0.23	3.32	3.32	10
0417102	0517065	5.31	11 1-	4 ACSR	0	0	550	143	40	5 4	0.14	3.23	3.23	3
0517040	0517057	4.68	74 1-	4 ACSR	0	0	632	148	304	41 30	3.33	4.60	4.60	788
0517041	0517040	5.32	50 1-	2 ACSR	0	0	564	144	203	28 16	0.55	5.15	5.15	92
0517043	0517041	5.50	13 1-	4 ACSR	0	0	542	143	64	9 6	0.07	5.22	5.22	4
SW145774-A	0517043	5.50	11 1-	Closed	0	0	542	143	58	8 0	0.00	5.22	5.22	0
SW145774-B	SW145774-A	5.50	11 1-	Closed	0	0	542	143	58	8 0	0.00	5.22	5.22	0
0517044	SW145774-B	5.59	11 1-	4 ACSR	0	0	533	142	58	8 6	0.01	5.24	5.24	0
0516031	0517041	7.76	34 1-	6 ACWC	0	0	368	127	121	16 12	0.93	6.08	6.07	67
0517085	0517057	3.05	9 1-	2 ACSR	0	0	1077	163	25	3 2	0.04	1.31	1.31	0
0516033	0517085	4.54	6 1-	6 ACWC	0	0	675	150	11	1 1	0.05	1.36	1.36	0
0517071	0517054	0.32	34 1-	2 ACSR	0	0	3890	178	95	12 7	0.00	0.18	0.18	0
OC145788	0517071	0.32	34 1-	REC_99_UNK	0	0	3890	178	95	12 0	0.00	0.18	0.18	0
0517072	OC145788	2.61	34 1-	2 ACSR	0	0	1114	162	95	12 7	0.71	0.89	0.89	47
0517070	0517072	3.01	4 1-	4 ACSR	0	0	952	158	28	3 3	0.03	0.92	0.92	0
0517068	0517072	3.62	9 1-	2 ACSR	0	0	839	156	22	3 2	0.06	0.95	0.95	0
0517069	0517068	3.73	2 1-	4 ACSR	0	0	809	155	6	0 1	0.00	0.95	0.95	0
CKT 114	total losses:	\$2,000												
SUB 33,	CKT 124													
4OAK_124	FOUR_OAKS	0.00	1017 3-	SBS_99_UNK	4932	5203	5255	180	4139	184 0	0.00	0.00	0.00	0
0517047	4OAK_124	0.01	1017 3-	336.4 ACSR	4915	5174	5226	180	4139	184 35	0.01	0.01	0.01	26
0517046	0517047	3.56	956 3-	336.4 ACSR	1875	1717	1369	172	3930	175 33	3.15	3.16	3.16	8143
0417097	0517046	3.61	149 3-	1/0 ACSR	1849	1692	1347	172	463	21 9	0.02	3.17	3.17	7
OC145870	0417097	3.61	149 3-	70-L	1849	1692	1347	172	463	21 30	0.00	3.17	3.17	0
0417098	OC145870	4.74	149 3-	1/0 ACSR	1402	1288	994	166	463	21 9	0.41	3.58	3.58	156
0417065	0417098	5.72	71 1-	4 ACSR	0	0	747	157	234	32 23	1.34	4.93	4.93	268
0417072	0417065	6.68	43 1-	8 ACWC	0	0	552	145	138	19 19	1.04	5.97	5.97	119
0417073	0417072	6.75	29 1-	4 ACSR	0	0	544	144	93	13 9	0.04	6.00	6.00	3
0417074	0417073	7.17	25 1-	6 ACWC	0	0	501	141	78	11 8	0.20	6.20	6.20	14
0417075	0417074	7.48	21 1-	1/0 ACSR	0	0	483	140	72	10 4	0.06	6.26	6.26	3
0417076	0417075	8.08	15 1-	8 ACWC	0	0	420	134	54	7 8	0.23	6.49	6.49	10
0417060	0417076	8.63	6 1-	2 ACSR	0	0	393	131	27	3 2	0.03	6.52	6.52	0
0417066	0417065	5.84	21 1-	4 ACSR	0	0	723	155	66	9 7	0.05	4.98	4.98	3
0417067	0417066	5.86	21 1-	6 ACWC	0	0	718	155	66	9 7	0.01	4.99	4.99	0
0417068	0417067	5.90	20 1-	4 ACSR	0	0	712	155	55	7 5	0.01	5.00	5.00	0
0417069	0417068	5.91	17 1-	8 ACWC	0	0	710	155	38	5 5	0.00	5.00	5.00	0
OC145881	0417069	5.91	17 1-	REC_99_UNK	0	0	710	155	38	5 0	0.00	5.00	5.00	0
0417070	OC145881	7.00	17 1-	8 ACWC	0	0	512	142	38	5 5	0.19	5.20	5.20	5
0417071	0417070	7.39	1 1-	4 ACSR	0	0	475	139	0	0 0	0.00	5.20	5.20	0
0417109	0417098	4.96	70 1-	4 ACSR	0	0	929	164	212	29 21	0.29	3.87	3.87	54

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Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
OC145880	0417109	4.96	70 1-	REC_35_UNK	0	0	929	164	212	29	84	0.00	3.87	0
0417110	OC145880	5.47	70 1-	4 ACSR	0	0	798	159	212	29	21	0.67	4.54	124
0417114	0417110	5.95	56 1-	1/0 ACSR	0	0	733	157	178	24	11	0.26	4.80	37
0417115	0417114	7.47	54 1-	4 ACSR	0	0	520	144	173	24	17	0.83	5.63	86
0417111	0417110	5.62	11 1-	4 ACSR	0	0	767	158	21	2	2	0.02	4.56	0
0417112	0417111	5.85	11 1-	6 ACWC	0	0	721	155	21	2	2	0.02	4.58	0
0417113	0417112	5.99	3 1-	4 ACSR	0	0	696	154	6	0	1	0.00	4.58	0
0417080	0517046	3.89	592 3-	336.4 ACSR	1771	1617	1279	171	2289	103	20	0.18	3.34	350
0417085	0417080	4.05	590 3-	336.4 ACSR	1726	1575	1241	171	2284	105	20	0.11	3.45	167
0417078	0417085	4.08	20 2-	2 ACSR	0	1557	1228	171	72	5	3	0.00	3.45	0
0417104	0417078	4.16	9 1-	4 ACSR	0	0	1192	170	46	6	5	0.01	3.46	0
0417086	0417085	4.09	562 3-	336.4 ACSR	1715	1564	1232	171	2185	101	19	0.03	3.47	39
OC145873	0417086	4.09	562 3-	REC_100_UNK	1715	1564	1232	171	2185	101	101	0.00	3.47	0
0417087	OC145873	4.11	562 3-	336.4 ACSR	1708	1557	1226	171	2185	101	19	0.02	3.49	26
0417062	0417087	4.52	86 1-	4 ACSR	0	0	1059	167	398	55	39	0.67	4.16	182
0417063	0417062	4.67	28 1-	2 ACSR	0	0	1017	166	121	16	9	0.06	4.22	5
0417116	0417063	5.07	14 1-	1/0 URD PRI AL	0	0	937	362	59	8	5	0.05	4.27	2
0417064	0417116	5.19	0 1-	4 ACSR	0	0	903	162	0	0	0	0.00	4.27	0
SW145983-B	0417064	5.19	0 1-	Open	0	0	903	162	0	0	0	0.00	4.27	0
0417088	0417087	4.29	472 3-	336.4 ACSR	1659	1512	1185	171	1777	82	16	0.09	3.58	106
0417081	0417088	4.37	408 3-	1/0 ACSR	1629	1482	1163	170	1548	71	31	0.09	3.67	109
0417082	0417081	4.62	349 3-	4 ACSR	1496	1376	1067	168	1370	63	45	0.63	4.30	790
0417083	0417082	5.40	349 3-	4 ACSR	1153	1089	834	160	1363	63	45	1.94	6.24	2453
0417106	0417083	5.47	49 1-	4 ACSR	0	0	817	159	146	20	15	0.07	6.31	9
OC145875	0417106	5.47	49 1-	REC_35_UNK	0	0	817	159	146	20	59	0.00	6.31	0
0416014	OC145875	8.13	49 1-	4 ACSR	0	0	450	137	146	20	15	1.39	7.70	130
0416010	0416014	8.56	5 1-	6 ACWC	0	0	420	134	17	2	2	0.02	7.72	0
0417084	0417083	5.90	299 3-	4 ACSR	990	947	726	155	1196	56	40	-1.10	7.34	1226
RG145018	0417084	5.90	291 3-	219	990	947	726	155	1153	54	25	-7.34	0.00	0
0417089	RG145018	6.51	291 3-	4 ACSR	838	810	623	150	1153	51	37	1.15	1.15	1123
0417092	0417089	6.59	80 3-	4 ACSR	821	795	612	149	408	18	13	0.06	1.21	21
0416007	0417092	6.59	76 3-	6 ACWC	821	795	612	149	403	18	13	0.00	1.21	0
OC145884	0416007	6.59	76 3-	REC_50_UNK	821	795	612	149	403	18	37	0.00	1.21	0
0416008	OC145884	7.42	76 3-	6 ACWC	680	665	514	143	403	18	13	0.53	1.74	181
0416009	0416008	10.51	65 3-	4 ACSR	406	404	318	122	325	14	11	0.90	2.64	177
SW145795-B	0416009	10.51	0 3-	Open	406	404	318	122	0	0	0	0.00	2.64	0
0416006	0417092	6.95	4 1-	4 ACSR	0	0	566	146	5	0	1	0.01	1.21	0
0417093	0417089	6.61	174 3-	4 ACSR	817	791	609	149	546	24	18	0.09	1.25	47
0417094	0417093	6.62	173 3-	6 ACWC	816	790	608	149	545	24	18	0.01	1.25	3
OC145878	0417094	6.62	173 3-	REC_50_UNK	816	790	608	149	545	24	49	0.00	1.25	0
0417090	OC145878	6.93	173 3-	6 ACWC	758	737	569	146	545	24	18	0.28	1.53	130
0417091	0417090	7.83	153 3-	6 ACWC	626	615	477	140	451	20	15	0.69	2.22	278
0417095	0417091	9.22	140 3-	4 ACSR	489	485	379	130	422	19	14	0.95	3.17	341
0417077	0417095	10.42	32 2-	4 ACSR	0	408	322	123	115	7	6	0.20	3.38	14
0417100	0417095	9.24	37 1-	2 ACSR	0	0	378	130	98	13	8	0.01	3.18	0
OC145879	0417100	9.24	37 1-	REC_99_UNK	0	0	378	130	98	13	0	0.00	3.18	0
0317009	OC145879	10.64	37 1-	2 ACSR	0	0	327	124	98	13	8	0.32	3.50	18
0317003	0317009	11.12	5 1-	4 ACSR	0	0	308	121	8	1	1	0.01	3.51	0
0417096	0417095	11.73	36 3-	4 ACSR	350	350	276	115	121	5	4	0.27	3.45	20
SW145797-B	0417096	11.73	0 3-	Open	350	350	276	115	0	0	0	0.00	3.45	0
0417103	0417090	7.02	5 1-	4 ACSR	0	0	557	146	20	2	2	0.01	1.53	0
SW145796-A	0417103	7.02	1 1-	Closed	0	0	557	146	0	0	0	0.00	1.53	0

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Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW145796-B	SW145796-A	7.02	1 1-	Closed	0	0	557	146	0	0	0	0.00	1.53	0
0417099	SW145796-B	7.04	1 1-	4 ACSR	0	0	555	145	0	0	0	0.00	1.53	0
0417061	0417082	4.62	0 1-	4 ACSR	0	0	1065	167	0	0	0	0.00	4.30	0
SW145983-A	0417061	4.62	0 1-	Open	0	0	1065	167	0	0	0	0.00	4.30	0
CA145022	0417080	3.89	0 3-	Capacitor	1771	1617	1279	171	0	-14	0	0.00	3.34	0
0517048	0517047	0.50	61 3-	4 ACSR	3230	3138	2921	174	208	9	7	0.16	0.16	26
0517062	0517048	0.51	40 1-	2 ACSR	0	0	2907	174	146	19	11	0.00	0.17	0
OC145874	0517062	0.51	40 1-	REC_50_UNK	0	0	2907	174	146	19	39	0.00	0.17	0
0517060	OC145874	0.90	40 1-	2 ACSR	0	0	2200	171	146	19	11	0.23	0.40	27
0517059	0517060	1.12	2 1-	4 ACSR	0	0	1862	169	10	1	1	0.01	0.41	0
OC415306514	0517059	1.12	0 1-	19192	0	0	1862	169	0	0	0	0.00	0.41	0
0517078	OC415306514	1.13	0 1-	1/0 URD PRI AL	0	0	1855	406	0	0	0	0.00	0.41	0
0517058	0517060	2.90	36 1-	2 ACSR	0	0	961	158	127	17	10	0.54	0.94	38
CKT 124 total losses:		\$17,096												
SUB 33, CKT 134														
4OAK_134	FOUR_OAKS	0.00	815 3-	SBS_99_UNK	4932	5203	5255	180	2741	124	0	0.00	0.00	0
0517055	4OAK_134	1.18	815 3-	3/0 ACSR	2871	2717	2391	175	2741	124	41	1.74	1.74	3469
0517066	0517055	1.23	43 1-	4 ACSR	0	0	2301	175	130	17	13	0.04	1.79	5
OC145956	0517066	1.23	43 1-	REC_99_UNK	0	0	2301	175	130	17	0	0.00	1.79	0
0517067	OC145956	3.26	43 1-	4 ACSR	0	0	849	155	130	17	13	0.82	2.60	62
0517049	0517055	1.57	747 3-	3/0 ACSR	2503	2339	2010	174	2500	114	38	0.55	2.29	1014
0517074	0517049	1.58	65 1-	4 ACSR	0	0	2003	174	177	24	17	0.01	2.30	0
OC145957	0517074	1.58	65 1-	REC_99_UNK	0	0	2003	174	177	24	0	0.00	2.30	0
0517075	OC145957	2.52	65 1-	4 ACSR	0	0	1209	164	177	24	17	0.99	3.29	149
0517077	0517075	4.25	40 1-	4 ACSR	0	0	672	149	104	14	10	1.11	4.39	101
0518050	0517077	5.96	14 1-	4 ACSR	0	0	463	136	53	7	5	0.28	4.68	9
0517084	0517077	6.40	20 1-	4 ACSR	0	0	428	133	47	6	5	0.32	4.71	9
0518058	0517075	3.24	19 1-	4 ACSR	0	0	912	157	56	7	6	0.19	3.48	8
0518047	0518058	3.30	5 1-	6 ACWC	0	0	893	157	28	3	3	0.01	3.49	0
0518048	0518047	3.52	3 1-	4 ACSR	0	0	830	155	22	3	2	0.02	3.50	0
0517050	0517049	3.45	678 3-	3/0 ACSR	1543	1420	1138	167	2300	105	35	2.35	4.64	4038
0518034	0517050	3.93	402 3-	3/0 ACSR	1405	1293	1025	166	1292	60	20	0.34	4.98	338
0518031	0518034	4.17	342 3-	336.4 ACSR	1360	1251	986	165	1153	54	10	0.09	5.07	70
SW145887-A	0518031	4.17	342 3-	Closed	1360	1251	986	165	1153	54	0	0.00	5.07	0
SW145887-B	SW145887-A	4.17	342 3-	Closed	1360	1251	986	165	1153	54	0	0.00	5.07	0
0518032	SW145887-B	4.46	342 3-	336.4 ACSR	1312	1206	946	164	1153	54	10	0.10	5.17	79
0518029	0518032	4.51	333 3-	3/0 ACSR	1300	1195	936	164	1126	52	18	0.03	5.20	29
0618089	0518029	5.44	333 3-	336.4 ACSR	1165	1070	825	162	1126	52	10	0.32	5.53	249
0618064	0618089	5.69	324 3-	3/0 ACSR	1122	1031	795	161	1097	51	17	0.15	5.68	128
0618065	0618064	6.14	320 3-	336.4 ACSR	1070	983	753	160	1078	50	10	0.15	5.83	112
0618080	0618065	6.17	25 1-	4 ACSR	0	0	748	160	87	12	9	0.02	5.84	1
0618081	0618080	6.18	25 1-	6 ACWC	0	0	748	160	87	12	9	0.00	5.85	0
OC145962	0618081	6.18	25 1-	REC_25_UNK	0	0	748	160	87	12	49	0.00	5.85	0
0618082	OC145962	8.13	25 1-	6 ACWC	0	0	494	143	87	12	9	0.54	6.39	28
0618067	0618065	6.22	288 3-	336.4 ACSR	1062	975	746	160	979	46	9	0.02	5.85	15
0618068	0618067	6.29	269 3-	3/0 ACSR	1052	966	739	160	908	42	14	0.03	5.89	24
0618050	0618068	6.56	264 3-	336.4 ACSR	1024	941	717	160	882	41	8	0.07	5.96	43
0618048	0618050	6.60	23 3-	336.4 ACSR	1020	937	714	159	106	4	1	0.00	5.96	0
0618049	0618048	6.72	23 3-	1/0 ACSR	1001	920	701	159	106	4	2	0.01	5.96	0
OC-2079624629	0618049	6.72	3 3-	_DefaultBayEqui	1001	920	701	159	18	0	0	0.00	5.96	0
0618059	OC-2079624629	7.32	3 3-	1/0 ACSR	914	843	639	156	18	0	0	0.00	5.97	0

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW145249-B	0618059	7.32	0 3-	Open	914	843	639	156	0	0	0	0.00	5.97	0
0618051	0618050	6.62	226 3-	4 ACSR	1010	929	708	159	723	34	24	0.08	6.03	52
OC145965	0618051	6.62	224 3-	REC_99_UNK	1010	929	708	159	722	34	0	0.00	6.03	0
0618052	OC145965	8.40	224 3-	4 ACSR	675	645	490	143	722	34	24	2.26	8.29	1480
0618053	0618052	8.52	201 3-	4 ACSR	659	630	479	143	632	30	22	0.15	8.44	88
0618045	0618053	8.94	2 1-	4 ACSR	0	0	446	139	0	0	0	0.00	8.44	0
0618054	0618053	9.12	199 3-	4 ACSR	589	568	433	138	631	30	22	0.71	9.15	424
0618056	0618054	9.93	109 3-	4 ACSR	513	498	382	132	347	16	12	0.54	9.68	180
RG145040	0618056	9.93	107 3-	219	513	498	382	132	343	16	8	-9.68	0.00	0
0618057	RG145040	10.62	107 3-	4 ACSR	462	451	347	128	343	15	11	0.36	0.36	98
0618046	0618057	10.64	82 1-	4 ACSR	0	0	346	128	241	32	23	0.03	0.39	7
OC145967	0618046	10.64	82 1-	REC_35_UNK	0	0	346	128	241	32	93	0.00	0.39	0
0619034	OC145967	12.31	82 1-	4 ACSR	0	0	283	118	241	32	23	2.09	2.48	393
0619019	0619034	13.11	61 1-	6 ACWC	0	0	260	114	167	22	16	0.58	3.06	68
0619018	0619019	16.72	34 1-	6 ACWC	0	0	191	98	64	8	6	0.71	3.77	27
0619020	0619019	13.25	1 1-	4 ACSR	0	0	257	113	3	0	0	0.00	3.06	0
0618058	0618057	10.63	0 3-	1/0 ACSR	461	451	347	128	0	0	0	0.00	0.36	0
SW146123-A	0618058	10.63	0 3-	Open	461	451	347	128	0	0	0	0.00	0.36	0
0518055	0618054	11.91	83 3-	4 ACSR	388	382	296	120	267	12	9	1.15	10.30	260
0518028	0518055	13.31	24 3-	4 ACSR	330	327	255	113	106	5	4	0.14	10.44	10
SW145888-B	0518028	13.31	0 3-	Open	330	327	255	113	0	0	0	0.00	10.44	0
0518026	0518055	11.91	24 1-	4 ACSR	0	0	296	120	60	8	6	0.00	10.30	0
OC145966	0518026	11.91	24 1-	REC_35_UNK	0	0	296	120	60	8	25	0.00	10.30	0
0519006	OC145966	14.72	24 1-	4 ACSR	0	0	223	106	60	8	6	0.56	10.86	21
SW145986-B	0618052	8.40	0 1-	Open	0	0	490	143	0	0	0	0.00	8.29	0
0518035	0518034	4.12	54 1-	4 ACSR	0	0	961	164	125	17	13	0.15	5.13	17
0518036	0518035	4.17	54 1-	2 ACSR	0	0	949	163	125	17	10	0.03	5.16	3
0518041	0518036	4.17	21 1-	2 ACSR	0	0	947	163	48	6	4	0.00	5.16	0
OC145960	0518041	4.17	21 1-	REC_35_UNK	0	0	947	163	48	6	19	0.00	5.16	0
0518044	OC145960	4.31	21 1-	2 ACSR	0	0	914	162	48	6	4	0.03	5.19	0
0518045	0518044	4.91	20 1-	4 ACSR	0	0	765	157	43	6	4	0.10	5.29	3
0518046	0518045	5.28	7 1-	6 ACSR	0	0	695	153	10	1	1	0.02	5.31	0
0518042	0518046	6.06	3 1-	4 ACSR	0	0	578	147	3	0	0	0.02	5.32	0
0518043	0518042	6.95	3 1-	6 ACWC	0	0	484	140	3	0	0	0.01	5.33	0
0518037	0518036	4.17	33 1-	2 ACSR	0	0	947	163	77	10	6	0.00	5.16	0
OC145961	0518037	4.17	33 1-	REC_35_UNK	0	0	947	163	77	10	31	0.00	5.16	0
0518038	OC145961	4.50	33 1-	2 ACSR	0	0	874	161	77	10	6	0.10	5.27	7
0518039	0518038	5.79	30 1-	4 ACSR	0	0	619	149	70	9	7	0.40	5.67	20
0518040	0518039	6.61	9 1-	6 ACWC	0	0	520	143	28	3	3	0.08	5.75	1
0618076	0518040	7.59	2 1-	4 ACSR	0	0	435	136	3	0	0	0.01	5.76	0
SW145986-A	0618076	7.59	0 1-	Open	0	0	435	136	0	0	0	0.00	5.76	0
0517082	0517050	3.53	251 3-	1/0 ACSR	1514	1394	1115	167	913	42	19	0.06	4.70	44
OC146970	0517082	3.53	248 3-	REC_50_UNK	1514	1394	1115	167	903	42	85	0.00	4.70	0
0517051	OC146970	3.62	248 3-	1/0 ACSR	1481	1365	1090	166	903	42	18	0.07	4.77	51
0517052	0517051	4.76	248 3-	3/0 ACSR	1209	1114	870	162	902	42	14	0.56	5.32	382
0517073	0517052	5.98	91 1-	4 ACSR	0	0	632	151	353	49	36	2.56	7.88	772
0617046	0517073	5.98	81 1-	2 ACSR	0	0	632	151	296	42	24	0.01	7.89	2
OC145968	0617046	5.98	81 1-	REC_35_UNK	0	0	632	151	296	42	122	0.00	7.89	0
0617047	OC145968	6.75	81 1-	2 ACSR	0	0	554	147	296	42	24	0.99	8.88	252
0617048	0617047	8.95	72 1-	4 ACSR	0	0	379	131	275	39	29	1.98	10.86	336
0517061	0517052	6.97	145 1-	4 ACSR	0	0	513	143	502	70	51	5.27	10.59	1970
0517083	0517061	7.52	6 1-	4 ACSR	0	0	463	139	27	3	3	0.05	10.64	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
0617040	0517061	7.11	75 1-	4 ACSR	0	0	499	142	207	30	22	0.19	10.78	36
OC145969	0617040	7.11	74 1-	REC_99_UNK	0	0	499	142	202	29	0	0.00	10.78	0
0617042	OC145969	7.11	4 1-	4 ACSR	0	0	499	142	13	1	1	0.00	10.78	0
0617041	OC145969	9.09	70 1-	4 ACSR	0	0	361	128	189	27	20	1.25	12.03	148
0616061	0617041	9.39	1 1-	2 ACSR	0	0	350	127	0	0	0	0.00	12.03	0
CKT 134 total losses:		\$17,132												
SUB 33, CKT 144														
40AK_144	FOUR_OAKS	0.00	19 3-	SBS_99_UNK	4932	5203	5255	180	594	27	0	0.00	0.00	0
0517045	40AK_144	3.11	19 3-	3/0 ACSR	1658	1543	1275	169	594	27	9	0.27	0.27	395
0417999	0517045	3.11	1 3-	Consumer	1658	1543	1275	169	468	21	0	0.00	0.27	0
0417079	0517045	3.12	0 3-	3/0 ACSR	1656	1541	1273	169	0	-14	5	0.00	0.27	0
CA145025	0417079	3.12	0 3-	Capacitor	1656	1541	1273	169	0	-14	0	0.00	0.27	0
CKT 144 total losses:		\$395												
SUB 33 total losses:		\$36,623												

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 34	LEES_LICK		2133		5509	5975	5947	179	12203					
SUB 34,	CKT 104													
LEES_104	LEES_LICK	0.00	593 3-	SBS_99_UNK	5509	5975	5947	179	3372	152	0	0.00	0.00	0
0916069	LEES_104	1.10	593 3-	3/0 ACSR	3110	2952	2659	176	3372	152	51	1.99	1.99	4917
0916075	0916069	2.28	575 3-	1/0 ACSR	1973	1854	1526	170	3238	148	65	2.97	4.96	7825
0916066	0916075	2.28	14 1-	6 ACWC	0	0	1521	170	48	6	5	0.00	4.97	0
OC146455	0916066	2.28	14 1-	REC_50_UNK	0	0	1521	170	48	6	13	0.00	4.97	0
0916067	OC146455	2.56	14 1-	6 ACWC	0	0	1330	167	48	6	5	0.07	5.04	3
0915104	0916067	3.03	10 1-	4 ACSR	0	0	1084	162	37	5	4	0.07	5.11	2
0915052	0915104	3.59	6 1-	6 ACWC	0	0	883	157	13	1	1	0.03	5.14	0
0915053	0915052	3.74	2 1-	4 ACSR	0	0	840	156	6	0	1	0.00	5.15	0
0816082	0916075	3.13	544 3-	1/0 ACSR	1547	1455	1159	165	3025	141	62	2.08	7.04	5301
0816046	0816082	3.14	61 1-	4 ACSR	0	0	1157	165	321	45	33	0.01	7.05	3
0816049	0816046	4.68	9 1-	4 ACSR	0	0	698	151	28	3	3	0.14	7.19	2
0815036	0816049	4.68	0 1-	UNK	0	0	697	151	0	0	0	0.00	7.19	0
SW146799-A	0815036	4.68	0 1-	Open	0	0	697	151	0	0	0	0.00	7.19	0
0816047	0816046	3.29	52 1-	4 ACSR	0	0	1087	164	293	41	30	0.29	7.34	76
OC146456	0816047	3.29	49 1-	REC_35_UNK	0	0	1087	164	286	40	116	0.00	7.34	0
0816048	OC146456	5.00	49 1-	4 ACSR	0	0	642	149	286	40	29	1.55	8.88	272
0815063	0816082	3.47	478 3-	1/0 ACSR	1424	1340	1059	164	2645	125	55	0.73	7.77	1651
RG145030	0815063	3.47	473 3-	219	1424	1340	1059	164	2619	125	57	-7.77	0.00	0
0815040	RG145030	4.27	473 3-	1/0 ACSR	1198	1129	877	160	2619	117	51	1.58	1.58	3351
0815041	0815040	5.13	464 3-	1/0 ACSR	1022	964	741	156	2520	114	50	1.66	3.24	3429
0815039	0815041	5.27	333 3-	1/0 ACSR	998	941	722	155	1704	78	34	0.19	3.43	269
OC146464	0815039	5.27	331 3-	REC_100_UNK	998	941	722	155	1687	77	78	0.00	3.43	0
0815043	OC146464	7.23	331 3-	1/0 ACSR	751	710	536	147	1687	77	34	2.45	5.88	3371
0815037	0815043	7.41	110 3-	1/0 ACSR	735	695	524	146	531	24	11	0.07	5.96	33
0815056	0815037	7.41	74 1-	4 ACSR	0	0	523	146	376	52	38	0.01	5.97	5
OC146465	0815056	7.41	74 1-	REC_50_UNK	0	0	523	146	376	52	106	0.00	5.97	0
0914002	OC146465	12.15	74 1-	4 ACSR	0	0	269	115	376	52	38	5.59	11.56	1278
0815032	0815037	7.41	35 1-	4 ACSR	0	0	523	146	147	20	15	0.01	5.96	0
OC146466	0815032	7.41	35 1-	REC_50_UNK	0	0	523	146	147	20	41	0.00	5.96	0
0815033	OC146466	7.57	35 1-	4 ACSR	0	0	508	145	147	20	15	0.14	6.10	19
0815034	0815033	9.06	35 1-	6 ACWC	0	0	397	134	147	20	15	0.99	7.09	108
0815035	0815034	9.25	16 1-	4 ACSR	0	0	386	133	66	9	7	0.08	7.17	5
0915064	0815035	9.45	15 1-	6 ACWC	0	0	375	131	66	9	7	0.06	7.23	3
0915065	0915064	10.62	9 1-	4 ACSR	0	0	321	124	37	5	4	0.14	7.37	3
0815044	0815043	9.34	186 3-	1/0 ACSR	593	561	419	138	958	44	20	1.58	7.46	1289
0814023	0815044	9.38	1 1-	4 ACSR	0	0	417	138	2	0	0	0.00	7.46	0
0814017	0815044	9.37	181 3-	1/0 ACSR	591	560	418	138	915	43	19	0.02	7.48	16
OC146469	0814017	9.37	181 3-	REC_35_UNK	591	560	418	138	914	43	124	0.00	7.48	0
0814018	OC146469	9.61	181 3-	1/0 ACSR	577	547	408	137	914	43	19	0.17	7.65	133
0814016	0814018	10.21	110 3-	1/0 ACSR	546	517	385	135	483	22	10	0.23	7.88	97
0814013	0814016	11.09	53 1-	4 ACSR	0	0	342	129	288	41	29	1.59	9.47	418
0814014	0814013	11.31	49 1-	2 ACSR	0	0	334	128	272	39	22	0.25	9.72	60
0714002	0814014	11.88	46 1-	4 ACSR	0	0	312	125	246	35	26	0.62	10.34	113
0715027	0714002	12.06	19 1-	2 ACSR	0	0	307	124	92	13	7	0.07	10.41	5
0715028	0715027	13.79	16 1-	4 ACSR	0	0	255	114	80	11	8	0.45	10.86	23
0814019	0814016	10.68	56 1-	2 ACSR	0	0	366	133	193	27	15	0.37	8.25	61
0814020	0814019	12.43	46 1-	4 ACSR	0	0	295	122	168	24	17	1.55	9.79	212
0814021	0814020	12.54	24 1-	6 ACWC	0	0	291	121	106	15	11	0.06	9.85	5
0814022	0814021	14.32	16 1-	4 ACSR	0	0	243	112	68	9	7	0.39	10.24	17

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
0815064	0814018	10.43	62 1-	4 ACSR	0	0	363	132	359	51	37	1.38	9.03	378
0815054	0815064	10.55	25 1-	2 ACSR	0	0	359	131	170	24	14	0.09	9.12	13
OC146470	0815054	10.55	25 1-	REC_35_UNK	0	0	359	131	170	24	70	0.00	9.12	0
0815055	OC146470	12.79	25 1-	2 ACSR	0	0	290	121	170	24	14	0.87	9.98	90
0815058	0815055	12.80	1 1-	1/0 URD PRI AL	0	0	290	197	5	0	0	0.00	9.98	0
0815042	0815041	5.19	113 3-	1/0 ACSR	1011	954	732	156	731	33	15	0.04	3.28	23
OC146459	0815042	5.19	113 3-	REC_70_UNK	1011	954	732	156	731	33	48	0.00	3.28	0
0815038	OC146459	6.73	113 3-	1/0 ACSR	803	758	574	149	731	33	15	0.74	4.01	412
0815053	0815038	7.72	78 1-	4 ACSR	0	0	474	141	515	71	51	2.10	6.12	758
0815049	0815053	7.72	16 1-	6 ACWC	0	0	474	141	106	14	11	0.00	6.12	0
OC146460	0815049	7.72	16 1-	REC_35_UNK	0	0	474	141	106	14	42	0.00	6.12	0
0815050	OC146460	9.08	16 1-	6 ACWC	0	0	382	132	106	14	11	0.59	6.71	44
0815051	0815050	9.76	5 1-	4 ACSR	0	0	347	127	34	4	3	0.07	6.79	2
0815047	0815053	7.73	12 1-	4 ACSR	0	0	473	141	67	9	7	0.00	6.12	0
OC146461	0815047	7.73	12 1-	REC_25_UNK	0	0	473	141	67	9	38	0.00	6.12	0
0815048	OC146461	9.53	12 1-	4 ACSR	0	0	357	128	67	9	7	0.38	6.50	15
0815052	0815040	4.27	0 1-	4 ACSR	0	0	876	160	0	0	0	0.00	1.58	0
SW146801-A	0815052	4.27	0 1-	Open	0	0	876	160	0	0	0	0.00	1.58	0
CKT 104 total losses:	\$36,110													
SUB 34, CKT 114														
LEES_114	LEES_LICK	0.00	704 3-	SBS_99_UNK	5509	5975	5947	179	3735	168	0	0.00	0.00	0
0916085	LEES_114	1.10	704 3-	3/0 ACSR	3110	2952	2659	176	3735	168	56	2.18	2.18	5968
0816081	0916085	3.17	683 3-	336.4 ACSR	1931	1784	1440	171	3550	162	31	2.09	4.26	4883
0816056	0816081	5.18	571 3-	336.4 ACSR	1410	1293	995	167	2850	132	25	1.61	5.88	3130
0816063	0816056	5.59	255 3-	4 ACSR	1239	1154	880	163	1231	57	41	0.92	6.79	1058
OC146551	0816063	5.59	254 3-	REC_50_UNK	1239	1154	880	163	1216	57	115	0.00	6.79	0
0816064	OC146551	5.79	254 3-	4 ACSR	1163	1091	830	161	1216	57	41	0.45	7.24	509
0816066	0816064	7.35	234 3-	2ACWC	905	852	630	154	1100	52	22	1.28	8.52	1205
0716050	0816066	8.12	168 3-	2ACWC	816	769	569	150	769	36	15	0.42	8.94	265
0716046	0716050	8.26	62 3-	2ACWC	801	755	559	150	351	16	7	0.04	8.97	11
0716047	0716046	9.73	51 3-	4 ACSR	594	573	430	138	305	14	10	0.72	9.69	190
0716048	0716047	9.79	3 3-	4 ACSR	588	567	426	138	27	1	1	0.00	9.69	0
0716049	0716048	10.05	2 3-	1/0 ACSR	574	553	415	137	19	0	0	0.00	9.70	0
SW145299-B	0716049	10.05	0 3-	Open	574	553	415	137	0	0	0	0.00	9.70	0
0716038	0716047	10.10	30 1-	4 ACSR	0	0	406	135	186	26	19	0.22	9.91	26
0716056	0716050	8.22	72 1-	4 ACSR	0	0	558	149	250	36	26	0.16	9.09	36
OC146552	0716056	8.22	70 1-	REC_25_UNK	0	0	558	149	243	35	140	0.00	9.09	0
0716057	OC146552	10.38	70 1-	4 ACSR	0	0	386	133	243	35	25	1.93	11.02	313
0716055	0716057	11.26	7 1-	6 ACWC	0	0	342	127	34	5	4	0.10	11.12	2
0716059	0816066	7.43	39 1-	6 ACWC	0	0	621	153	216	30	22	0.07	8.59	11
0816084	0716059	8.62	15 1-	4 ACSR	0	0	490	143	88	12	9	0.33	8.92	18
0816065	0816064	6.48	16 3-	2ACWC	1035	972	729	158	75	3	1	0.02	7.26	0
SW145557-B	0816065	6.48	0 3-	Open	1035	972	729	158	0	0	0	0.00	7.26	0
0816057	0816056	5.67	274 3-	1/0 ACSR	1276	1174	895	165	1288	60	26	0.49	6.36	536
OC146557	0816057	5.67	270 3-	REC_70_UNK	1276	1174	895	165	1257	59	85	0.00	6.36	0
0816058	OC146557	6.73	270 3-	1/0 ACSR	1049	971	729	159	1257	59	26	1.04	7.41	1119
0816062	0816058	6.81	38 3-	1/0 ACSR	1035	958	719	159	195	9	4	0.01	7.42	2
0816039	0816062	8.39	35 1-	4 ACSR	0	0	513	145	181	25	18	0.90	8.32	101
0815031	0816039	8.48	0 1-	UNK	0	0	508	145	0	0	0	0.00	8.32	0
SW146799-B	0815031	8.48	0 1-	Open	0	0	508	145	0	0	0	0.00	8.32	0
0816060	0816058	7.20	220 3-	1/0 ACSR	972	901	674	157	997	47	21	0.37	7.78	325

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 34, CKT 134														
LEES_134	LEES_LICK	0.00	682 3-	SBS_99_UNK	5509	5975	5947	179	4226	191	0	0.00	0.00	0
0916073	LEES_134	0.39	682 3-	336.4 ACSR	4595	4594	4463	179	4226	191	36	0.52	0.52	1392
0916086	0916073	0.74	33 3-	336.4 ACSR	4006	3862	3621	178	148	6	1	0.01	0.53	0
0916068	0916086	2.08	19 3-	4 ACSR	1618	1597	1331	164	65	2	2	0.08	0.60	3
0916074	0916073	2.03	643 3-	336.4 ACSR	2698	2520	2169	176	4038	183	35	2.01	2.52	5181
0915077	0916074	2.40	617 3-	3/0 ACSR	2388	2219	1868	174	3825	176	59	0.78	3.30	2247
OC146963	0915077	2.40	613 3-	REC_99_RPF	2388	2219	1868	174	3766	174	0	0.00	3.30	0
0915078	OC146963	3.48	613 3-	3/0 ACSR	1784	1649	1328	170	3766	174	58	2.20	5.50	6317
0915070	0915078	4.74	531 3-	1/0 ACSR	1316	1223	950	164	3276	153	67	3.30	8.80	9176
0915089	0915070	4.80	26 1-	4 ACSR	0	0	932	163	116	16	12	0.04	8.84	5
OC146662	0915089	4.80	26 1-	REC_99_UNK	0	0	932	163	116	16	0	0.00	8.84	0
0915090	OC146662	6.52	26 1-	4 ACSR	0	0	591	148	116	16	12	0.66	9.50	49
0915091	0915090	6.65	1 1-	2 ACSR	0	0	578	147	5	0	0	0.00	9.50	0
0915071	0915070	5.46	496 3-	1/0 ACSR	1141	1063	816	160	3042	146	64	1.78	10.57	4739
0915082	0915071	5.49	57 3-	1/0 ACSR	1136	1059	812	160	408	19	9	0.01	10.58	3
0915100	0915082	5.49	57 1-	4 ACSR	0	0	811	160	408	59	43	0.01	10.60	6
OC146663	0915100	5.49	57 1-	REC_99_UNK	0	0	811	160	408	59	0	0.00	10.60	0
0915101	OC146663	6.91	57 1-	4 ACSR	0	0	573	148	408	59	43	2.72	13.31	852
1015134	0915101	7.26	23 1-	6 ACWC	0	0	534	145	174	25	19	0.35	13.67	55
1015123	1015134	8.08	18 1-	4 ACSR	0	0	458	139	136	20	15	0.37	14.04	33
0915072	0915071	6.19	429 3-	1/0 ACSR	1005	938	714	157	2557	124	54	1.47	12.05	3292
RG145044	0915072	6.19	400 3-	219	1005	938	714	157	2335	115	53	-11.40	0.65	0
0915073	RG145044	6.25	400 3-	1/0 ACSR	995	929	706	157	2335	104	46	0.11	0.76	211
0915074	0915073	6.43	366 3-	1/0 ACSR	966	902	685	156	2176	97	43	0.30	1.06	540
0915079	0915074	6.51	132 3-	1/0 ACSR	953	891	675	155	689	31	13	0.04	1.10	24
0915080	0915079	6.95	105 3-	1/0 ACSR	892	835	630	153	571	25	11	0.17	1.28	79
OC146979	0915080	6.95	97 3-	REC_99_UNK	892	835	630	153	494	22	0	0.00	1.28	0
0915081	OC146979	8.26	97 3-	1/0 ACSR	747	701	525	148	494	22	10	0.34	1.62	112
0915087	0915081	10.45	37 1-	4 ACSR	0	0	368	131	194	26	19	1.29	2.91	148
0915088	0915087	10.54	1 1-	2 ACSR	0	0	365	131	1	0	0	0.00	2.91	0
0915062	0915079	7.31	25 1-	8 ACWC	0	0	539	146	117	15	16	0.51	1.61	40
0915063	0915062	7.60	5 1-	4 ACSR	0	0	509	143	28	3	3	0.03	1.64	0
0915075	0915074	6.47	227 3-	1/0 ACSR	961	898	681	156	1463	65	29	0.04	1.10	45
OC146669	0915075	6.47	227 3-	REC_70_UNK	961	898	681	156	1463	65	94	0.00	1.10	0
0915076	OC146669	7.77	227 3-	1/0 ACSR	796	746	560	150	1463	65	29	1.28	2.38	1431
1015089	0915076	9.65	130 3-	1/0 ACSR	637	599	445	142	848	38	17	0.95	3.33	579
1015112	1015089	9.65	50 1-	4 ACSR	0	0	445	142	277	38	27	0.01	3.34	2
OC146670	1015112	9.65	50 1-	REC_99_UNK	0	0	445	142	277	38	0	0.00	3.34	0
1015113	OC146670	10.76	50 1-	4 ACSR	0	0	377	134	277	38	27	1.80	5.14	431
1014004	1015113	11.00	2 1-	4 ACSR	0	0	365	132	20	2	2	0.02	5.15	0
1014003	1015113	12.76	41 1-	4 ACSR	0	0	294	121	230	32	23	1.43	6.57	199
1015108	1015089	9.69	9 1-	4 ACSR	0	0	442	142	53	7	5	0.01	3.34	0
1015109	1015108	9.97	8 1-	8 ACWC	0	0	418	139	44	6	6	0.10	3.45	4
1015111	1015109	10.45	4 1-	4 ACSR	0	0	389	135	30	4	3	0.04	3.49	0
1015110	1015109	10.53	3 1-	8 ACWC	0	0	375	133	10	1	1	0.03	3.47	0
1015090	1015089	9.67	12 3-	1/0 ACSR	635	597	444	142	143	6	3	0.00	3.33	0
1015091	1015090	10.34	12 3-	336.4 ACSR	612	574	425	141	143	6	1	0.02	3.35	2
1015093	1015091	10.70	1 3-	336.4 ACSR	599	562	416	140	7	0	0	0.00	3.35	0
1015129	1015093	10.90	1 3-	1/0 URD PRI AL	588	552	410	251	7	0	0	0.00	3.36	0
SW146800-B	1015129	10.90	0 3-	Open	588	552	410	251	0	0	0	0.00	3.36	0
1015092	1015091	10.41	8 3-	336.4 ACSR	609	572	423	140	110	5	1	0.00	3.36	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 35 CYNTHIANA			2931		5117	5504	5604	180	13197					
SUB 35, CKT 104														
CYNT_104	CYNTHIANA	0.00	0 3-	SBS_99_UNK	5117	5504	5604	180	0	0	0	0.00	0.00	0
0817082	CYNT_104	0.00	0 3-	3/0 ACSR	5105	5481	5582	180	0	0	0	0.00	0.00	0
SW145393-A	0817082	0.00	0 3-	Closed	5105	5481	5582	180	0	0	0	0.00	0.00	0
SW145393-B	SW145393-A	0.00	0 3-	Closed	5105	5481	5582	180	0	0	0	0.00	0.00	0
0817083	SW145393-B	0.13	0 3-	4/0 ACSR	4769	4876	4967	179	0	0	0	0.00	0.00	0
SW145005-B	0817083	0.13	0 3-	Open	4769	4876	4967	179	0	0	0	0.00	0.00	0
CKT 104 total losses:		\$0												
SUB 35, CKT 114														
CYNT_114	CYNTHIANA	0.00	1285 3-	SBS_99_UNK	5117	5504	5604	180	5405	246	0	0.00	0.00	0
0817076	CYNT_114	0.01	1285 3-	336.4 ACSR	5096	5462	5562	180	5405	246	46	0.02	0.02	54
SW145394-A	0817076	0.01	1285 3-	Closed	5096	5462	5562	180	5405	246	0	0.00	0.02	0
SW145394-B	SW145394-A	0.01	1285 3-	Closed	5096	5462	5562	180	5405	246	0	0.00	0.02	0
0817077	SW145394-B	0.11	1285 3-	336.4 ACSR	4873	5055	5142	179	5405	246	46	0.17	0.19	589
SW145400-B	0817077	0.11	1285 3-	Closed	4873	5055	5142	179	5400	246	0	0.00	0.19	0
SW145400-A	SW145400-B	0.11	1285 3-	Closed	4873	5055	5142	179	5400	246	0	0.00	0.19	0
0817104	SW145400-A	1.05	1285 3-	336.4 ACSR	3434	3296	2980	178	5400	246	46	1.55	1.74	5202
0817107	0817104	1.12	661 3-	3/0 ACSR	3335	3190	2863	177	2826	127	43	0.10	1.84	225
OC145524	0817107	1.12	661 3-	REC_100_UNK	3335	3190	2863	177	2825	127	128	0.00	1.84	0
0817108	OC145524	1.84	661 3-	3/0 ACSR	2559	2391	2036	175	2825	127	43	0.98	2.82	2177
0817123	0817108	1.98	23 1-	4 ACSR	0	0	1874	173	78	11	8	0.07	2.89	5
OC145525	0817123	1.98	21 1-	REC_99_UNK	0	0	1874	173	76	10	0	0.00	2.89	0
0818070	OC145525	2.62	21 1-	4 ACSR	0	0	1324	166	76	10	8	0.30	3.19	19
0818071	0818070	2.86	14 1-	6 ACWC	0	0	1188	164	64	9	7	0.07	3.26	3
0818072	0818071	3.30	6 1-	4 ACSR	0	0	996	160	24	3	2	0.04	3.30	0
0817090	0817108	2.26	606 3-	3/0 ACSR	2243	2076	1734	173	2572	116	39	0.50	3.32	1047
0817092	0817090	3.42	577 3-	3/0 ACSR	1672	1534	1234	169	2115	95	32	1.04	4.36	1903
0818079	0817092	3.50	76 1-	4 ACSR	0	0	1198	168	224	32	23	0.11	4.48	23
OC145526	0818079	3.50	76 1-	REC_50_UNK	0	0	1198	168	224	32	65	0.00	4.48	0
0818080	OC145526	5.98	76 1-	4 ACSR	0	0	574	146	224	32	23	2.01	6.49	275
0718082	0818080	6.23	3 1-	4 ACSR	0	0	544	144	11	1	1	0.01	6.49	0
SW145758-A	0718082	6.23	0 1-	Open	0	0	544	144	0	0	0	0.00	6.49	0
0718081	0818080	6.77	2 1-	4 ACSR	0	0	488	139	3	0	0	0.01	6.49	0
0818060	0817092	3.96	462 3-	3/0 ACSR	1495	1372	1088	167	1669	76	25	0.35	4.71	578
0718085	0818060	5.08	445 3-	3/0 ACSR	1221	1122	871	163	1572	72	24	0.86	5.57	1076
OC145529	0718085	5.08	411 3-	REC_100_UNK	1221	1122	871	163	1427	66	66	0.00	5.57	0
0718057	OC145529	5.14	411 3-	3/0 ACSR	1209	1110	861	163	1427	66	22	0.04	5.62	54
RG145038	0718057	5.14	410 3-	219	1209	1110	861	163	1425	66	30	-0.62	0.00	0
0718047	RG145038	5.83	410 3-	3/0 ACSR	1087	999	768	160	1425	63	21	0.46	0.46	526
0718043	0718047	5.92	49 1-	4 ACSR	0	0	752	160	162	22	16	0.09	0.55	13
OC145530	0718043	5.92	48 1-	REC_35_UNK	0	0	752	160	162	22	65	0.00	0.55	0
0718044	OC145530	7.84	48 1-	4 ACSR	0	0	496	143	162	22	16	1.04	1.60	98
0718042	0718044	7.95	1 1-	2 ACSR	0	0	488	142	4	0	0	0.00	1.60	0
0718048	0718047	6.87	350 3-	3/0 ACSR	945	869	661	157	1215	53	18	0.55	1.01	552
0718056	0718048	7.16	124 3-	3/0 ACSR	911	838	636	156	437	20	7	0.07	1.08	21
0718060	0718056	7.79	110 3-	1/0 ACSR	834	770	582	153	381	17	8	0.20	1.29	60
0718076	0718060	7.94	84 1-	4 ACSR	0	0	566	152	261	36	26	0.25	1.54	57
OC145534	0718076	7.94	83 1-	REC_25_UNK	0	0	566	152	255	36	144	0.00	1.54	0
0718077	OC145534	10.19	83 1-	4 ACSR	0	0	387	134	255	36	26	3.39	4.93	696
0717028	0718077	10.60	5 1-	4 ACSR	0	0	365	131	15	2	2	0.02	4.95	0

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Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW145756-B	0717028	10.60	0 1-	Open	0	0	365	131	0	0	0.00	4.95	0	
0717025	0718077	10.83	13 1-	4 ACSR	0	0	354	130	54	7	6	0.14	5.07	5
0717026	0717025	10.92	3 1-	8 ACWC	0	0	348	129	11	1	2	0.01	5.08	0
0717027	0717026	11.12	3 1-	4 ACSR	0	0	339	128	11	1	1	0.01	5.09	0
0717023	0718077	12.15	49 1-	4 ACSR	0	0	300	122	124	17	13	1.47	6.40	151
OC145535	0717023	12.15	40 1-	REC_15_UNK	0	0	300	122	95	13	93	0.00	6.40	0
0717024	OC145535	15.01	40 1-	4 ACSR	0	0	225	107	95	13	10	0.93	7.33	54
0718061	0718060	9.10	20 3-	1/0 ACSR	707	657	495	147	103	4	2	0.06	1.35	3
SW145250-B	0718061	9.10	0 3-	Open	707	657	495	147	0	0	0	0.00	1.35	0
0718045	0718048	6.97	201 3-	3/0 ACSR	932	858	652	156	690	30	10	0.02	1.03	19
OC145533	0718045	6.97	195 3-	REC_50_UNK	932	858	652	156	673	30	60	0.00	1.03	0
0718046	OC145533	9.85	195 3-	3/0 ACSR	685	631	471	147	673	30	10	0.36	1.40	323
SW145401-B	0718046	9.85	102 3-	Closed	685	631	471	147	361	18	0	0.00	1.40	0
SW145401-A	SW145401-B	9.85	102 3-	Closed	685	631	471	147	361	18	0	0.00	1.40	0
0718058	SW145401-A	9.97	102 3-	3/0 ACSR	677	624	466	146	361	18	6	0.00	1.40	8
0718072	0718058	10.32	22 1-	4 ACSR	0	0	441	144	99	13	10	0.21	1.61	18
0718073	0718072	10.62	19 1-	2 ACSR	0	0	426	142	89	12	7	0.11	1.72	7
0718074	0718073	11.12	14 1-	6 ACWC	0	0	396	138	67	9	7	0.15	1.87	7
0718075	0718074	11.91	8 1-	4 ACSR	0	0	356	133	25	3	3	0.07	1.94	0
0718059	0718058	10.21	79 3-	3/0 ACSR	663	611	455	146	253	15	5	-0.01	1.39	11
0718069	0718059	11.56	24 1-	4 ACSR	0	0	375	135	111	15	11	0.77	2.16	63
0618075	0718069	12.11	10 1-	4 ACSR	0	0	348	132	50	7	5	0.09	2.25	3
SW145760-A	0618075	12.11	0 1-	Open	0	0	348	132	0	0	0	0.00	2.25	0
0618069	0718069	12.16	5 1-	6 ACWC	0	0	347	131	10	1	1	0.02	2.18	0
0618074	0618069	12.70	1 1-	4 ACSR	0	0	324	128	1	0	0	0.00	2.18	0
0718051	0718059	11.40	53 3-	1/0 ACSR	587	544	405	141	141	13	6	-0.10	1.29	70
0718052	0718051	11.78	49 3-	4 ACSR	555	516	384	138	123	13	10	0.01	1.30	55
0718053	0718052	11.91	46 3-	1/0 ACSR	548	511	380	138	119	13	6	-0.01	1.28	8
OC145538	0718053	11.91	46 3-	REC_35_UNK	548	511	380	138	119	13	39	0.00	1.28	0
0718054	OC145538	12.65	46 3-	1/0 ACSR	514	479	357	135	119	13	6	-0.09	1.20	42
0718070	0718054	13.27	16 1-	6 ACWC	0	0	331	131	47	6	5	0.14	1.34	5
0618090	0718070	13.69	9 1-	8 ACWC	0	0	310	127	25	3	3	0.07	1.41	1
0618072	0618090	13.79	5 1-	6 ACWC	0	0	307	126	11	1	1	0.00	1.41	0
0618073	0618072	14.23	1 1-	8 ACWC	0	0	288	122	1	0	0	0.00	1.42	0
0718068	0618073	14.30	1 1-	4 ACSR	0	0	286	122	1	0	0	0.00	1.42	0
0719062	0718054	13.35	15 3-	1/0 ACSR	485	453	336	132	19	14	6	-0.13	1.06	45
CA145011	0719062	13.35	0 3-	Capacitor	485	453	336	132	0	-14	0	0.00	1.06	0
CA145008	0818060	3.96	0 3-	Capacitor	1495	1372	1088	167	0	-14	0	0.00	4.71	0
0817091	0817090	2.38	2 3-	1/0 ACSR	2159	1992	1658	173	222	10	5	0.02	3.35	4
0817132	0817091	2.46	1 3-	1/0 URD PRI AL	2116	1953	1628	420	212	10	6	0.02	3.36	3
0817996	0817132	2.46	1 3-	Consumer	2116	1953	1628	420	212	10	0	0.00	3.36	0
0817105	0817104	1.17	542 3-	336.4 ACSR	3305	3157	2823	177	2166	102	19	0.10	1.84	120
0817131	0817105	1.44	502 3-	1/0 URD PRI AL	3025	2906	2579	446	1935	91	54	0.50	2.34	888
0818085	0817131	1.67	502 3-	336.4 ACSR	2836	2700	2361	175	1927	91	17	0.16	2.50	179
OC145541	0818085	1.67	458 3-	REC_70_UNK	2836	2700	2361	175	1790	85	122	0.00	2.50	0
0818062	OC145541	3.23	458 3-	336.4 ACSR	1998	1842	1506	172	1790	85	16	0.96	3.46	982
0818065	0818062	3.33	162 3-	4 ACSR	1911	1754	1436	171	511	24	17	0.10	3.56	48
OC145550	0818065	3.33	162 3-	REC_99_UNK	1911	1754	1436	171	510	24	0	0.00	3.56	0
0818066	OC145550	4.93	162 3-	4 ACSR	1034	999	789	155	510	24	17	1.47	5.03	676
0818048	0818066	5.90	50 1-	4 ACSR	0	0	611	147	179	25	19	0.92	5.95	125
0818049	0818048	6.03	28 1-	6 ACWC	0	0	594	146	98	14	10	0.07	6.02	6
0818050	0818049	6.07	19 1-	4 ACSR	0	0	588	146	77	11	8	0.02	6.04	1

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
0818042	0818050	6.52	18 1-	2 ACSR	0	0	545	143	77	11	6	0.09	6.12	4
0818067	0818066	5.37	83 3-	4 ACSR	906	883	697	151	267	12	9	0.22	5.25	55
OC146967	0818067	5.37	79 3-	REC_99_UNK	906	883	697	151	253	12	0	0.00	5.25	0
0818068	OC146967	5.55	79 3-	4 ACSR	863	842	666	150	253	12	9	0.07	5.32	15
0818044	0818068	7.13	37 1-	4 ACSR	0	0	473	138	155	22	16	0.95	6.27	94
0818045	0818044	7.48	4 1-	8 ACWC	0	0	435	134	21	3	3	0.05	6.33	0
0818046	0818045	7.58	2 1-	4 ACSR	0	0	428	133	11	1	1	0.01	6.33	0
0818047	0818046	7.64	1 1-	2 ACSR	0	0	425	133	4	0	0	0.00	6.33	0
0818055	0818062	3.30	247 3-	336.4 ACSR	1970	1815	1481	172	1032	49	9	0.03	3.49	17
0818056	0818055	4.68	247 3-	4 ACSR	1141	1096	865	158	1032	49	35	2.51	6.00	2310
0818063	0818056	4.75	58 3-	1/0 ACSR	1127	1082	853	158	322	15	7	0.02	6.02	5
OC145546	0818063	4.75	57 3-	REC_50_UNK	1127	1082	853	158	307	14	30	0.00	6.02	0
0918039	OC145546	6.84	57 3-	1/0 ACSR	806	772	593	149	307	14	7	0.29	6.31	49
0918034	0918039	6.84	0 1-	4 ACSR	0	0	592	148	0	0	0	0.00	6.31	0
SW146208-A	0918034	6.84	0 1-	Open	0	0	592	148	0	0	0	0.00	6.31	0
SW145770-B	0918039	6.84	0 1-	Open	0	0	593	149	0	0	0	0.00	6.31	0
0818053	0818056	4.83	148 3-	2 ACSR	1101	1058	834	157	534	26	15	0.10	6.10	49
0818054	0818053	4.95	22 3-	2 ACSR	1070	1030	811	156	103	5	3	0.02	6.12	1
0818057	0818054	5.15	19 3-	4 ACSR	1004	969	763	154	95	4	3	0.03	6.15	3
0818058	0818057	5.44	4 3-	4 ACSR	922	895	705	152	23	1	1	0.01	6.15	0
0818059	0818058	5.46	0 3-	1/0 ACSR	919	892	702	152	0	0	0	0.00	6.15	0
SW145397-A	0818059	5.46	0 3-	Open	919	892	702	152	0	0	0	0.00	6.15	0
0818043	0818057	5.72	10 1-	4 ACSR	0	0	656	150	41	6	4	0.08	6.23	2
0818077	0818053	4.88	126 1-	2 ACSR	0	0	824	157	430	63	35	0.11	6.21	40
0818074	0818077	5.05	125 1-	4 ACSR	0	0	782	155	424	62	45	0.50	6.71	189
OC145547	0818074	5.05	122 1-	REC_99_UNK	0	0	782	155	411	60	0	0.00	6.71	0
0818075	OC145547	6.42	122 1-	4 ACSR	0	0	556	144	411	60	43	3.47	10.18	1204
0818078	0818075	8.05	92 1-	4 ACSR	0	0	410	132	296	44	32	1.73	11.90	318
SW145759-A	0818078	8.05	0 1-	Open	0	0	410	132	0	0	0	0.00	11.90	0
0818076	0818075	6.64	6 1-	4 ACSR	0	0	531	142	18	2	2	0.01	10.19	0
0817134	0817105	1.18	21 1-	1/0 URD PRI AL	0	0	2815	457	110	15	9	0.00	1.84	0
CKT 114 total losses:	\$23,538													
SUB 35, CKT 124														
CYNT 124	CYNTHIANA	0.00	708 3-	SBS_99_UNK	5117	5504	5604	180	3651	163	0	0.00	0.00	0
0817086	CYNT 124	0.01	708 3-	336.4 ACSR	5099	5471	5571	180	3651	163	31	0.01	0.01	20
0817113	0817086	0.01	0 3-	4/0 ACSR	5083	5439	5540	180	0	0	0	0.00	0.01	0
SW145556-A	0817113	0.01	0 3-	Closed	5083	5439	5540	180	0	0	0	0.00	0.01	0
SW145556-B	SW145556-A	0.01	0 3-	Closed	5083	5439	5540	180	0	0	0	0.00	0.01	0
0817087	0817086	0.28	708 3-	336.4 ACSR	4534	4566	4594	179	3650	163	31	0.29	0.30	709
0817119	0817087	0.30	0 3-	4/0 ACSR	4492	4516	4525	179	0	0	0	0.00	0.30	0
SW145000-B	0817119	0.30	0 3-	Open	4492	4516	4525	179	0	0	0	0.00	0.30	0
0817097	0817087	0.89	706 3-	336.4 ACSR	3619	3504	3282	178	3644	163	31	0.64	0.94	1588
0817101	0817097	0.92	699 3-	336.4 ACSR	3583	3465	3236	178	3356	151	29	0.03	0.97	67
0817100	0817101	2.76	624 3-	336.4 ACSR	2218	2051	1696	174	2899	130	25	1.35	2.32	2842
0817103	0817100	2.82	432 3-	336.4 ACSR	2189	2022	1669	174	1805	82	16	0.03	2.35	42
OC145637	0817103	2.82	432 3-	REC_70_UNK	2189	2022	1669	174	1804	82	117	0.00	2.35	0
0817109	OC145637	3.74	432 3-	336.4 ACSR	1839	1683	1350	172	1804	82	16	0.40	2.75	469
0817110	0817109	4.10	322 3-	336.4 ACSR	1731	1580	1256	171	1335	63	12	0.17	2.92	130
0817111	0817110	4.16	130 3-	1/0 ACSR	1708	1557	1237	171	589	28	12	0.03	2.94	13
OC145643	0817111	4.16	130 3-	REC_70_UNK	1708	1557	1237	171	589	28	40	0.00	2.94	0
0817112	OC145643	4.41	130 3-	1/0 ACSR	1603	1463	1153	170	589	28	12	0.10	3.04	38

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LIG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 35, CKT 154														
CYNT_154	CYNTHIANA	0.00	568 3-	SBS_99_UNK	5117	5504	5604	180	1807	81	0	0.00	0.00	0
0817095	CYNT_154	0.85	568 3-	3/0 ACSR	3344	3225	2931	177	1807	81	27	0.80	0.80	1081
0817130	0817095	0.98	558 3-	1/0 URD PRI AL	3186	3083	2786	448	1781	80	47	0.22	1.01	343
0817096	0817130	2.10	558 3-	3/0 ACSR	2169	2014	1706	172	1778	80	27	1.03	2.05	1402
OC145724	0817096	2.10	548 3-	REC_100_UNK	2169	2014	1706	172	1745	79	79	0.00	2.05	0
0917034	OC145724	2.33	548 3-	3/0 ACSR	2031	1877	1577	171	1745	79	26	0.21	2.26	289
0918040	0917034	4.70	528 3-	3/0 ACSR	1237	1139	896	163	1680	76	25	1.94	4.20	2507
0918022	0918040	5.63	467 3-	3/0 ACSR	1070	986	764	159	1472	67	23	0.69	4.89	830
0918030	0918022	8.02	17 1-	4 ACSR	0	0	459	139	53	7	5	0.43	5.32	14
SW145770-A	0918030	8.02	0 1-	Open	0	0	459	139	0	0	0	0.00	5.32	0
0918023	0918022	5.93	438 3-	3/0 ACSR	1026	945	730	158	1391	64	21	0.21	5.09	240
RG145012	0918023	5.93	436 3-	219	1026	945	730	158	1377	63	29	-5.09	0.00	0
0918024	RG145012	6.51	436 3-	3/0 ACSR	950	876	672	156	1377	61	20	0.36	0.36	399
0918026	0918024	6.58	361 3-	3/0 ACSR	941	868	666	156	1085	48	16	0.03	0.39	30
0918027	0918026	6.69	357 3-	1/0 ACSR	926	854	654	156	1066	47	21	0.08	0.47	72
OC145729	0918027	6.69	346 3-	REC_99_UNK	926	854	654	156	1018	45	0	0.00	0.47	0
0918028	OC145729	7.24	346 3-	1/0 ACSR	855	790	602	153	1018	45	20	0.36	0.83	325
1018028	0918028	9.83	321 3-	1/0 ACSR	626	584	436	142	934	43	19	1.94	2.76	1354
RG145015	1018028	9.83	266 3-	219	626	584	436	142	782	37	17	-2.76	0.00	0
1018018	RG145015	9.90	266 3-	1/0 ACSR	622	580	433	142	782	36	16	0.04	0.04	27
1018023	1018018	10.48	19 1-	4 ACSR	0	0	397	137	45	6	4	0.12	0.16	4
1018024	1018023	11.10	4 1-	6 ACWC	0	0	365	133	16	2	2	0.03	0.19	0
1018019	1018018	10.64	245 3-	1/0 ACSR	578	539	402	139	725	33	15	0.44	0.48	243
1018022	1018019	10.64	19 1-	4 ACSR	0	0	401	139	56	7	6	0.00	0.49	0
OC145730	1018022	10.64	19 1-	REC_99_UNK	0	0	401	139	56	7	0	0.00	0.49	0
1018025	OC145730	11.90	19 1-	4 ACSR	0	0	339	130	56	7	6	0.29	0.78	11
1017046	1018025	12.17	7 1-	6 ACWC	0	0	328	128	16	2	2	0.02	0.81	0
1017038	1017046	12.96	5 1-	4 ACSR	0	0	299	123	12	1	1	0.03	0.84	0
1018020	1018019	10.84	214 3-	1/0 ACSR	567	529	394	138	606	28	12	0.10	0.59	49
OC145733	1018020	10.84	213 3-	REC_99_UNK	567	529	394	138	598	27	0	0.00	0.59	0
1018021	OC145733	11.02	213 3-	1/0 ACSR	558	521	387	137	598	27	12	0.05	0.63	15
1018014	1018021	11.24	2 1-	4 ACSR	0	0	376	136	0	0	0	0.00	0.63	0
CA145019	0918028	7.24	0 3-	Capacitor	855	790	602	153	0	-14	0	0.00	0.83	0
0918025	0918024	7.45	57 3-	4 ACSR	765	721	550	148	204	9	7	0.18	0.54	22
SW145666-A	0918025	7.45	0 3-	Open	765	721	550	148	0	0	0	0.00	0.54	0
0918018	0918040	4.70	22 1-	2 ACSR	0	0	894	163	48	6	4	0.00	4.20	0
OC145726	0918018	4.70	22 1-	REC_99_UNK	0	0	894	163	48	6	0	0.00	4.20	0
0918019	OC145726	5.23	22 1-	2 ACSR	0	0	792	159	48	6	4	0.09	4.30	3
0918020	0918019	5.58	15 1-	4 ACSR	0	0	721	156	27	3	3	0.05	4.35	0
0917058	0918020	6.91	10 1-	2 ACSR	0	0	566	148	16	2	1	0.05	4.40	0
0917031	0917034	2.34	19 1-	4 ACSR	0	0	1573	171	55	7	6	0.00	2.26	0
OC145725	0917031	2.34	19 1-	REC_35_UNK	0	0	1573	171	55	7	22	0.00	2.26	0
0917028	OC145725	3.00	19 1-	4 ACSR	0	0	1153	164	55	7	6	0.12	2.38	4
0917029	0917028	3.55	0 1-	6 ACWC	0	0	935	159	0	0	0	0.00	2.38	0
CKT 154 total losses:		\$9,264												

SUB 35, CKT 164														
CYNT_164	CYNTHIANA	0.00	367 3-	SBS_99_UNK	5117	5504	5604	180	1629	76	0	0.00	0.00	0
0817114	CYNT_164	1.85	367 3-	3/0 ACSR	2328	2165	1841	173	1629	76	25	1.87	1.87	2102
OC145748	0817114	1.85	364 3-	REC_70_UNK	2328	2165	1841	173	1595	75	108	0.00	1.87	0
0817120	OC145748	3.62	364 3-	3/0 ACSR	1504	1384	1106	167	1595	75	25	1.59	3.46	1665

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 36, CKT 144														
HQ_144	HEADQUARTERS	0.00	777 3-	SBS_99_UNK	2421	2693	2672	178	2612	117	0	0.00	0.00	0
0819074	HQ_144	0.88	777 3-	3/0 ACSR	1913	1895	1839	175	2612	117	39	1.17	1.17	2300
0819061	0819074	2.96	611 3-	3/0 ACSR	1259	1183	1040	167	2044	92	31	2.16	3.32	3331
0819062	0819061	3.55	580 3-	3/0 ACSR	1146	1072	924	165	1899	87	29	0.58	3.91	871
OC146193	0819062	3.55	573 3-	REC_70_UNK	1146	1072	924	165	1866	86	123	0.00	3.91	0
0820051	OC146193	4.63	573 3-	3/0 ACSR	984	917	769	161	1866	86	29	1.05	4.95	1549
0820029	0820051	5.40	521 3-	3/0 ACSR	895	832	686	158	1721	79	27	0.68	5.63	928
RG145027	0820029	5.40	506 3-	219	895	832	686	158	1629	77	35	-5.63	0.00	0
0819079	RG145027	5.79	506 3-	3/0 ACSR	855	795	651	157	1649	73	25	0.32	0.32	411
0719063	0819079	8.63	502 3-	3/0 ACSR	845	598	473	148	1639	73	24	2.20	2.52	2753
0719037	0719063	9.47	410 3-	3/0 ACSR	601	557	437	145	1283	58	19	0.53	3.06	551
0719040	0719037	9.50	314 3-	336.4 ACSR	600	556	436	145	970	44	8	0.01	3.07	7
OC146198	0719040	9.50	314 3-	70-L	600	556	436	145	970	44	63	0.00	3.07	0
0719041	OC146198	10.33	314 3-	336.4 ACSR	573	530	413	143	970	44	8	0.22	3.29	154
SW146119-B	0719041	10.33	301 3-	Closed	573	530	413	143	940	42	0	0.00	3.29	0
SW146119-A	SW146119-B	10.33	301 3-	Closed	573	530	413	143	940	42	0	0.00	3.29	0
0719042	SW146119-A	12.34	301 3-	336.4 ACSR	517	477	366	139	940	42	8	0.50	3.78	343
0719033	0719042	12.41	32 1-	4 ACSR	0	0	363	139	80	11	8	0.03	3.82	3
0719034	0719033	13.62	32 1-	6 ACWC	0	0	316	130	80	11	8	0.48	4.30	31
0719035	0719034	13.95	21 1-	2 ACSR	0	0	307	129	53	7	4	0.07	4.37	3
0720014	0719035	15.77	20 1-	6 ACWC	0	0	256	118	50	6	5	0.27	4.64	8
0719043	0719042	13.01	249 3-	336.4 ACSR	500	462	353	138	803	36	7	0.15	3.93	88
0719044	0719043	13.08	249 3-	3/0 ACSR	498	460	351	138	802	36	12	0.03	3.96	18
0719045	0719044	13.27	243 3-	336.4 ACSR	493	455	348	137	784	35	7	0.04	4.00	23
0719032	0719045	13.31	54 1-	4 ACSR	0	0	346	137	160	22	16	0.04	4.04	6
OC146203	0719032	13.31	54 1-	REC_35_UNK	0	0	346	137	160	22	63	0.00	4.04	0
0619033	OC146203	15.05	54 1-	4 ACSR	0	0	286	125	160	22	16	1.44	5.48	188
0619021	0619033	16.20	5 1-	4 ACSR	0	0	256	118	9	1	1	0.03	5.51	0
0619016	0619021	15.75	33 1-	4 ACSR	0	0	267	121	103	14	10	0.32	5.80	25
0619017	0619016	17.63	13 1-	2 ACSR	0	0	234	114	48	6	4	0.19	5.99	6
0620002	0619017	17.98	2 1-	4 ACSR	0	0	227	112	2	0	0	0.00	5.99	0
0719046	0719045	13.69	171 3-	336.4 ACSR	484	446	340	136	579	26	5	0.06	4.06	28
0719066	0719046	13.89	3 1-	6 ACWC	0	0	333	135	9	1	1	0.01	4.06	0
0619022	0719046	13.75	160 3-	336.4 ACSR	483	445	339	136	544	24	5	0.01	4.07	4
OC146206	0619022	13.75	160 3-	REC_70_UNK	483	445	339	136	544	24	36	0.00	4.07	0
0619023	OC146206	14.22	160 3-	336.4 ACSR	472	436	331	135	544	24	5	0.07	4.13	26
0619026	0619023	16.54	137 3-	4 ACSR	365	345	261	120	488	22	16	1.79	5.92	749
0619028	0619026	17.91	25 1-	4 ACSR	0	0	231	113	105	14	10	0.44	6.36	28
0619024	0619026	16.84	71 3-	4 ACSR	354	336	254	119	270	12	9	0.14	6.06	35
SW146122-B	0619024	16.84	67 3-	Closed	354	336	254	119	253	11	0	0.00	6.06	0
SW146122-A	SW146122-B	16.84	67 3-	Closed	354	336	254	119	253	11	0	0.00	6.06	0
0619025	SW146122-A	17.39	67 3-	4 ACSR	335	319	242	116	253	11	8	0.25	6.31	60
0619029	0619025	17.92	55 1-	4 ACSR	0	0	231	113	218	30	22	0.71	7.02	142
OC146207	0619029	17.92	53 1-	REC_35_UNK	0	0	231	113	215	30	87	0.00	7.02	0
0618077	OC146207	19.49	53 1-	4 ACSR	0	0	204	106	215	30	22	1.15	8.17	160
0618071	0618077	19.55	0 1-	4 ACSR	0	0	203	105	0	0	0	0.00	8.17	0
SW145760-B	0618071	19.55	0 1-	Open	0	0	203	105	0	0	0	0.00	8.17	0
0618078	0618077	19.59	3 1-	6 ACWC	0	0	202	105	21	2	2	0.01	8.18	0
0618070	0618078	19.92	2 1-	4 ACSR	0	0	197	104	15	2	2	0.02	8.20	0
0618087	0619025	17.86	11 3-	4 ACSR	320	306	232	113	35	1	1	0.02	6.34	0
0618060	0618087	18.52	5 3-	4 ACSR	301	289	220	110	16	0	1	0.01	6.35	0

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 38	MILLERSBURG		1284		2293	2602	2574	178	5095					
SUB 38,	CKT 104													
MILL_104	MILLERSBURG	0.00	443 3-	SBS_99_UNK	2293	2602	2574	178	1500	67	0	0.00	0.00	0
0920041	MILL_104	0.02	443 3-	336.4 ACSR	2282	2578	2552	178	1500	67	13	0.01	0.01	10
0920044	0920041	0.02	0 3-	336.4 ACSR	2281	2577	2551	178	0	0	0	0.00	0.01	0
SW146866-A	0920044	0.02	0 3-	Open	2281	2577	2551	178	0	0	0	0.00	0.01	0
0920042	0920041	0.84	443 3-	336.4 ACSR	1946	1992	1943	176	1500	67	13	0.34	0.35	352
1020064	0920042	2.28	413 3-	336.4 ACSR	1538	1480	1359	173	1382	61	12	0.55	0.89	519
1019031	1020064	2.29	0 1-	4 ACSR	0	0	1356	173	0	0	0	0.00	0.89	0
SW146958-A	1019031	2.29	0 1-	Open	0	0	1356	173	0	0	0	0.00	0.89	0
1020065	1020064	4.36	403 3-	336.4 ACSR	1181	1105	948	168	1314	59	11	0.75	1.64	689
1020038	1020065	4.45	204 2-	4 ACSR	0	1084	926	167	700	47	34	0.17	1.81	105
OC146850	1020038	4.45	204 2-	REC_99_UNK	0	1084	926	167	699	47	0	0.00	1.81	0
1020039	OC146850	5.45	204 2-	4 ACSR	0	857	712	157	699	47	34	1.92	3.73	1177
1020030	1020039	5.45	23 1-	4 ACSR	0	0	711	157	79	10	8	0.00	3.73	0
OC146851	1020030	5.45	23 1-	REC_99_UNK	0	0	711	157	79	10	0	0.00	3.73	0
1020031	OC146851	6.94	23 1-	4 ACSR	0	0	515	144	79	10	8	0.36	4.10	17
1020032	1020031	7.49	2 1-	6 ACWC	0	0	466	140	1	0	0	0.00	4.10	0
1019046	1020039	7.61	171 2-	4 ACSR	0	557	456	139	571	39	28	3.23	6.96	1576
1019041	1019046	7.62	18 1-	4 ACSR	0	0	455	139	25	3	2	0.00	6.97	0
OC146852	1019041	7.62	18 1-	REC_15_UNK	0	0	455	139	25	3	23	0.00	6.97	0
1019042	OC146852	8.21	18 1-	4 ACSR	0	0	413	135	25	3	2	0.05	7.02	0
1019043	1019042	8.69	14 1-	2 ACSR	0	0	391	133	4	0	0	0.01	7.03	0
1019044	1019043	10.80	12 1-	4 ACSR	0	0	296	120	3	0	0	0.02	7.04	0
1019033	1019046	7.92	120 2-	4 ACSR	0	529	433	137	431	30	22	0.37	7.34	145
1019034	1019033	9.19	92 2-	4 ACSR	0	438	358	129	304	21	15	1.07	8.41	293
1019035	1019034	10.34	55 2-	4 ACSR	0	377	308	122	223	15	11	0.66	9.07	126
1019036	1019035	10.35	37 2-	4 ACSR	0	377	308	122	154	11	8	0.00	9.07	0
OC146855	1019036	10.35	37 2-	REC_35_UNK	0	377	308	122	154	11	32	0.00	9.07	0
1019037	OC146855	10.58	37 2-	4 ACSR	0	366	300	120	154	11	8	0.10	9.18	15
0919025	1019037	13.86	32 2-	4 ACSR	0	264	216	104	130	9	7	0.64	9.81	53
1019030	1019037	10.70	1 1-	4 ACSR	0	0	296	120	6	0	1	0.00	9.18	0
1019040	1019035	10.36	3 1-	2 ACSR	0	0	308	122	7	0	1	0.00	9.07	0
1019023	1019034	9.25	29 1-	4 ACSR	0	0	354	128	44	6	5	0.02	8.43	0
OC146853	1019023	9.25	29 1-	REC_25_UNK	0	0	354	128	44	6	25	0.00	8.43	0
1019024	OC146853	10.54	29 1-	4 ACSR	0	0	301	120	44	6	5	0.28	8.71	10
1019028	1019024	11.27	6 1-	4 ACSR	0	0	277	116	0	0	0	0.00	8.71	0
1019029	1019028	11.77	1 1-	6 ACWC	0	0	263	114	0	0	0	0.00	8.71	0
1019025	1019024	11.52	8 1-	4 ACSR	0	0	270	115	24	3	3	0.08	8.79	1
1019027	1019025	11.62	0 1-	4 ACSR	0	0	267	115	0	0	0	0.00	8.79	0
SW146958-B	1019027	11.62	0 1-	Open	0	0	267	115	0	0	0	0.00	8.79	0
1019026	1019025	11.75	1 1-	4 ACSR	0	0	264	114	1	0	0	0.00	8.79	0
1019039	1019033	9.22	20 1-	4 ACSR	0	0	356	128	85	12	9	0.35	7.69	18
1020041	1020065	4.85	182 3-	336.4 ACSR	1120	1044	885	167	574	25	5	0.08	1.71	31
1020042	1020041	5.18	153 3-	336.4 ACSR	1083	1008	848	166	504	22	4	0.04	1.76	16
OC146858	1020042	5.18	153 3-	REC_50_UNK	1083	1008	848	166	504	22	46	0.00	1.76	0
1020043	OC146858	6.31	153 3-	336.4 ACSR	970	898	739	164	504	22	4	0.13	1.89	45
1020044	1020043	8.03	115 3-	1/0 ACSR	772	717	570	155	363	16	7	0.42	2.31	120
1120006	1020044	8.30	75 3-	1/0 ACSR	748	695	550	154	226	10	4	0.04	2.36	9
OC146862	1120006	8.30	73 3-	REC_25_UNK	748	695	550	154	222	10	40	0.00	2.36	0
1120007	OC146862	10.15	73 3-	1/0 ACSR	612	571	442	145	222	10	4	0.28	2.63	48
1121004	1120007	12.85	19 1-	4 ACSR	0	0	310	126	45	6	4	0.37	3.00	10

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1121003	1120007	13.01	39 1-	4 ACSR	0	0	305	125	128	17	12	1.10	3.74	84
1120010	1020044	8.12	20 1-	4 ACSR	0	0	560	154	61	8	6	0.03	2.35	2
1020068	1120010	8.28	18 1-	4 ACSR	0	0	544	153	50	6	5	0.05	2.39	2
OC146859	1020068	8.28	17 1-	REC_25_UNK	0	0	544	153	50	6	27	0.00	2.39	0
1020056	OC146859	8.92	17 1-	4 ACSR	0	0	488	147	50	6	5	0.16	2.55	6
1020058	1020056	9.95	3 1-	6 ACWC	0	0	415	139	9	1	1	0.03	2.58	0
1020057	1020056	9.79	5 1-	4 ACSR	0	0	424	140	25	3	2	0.06	2.62	0
1020067	1120010	8.29	2 1-	4 ACSR	0	0	543	153	11	1	1	0.01	2.35	0
1020053	1020041	5.38	22 1-	4 ACSR	0	0	774	162	44	5	4	0.07	1.78	2
0920061	0920042	1.27	26 2-	4 ACSR	0	1630	1553	171	102	6	5	0.12	0.47	10
OC146848	0920061	1.27	23 2-	REC_99_UNK	0	1630	1553	171	91	6	0	0.00	0.47	0
0919028	OC146848	2.34	23 2-	4 ACSR	0	1086	977	160	91	6	4	0.22	0.69	16
0919019	0919028	2.44	14 1-	4 ACSR	0	0	946	160	56	7	5	0.03	0.71	0
0919020	0919019	4.69	11 1-	6 ACWC	0	0	522	141	39	5	4	0.26	0.97	6

CKT 104 total losses: \$5,513

SUB 38, CKT 114

MILL 114	MILLERSBURG	0.00	487 3-	SBS_99_UNK	2293	2602	2574	178	1687	75	0	0.00	0.00	0
0920045	MILL 114	0.03	487 3-	336.4 ACSR	2278	2570	2544	178	1687	75	14	0.01	0.01	18
0920047	0920045	0.05	487 3-	336.4 ACSR	2267	2549	2524	178	1687	75	14	0.01	0.03	12
0920048	0920047	0.07	487 3-	336.4 ACSR	2259	2532	2508	178	1687	75	14	0.01	0.03	10
0920049	0920048	0.38	427 3-	336.4 ACSR	2122	2285	2259	177	1437	64	12	0.12	0.16	122
1020066	0920049	2.34	427 3-	4 ACSR	1008	1001	889	157	1435	64	46	4.82	4.98	6124
1020047	1020066	2.75	161 3-	4 ACSR	896	891	781	153	529	24	18	0.38	5.36	189
OC146913	1020047	2.75	157 3-	REC_70_UNK	896	891	781	153	521	24	35	0.00	5.36	0
1020050	OC146913	4.18	157 3-	4 ACSR	637	637	544	142	521	24	17	1.30	6.66	613
1020051	1020050	4.70	137 3-	4 ACSR	576	577	490	138	457	21	15	0.41	7.07	171
1020054	1020051	5.05	126 2-	4 ACSR	0	541	458	136	411	29	21	0.43	7.49	165
1020052	1020054	7.04	20 1-	4 ACSR	0	0	337	123	70	9	7	0.44	7.93	19
1020055	1020054	6.88	106 2-	4 ACSR	0	410	344	124	339	24	17	1.63	9.13	480
OC146916	1020055	6.88	90 2-	REC_25_UNK	0	410	344	124	261	18	75	0.00	9.13	0
1021024	OC146916	7.03	90 2-	4 ACSR	0	401	337	123	261	18	13	0.12	9.25	31
1021023	1021024	9.97	29 1-	4 ACSR	0	0	242	108	69	10	7	0.65	9.90	28
1021025	1021024	7.44	61 2-	2 ACSR	0	386	324	121	191	13	8	0.15	9.40	27
1021026	1021025	8.04	57 2-	4 ACSR	0	359	301	118	183	13	9	0.30	9.70	49
1021028	1021026	11.79	43 1-	4 ACSR	0	0	208	101	151	21	16	1.82	11.52	173
1020035	1020050	4.91	6 1-	6 ACWC	0	0	471	137	13	1	1	0.05	6.70	0
1020037	1020035	5.13	0 1-	6 ACWC	0	0	452	135	0	0	0	0.00	6.70	0
SW146960-A	1020037	5.13	0 1-	Open	0	0	452	135	0	0	0	0.00	6.70	0
1020036	1020035	5.33	4 1-	4 ACSR	0	0	437	134	8	1	1	0.01	6.71	0
1020048	1020066	2.48	253 3-	1/0 ACSR	986	978	864	156	799	37	16	0.08	5.06	57
OC146907	1020048	2.48	253 3-	REC_70_UNK	986	978	864	156	799	37	53	0.00	5.06	0
1020049	OC146907	4.29	253 3-	1/0 ACSR	757	741	623	149	799	37	16	1.08	6.14	725
0920060	1020049	5.21	235 3-	1/0 ACSR	677	661	546	145	731	34	15	0.50	6.64	310
1020033	0920060	6.72	26 1-	6 ACWC	0	0	416	134	110	15	11	0.54	7.18	38
1020034	1020033	6.81	2 1-	6 ACWC	0	0	410	133	8	1	1	0.00	7.18	0
SW146960-B	1020033	6.72	0 1-	Open	0	0	416	134	0	0	0	0.00	7.18	0
1020045	0920060	5.28	189 3-	1/0 ACSR	672	656	541	145	552	25	11	0.03	6.66	14
OC146910	1020045	5.28	189 3-	REC_35_UNK	672	656	541	145	552	25	74	0.00	6.66	0
1020046	OC146910	6.85	189 3-	1/0 ACSR	570	554	448	139	552	25	11	0.54	7.21	230
1021015	1020046	7.04	121 3-	4 ACSR	551	536	433	137	335	15	11	0.12	7.33	38
1021016	1021015	7.11	119 3-	1/0 ACSR	548	533	431	137	334	15	7	0.02	7.34	5

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1021017	1021016	9.17	77 3-	1/0 ACSR	460	446	353	130	203	9	4	0.29	7.64	49
1021021	1021017	9.18	57 1-	4 ACSR	0	0	353	130	157	22	16	0.01	7.64	0
OC146914	1021021	9.18	57 1-	REC_25_UNK	0	0	353	130	157	22	89	0.00	7.64	0
1021018	OC146914	10.75	57 1-	4 ACSR	0	0	291	120	157	22	16	1.31	8.95	169
1021022	1021018	11.72	2 1-	4 ACSR	0	0	263	115	11	1	1	0.03	8.98	0
1021020	1021018	14.77	21 1-	4 ACSR	0	0	200	101	61	8	6	0.77	9.72	30
1021019	1021018	12.36	14 1-	4 ACSR	0	0	246	112	33	4	3	0.17	9.12	3
1021027	1021016	8.20	41 1-	4 ACSR	0	0	365	129	129	18	13	0.56	7.90	50
0921003	1021027	8.27	8 1-	6 ACWC	0	0	361	129	32	4	3	0.01	7.91	0
0921004	0921003	8.58	4 1-	4 ACSR	0	0	346	127	8	1	1	0.01	7.92	0
SW146959-B	1020049	4.29	0 1-	Open	0	0	623	149	0	0	0	0.00	6.14	0
0920035	0920048	0.08	60 1-	4 ACSR	0	0	2498	177	250	33	24	0.01	0.04	2
OC146917	0920035	0.08	60 1-	35-L	0	0	2498	177	250	33	96	0.00	0.04	0
0920036	OC146917	3.10	60 1-	4 ACSR	0	0	668	148	250	33	24	2.24	2.28	326
SW146959-A	0920036	3.10	0 1-	Open	0	0	668	148	0	0	0	0.00	2.28	0
SW146866-B	0920047	0.05	0 3-	Open	2267	2549	2524	178	0	0	0	0.00	0.03	0
0920046	0920045	0.03	0 3-	336.4 ACSR	2277	2568	2543	178	0	0	0	0.00	0.01	0
SW146865-B	0920046	0.03	0 3-	Open	2277	2568	2543	178	0	0	0	0.00	0.01	0
CKT 114 total losses:	\$10,277													
SUB 38, CKT 124														
MILL_124	MILLERSBURG	0.00	354 3-	SBS_99_UNK	2293	2602	2574	178	1908	85	0	0.00	0.00	0
0920050	MILL_124	0.04	354 3-	336.4 ACSR	2276	2565	2540	178	1908	85	16	0.02	0.02	26
0920039	0920050	0.04	0 3-	336.4 ACSR	2275	2564	2538	178	0	0	0	0.00	0.02	0
SW146865-A	0920039	0.04	0 3-	Open	2275	2564	2538	178	0	0	0	0.00	0.02	0
0920051	0920050	0.41	354 3-	556.1 ACSR	2120	2254	2227	177	1908	85	12	0.14	0.16	160
0920052	0920051	2.19	353 3-	336.4 ACSR	1566	1507	1389	173	1904	85	16	0.90	1.06	1156
0920064	0920052	2.26	15 1-	4 ACSR	0	0	1351	172	137	18	13	0.05	1.11	6
OC146950	0920064	2.26	14 1-	REC_35_UNK	0	0	1351	172	120	16	46	0.00	1.11	0
0920065	OC146950	2.92	14 1-	4 ACSR	0	0	1055	165	120	16	12	0.25	1.36	18
0919027	0920065	3.46	2 1-	6 ACWC	0	0	881	160	5	0	0	0.01	1.36	0
0920053	0920052	2.70	293 3-	3/0 ACSR	1423	1354	1221	171	1570	70	24	0.39	1.45	469
0920054	0920053	2.77	283 3-	4 ACSR	1394	1326	1190	170	1484	66	48	0.19	1.63	252
OC146953	0920054	2.77	283 3-	REC_70_UNK	1394	1326	1190	170	1482	66	96	0.00	1.63	0
0920055	OC146953	3.51	283 3-	4 ACSR	1119	1075	926	163	1482	66	48	1.89	3.53	2508
0920057	0920055	4.24	269 3-	1/0 ACSR	988	945	796	159	1393	63	28	0.77	4.30	913
0920037	0920057	4.66	63 1-	4 ACSR	0	0	711	155	297	41	29	0.76	5.06	203
OC146954	0920037	4.66	61 1-	REC_50_UNK	0	0	711	155	287	39	80	0.00	5.06	0
0820049	OC146954	6.18	61 1-	4 ACSR	0	0	508	143	287	39	29	2.08	7.14	460
0820028	0820049	6.60	17 1-	4 ACSR	0	0	470	140	67	9	7	0.16	7.30	10
0820023	0820028	6.94	14 1-	6 ACWC	0	0	443	137	57	8	6	0.07	7.37	2
0820024	0820023	7.21	3 1-	4 ACSR	0	0	423	135	5	0	1	0.00	7.37	0
0820027	0820049	7.12	16 1-	4 ACSR	0	0	430	136	87	12	9	0.26	7.40	14
0920058	0920057	5.16	199 3-	1/0 ACSR	858	819	675	155	1071	49	21	0.73	5.03	662
0820052	0920058	6.50	177 3-	1/0 ACSR	721	686	553	149	952	44	19	0.90	5.93	700
0820030	0820052	6.89	109 3-	1/0 ACSR	689	656	526	147	681	31	14	0.20	6.14	121
OC146957	0820030	6.89	109 3-	REC_70_UNK	689	656	526	147	680	31	45	0.00	6.14	0
0820031	OC146957	6.89	109 3-	1/0 ACSR	689	655	525	147	680	31	14	0.00	6.14	0
0820032	0820031	7.15	87 3-	1/0 ACSR	669	636	508	146	541	25	11	0.11	6.25	51
0820041	0820032	7.23	23 1-	6 ACWC	0	0	502	146	131	18	13	0.06	6.30	7
0820044	0820041	7.23	0 1-	4 ACSR	0	0	501	146	0	0	0	0.00	6.30	0
SW146961-A	0820044	7.23	0 1-	Open	0	0	501	146	0	0	0	0.00	6.30	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
0820042	0820041	7.28	23 1-	4 ACSR	0	0	497	145	131	18	13	0.04	6.35	5
0920074	0820042	7.35	22 1-	6 ACWC	0	0	491	145	131	18	13	0.05	6.40	7
0920068	0920074	8.26	22 1-	4 ACSR	0	0	422	138	131	18	13	0.37	6.77	30
0920073	0820032	7.29	60 3-	1/0 ACSR	659	626	500	146	394	18	8	0.04	6.29	14
0920067	0920073	7.59	13 1-	4 ACSR	0	0	474	143	79	11	8	0.07	6.36	4
SW146961-B	0920067	7.59	0 1-	Open	0	0	474	143	0	0	0	0.00	6.36	0
0920040	0920073	7.75	46 3-	1/0 ACSR	627	596	473	144	309	14	6	0.05	6.34	10
0820026	0820031	7.32	22 1-	4 ACSR	0	0	486	144	139	19	14	0.18	6.32	16
0820036	0820052	6.93	27 1-	6 ACWC	0	0	510	146	103	14	10	0.25	6.18	23
0820037	0820036	7.38	22 1-	4 ACSR	0	0	471	142	89	12	9	0.17	6.35	11
0820038	0820037	7.68	6 1-	6 ACWC	0	0	447	140	31	4	3	0.03	6.38	0
0920063	0920058	6.29	8 1-	4 ACSR	0	0	529	145	42	5	4	0.15	5.18	4
CKT 124 total losses:	\$7,862													
SUB 38 total losses:	\$23,652													

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 39 JACKSONVILLE			1031		5994	6097	6143	180	5115					
SUB 39, CKT 104														
JACK_104	JACKSONVILLE	0.00	206 3-	SBS_99_UNK	5994	6097	6143	180	856	38	0	0.00	0.00	0
1016046	JACK_104	0.01	206 3-	336.4 ACSR	5958	6041	6083	180	856	38	7	0.00	0.00	2
1016056	1016046	0.01	0 3-	336.4 ACSR	5950	6030	6070	180	0	0	0	0.00	0.00	0
SW146213-A	1016056	0.01	0 3-	Open	5950	6030	6070	180	0	0	0	0.00	0.00	0
0916106	1016046	1.13	206 3-	336.4 ACSR	3722	3522	3025	178	856	38	7	0.30	0.30	158
0916077	0916106	1.93	125 3-	336.4 ACSR	2910	2702	2205	176	619	28	5	0.16	0.46	60
0916097	0916077	1.94	44 1-	4 ACSR	0	0	2197	176	231	31	23	0.01	0.46	2
OC146238	0916097	1.94	44 1-	REC_35_UNK	0	0	2197	176	231	31	90	0.00	0.46	0
0916098	OC146238	3.97	44 1-	4 ACSR	0	0	848	156	231	31	23	1.47	1.94	195
SW146377-B	0916098	3.97	0 1-	Open	0	0	848	156	0	0	0	0.00	1.94	0
0916078	0916077	3.00	74 3-	4 ACSR	1628	1564	1232	165	367	16	12	0.63	1.08	193
0916079	0916078	3.68	27 3-	4 ACSR	1218	1189	937	158	131	5	4	0.14	1.22	15
0916080	0916079	4.04	8 3-	4 ACSR	1069	1050	829	155	18	0	1	0.01	1.23	0
0916094	0916079	4.01	13 1-	4 ACSR	0	0	838	155	77	10	8	0.15	1.37	9
0916095	0916094	4.34	11 1-	6 ACWC	0	0	758	152	66	9	6	0.11	1.48	5
0916096	0916095	4.74	4 1-	4 ACSR	0	0	678	149	39	5	4	0.05	1.53	0
0916063	0916078	3.00	30 1-	4 ACSR	0	0	1230	165	155	21	15	0.00	1.09	0
OC146239	0916063	3.00	30 1-	REC_50_UNK	0	0	1230	165	155	21	43	0.00	1.09	0
0916064	OC146239	3.41	30 1-	4 ACSR	0	0	1037	161	155	21	15	0.37	1.45	46
0916052	0916064	4.29	10 1-	4 ACSR	0	0	768	153	70	9	7	0.19	1.65	8
SW146376-A	0916052	4.29	0 1-	Open	0	0	768	153	0	0	0	0.00	1.65	0
0916065	0916064	4.40	15 1-	4 ACSR	0	0	745	152	60	8	6	0.19	1.64	6
0916090	0916106	1.23	69 1-	4 ACSR	0	0	2781	176	196	26	19	0.13	0.43	21
OC146237	0916090	1.23	69 1-	REC_35_UNK	0	0	2781	176	195	26	76	0.00	0.43	0
0917059	OC146237	2.35	69 1-	4 ACSR	0	0	1335	165	195	26	19	1.37	1.80	229
0917051	0917059	2.91	65 1-	2 ACSR	0	0	1094	161	193	26	15	0.45	2.24	69
1017042	0917051	3.11	59 1-	4 ACSR	0	0	1010	159	167	23	17	0.20	2.45	29
0917060	1017042	5.50	40 1-	4 ACSR	0	0	519	140	110	15	11	0.84	3.29	54
1017043	1017042	4.37	17 1-	4 ACSR	0	0	674	148	49	6	5	0.20	2.65	6
CKT 104 total losses:	\$1,107													
SUB 39, CKT 114														
JACK_114	JACKSONVILLE	0.00	607 3-	SBS_99_UNK	5994	6097	6143	180	3200	143	0	0.00	0.00	0
1016058	JACK_114	0.01	607 3-	336.4 ACSR	5966	6053	6096	180	3200	143	27	0.01	0.01	18
1016060	1016058	0.98	607 3-	336.4 ACSR	3915	3728	3315	178	3200	143	27	0.91	0.92	1948
1016061	1016060	1.06	604 3-	3/0 ACSR	3776	3584	3159	178	3164	143	48	0.13	1.05	309
1016063	1016061	1.17	27 1-	4 ACSR	0	0	2885	177	85	11	8	0.05	1.10	3
OC146332	1016063	1.17	23 1-	REC_99_UNK	0	0	2885	177	61	8	0	0.00	1.10	0
1016064	OC146332	2.67	23 1-	4 ACSR	0	0	1126	161	61	8	6	0.29	1.39	10
1016049	1016061	1.10	576 3-	3/0 ACSR	3713	3519	3090	178	3074	139	46	0.06	1.11	138
SW146242-A	1016049	1.10	576 3-	Closed	3713	3519	3090	178	3072	139	0	0.00	1.11	0
SW146242-B	SW146242-A	1.10	576 3-	Closed	3713	3519	3090	178	3072	139	0	0.00	1.11	0
1016050	SW146242-B	1.45	576 3-	3/0 ACSR	3194	2990	2549	176	3072	139	46	0.56	1.67	1312
1016062	1016050	1.45	0 1-	6 ACWC	0	0	2539	176	0	0	0	0.00	1.67	0
SW146379-A	1016062	1.45	0 1-	Open	0	0	2539	176	0	0	0	0.00	1.67	0
1017047	1016050	3.35	566 3-	3/0 ACSR	1781	1631	1289	169	3017	136	46	2.89	4.57	6680
1017039	1017047	3.36	45 1-	4 ACSR	0	0	1286	169	200	28	20	0.01	4.57	1
OC146319	1017039	3.36	45 1-	REC_99_UNK	0	0	1286	169	200	28	0	0.00	4.57	0
1017040	OC146319	4.11	45 1-	4 ACSR	0	0	968	162	200	28	20	0.62	5.19	83
1017041	1017040	5.84	19 1-	6 ACWC	0	0	597	147	55	7	6	0.31	5.50	10

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LIG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW146379-B	1017041	5.84	0 1-	Open	0	0	597	147	0	0	0.00	5.50	0	
1017031	1017047	3.94	489 3-	3/0 ACSR	1564	1434	1118	167	2595	119	40	0.77	5.34	1631
REG28	1017031	3.94	483 3-	219	1564	1434	1118	167	2551	118	54	-5.34	0.00	0
1017032	REG28	4.11	483 3-	3/0 ACSR	1511	1386	1076	167	2551	113	38	0.21	0.21	427
1017033	1017032	4.41	329 3-	3/0 ACSR	1424	1306	1009	166	1944	86	29	0.27	0.48	419
OC146325	1017033	4.41	306 3-	REC_50_UNK	1424	1306	1009	166	1821	80	162	0.00	0.48	0
1017034	OC146325	4.51	306 3-	3/0 ACSR	1398	1283	990	165	1821	80	27	0.08	0.56	123
1017028	1017034	5.86	306 3-	3/0 ACSR	1117	1026	778	161	1820	83	28	1.36	1.92	1758
1017029	1017028	6.55	283 3-	4 ACSR	926	869	656	154	1709	79	56	2.12	4.05	3257
1017030	1017029	6.64	262 3-	3/0 ACSR	916	859	648	154	1588	74	25	0.09	4.13	101
1117036	1017030	6.84	262 3-	1/0 ACSR	889	834	627	153	1587	74	33	0.26	4.40	344
1117046	1117036	6.94	0 1-	4 ACSR	0	0	614	152	0	0	0.00	4.40	0	
1117037	1117036	6.91	260 3-	1/0 ACSR	880	825	620	153	1580	74	32	0.09	4.49	121
OC146328	1117037	6.91	258 3-	70-L	880	825	620	153	1569	74	106	0.00	4.49	0
1117038	OC146328	7.75	258 3-	1/0 ACSR	784	737	551	149	1569	74	32	1.05	5.54	1318
1117039	1117038	8.27	236 3-	1/0 ACSR	734	690	514	147	1380	65	29	0.61	6.15	705
1117040	1117039	9.53	216 3-	1/0 ACSR	635	598	444	141	1251	59	26	1.31	7.46	1350
1117041	1117040	9.94	171 3-	1/0 ACSR	609	574	425	140	1006	48	21	0.34	7.80	292
1117042	1117041	10.07	145 3-	1/0 ACSR	601	566	419	139	886	42	19	0.10	7.90	74
1117044	1117042	10.40	50 2-	1/0 ACSR	0	547	406	138	418	30	13	0.19	8.09	61
1117035	1117044	10.85	29 1-	4 ACSR	0	0	380	135	241	35	25	0.62	8.71	122
1117052	1117035	11.56	19 1-	1/0 URD PRI AL	0	0	357	227	168	24	14	0.27	8.98	29
SW146378-B	1117052	11.56	0 1-	Open	0	0	357	227	0	0	0.00	8.98	0	
1117034	1117044	10.92	14 1-	4 ACSR	0	0	376	134	97	14	10	0.19	8.28	11
1117051	1117034	10.96	1 1-	1/0 URD PRI AL	0	0	375	235	9	1	1	0.00	8.28	0
SW146378-A	1117051	10.96	0 1-	Open	0	0	375	235	0	0	0.00	8.28	0	
1117043	1117042	10.24	93 3-	1/0 ACSR	591	557	412	139	462	22	10	0.05	7.95	18
1117027	1117043	10.60	70 1-	4 ACSR	0	0	391	136	285	41	30	0.68	8.63	172
OC146331	1117027	10.60	63 1-	REC_99_UNK	0	0	391	136	266	38	0	0.00	8.63	0
1117031	OC146331	12.27	63 1-	4 ACSR	0	0	314	125	266	38	28	2.10	10.73	412
1117033	1117031	13.11	15 1-	4 ACSR	0	0	286	120	91	13	10	0.26	10.99	15
1117032	1117031	13.99	6 1-	4 ACSR	0	0	261	115	16	2	2	0.09	10.82	0
1117047	1117041	10.39	23 1-	4 ACSR	0	0	397	136	103	14	11	0.24	8.04	19
1117048	1117047	11.28	12 1-	6 ACWC	0	0	351	130	54	7	6	0.16	8.20	5
1117028	1117040	9.65	34 1-	4 ACSR	0	0	436	141	180	26	19	0.13	7.59	22
OC146330	1117028	9.65	34 1-	REC_50_UNK	0	0	436	141	180	26	52	0.00	7.59	0
1117029	OC146330	10.15	34 1-	4 ACSR	0	0	404	137	180	26	19	0.38	7.97	48
1117030	1117029	11.45	15 1-	6 ACWC	0	0	338	128	50	7	5	0.21	8.19	6
1017045	1117039	9.66	20 1-	4 ACSR	0	0	408	136	123	17	13	0.56	6.71	41
1117049	1117038	7.75	10 1-	4 ACSR	0	0	550	149	44	6	4	0.00	5.54	0
OC146329	1117049	7.75	10 1-	REC_99_UNK	0	0	550	149	44	6	0	0.00	5.54	0
1017049	OC146329	8.76	10 1-	4 ACSR	0	0	458	141	44	6	4	0.14	5.68	4
CA145028	1017034	4.51	0 3-	Capacitor	1398	1283	990	165	0	-14	0	0.00	0.56	0
1017035	1017032	4.13	154 2-	4 ACSR	0	1374	1067	166	603	41	29	0.05	0.26	24
OC146321	1017035	4.13	154 2-	REC_50_UNK	0	1374	1067	166	603	41	82	0.00	0.26	0
1017036	OC146321	6.16	154 2-	4 ACSR	0	769	600	148	603	41	29	2.37	2.63	970
1017037	1017036	7.84	21 2-	4 ACSR	0	547	433	135	56	3	3	0.14	2.77	5
0917052	1017037	7.84	0 1-	4 ACSR	0	0	433	135	0	0	0	0.00	2.77	0
1017023	1017036	6.26	44 1-	4 ACSR	0	0	587	147	138	19	14	0.09	2.71	11
OC146322	1017023	6.26	44 1-	REC_35_UNK	0	0	587	147	138	19	55	0.00	2.71	0
1017027	OC146322	6.27	2 1-	4 ACSR	0	0	586	147	8	1	1	0.00	2.71	0
1017024	OC146322	7.45	42 1-	4 ACSR	0	0	463	138	130	18	13	0.70	3.41	64

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS	
SUB 40 OXFORD			630		1964185600	1964185600	1964185600		180	5659					
SUB 40, CKT 104															
OXFD_104	OXFORD	0.00	266 3-	SBS_99_UNK	1964185600	1964185600	1964185600		180	2702	121	0	0.00	0.00	
1015080	OXFD_104	0.10	266 3-	336.4 ACSR	107932	96277	61912	180	2702	121	23	0.08	0.08	140	
1015132	1015080	0.13	266 3-	500 MCM URD	PRI	93214	84015	56939	478	2701	121	32	0.02	0.10	
1015081	1015132	0.51	266 3-	336.4 ACSR	21116	19246	13530	179	2701	121	23	0.31	0.41	553	
1015082	1015081	1.68	265 3-	1/0 ACSR	4129	3898	2784	173	2688	121	53	2.44	2.85	5332	
OC146785	1015082	1.68	262 3-	70-L	4129	3898	2784	173	2633	120	173	0.00	2.85	0	
1015074	OC146785	1.78	262 3-	1/0 ACSR	3870	3656	2613	173	2633	120	53	0.20	3.05	435	
RG145048	1015074	1.78	261 3-	219	3870	3656	2613	173	2630	120	55	-3.05	0.00	0	
1015075	RG145048	1.85	261 3-	1/0 ACSR	3692	3488	2494	172	2630	118	51	0.15	0.15	320	
RG145051	1015075	1.85	261 3-	219	3692	3488	2494	172	2627	118	54	-0.15	0.00	0	
1015076	RG145051	2.29	261 3-	1/0 ACSR	2901	2745	1966	170	2627	117	51	0.88	0.88	1864	
1016047	1015076	3.11	207 3-	1/0 ACSR	2069	1961	1408	166	2182	98	43	1.34	2.21	2345	
1016081	1016047	4.22	18 3-	1/0 ACSR	1491	1435	1017	161	177	8	3	0.08	2.29	7	
1015085	1016047	3.31	174 3-	1/0 ACSR	1937	1837	1319	165	1845	84	37	0.28	2.49	427	
1015086	1015085	3.54	155 3-	1/0 ACSR	1798	1706	1225	164	1604	73	32	0.29	2.79	393	
1015116	1015086	4.19	10 1-	2 ACSR	0	0	994	160	98	13	7	0.14	2.92	8	
1015087	1015086	4.33	144 3-	1/0 ACSR	1449	1376	989	160	1498	68	30	0.90	3.68	1098	
1115022	1015087	5.59	106 3-	1/0 ACSR	1108	1053	757	155	1142	52	23	1.04	4.72	948	
OC146789	1115022	5.59	89 3-	REC_35_UNK	1108	1053	757	155	958	44	127	0.00	4.72	0	
1115014	OC146789	5.82	89 3-	1/0 ACSR	1062	1009	727	154	958	44	19	0.17	4.89	137	
1115015	1115014	6.44	13 1-	6 ACWC	0	0	622	149	69	9	7	0.13	5.03	5	
1115012	1115014	6.59	72 3-	1/0 ACSR	933	887	642	151	833	38	17	0.48	5.37	331	
1115013	1115012	6.63	48 3-	1/0 ACSR	928	883	639	150	553	25	11	0.01	5.39	7	
1115019	1115013	6.67	48 3-	1/0 URD	PRI	AL	922	877	636	303	553	25	15	0.02	5.41
1115020	1115019	6.72	30 2-	1/0 URD	PRI	AL	0	871	632	302	328	23	14	0.02	5.43
1115016	1115020	7.30	30 2-	2 ACSR	0	0	780	571	147	328	23	13	0.26	5.70	
1116003	1115016	7.74	13 1-	2 ACSR	0	0	532	144	126	17	10	0.12	5.82	9	
1116004	1116003	7.87	1 1-	4 ACSR	0	0	518	143	2	0	0	0.00	5.82	0	
1115017	1115012	7.44	13 1-	1/0 URD	PRI	AL	0	0	568	285	192	26	16	0.49	5.87
1115011	1115017	7.47	6 1-	2 ACSR	0	0	565	146	76	10	6	0.01	5.88	0	
1116006	1115011	8.08	6 1-	1/0 URD	PRI	AL	0	0	521	271	76	10	6	0.10	5.98
1015115	1015087	5.11	21 1-	1/0 ACSR	0	0	838	157	251	34	15	0.29	3.97	39	
1015072	1015085	4.54	18 1-	2 ACSR	0	0	894	157	225	30	17	0.59	3.08	75	
1016070	1015076	2.37	46 1-	2 ACSR	0	0	1883	170	385	52	29	0.12	1.00	39	
1016071	1016070	2.37	45 1-	4 ACSR	0	0	1876	170	374	50	36	0.01	1.01	4	
OC146786	1016071	2.37	45 1-	REC_99_UNK	0	0	1876	170	373	50	0	0.00	1.01	0	
1016076	OC146786	4.11	44 1-	4 ACSR	0	0	830	153	367	49	35	1.97	2.98	423	
1016078	1016076	4.21	0 1-	4 ACSR	0	0	803	152	0	0	0	0.00	2.98	0	
1016077	1016076	4.30	1 1-	2 ACSR	0	0	792	152	6	0	0	0.00	2.98	0	
1016072	OC146786	2.39	1 1-	2 ACSR	0	0	1857	169	7	0	0	0.00	1.01	0	
CKT 104 total losses:	\$15,139														
SUB 40, CKT 114															
OXFD_114	OXFORD	0.00	173 3-	SBS_99_UNK	1964185600	1964185600	1964185600		180	1140	50	0	0.00	0.00	
1015105	OXFD_114	0.33	173 3-	336.4 ACSR	32162	29158	19856	179	1140	50	10	0.06	0.06	81	
1015106	1015105	1.14	173 3-	1/0 ACSR	5990	5652	4013	175	1139	50	22	0.52	0.58	614	
1015121	1015106	1.20	12 1-	6 ACWC	0	0	3716	175	52	6	5	0.02	0.60	0	
1015122	1015121	1.26	10 1-	4 ACSR	0	0	3416	174	41	5	4	0.01	0.61	0	
1015114	1015122	2.14	6 1-	8 ACWC	0	0	1313	161	26	3	4	0.10	0.71	2	
1015107	1015106	1.24	151 3-	1/0 ACSR	5454	5150	3662	175	1015	45	20	0.05	0.64	60	

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1015077	1015107	1.31	148 3-	3/0 ACSR	5180	4887	3474	175	973	43	15	0.02	0.66	27
1015078	1015077	1.96	148 3-	1/0 ACSR	3306	3129	2236	171	973	43	19	0.30	0.95	312
1015079	1015078	2.40	70 3-	3/0 ACSR	2767	2610	1862	170	447	22	8	0.01	0.97	42
0915066	1015079	2.83	65 3-	3/0 ACSR	2388	2247	1602	168	413	18	6	0.08	1.05	25
0915093	0915066	3.08	13 1-	4 ACSR	0	0	1397	166	105	14	10	0.14	1.19	12
0915094	0915093	3.38	11 1-	6 ACWC	0	0	1207	163	85	11	8	0.08	1.27	4
0915067	0915066	3.38	44 3-	3/0 ACSR	2031	1906	1358	167	243	10	4	0.06	1.11	10
0915068	0915067	4.57	12 3-	3/0 ACSR	1531	1432	1020	163	78	3	1	0.02	1.13	0
OC146982	0915068	4.57	0 3-	REC_99_UNK	1531	1432	1020	163	0	0	0	0.00	1.13	0
0915092	0915067	3.94	11 1-	4 ACSR	0	0	1056	161	45	6	4	0.08	1.19	2
0916108	0915067	3.87	7 1-	2 ACSR	0	0	1139	163	57	7	4	0.06	1.17	2
CA145031	1015079	2.40	0 3-	Capacitor	2767	2610	1862	170	0	-14	0	0.00	0.97	0
1016082	1015078	2.29	47 1-	4 ACSR	0	0	1745	168	298	40	29	0.60	1.55	154
OC146790	1016082	2.29	45 1-	REC_50_UNK	0	0	1745	168	289	39	79	0.00	1.55	0
1016073	OC146790	2.54	38 1-	4 ACSR	0	0	1500	165	247	33	24	0.35	1.90	73
1016075	1016073	3.72	24 1-	2 ACSR	0	0	985	158	150	20	11	0.43	2.33	40
0916092	1016075	3.83	4 1-	6 ACWC	0	0	945	157	25	3	2	0.02	2.35	0
0916093	0916092	3.98	3 1-	4 ACSR	0	0	896	156	25	3	2	0.01	2.36	0
1016074	1016073	3.37	9 1-	4 ACSR	0	0	1010	158	71	9	7	0.18	2.08	7
1016069	OC146790	2.30	7 1-	4 ACSR	0	0	1736	168	42	5	4	0.00	1.55	0
CKT 114 total losses:		\$1,467												
SUB 40, CKT 124														
OXFD_124	OXFORD	0.00	191 3-	SBS_99_UNK196418560019641856001964185600	180				180	1816	81	0	0.00	0.00
1015096	OXFD_124	0.34	191 3-	336.4 ACSR	31093	28189	19196	179	1816	81	15	0.18	0.18	217
1015097	1015096	0.83	187 3-	336.4 ACSR	12714	11588	8088	179	1799	80	15	0.25	0.43	304
1015098	1015097	1.14	169 3-	336.4 ACSR	9182	8378	5875	178	1687	75	14	0.16	0.59	177
OC146793	1015098	1.14	164 3-	REC_50_UNK	9182	8378	5875	178	1669	75	150	0.00	0.59	0
1015083	OC146793	1.84	164 3-	336.4 ACSR	5714	5220	3677	177	1669	75	14	0.33	0.92	371
1015084	1015083	2.65	155 3-	336.4 ACSR	3959	3618	2555	175	1607	72	14	0.37	1.29	397
1015100	1015084	2.76	99 3-	336.4 ACSR	3814	3486	2462	175	1009	45	9	0.03	1.32	20
OC146782	1015100	2.76	99 3-	REC_99_UNK	3814	3486	2462	175	1009	45	0	0.00	1.32	0
1015101	OC146782	3.98	99 3-	336.4 ACSR	2643	2416	1709	173	1009	45	9	0.36	1.67	244
1015102	1015101	4.18	95 3-	336.4 ACSR	2514	2298	1623	172	990	44	8	0.06	1.73	39
1015071	1015102	4.20	31 1-	4 ACSR	0	0	1608	172	237	32	23	0.03	1.76	5
1015126	1015071	4.36	31 1-	1/0 URD PRI AL	0	0	1529	412	236	32	19	0.16	1.92	34
1015128	1015126	4.50	3 1-	1/0 URD PRI AL	0	0	1464	406	31	4	2	0.01	1.93	0
SW146803-A	1015128	4.50	0 1-	Open	0	0	1464	406	0	0	0	0.00	1.93	0
1015127	1015126	5.59	27 1-	1/0 URD PRI AL	0	0	1078	364	201	27	16	0.52	2.44	63
SW146803-B	1015127	5.59	0 1-	Open	0	0	1078	364	0	0	0	0.00	2.44	0
1015103	1015102	4.38	63 3-	336.4 ACSR	2398	2191	1544	172	743	33	6	0.04	1.78	22
1015104	1015103	5.13	1 3-	336.4 ACSR	2049	1870	1311	170	0	0	0	0.00	1.78	0
1015070	1015103	4.89	62 1-	2 ACSR	0	0	1278	168	742	101	56	1.56	3.33	962
1015125	1015070	5.25	16 1-	1/0 URD PRI AL	0	0	1163	381	224	30	18	0.17	3.50	23
1015131	1015070	5.99	43 1-	1/0 URD PRI AL	0	0	972	354	479	66	39	1.13	4.46	326
1015094	1015084	3.53	41 3-	1/0 ACSR	2546	2361	1668	171	499	22	10	0.33	1.62	135
1015095	1015094	4.03	33 3-	1/0 ACSR	2100	1957	1385	168	461	20	9	0.13	1.75	40
1015118	1015095	4.57	25 1-	6 ACWC	0	0	1096	163	202	27	20	0.41	2.16	54
1015120	1015118	4.66	7 1-	6 ACWC	0	0	1057	162	50	6	5	0.01	2.17	0
1015119	1015118	4.77	2 1-	4 ACSR	0	0	1013	161	1	0	0	0.00	2.16	0
1015117	1015094	4.85	4 1-	4 ACSR	0	0	923	158	26	3	3	0.10	1.72	2
1015067	1015097	0.87	10 1-	4 ACSR	0	0	7192	178	67	8	6	0.01	0.45	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - EXISTING SYSTEM WITH PROPOSED WINTER 2009/10 LOADS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1015068	1015067	1.38	7 1-	8 ACWC	0	0	2507	170	37	4	5	0.09	0.53	2
1015069	1015068	1.47	1 1-	4 ACSR	0	0	2294	169	2	0	0	0.00	0.53	0
CKT 124 total losses:		\$3,437												
SUB 40 total losses:		\$20,043												
Total System Losses:		\$1,162,340												

APPENDIX # 1

BGE LOAD-FLOW ANALYSIS

2010 SYSTEM WITH 2010 LOADING

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 0	SOUTHPOINT		278		5514	5684	5734	180	5404					
SUB 0	CKT 1													
	OC434	SOUTHPOINT	0.00	250 3-	_DefaultBayEqui	5514	5684	5734	180	1223	54	0	0.00	0.00
	OH435	OC434	0.06	250 3-	336.4 ACSR	5348	5428	5458	180	1223	54	10	0.02	0.02
	1415547	OH435	0.12	56 1-	4 ACSR	0	0	5084	179	418	56	40	0.14	0.17
	1415548	1415547	0.53	56 1-	1/0 ACSR	0	0	3544	177	418	56	24	0.24	0.41
	1415394	OH435	0.89	194 3-	336.4 ACSR	3823	3669	3178	178	804	35	7	0.15	0.17
	1415730	1415394	1.75	154 3-	1/0 ACSR	2581	2379	1988	173	514	22	10	0.29	0.46
	1515191	1415730	1.79	31 3-	4/0 ACSR	2554	2353	1962	173	195	8	3	0.00	0.46
	1515192	1515191	2.25	31 3-	1/0 ACSR	2159	1996	1630	171	195	8	4	0.03	0.50
	1515184	1415730	1.81	60 3-	4/0 ACSR	2536	2335	1946	173	182	8	2	0.00	0.47
	1515257	1515184	1.84	48 1-	1/0 ACSR	0	0	1921	173	135	18	8	0.01	0.48
	1515258	1515257	1.85	48 1-	2 ACSR	0	0	1915	173	135	18	10	0.00	0.48
	OC101651	1515258	1.85	48 1-	REC_35_UNK	0	0	1915	173	135	18	52	0.00	0.48
	1515250	OC101651	2.04	48 1-	2 ACSR	0	0	1741	172	135	18	10	0.08	0.56
	1515251	1515250	2.26	24 1-	4 ACSR	0	0	1545	169	66	8	6	0.04	0.60
	1515183	1515184	2.25	8 3-	4/0 ACSR	2233	2049	1670	172	32	1	0	0.00	0.47
	OC101650	1515183	2.25	6 3-	REC_100_UNK	2233	2049	1670	172	18	0	1	0.00	0.47
	1515182	OC101650	2.39	6 3-	4/0 ACSR	2152	1974	1599	171	18	0	0	0.00	0.47
	1515240	1515182	2.40	5 1-	6 ACWC	0	0	1588	171	11	1	1	0.00	0.47
	OC101647	1515240	2.40	5 1-	REC_35_UNK	0	0	1588	171	11	1	4	0.00	0.47
	1515241	OC101647	3.00	5 1-	6 ACWC	0	0	1201	165	11	1	1	0.03	0.50
	1515242	1515241	3.17	1 1-	4 ACSR	0	0	1119	164	4	0	0	0.00	0.50
	1515181	1515182	2.42	0 3-	4/0 ACSR	2135	1957	1584	171	0	0	0	0.00	0.47
	1515180	1515181	2.48	0 3-	4/0 ACSR	2105	1930	1558	171	0	0	0	0.00	0.47
CKT 1	total losses:		\$325											
SUB 0	CKT 2													
	OC487	SOUTHPOINT	0.00	28 3-	_DefaultBayEqui	5514	5684	5734	180	4182	200	0	0.00	0.00
	OH489	OC487	0.86	28 3-	336.4 ACSR	3857	3701	3374	178	4182	200	38	1.43	1.43
	1415387	OH489	0.88	28 3-	1/0 ACSR	3822	3664	3334	178	4153	200	87	0.07	1.50
	1415610	1415387	0.88	28 3-	500 MCM URD PRI	3822	3663	3333	464	4151	200	52	0.00	1.50
SW-194515190-B		1415610	0.88	28 3-	Closed	3822	3663	3333	464	4151	200	0	0.00	1.50
SW-194515190-A	SW-194515190-B		0.88	28 3-	Closed	3822	3663	3333	464	4151	200	0	0.00	1.50
1415611	SW-194515190-A		1.00	28 3-	500 MCM URD PRI	3755	3603	3285	463	4151	200	52	0.15	1.65
SW2078374425-B		1415611	1.00	28 3-	Closed	3755	3603	3285	463	4147	200	0	0.00	1.65
SW2078374425-A	SW2078374425-B		1.00	28 3-	Closed	3755	3603	3285	463	4147	200	0	0.00	1.65
1415388	SW2078374425-A		1.01	28 3-	336.4 ACSR	3747	3595	3276	178	4147	200	38	0.01	1.66
1415620	1415388		1.01	2 3-	4/0 AL URD PRI	3745	3593	3274	462	0	0	0	0.00	1.66
OC1310839836	1415620		1.01	2 3-	_DefaultBayEqui	3745	3593	3274	462	0	0	0	0.00	1.66
1415621	OC1310839836		1.08	2 3-	4/0 AL URD PRI	3676	3544	3197	460	0	0	0	0.00	1.66
1415622	1415621		1.10	2 3-	1/0 URD PRI AL	3650	3521	3174	459	0	0	0	0.00	1.66
1415612	1415388		1.17	26 3-	500 MCM URD PRI	3656	3513	3210	461	4146	200	52	0.21	1.86
NEWCAP-05A452FC	1415612		1.17	0 3-	Capacitor	3656	3513	3210	461	0	-14	0	0.00	1.86
1415613	1415612		1.18	20 3-	1/0 URD PRI AL	3651	3509	3205	460	0	0	0	0.00	1.86
OC1179294980	1415613		1.18	20 3-	_DefaultBayEqui	3651	3509	3205	460	0	0	0	0.00	1.86
1415374	OC1179294980		1.47	20 3-	336.4 ACSR	3325	3160	2810	177	0	0	0	0.00	1.86
1415617	1415374		1.47	2 3-	4/0 AL URD PRI	3323	3159	2808	456	0	0	0	0.00	1.86
OC358487544	1415617		1.47	2 3-	_DefaultBayEqui	3323	3159	2808	456	0	0	0	0.00	1.86
1415618	OC358487544		1.82	2 3-	4/0 AL URD PRI	3050	2940	2522	445	0	0	0	0.00	1.86
1415619	1415618		1.94	0 3-	1/0 URD PRI AL	2927	2823	2417	440	0	0	0	0.00	1.86
1415375	1415374		1.50	18 3-	336.4 ACSR	3289	3122	2768	177	0	0	0	0.00	1.86

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES CONS	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS	
	1415376	1.58	15 3-	336.4 ACSR	3210	3039	2677	177	0	0	0	0.00	1.86	0	
	1415564	1.58	12 3-	1/0 URD PRI AL	3209	3038	2676	454	0	0	0	0.00	1.86	0	
OC1874110221	1415564	1.58	12 3-	_DefaultBayEqui	3209	3038	2676	454	0	0	0	0.00	1.86	0	
	1415562	1.62	12 3-	1/0 URD PRI AL	3174	3007	2647	452	0	0	0	0.00	1.86	0	
	1415393	1.61	3 3-	336.4 ACSR	3179	3006	2642	177	0	0	0	0.00	1.86	0	
	1415616	1.62	3 3-	1/0 URD PRI AL	3177	3005	2640	453	0	0	0	0.00	1.86	0	
OC1130261872	1415616	1.62	3 3-	_DefaultBayEqui	3177	3005	2640	453	0	0	0	0.00	1.86	0	
	1415563	1.63	3 3-	1/0 URD PRI AL	3162	2992	2628	453	0	0	0	0.00	1.86	0	
	1415614	1.50	3 3-	1/0 URD PRI AL	3286	3119	2765	455	0	0	0	0.00	1.86	0	
OC1362282729	1415614	1.50	3 3-	_DefaultBayEqui	3286	3119	2765	455	0	0	0	0.00	1.86	0	
	1415615	1.53	3 3-	1/0 URD PRI AL	3260	3096	2744	454	0	0	0	0.00	1.86	0	
LP SPOT LOAD	1415612	1.17	3 3-	Consumer	3656	3513	3210	461	4140	205	0	0.00	1.86	0	
CKT 2 total losses:	\$4,842														
SUB 0, CKT 3															
	OCD488	SOUTHPOINT	0.00	0 3-	_DefaultBayEqui	5514	5684	5734	180	0	0	0	0.00	0.00	0
	OH490	OCD488	0.84	0 3-	336.4 ACSR	3895	3742	3420	178	0	0	0	0.00	0.00	0
CKT 3 total losses:	\$0														
SUB 0 total losses:	\$5,167														

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 0, CKT 2														
OC428	POWELL TAYLOR	0.00	349 3-	_DefaultBayEqui	5564	5843	5898	180	2162	97	0	0.00	0.00	0
OH432	OC428	0.05	349 3-	336.4 ACSR	5438	5637	5682	180	2162	97	18	0.03	0.03	43
1310077	OH432	0.67	349 3-	336.4 ACSR	4154	4015	3714	178	2162	97	18	0.39	0.43	541
1410078	1310077	2.09	329 3-	336.4 ACSR	2682	2488	2059	175	1979	89	17	0.82	1.25	1040
1409068	1410078	2.18	310 3-	1/0 ACSR	2599	2404	1983	175	1823	82	36	0.12	1.36	178
OC400551	1409068	2.18	310 3-	REC_70_UNK	2599	2404	1983	175	1821	82	118	0.00	1.36	0
1409069	OC400551	2.79	310 3-	1/0 ACSR	2099	1926	1548	172	1821	82	36	0.87	2.24	1287
1409070	1409069	2.80	301 3-	1/0 ACSR	2093	1921	1543	172	1769	81	35	0.01	2.25	17
SW400413-B	1409070	2.80	301 3-	Closed	2093	1921	1543	172	1769	81	0	0.00	2.25	0
SW400413-A	SW400413-B	2.80	301 3-	Closed	2093	1921	1543	172	1769	81	0	0.00	2.25	0
1409056	SW400413-A	2.90	301 3-	1/0 ACSR	2026	1862	1488	171	1769	81	35	0.14	2.39	203
1409057	1409056	3.22	258 3-	1/0 ACSR	1840	1695	1337	170	1505	69	30	0.38	2.77	464
1409058	1409057	3.72	220 3-	1/0 ACSR	1608	1486	1155	167	1342	61	27	0.52	3.28	570
1309067	1409058	4.60	218 3-	1/0 ACSR	1308	1215	928	163	1293	59	26	0.88	4.17	930
1309054	1309067	5.29	199 3-	1/0 ACSR	1140	1062	803	159	1181	54	24	0.63	4.80	613
OC400556	1309054	5.29	191 3-	35-H	1140	1062	803	159	1109	51	148	0.00	4.80	0
1309055	OC400556	5.43	191 3-	1/0 ACSR	1111	1035	782	159	1109	51	23	0.12	4.92	113
1309048	1309055	6.10	68 2-	1/0 ACSR	0	920	697	156	399	27	12	0.33	5.25	100
1309057	1309048	6.65	35 1-	1/0 ACSR	0	0	640	153	196	27	12	0.28	5.52	40
1309058	1309057	7.70	29 1-	1/0 ACSR	0	0	553	149	136	19	8	0.22	5.74	16
1309042	1309048	6.65	20 1-	1/0 ACSR	0	0	640	153	119	16	7	0.16	5.41	13
1309043	1309042	7.74	14 1-	1/0 ACSR	0	0	550	149	71	9	4	0.13	5.53	5
1309044	1309043	8.00	2 1-	1/0 ACSR	0	0	532	148	5	0	0	0.00	5.53	0
SW400742-A	1309044	8.00	0 1-	Open	0	0	532	148	0	0	0	0.00	5.53	0
1309056	1309055	5.44	115 3-	1/0 ACSR	1108	1033	780	159	667	31	14	0.01	4.93	4
1309060	1309056	7.05	115 3-	1/0 ACSR	856	803	604	152	667	31	14	0.81	5.73	436
1309050	1309060	7.13	96 3-	1/0 ACSR	846	793	597	151	580	27	12	0.04	5.77	19
1309049	1309050	7.38	96 3-	1/0 ACSR	817	767	577	150	580	27	12	0.11	5.88	54
1309034	1309049	7.86	45 1-	4 ACSR	0	0	524	146	328	46	33	0.97	6.85	277
1309035	1309034	8.00	42 1-	2 ACSR	0	0	514	145	294	41	23	0.17	7.02	41
1309047	1309035	8.13	40 1-	4 ACSR	0	0	501	144	257	36	26	0.20	7.22	45
1309046	1309047	8.33	36 1-	2 ACSR	0	0	487	143	220	31	17	0.17	7.38	30
1309045	1309046	10.25	33 1-	1/0 ACSR	0	0	399	136	158	22	10	0.47	7.86	41
1308022	1309049	10.65	48 1-	6 ACWC	0	0	339	127	212	30	21	2.19	8.07	280
1309041	1309067	5.45	8 1-	4 ACSR	0	0	724	155	34	4	3	0.09	4.26	2
1409044	1409057	3.23	31 1-	4 ACSR	0	0	1334	170	117	16	12	0.00	2.77	0
OC400553	1409044	3.23	31 1-	REC_35_UNK	0	0	1334	170	117	16	46	0.00	2.77	0
1409045	OC400553	6.39	31 1-	4 ACSR	0	0	520	141	117	16	12	1.25	4.02	90
1409046	1409045	6.44	1 1-	2 ACSR	0	0	517	141	10	1	1	0.00	4.02	0
1409075	1409056	3.12	41 1-	6 ACWC	0	0	1350	169	206	28	20	0.26	2.65	45
OC400552	1409075	3.12	39 1-	REC_35_UNK	0	0	1350	169	189	25	74	0.00	2.65	0
1309068	OC400552	4.86	39 1-	6 ACWC	0	0	731	153	189	25	19	1.01	3.65	112
CKT 2 total losses:		\$7,649												
SUB 0, CKT 3														
OC429	POWELL TAYLOR	0.00	189 3-	_DefaultBayEqui	5564	5843	5898	180	955	42	0	0.00	0.00	0
OH431	OC429	0.04	189 3-	336.4 ACSR	5445	5647	5693	180	955	42	8	0.01	0.01	8
1310083	OH431	0.06	189 3-	3/0 ACSR	5385	5548	5592	180	955	42	14	0.01	0.02	6
OC400540	1310083	0.06	189 3-	70-L	5385	5548	5592	180	955	42	61	0.00	0.02	0
1310084	OC400540	0.07	189 3-	3/0 ACSR	5342	5478	5519	180	955	42	14	0.01	0.03	5
1410079	1310084	1.93	189 3-	3/0 ACSR	2365	2182	1825	173	955	42	14	0.78	0.80	499

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LINE SECT	PRIOR SECT	MILES CONS	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 1, NICHOLASVILLE			835		5649	5822	5884	180	7906					
SUB 1, CKT 104														
NICH_104	NICHOLASVILLE	0.00	160 3-	SBS_99_UNK	5649	5822	5884	180	858	38 0	0.00	0.00	0.00	0
1515215	NICH_104	0.46	160 3-	4/0 ACSR	4397	4302	3974	178	858	38 11	0.18	0.18	106	0
1515276	1515215	0.50	1 1-	1/0 URD PRI AL	0	0	3864	464	11	1 1	0.00	0.18	0	0
SW100965-A	1515276	0.50	0 1-	Open	0	0	3864	464	0	0 0	0.00	0.18	0	0
1515216	1515215	0.51	157 3-	4/0 ACSR	4278	4170	3819	178	834	37 11	0.02	0.20	12	0
1515275	1515216	0.77	7 1-	1/0 URD PRI AL	0	0	3247	452	62	8 5	0.03	0.24	1	0
SW100965-B	1515275	0.77	0 1-	Open	0	0	3247	452	0	0 0	0.00	0.24	0	0
1515217	1515216	1.69	148 3-	4/0 ACSR	2689	2505	2066	175	740	33 10	0.35	0.55	162	0
1614296	1515217	2.33	5 3-	4/0 ACSR	2232	2057	1652	173	21	0 0	0.00	0.55	0	0
1514367	1515217	1.71	112 2-	4 ACSR	0	2469	2037	174	509	34 25	0.03	0.58	15	0
OC100767	1514367	1.71	112 2-	REC_70_UNK	0	2469	2037	174	509	34 50	0.00	0.58	0	0
1514368	OC100767	2.34	112 2-	4 ACSR	0	1761	1428	168	509	34 25	0.66	1.24	235	0
1514352	1514368	2.41	44 1-	4 ACSR	0	0	1381	167	206	28 20	0.08	1.32	14	0
1514363	1514352	2.71	21 1-	4 ACSR	0	0	1197	164	125	17 12	0.12	1.44	9	0
1514362	1514352	2.64	15 1-	4 ACSR	0	0	1237	165	56	7 5	0.04	1.36	1	0
CKT 104 total losses:		\$555												
SUB 1, CKT 114														
NICH_114	NICHOLASVILLE	0.00	222 3-	SBS_99_UNK	5649	5822	5884	180	3027	133 0	0.00	0.00	0.00	0
1515223	NICH_114	0.87	222 3-	4/0 ACSR	3641	3482	3049	177	3027	133 39	0.85	0.85	2178	0
1515227	1515223	0.95	39 3-	1/0 ACSR	3499	3330	2900	177	359	16 7	0.02	0.88	7	0
OC100842	1515227	0.95	39 3-	50-L	3499	3330	2900	177	359	16 33	0.00	0.88	0	0
1515205	OC100842	1.59	39 3-	1/0 ACSR	2616	2419	2050	174	359	16 7	0.17	1.05	46	0
SW1319271979-A	1515205	1.59	29 3-	Closed	2616	2419	2050	174	290	13 0	0.00	1.05	0	0
SW1319271979-B	SW1319271979-A	1.59	29 3-	Closed	2616	2419	2050	174	290	13 0	0.00	1.05	0	0
1515206	SW1319271979-B	1.73	29 3-	1/0 ACSR	2476	2290	1926	173	290	13 6	0.03	1.08	7	0
SW-1984646295-A	1515206	1.73	28 3-	Closed	2476	2290	1926	173	282	12 0	0.00	1.08	0	0
SW-1984646295-B	SW-1984646295-A	1.73	28 3-	Closed	2476	2290	1926	173	282	12 0	0.00	1.08	0	0
1515203	SW-1984646295-B	2.92	28 3-	1/0 ACSR	1683	1572	1263	167	282	12 6	0.14	1.21	20	0
SW100777-B	1515203	2.92	0 3-	Closed	1683	1572	1263	167	0	0 0	0.00	1.21	0	0
SW100777-A	SW100777-B	2.92	0 3-	Closed	1683	1572	1263	167	0	0 0	0.00	1.21	0	0
1515220	1515223	0.95	140 3-	4/0 ACSR	3515	3350	2909	177	2324	103 30	0.06	0.91	140	0
1515221	1515220	1.04	140 3-	4/0 ACSR	3397	3227	2781	177	2323	103 31	0.08	0.99	142	0
SW100789-A	1515221	1.04	140 3-	Closed	3397	3227	2781	177	2322	103 0	0.00	0.99	0	0
SW100789-B	SW100789-A	1.04	140 3-	Closed	3397	3227	2781	177	2322	103 0	0.00	0.99	0	0
1515218	SW100789-B	1.33	140 3-	4/0 ACSR	3045	2864	2413	176	2322	103 31	0.25	1.24	444	0
1515224	1515218	1.49	33 3-	1/0 ACSR	2835	2648	2218	175	325	14 6	0.04	1.28	10	0
OC100845	1515224	1.49	30 3-	70-L	2835	2648	2218	175	273	12 18	0.00	1.28	0	0
1515225	OC100845	2.04	30 3-	1/0 ACSR	2293	2109	1744	172	273	12 5	0.12	1.40	27	0
1515154	1515225	2.65	11 1-	4 ACSR	0	0	1276	166	126	17 12	0.24	1.64	18	0
1515226	1515225	3.95	19 3-	1/0 ACSR	1346	1258	988	163	147	6 3	0.11	1.52	9	0
SW100786-A	1515226	3.95	0 3-	Open	1346	1258	988	163	0	0 0	0.00	1.52	0	0
1515219	1515218	1.58	85 3-	4/0 ACSR	2786	2602	2158	175	1757	78 23	0.16	1.40	233	0
1514694	1515219	2.80	63 3-	4/0 ACSR	1979	1813	1436	171	1571	70 21	0.58	1.98	749	0
SW100780-A	1514694	2.80	11 3-	Closed	1979	1813	1436	171	1202	53 0	0.00	1.98	0	0
SW100780-B	SW100780-A	2.80	11 3-	Closed	1979	1813	1436	171	1202	53 0	0.00	1.98	0	0
1514440	SW100780-B	3.08	11 3-	4/0 ACSR	1855	1695	1333	170	1202	53 16	0.10	2.08	120	0
1514433	1514440	3.12	4 3-	4/0 ACSR	1842	1682	1322	170	1136	52 15	0.02	2.10	14	0
1514441	1514433	3.13	0 3-	4/0 ACSR	1835	1675	1316	170	0	0 0	0.00	2.10	0	0
SW133-B	1514441	3.13	0 3-	Open	1835	1675	1316	170	0	0 0	0.00	2.10	0	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1514437	1514433	3.14	3 3-	1/0 ACSR	1832	1673	1315	170	1136	52	23	0.02	2.12	15
SW100783-A	1514437	3.14	3 3-	Closed	1832	1673	1315	170	1136	52	0	0.00	2.12	0
SW100783-B	SW100783-A	3.14	3 3-	Closed	1832	1673	1315	170	1136	52	0	0.00	2.12	0
1514426	SW100783-B	3.21	3 3-	1/0 ACSR	1793	1634	1286	170	1136	52	23	0.07	2.19	67
1514427	1514426	3.42	1 3-	4 ACSR	1648	1514	1182	167	84	3	3	0.02	2.20	0
1514624	1514426	3.24	1 3-	1/0 URD PRI AL	1781	1623	1278	401	1051	48	29	0.03	2.22	29
1514998	1514624	3.24	1 3-	Consumer	1781	1623	1278	401	1051	48	0	0.00	2.22	0
CA100029	1514440	3.08	0 3-	Capacitor	1855	1695	1333	170	0	-14	0	0.00	2.08	0
1515261	1515219	1.59	8 1-	4 ACSR	0	0	2150	175	77	10	8	0.00	1.40	0
OC100846	1515261	1.59	8 1-	REC_25_UNK	0	0	2150	175	77	10	43	0.00	1.40	0
1515262	OC100846	1.95	8 1-	4 ACSR	0	0	1722	171	77	10	8	0.09	1.49	4
CA100026	1515220	0.95	0 3-	Capacitor	3515	3350	2909	177	0	-14	0	0.00	0.91	0
CKT 114 total losses:		\$4,279												
SUB 1, CKT 124														
NICH_124	NICHOLASVILLE	0.00	329 3-	SBS_99_UNK	5649	5822	5884	180	2966	132	0	0.00	0.00	0
1515204	NICH_124	1.02	329 3-	4/0 ACSR	3414	3244	2799	177	2966	132	39	1.20	1.20	2591
1515156	1515204	1.18	46 1-	4 ACSR	0	0	2473	175	397	54	39	0.39	1.59	135
OC100890	1515156	1.18	46 1-	REC_50_UNK	0	0	2473	175	396	54	109	0.00	1.59	0
1515157	OC100890	3.08	46 1-	4 ACSR	0	0	906	156	396	54	39	2.38	3.96	544
1515211	1515204	1.57	247 3-	4/0 ACSR	2798	2615	2170	175	2301	103	30	0.49	1.69	885
1515212	1515211	2.27	234 3-	4/0 ACSR	2265	2089	1681	173	2181	98	29	0.57	2.26	980
1515234	1515212	2.35	2 3-	4/0 ACSR	2218	2043	1639	173	4	0	0	0.00	2.26	0
SW101720-A	1515234	2.35	0 3-	Open	2218	2043	1639	173	0	0	0	0.00	2.26	0
1515213	1515212	2.52	215 3-	4/0 ACSR	2121	1949	1555	172	1993	89	26	0.19	2.45	313
OC100893	1515213	2.52	212 3-	REC_100_UNK	2121	1949	1555	172	1981	89	89	0.00	2.45	0
1515214	OC100893	2.63	212 3-	4/0 ACSR	2065	1895	1508	172	1981	89	26	0.08	2.53	131
1515280	1515214	2.75	0 1-	1/0 URD PRI AL	0	0	1456	411	0	0	0	0.00	2.53	0
SW101881-A	1515280	2.75	0 1-	Open	0	0	1456	411	0	0	0	0.00	2.53	0
1515207	1515214	2.68	210 3-	4/0 ACSR	2039	1871	1486	171	1958	88	26	0.04	2.57	61
1515229	1515207	3.33	161 3-	4/0 ACSR	1758	1602	1254	169	1292	59	18	0.39	2.96	354
1515248	1515229	3.40	36 1-	1/0 ACSR	0	0	1232	169	280	39	17	0.06	3.02	12
OC100894	1515248	3.40	36 1-	REC_50_UNK	0	0	1232	169	280	39	78	0.00	3.02	0
1515249	OC100894	3.92	36 1-	1/0 ACSR	0	0	1073	167	280	39	17	0.25	3.27	38
1615091	1515249	4.01	4 1-	4 ACSR	0	0	1042	166	22	3	2	0.01	3.27	0
1515230	1515229	3.57	117 3-	4/0 ACSR	1674	1523	1187	169	971	45	13	0.10	3.06	67
1515231	1515230	3.74	101 3-	4/0 ACSR	1616	1469	1141	168	829	38	11	0.07	3.13	37
1515265	1515231	3.83	35 1-	4 ACSR	0	0	1107	167	325	45	32	0.16	3.29	45
1515267	1515265	3.95	31 1-	4 ACSR	0	0	1061	166	287	40	29	0.11	3.40	19
SW100971-B	1515267	3.95	0 1-	Open	0	0	1061	166	0	0	0	0.00	3.40	0
1515232	1515231	4.02	54 3-	4/0 ACSR	1532	1390	1075	167	395	18	5	0.05	3.18	14
1515264	1515232	4.03	25 1-	4 ACSR	0	0	1073	167	207	28	21	0.01	3.19	1
SW100972-A	1515264	4.03	25 1-	Closed	0	0	1073	167	207	28	0	0.00	3.19	0
SW100972-B	SW100972-A	4.03	25 1-	Closed	0	0	1073	167	207	28	0	0.00	3.19	0
1515266	SW100972-B	4.40	25 1-	4 ACSR	0	0	949	163	207	28	21	0.24	3.43	29
1615126	1515232	4.22	23 3-	4/0 ACSR	1477	1341	1033	167	156	7	2	0.01	3.19	1
1616174	1615126	5.14	10 3-	4/0 ACSR	1269	1152	874	164	53	2	1	0.01	3.20	0
SW100849-A	1616174	5.14	0 3-	Open	1269	1152	874	164	0	0	0	0.00	3.20	0
1615102	1615126	4.25	9 1-	4 ACSR	0	0	1022	166	63	8	6	0.01	3.20	0
OC100895	1615102	4.25	9 1-	REC_35_UNK	0	0	1022	166	63	8	25	0.00	3.20	0
1515282	OC100895	5.15	9 1-	4 ACSR	0	0	778	158	63	8	6	0.18	3.39	7
1515263	1515230	3.70	5 1-	4 ACSR	0	0	1131	167	33	4	3	0.01	3.08	0

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 Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES CONS	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
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 SUB 1 total losses: \$11,605

	LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB	2 HOLLOWAY			1938		5447	5663	5740	180	13550					
SUB	2, CKT 104														
	HLWY_104	HOLLOWAY	0.00	1055 3-	SBS_99_UNK	5447	5663	5740	180	6296	282 0	0 0.00	0.00	0.00	0
	1514386	HLWY_104	1.51	1055 3-	336.4 ACSR	3108	2925	2492	177	6296	282 53	2.65	2.65	11539	0
	1514416	1514386	2.31	5 3-	4/0 ACSR	2409	2230	1815	174	9	0 0	0.00	2.65	0	0
	SW152-B	1514416	2.31	1 3-	Closed	2409	2230	1815	174	0	0 0	0.00	2.65	0	0
	SW152-A	SW152-B	2.31	1 3-	Closed	2409	2230	1815	174	0	0 0	0.00	2.65	0	0
	1514383	SW152-A	2.38	1 3-	4/0 ACSR	2365	2187	1774	174	0	0 0	0.00	2.65	0	0
	1514385	1514383	2.47	1 3-	4/0 ACSR	2307	2131	1723	174	0	0 0	0.00	2.65	0	0
	SW151-A	1514385	2.47	0 3-	Open	2307	2131	1723	174	0	0 0	0.00	2.65	0	0
	1514384	1514383	2.38	0 3-	1/0 ACSR	2360	2182	1770	174	0	0 0	0.00	2.65	0	0
	SW148-A	1514384	2.38	0 3-	Open	2360	2182	1770	174	0	0 0	0.00	2.65	0	0
	1514387	1514386	1.93	1028 3-	336.4 ACSR	2771	2585	2149	176	6088	277 52	0.70	3.35	3113	0
	SW132-B	1514387	1.93	1021 3-	Closed	2771	2585	2149	176	6027	275 0	0.00	3.35	0	0
	SW132-A	SW132-B	1.93	1021 3-	Closed	2771	2585	2149	176	6027	275 0	0.00	3.35	0	0
	1514388	SW132-A	2.75	1021 3-	336.4 ACSR	2286	2107	1693	174	6027	275 52	1.30	4.65	5860	0
	1514389	1514388	2.79	985 3-	336.4 ACSR	2269	2090	1678	174	5764	265 50	0.05	4.70	235	0
	OC-1817822462	1514389	2.79	985 3-	_DefaultBayEqui	2269	2090	1678	174	5762	265 0	0.00	4.70	0	0
	1514390	OC-1817822462	2.91	985 3-	336.4 ACSR	2210	2033	1626	174	5762	265 50	0.19	4.89	855	0
	1514391	1514390	2.94	982 3-	336.4 ACSR	2196	2019	1614	174	5752	265 50	0.05	4.94	215	0
	OC-1627501197	1514391	2.94	982 3-	_DefaultBayEqui	2196	2019	1614	174	5750	265 0	0.00	4.94	0	0
	1514374	OC-1627501197	3.08	982 3-	336.4 ACSR	2136	1962	1561	173	5750	265 50	0.21	5.15	930	0
	1514415	1514374	3.09	0 3-	336.4 ACSR	2130	1956	1556	173	0	0 0	0.00	5.15	0	0
	SW133-A	1514415	3.09	0 3-	Open	2130	1956	1556	173	0	0 0	0.00	5.15	0	0
	1514375	1514374	3.12	980 3-	336.4 ACSR	2117	1943	1544	173	5740	265 50	0.07	5.22	311	0
	RG3	1514375	3.12	978 3-	219	2117	1943	1544	173	5738	265 121	-5.22	0.00	0	0
	1514376	RG3	3.28	978 3-	336.4 ACSR	2053	1882	1489	173	5738	254 48	0.22	0.22	971	0
	1514377	1514376	3.57	971 3-	4/0 ACSR	1916	1751	1375	172	5684	254 75	0.69	0.91	2944	0
	1514414	1514377	3.67	1 3-	336.4 ACSR	1883	1719	1347	172	4	0 0	0.00	0.91	0	0
	SW136-A	1514414	3.67	0 3-	Open	1883	1719	1347	172	0	0 0	0.00	0.91	0	0
	1514378	1514377	3.72	969 3-	4/0 ACSR	1853	1691	1324	172	5634	253 74	0.35	1.26	1490	0
	1514413	1514378	3.80	0 3-	4/0 ACSR	1821	1661	1298	171	0	0 0	0.00	1.26	0	0
	SW139-A	1514413	3.80	0 3-	Open	1821	1661	1298	171	0	0 0	0.00	1.26	0	0
	1514379	1514378	3.85	969 3-	4/0 ACSR	1800	1642	1281	171	5621	253 74	0.31	1.57	1314	0
	1514412	1514379	3.86	16 3-	1/0 ACSR	1796	1637	1278	171	217	9 4	0.00	1.57	0	0
	1514605	1514412	3.88	13 1-	1/0 ACSR	0	0	1274	171	199	27 12	0.00	1.57	0	0
	1514392	1514379	3.95	949 3-	4/0 ACSR	1765	1608	1253	171	5378	242 71	0.20	1.77	842	0
	1514355	1514392	3.98	87 1-	1/0 ACSR	0	0	1242	171	506	69 30	0.05	1.82	19	0
	OC195	1514355	3.98	87 1-	REC_35_UNK	0	0	1242	171	506	69 200	0.00	1.82	0	0
	1514356	OC195	4.37	87 1-	1/0 ACSR	0	0	1122	169	506	69 30	0.31	2.13	80	0
	1514398	1514392	4.02	812 3-	4/0 ACSR	1740	1584	1232	171	4504	202 60	0.12	1.89	431	0
	SW142-B	1514398	4.02	781 3-	Closed	1740	1584	1232	171	4363	196 0	0.00	1.89	0	0
	SW142-A	SW142-B	4.02	781 3-	Closed	1740	1584	1232	171	4363	196 0	0.00	1.89	0	0
	1514399	SW142-A	4.05	781 3-	4/0 ACSR	1726	1572	1222	170	4363	196 58	0.06	1.96	220	0
	1514353	1514399	4.09	87 1-	1/0 ACSR	0	0	1210	170	450	62 27	0.05	2.01	18	0
	OC196	1514353	4.09	86 1-	REC_50_UNK	0	0	1210	170	441	61 122	0.00	2.01	0	0
	1514354	OC196	4.35	86 1-	1/0 ACSR	0	0	1130	169	441	61 27	0.18	2.19	41	0
	1514400	1514399	4.19	693 3-	4/0 ACSR	1681	1529	1186	170	3883	174 51	0.19	2.15	614	0
	1514644	1514400	4.20	1 3-	1/0 URD PRI AL	1676	1525	1183	402	855	39 23	0.01	2.16	8	0
	1514999	1514644	4.20	1 3-	Consumer	1676	1525	1183	402	855	39 0	0.00	2.16	0	0
	1514401	1514400	4.19	684 3-	4/0 ACSR	1679	1527	1184	170	2962	132 39	0.00	2.15	12	0
	1514603	1514401	4.22	52 1-	1/0 ACSR	0	0	1176	170	179	24 11	0.02	2.17	2	0

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
OC197	1514603	4.22	52 1-	REC_50_UNK	0	0	1176	170	179	24	50	0.00	2.17	0
1514604	OC197	4.54	52 1-	1/0 ACSR	0	0	1084	168	179	24	11	0.09	2.26	8
1514402	1514401	4.25	632 3-	4/0 ACSR	1660	1509	1169	170	2783	124	37	0.06	2.21	140
1514350	1514402	4.28	30 1-	1/0 ACSR	0	0	1160	170	97	13	6	0.01	2.22	0
OC198	1514350	4.28	29 1-	REC_50_UNK	0	0	1160	170	86	11	24	0.00	2.22	0
1514351	OC198	4.54	29 1-	1/0 ACSR	0	0	1086	168	86	11	5	0.04	2.25	2
1514403	1514402	4.30	597 3-	4/0 ACSR	1641	1492	1155	170	2652	119	35	0.05	2.26	124
1514411	1514403	4.33	0 3-	4/0 ACSR	1635	1486	1149	170	0	0	0	0.00	2.26	0
SW143-A	1514411	4.33	0 3-	Open	1635	1486	1149	170	0	0	0	0.00	2.26	0
1514404	1514403	4.33	597 3-	4/0 ACSR	1634	1485	1149	170	2651	120	35	0.02	2.28	49
1514407	1514404	4.48	387 3-	4/0 ACSR	1587	1441	1112	169	1823	82	24	0.10	2.39	153
OC201	1514407	4.48	366 3-	REC_70_UNK	1587	1441	1112	169	1753	78	113	0.00	2.39	0
1514408	OC201	4.57	366 3-	4/0 ACSR	1561	1417	1092	169	1753	78	23	0.06	2.44	84
1514586	1514408	5.18	48 1-	1/0 ACSR	0	0	949	166	166	23	10	0.16	2.61	14
1514409	1514408	4.96	308 3-	336.4 ACSR	1476	1337	1024	168	1557	70	13	0.11	2.56	142
1514410	1514409	5.30	111 3-	336.4 ACSR	1407	1275	971	167	628	29	5	0.00	2.56	18
1514372	1514410	5.54	53 2-	1/0 ACSR	0	1214	924	166	348	24	11	0.09	2.65	22
1514349	1514372	5.67	35 1-	1/0 ACSR	0	0	900	165	217	30	13	0.05	2.70	5
NEWCAP-39CF628D	1514410	5.30	0 3-	Capacitor	1407	1275	971	167	0	-14	0	0.00	2.56	0
1514371	1514409	5.11	97 2-	336.4 ACSR	0	1305	1001	168	496	34	7	0.03	2.58	6
1514345	1514371	5.36	19 1-	1/0 ACSR	0	0	949	166	91	12	6	0.04	2.62	2
1514405	1514404	4.46	210 3-	1/0 ACSR	1582	1435	1111	169	828	38	17	0.09	2.37	60
1514602	1514405	4.67	38 1-	1/0 ACSR	0	0	1057	168	179	24	11	0.06	2.43	5
1514406	1514405	4.64	165 3-	1/0 ACSR	1518	1381	1065	168	627	29	13	0.08	2.46	39
1514585	1514406	4.92	53 1-	1/0 ACSR	0	0	998	167	240	33	14	0.11	2.56	13
1514369	1514406	4.69	88 2-	1/0 ACSR	0	1366	1053	168	263	18	8	0.02	2.47	4
1514615	1514369	5.04	42 1-	1/0 URD PRI AL	0	0	981	374	131	18	11	0.10	2.58	8
SW218-B	1514615	5.04	0 1-	Open	0	0	981	374	0	0	0	0.00	2.58	0
1514370	1514369	4.71	46 2-	1/0 ACSR	0	1358	1046	168	132	9	4	0.00	2.48	0
1514617	1514370	4.72	5 1-	1/0 URD PRI AL	0	0	1045	387	14	2	1	0.00	2.48	0
SW218-A	1514617	4.72	0 1-	Open	0	0	1045	387	0	0	0	0.00	2.48	0
NEWCAP-C4BBB9E6	1514403	4.30	0 3-	Capacitor	1641	1492	1155	170	0	-14	0	0.00	2.26	0
1514393	1514392	3.99	34 3-	4/0 ACSR	1750	1594	1241	171	303	13	4	0.01	1.78	1
1514600	1514393	4.03	22 1-	1/0 ACSR	0	0	1228	170	193	26	12	0.02	1.80	3
OC194	1514600	4.03	22 1-	REC_35_UNK	0	0	1228	170	193	26	12	0.00	1.80	0
1514601	OC194	4.29	22 1-	1/0 ACSR	0	0	1147	169	193	26	12	0.08	1.88	8
1514394	1514393	4.04	12 3-	336.4 ACSR	1734	1579	1227	171	110	5	1	0.00	1.78	0
1514343	1514394	4.09	9 1-	1/0 ACSR	0	0	1210	170	72	9	4	0.01	1.79	0
OC1985613253	1514343	4.09	9 1-	35-L	0	0	1210	170	72	9	29	0.00	1.79	0
1514344	OC1985613253	4.35	9 1-	1/0 ACSR	0	0	1132	169	72	9	4	0.03	1.82	0
NEWCAP-4BFBB5A9	1514376	3.28	0 3-	Capacitor	2053	1882	1489	173	0	-14	0	0.00	0.22	0
1514625	1514390	3.56	2 1-	1/0 URD PRI AL	0	0	1353	400	0	0	0	0.00	4.89	0
1514348	1514388	2.85	2 1-	4 ACSR	0	0	1610	173	25	3	3	0.01	4.66	0
CKT 104 total losses:	\$32,974													
SUB 2, CKT 114														
HLWY_114	HOLLOWAY	0.00	309 3-	SBS_99_UNK	5447	5663	5740	180	2341	104	0	0.00	0.00	0
1514381	HLWY_114	0.26	309 3-	336.4 ACSR	4837	4821	4751	179	2341	104	20	0.17	0.17	276
1514382	1514381	2.12	309 3-	4/0 ACSR	2366	2193	1793	174	2339	104	31	1.70	1.86	2953
1513079	1514382	2.15	286 3-	4/0 ACSR	2342	2170	1771	173	2146	96	28	0.03	1.90	52
OC865071513	1513079	2.15	286 3-	_DefaultBayEqui	2342	2170	1771	173	2146	96	0	0.00	1.90	0
1513080	OC865071513	3.53	286 3-	4/0 ACSR	1687	1538	1207	169	2146	96	28	1.18	3.07	1993

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS	
SUB	2, CKT 124														
	HLWY_124	HOLLOWAY	0.00	301 3-	SBS_99_UNK	5447	5663	5740	180	2082	92	0	0.00	0.00	0
	1514417	HLWY_124	0.67	301 3-	336.4 ACSCR	4105	3982	3663	178	2082	92	17	0.36	0.36	545
	1514418	1514417	0.74	295 3-	4/0 ACSCR	3971	3839	3493	178	2036	90	27	0.06	0.42	92
	1514395	1514418	0.82	293 3-	336.4 ACSCR	3855	3712	3347	178	2014	89	17	0.04	0.46	64
	1514346	1514395	0.90	1 1-	4 ACSCR	0	0	3132	177	0	0	0	0.00	0.46	0
	1514616	1514346	1.04	0 1-	1/0 URD PRI AL	0	0	2911	450	0	0	0	0.00	0.46	0
	OC-597387231	1514616	1.04	0 1-	_DefaultBayEqui	0	0	2911	450	0	0	0	0.00	0.46	0
	1514618	OC-597387231	1.32	0 1-	1/0 URD PRI AL	0	0	2496	436	0	0	0	0.00	0.46	0
	SW-1898968368-A	1514618	1.32	0 1-	Open	0	0	2496	436	0	0	0	0.00	0.46	0
	1414496	1514395	1.97	291 3-	336.4 ACSCR	2736	2549	2115	176	2004	89	17	0.57	1.03	848
	1413064	1414496	2.10	282 3-	4/0 ACSCR	2624	2439	2009	175	1903	85	25	0.10	1.13	149
	SW101056-B	1413064	2.10	280 3-	Closed	2624	2439	2009	175	1895	84	0	0.00	1.13	0
	SW101056-A	SW101056-B	2.10	280 3-	Closed	2624	2439	2009	175	1895	84	0	0.00	1.13	0
	1413065	SW101056-A	2.35	280 3-	4/0 ACSCR	2435	2253	1834	174	1895	84	25	0.18	1.31	275
	OC101105	1413065	2.35	275 3-	REC_70_UNK	2435	2253	1834	174	1842	82	118	0.00	1.31	0
	1513135	OC101105	3.00	275 3-	4/0 ACSCR	2049	1881	1495	172	1842	82	24	0.42	1.72	602
	1513086	1513135	3.04	234 3-	2 ACSCR	2019	1850	1472	172	1572	70	39	0.07	1.80	105
	SW101053-B	1513086	3.04	234 3-	Closed	2019	1850	1472	172	1571	70	0	0.00	1.80	0
	SW101053-A	SW101053-B	3.04	234 3-	Closed	2019	1850	1472	172	1571	70	0	0.00	1.80	0
	1513087	SW101053-A	4.33	234 3-	1/0 ACSCR	1439	1327	1032	166	1571	70	31	1.18	2.98	1527
	1413067	1513087	5.32	104 3-	1/0 ACSCR	1173	1089	837	161	810	36	16	0.42	3.39	364
	NEWCAP-CBB016DC	1413067	5.32	0 3-	Capacitor	1173	1089	837	161	0	-14	0	0.00	3.39	0
	1513088	1413067	5.85	83 3-	1/0 ACSCR	1063	990	758	159	635	29	13	0.28	3.67	141
	1513089	1513088	5.93	0 3-	1/0 ACSCR	1050	979	749	158	0	0	0	0.00	3.67	0
	SW100988-A	1513089	5.93	0 3-	Open	1050	979	749	158	0	0	0	0.00	3.67	0
	1513075	1513088	5.88	43 3-	1/0 ACSCR	1059	987	755	159	348	16	7	0.01	3.67	2
	OC101101	1513075	5.88	43 3-	REC_35_UNK	1059	987	755	159	348	16	16	0.00	3.67	0
	1513076	OC101101	6.23	43 3-	1/0 ACSCR	998	931	712	157	348	16	7	0.09	3.76	22
	1513067	1513076	7.15	28 3-	1/0 ACSCR	866	811	617	153	234	10	5	0.09	3.85	11
	1513124	1513088	5.86	34 3-	1/0 ACSCR	1062	989	758	159	255	11	5	0.00	3.67	0
	OC101100	1513124	5.86	34 3-	no ocr	1062	989	758	159	255	11	8	0.00	3.67	0
	1513120	OC101100	6.56	34 3-	1/0 ACSCR	946	884	675	155	255	11	5	0.11	3.78	19
	1513117	1513120	6.74	13 3-	1/0 ACSCR	920	860	656	155	77	3	2	0.01	3.78	0
	1513118	1513117	6.75	0 1-	2 ACSCR	0	0	655	155	0	0	0	0.00	3.78	0
	SW100989-A	1513118	6.75	0 1-	Open	0	0	655	155	0	0	0	0.00	3.78	0
	1513121	1513120	6.92	4 1-	4 ACSCR	0	0	621	152	41	5	4	0.05	3.83	1
	1513074	1413067	5.75	7 1-	4 ACSCR	0	0	743	157	51	7	5	0.07	3.46	2
	1413092	1513087	4.40	52 1-	4 ACSCR	0	0	1008	165	311	43	31	0.14	3.11	37
	OC101102	1413092	4.40	52 1-	REC_35_UNK	0	0	1008	165	310	43	124	0.00	3.11	0
	1413093	OC101102	4.77	52 1-	4 ACSCR	0	0	895	161	310	43	31	0.72	3.84	195
	1413096	1413093	4.89	2 1-	6 ACWC	0	0	863	160	2	0	0	0.00	3.84	0
	1413116	1413093	4.95	49 1-	1/0 URD PRI AL	0	0	865	349	299	42	25	0.22	4.06	58
	1413094	1413116	5.20	47 1-	1/0 ACSCR	0	0	822	159	266	37	16	0.20	4.26	38
	1413095	1413094	6.04	37 1-	4 ACSCR	0	0	658	152	212	29	21	0.57	4.83	72
	SW101050-A	1413095	6.04	0 1-	Closed	0	0	658	152	0	0	0	0.00	4.83	0
	SW101050-B	SW101050-A	6.04	0 1-	Closed	0	0	658	152	0	0	0	0.00	4.83	0
	1413063	1414496	2.01	0 3-	336.4 ACSCR	2703	2516	2083	176	0	0	0	0.00	1.03	0
	SW101059-A	1413063	2.01	0 3-	Open	2703	2516	2083	176	0	0	0	0.00	1.03	0

CKT 124 total losses: \$5,169

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 2, CKT 134														
HLWY_134	HOLLOWAY	0.00	273 3-	SBS_99_UNK	5447	5663	5740	180	2831	129	0	0.00	0.00	0
1514397	HLWY_134	0.85	273 3-	336.4 ACSR	3848	3702	3336	178	2831	129	24	0.74	0.74	1268
1414495	1514397	1.43	162 3-	336.4 ACSR	3181	3000	2569	177	2100	96	18	0.40	1.15	531
1414251	1414495	1.83	147 3-	336.4 ACSR	2845	2658	2222	176	2065	94	18	0.27	1.41	345
1414255	1414251	1.96	142 3-	336.4 ACSR	2756	2569	2133	176	2033	93	18	0.08	1.49	104
1414354	1414255	2.62	7 1-	4 ACSR	0	0	1465	169	29	3	3	0.06	1.55	0
1414256	1414255	2.05	133 3-	336.4 ACSR	2692	2506	2072	176	2004	92	17	0.06	1.55	75
1414254	1414256	3.27	11 3-	336.4 ACSR	2057	1885	1492	173	59	2	1	0.01	1.56	0
131353-A	1414254	3.27	0 3-	Open	2057	1885	1492	173	0	0	0	0.00	1.56	0
1414257	1414256	2.42	122 3-	336.4 ACSR	2463	2279	1854	175	1944	89	17	0.23	1.78	281
1414417	1414257	2.42	2 3-	500 MCM URD PRI	2461	2278	1853	438	881	40	11	0.00	1.78	0
SW120-B	1414417	2.42	2 3-	Closed	2461	2278	1853	438	881	40	0	0.00	1.78	0
SW120-A	SW120-B	2.42	2 3-	Closed	2461	2278	1853	438	881	40	0	0.00	1.78	0
1414418	SW120-A	2.43	2 3-	500 MCM URD PRI	2459	2276	1852	437	881	40	11	0.00	1.79	1
SW6-B	1414418	2.43	2 3-	Closed	2459	2276	1852	437	881	40	0	0.00	1.79	0
SW6-A	SW6-B	2.43	2 3-	Closed	2459	2276	1852	437	881	40	0	0.00	1.79	0
1414397	SW6-A	2.46	2 3-	500 MCM URD PRI	2452	2269	1849	437	881	40	11	0.01	1.79	5
1414400	1414397	2.47	2 3-	350 MCM URD PRI	2449	2267	1846	437	881	40	13	0.00	1.80	2
1414401	1414400	2.48	1 3-	350 MCM URD PRI	2446	2265	1844	437	0	0	0	0.00	1.80	0
1414402	1414401	2.48	1 3-	1/0 URD PRI AL	2445	2264	1844	437	0	0	0	0.00	1.80	0
SW211-A	1414402	2.48	0 3-	Open	2445	2264	1844	437	0	0	0	0.00	1.80	0
1414999	1414400	2.47	1 3-	Consumer	2449	2267	1846	437	881	40	0	0.00	1.80	0
1414398	1414397	2.83	0 3-	1/0 URD PRI AL	2220	2056	1691	422	0	0	0	0.00	1.79	0
SW211-B	1414398	2.83	0 3-	Open	2220	2056	1691	422	0	0	0	0.00	1.79	0
1414258	1414257	2.46	116 3-	336.4 ACSR	2441	2257	1834	175	1005	46	9	0.01	1.80	8
1414252	1414258	2.69	55 3-	336.4 ACSR	2317	2137	1722	174	367	16	3	0.03	1.82	6
1414253	1414252	2.74	0 3-	336.4 ACSR	2290	2111	1697	174	0	0	0	0.00	1.82	0
SW7-A	1414253	2.74	0 3-	Open	2290	2111	1697	174	0	0	0	0.00	1.82	0
1414416	1414252	3.07	55 3-	1/0 URD PRI AL	2104	1940	1580	418	366	16	10	0.13	1.95	42
1414483	1414416	3.55	27 1-	1/0 URD PRI AL	0	0	1370	397	192	26	16	0.20	2.15	23
1414399	1414416	3.47	19 1-	1/0 URD PRI AL	0	0	1403	401	109	15	9	0.09	2.05	6
1414442	1414416	3.61	8 1-	1/0 URD PRI AL	0	0	1344	395	48	6	4	0.06	2.01	2
1414259	1414258	2.53	61 3-	336.4 ACSR	2398	2216	1795	175	639	29	6	0.02	1.81	7
1414409	1414259	2.97	10 1-	1/0 URD PRI AL	0	0	1565	415	73	10	6	0.07	1.88	3
SW213-A	1414409	2.97	0 1-	Open	0	0	1565	415	0	0	0	0.00	1.88	0
1414260	1414259	2.61	51 3-	336.4 ACSR	2360	2178	1760	174	565	26	5	0.01	1.82	5
1414404	1414260	3.09	23 1-	1/0 URD PRI AL	0	0	1519	412	263	36	21	0.27	2.10	43
SW212-A	1414404	3.09	0 1-	Open	0	0	1519	412	0	0	0	0.00	2.10	0
1414249	1414260	2.73	28 3-	336.4 ACSR	2299	2119	1705	174	303	13	3	0.01	1.84	2
1414482	1414249	3.55	24 1-	1/0 URD PRI AL	0	0	1335	395	279	38	23	0.50	2.34	84
1414362	1414255	1.96	2 2-	4 ACSR	0	2559	2126	176	0	0	0	0.00	1.49	0
OC38	1414362	1.96	2 2-	_DefaultBayEqui	0	2559	2126	176	0	0	0	0.00	1.49	0
1414363	OC38	2.08	2 2-	4 ACSR	0	2381	1985	174	0	0	0	0.00	1.49	0
1414250	1414495	1.44	14 3-	1/0 ACSR	3169	2986	2557	177	30	1	1	0.00	1.15	0
1414415	1414250	1.66	14 3-	1/0 URD PRI AL	2954	2790	2389	444	30	1	1	0.01	1.15	0
1414481	1414415	2.34	3 1-	1/0 URD PRI AL	0	0	1791	412	21	2	2	0.03	1.18	0
SW1481789196-A	1414481	2.34	0 1-	Open	0	0	1791	412	0	0	0	0.00	1.18	0
1414413	1414415	1.93	11 2-	1/0 URD PRI AL	0	2557	2168	432	9	0	0	0.00	1.16	0
1414403	1414413	2.35	3 1-	1/0 URD PRI AL	0	0	1817	413	2	0	0	0.00	1.16	0
SW-1898968368-B	1414403	2.35	0 1-	Open	0	0	1817	413	0	0	0	0.00	1.16	0
1514419	1514397	0.98	69 3-	4/0 ACSR	3632	3474	3079	178	461	21	6	0.03	0.77	9

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES CONS	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
OC123	1514419	0.98	68 3-	70-L	3632	3474	3079	178	461	21	30	0.00	0.77	0
1514420	OC123	1.01	68 3-	4/0 ACSR	3586	3426	3026	178	461	21	6	0.01	0.78	2
1414494	1514420	2.01	13 2-	1/0 ACSR	0	2132	1818	173	47	3	1	0.03	0.81	0
1514423	1514420	1.57	55 3-	4/0 ACSR	2910	2731	2300	176	414	18	6	0.11	0.89	30
1514587	1514423	2.00	10 2-	4 ACSR	0	2111	1752	171	14	0	1	0.01	0.90	0
1514606	1514587	2.39	5 1-	4 ACSR	0	0	1410	167	1	0	0	0.00	0.90	0
1514424	1514423	1.63	44 3-	4 ACSR	2815	2627	2218	175	388	17	13	0.04	0.93	14
1514421	1514424	1.75	43 3-	4/0 ACSR	2708	2520	2113	175	377	17	5	0.02	0.95	5
1514422	1514421	2.10	40 3-	4/0 ACSR	2429	2245	1848	174	366	16	5	0.04	0.99	8
1514380	1514422	3.23	12 3-	336.4 ACSR	1929	1761	1400	171	103	4	1	0.02	1.01	0
CKT 134 total losses:	\$2,911													
SUB 2 total losses:	\$48,665													

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 3	WEST NICHOLASVI		3175			7503	7832	7947	180	24293				
	NEWCKT WEST NICHOLASVI	0.00	0 3-	_DefaultBayEqui	7503	7832	7947	180	0	0	0	0.00	0.00	0
	OH493 NEWCKT	2.34	0 3-	336.4 ACSR	2854	2622	2156	175	0	0	0	0.00	0.00	0
SUB 3, CKT 104														
	WNIC_104 WEST NICHOLASVI	0.00	55 3-	SBS_99_UNK	7503	7832	7947	180	5783	268	0	0.00	0.00	0
	1514667 WNIC_104	0.01	55 3-	350 MCM URD PRI	7487	7797	7929	478	5783	268	84	0.01	0.01	61
	1514466 1514667	0.01	55 3-	336.4 ACSR	7459	7751	7880	180	5782	268	51	0.01	0.02	39
	SW100005-B 1514466	0.01	55 3-	Closed	7459	7751	7880	180	5782	268	0	0.00	0.02	0
	SW100005-A SW100005-B	0.01	55 3-	Closed	7459	7751	7880	180	5782	268	0	0.00	0.02	0
	1514485 SW100005-A	0.32	55 3-	336.4 ACSR	6177	6095	5867	179	5782	268	51	0.63	0.66	2166
	1514995 1514485	0.32	1 3-	Consumer	6177	6095	5867	179	1280	59	0	0.00	0.66	0
	1514486 1514485	0.65	53 3-	336.4 ACSR	5224	5033	4615	179	4481	208	39	0.50	1.15	1300
	1514467 1514486	0.66	0 3-	336.4 ACSR	5192	4997	4574	179	0	0	0	0.00	1.15	0
	SW100422-B 1514467	0.66	0 3-	Open	5192	4997	4574	179	0	0	0	0.00	1.15	0
	1514461 1514486	1.04	5 3-	336.4 ACSR	4387	4148	3654	178	3837	179	34	0.53	1.69	1226
	SW100002-B 1514461	1.04	1 3-	Closed	4387	4148	3654	178	3805	178	0	0.00	1.69	0
	SW100002-A SW100002-B	1.04	1 3-	Closed	4387	4148	3654	178	3805	178	0	0.00	1.69	0
	1514462 SW100002-A	1.07	1 3-	336.4 ACSR	4333	4093	3596	178	3805	178	34	0.04	1.73	94
	1514669 1514462	1.12	1 3-	1/0 URD PRI AL	4250	4019	3529	461	3805	178	105	0.16	1.89	566
	1514996 1514669	1.12	1 3-	Consumer	4250	4019	3529	461	3800	178	0	0.00	1.89	0
	1514487 1514486	0.75	7 3-	1/0 ACSR	4854	4636	4186	178	363	16	7	0.03	1.19	9
	1514488 1514487	0.82	2 3-	336.4 ACSR	4705	4478	4015	178	321	14	3	0.01	1.19	1
	1514460 1514488	0.87	1 3-	1/0 ACSR	4556	4321	3854	178	315	14	6	0.01	1.21	3
	1514668 1514460	0.89	1 3-	1/0 URD PRI AL	4529	4297	3831	462	315	14	9	0.00	1.21	0
	1514997 1514668	0.89	1 3-	Consumer	4529	4297	3831	462	315	14	0	0.00	1.21	0
CKT 104 total losses:		\$5,465												
SUB 3, CKT 114														
	WNIC_114 WEST NICHOLASVI	0.00	546 3-	SBS_99_UNK	7503	7832	7947	180	2810	130	0	0.00	0.00	0
	1514501 WNIC_114	0.58	546 3-	336.4 ACSR	5392	5203	4725	179	2810	130	25	0.53	0.53	852
	1514508 1514501	0.59	1 3-	1/0 ACSR	5331	5137	4653	179	496	23	10	0.01	0.54	3
	1514990 1514508	0.59	1 3-	Consumer	5331	5137	4653	179	496	23	0	0.00	0.54	0
	1514502 1514501	0.81	472 3-	336.4 ACSR	4832	4603	4049	178	1951	90	17	0.16	0.69	186
	1514537 1514502	1.01	207 3-	336.4 ACSR	4432	4186	3602	178	673	31	6	0.05	0.74	18
	1514443 1514537	1.10	8 3-	336.4 ACSR	4286	4036	3446	178	17	0	0	0.00	0.74	0
	1514538 1514537	1.05	198 3-	336.4 ACSR	4366	4117	3530	178	601	27	5	0.01	0.75	3
	OC100419 1514538	1.05	198 3-	REC_70_UNK	4366	4117	3530	178	601	27	40	0.00	0.75	0
	1514539 OC100419	1.47	198 3-	336.4 ACSR	3723	3467	2873	177	601	27	5	0.08	0.82	25
	SW100310-B 1514539	1.47	131 3-	Closed	3723	3467	2873	177	435	20	0	0.00	0.82	0
	SW100310-A SW100310-B	1.47	131 3-	Closed	3723	3467	2873	177	435	20	0	0.00	0.82	0
	1514442 SW100310-A	1.78	131 3-	336.4 ACSR	3365	3113	2534	176	435	20	4	0.02	0.85	4
	1514505 1514502	0.90	258 3-	4/0 ACSR	4601	4364	3792	178	1263	58	17	0.06	0.75	48
	OC100416 1514505	0.90	257 3-	REC_100_UNK	4601	4364	3792	178	1263	58	59	0.00	0.75	0
	1514506 OC100416	1.00	257 3-	4/0 ACSR	4366	4122	3538	178	1263	58	17	0.06	0.81	53
	1514507 1514506	1.05	210 3-	4/0 ACSR	4270	4025	3438	178	962	44	13	0.02	0.83	14
	1514531 1514507	1.10	180 3-	4/0 ACSR	4159	3912	3323	177	802	37	11	0.02	0.86	11
	1514516 1514531	1.22	171 3-	4/0 ACSR	3932	3683	3094	177	752	34	10	0.04	0.90	22
	1514536 1514516	1.47	71 3-	1/0 ACSR	3436	3179	2645	176	256	11	5	0.03	0.93	4
	1514517 1514516	1.25	94 3-	4/0 ACSR	3873	3624	3035	177	474	22	6	0.01	0.91	3
	SW100307-B 1514517	1.25	94 3-	Closed	3873	3624	3035	177	474	22	0	0.00	0.91	0
	SW100307-A SW100307-B	1.25	94 3-	Closed	3873	3624	3035	177	474	22	0	0.00	0.91	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1514534	SW100307-A	1.44	94 3-	4/0 ACSR	3562	3314	2735	176	474	22	6	0.04	0.95	10
1514535	1514534	1.55	56 3-	1/0 ACSR	3383	3133	2579	176	296	13	6	0.02	0.96	3
1514358	1514535	1.76	26 1-	1/0 ACSR	0	0	2296	175	121	16	7	0.04	1.01	3
1514533	1514531	1.66	8 3-	4/0 ACSR	3261	3018	2457	176	30	1	0	0.00	0.86	0
SW151-B	1514533	1.66	0 3-	Open	3261	3018	2457	176	0	0	0	0.00	0.86	0
1514532	1514531	1.13	0 3-	4/0 ACSR	4097	3849	3260	177	0	0	0	0.00	0.86	0
SW100250-A	1514532	1.13	0 3-	Open	4097	3849	3260	177	0	0	0	0.00	0.86	0
1514643	1514507	1.18	16 1-	1/0 URD PRI AL	0	0	3179	453	78	10	6	0.03	0.86	1
1514681	1514643	1.27	4 1-	1/0 URD PRI AL	0	0	3009	448	15	2	1	0.00	0.87	0
SW-406862464-A	1514681	1.27	0 1-	Open	0	0	3009	448	0	0	0	0.00	0.87	0
1514680	1514643	1.19	0 1-	1/0 URD PRI AL	0	0	3168	453	0	0	0	0.00	0.86	0
SW100446-A	1514680	1.19	0 1-	Open	0	0	3168	453	0	0	0	0.00	0.86	0
1514642	1514507	1.29	14 1-	1/0 URD PRI AL	0	0	2984	448	81	11	7	0.04	0.88	2
SW100446-B	1514642	1.29	0 1-	Open	0	0	2984	448	0	0	0	0.00	0.88	0
1514650	1514506	1.87	45 1-	1/0 URD PRI AL	0	0	2160	419	266	37	22	0.51	1.32	81
SW443902270-A	1514650	1.87	0 1-	Closed	0	0	2160	419	0	0	0	0.00	1.32	0
SW443902270-B	SW443902270-A	1.87	0 1-	Closed	0	0	2160	419	0	0	0	0.00	1.32	0
1514504	1514502	0.96	7 3-	4/0 ACSR	4459	4218	3638	178	14	0	0	0.00	0.69	0
SW100413-A	1514504	0.96	0 3-	Open	4459	4218	3638	178	0	0	0	0.00	0.69	0

CKT 114 total losses: \$1,346

SUB 3, CKT 124

WNIC_124	WEST NICHOLASVI	0.00	409 3-	SBS_99_UNK	7503	7832	7947	180	2644	117	0	0.00	0.00	0
1514459	WNIC_124	0.99	409 3-	336.4 ACSR	4481	4236	3656	178	2644	117	22	0.64	0.64	1247
1614300	1514459	1.48	397 3-	336.4 ACSR	3709	3453	2860	177	2472	110	21	0.31	0.95	587
SW100024-B	1614300	1.48	396 3-	Closed	3709	3453	2860	177	2465	109	0	0.00	0.95	0
SW100024-A	SW100024-B	1.48	396 3-	Closed	3709	3453	2860	177	2465	109	0	0.00	0.95	0
1614220	SW100024-A	2.55	396 3-	336.4 ACSR	2702	2472	1947	175	2465	109	21	0.65	1.60	1257
1614221	1614220	2.74	396 3-	4/0 ACSR	2553	2331	1825	174	2455	109	32	0.17	1.77	341
SW100037-B	1614221	2.74	396 3-	Closed	2553	2331	1825	174	2452	109	0	0.00	1.77	0
SW100037-A	SW100037-B	2.74	396 3-	Closed	2553	2331	1825	174	2452	109	0	0.00	1.77	0
1614222	SW100037-A	3.87	396 3-	4/0 ACSR	1897	1720	1310	171	2452	109	32	1.01	2.78	2040
1614223	1614222	3.92	386 3-	4/0 ACSR	1876	1701	1294	170	2324	106	31	0.05	2.83	88
1614219	1614223	4.14	4 3-	1/0 ACSR	1761	1602	1215	169	449	21	9	0.09	2.91	31
1614283	1614219	4.19	1 3-	1/0 URD PRI AL	1743	1587	1204	397	445	21	12	0.02	2.94	9
1614994	1614283	4.19	1 3-	Consumer	1743	1587	1204	397	445	21	0	0.00	2.94	0
1614224	1614223	4.66	381 3-	4/0 ACSR	1607	1457	1094	168	1869	85	25	0.58	3.40	808
1614225	1614224	5.05	361 3-	4/0 ACSR	1491	1353	1010	167	1779	81	24	0.30	3.70	409
SW100030-B	1614225	5.05	358 3-	Closed	1491	1353	1010	167	1767	81	0	0.00	3.70	0
SW100030-A	SW100030-B	5.05	358 3-	Closed	1491	1353	1010	167	1767	81	0	0.00	3.70	0
1614184	SW100030-A	5.11	358 3-	4/0 ACSR	1476	1339	998	167	1767	81	24	0.04	3.75	61
1614227	1614184	5.37	203 3-	1/0 ACSR	1393	1268	943	165	988	44	20	0.17	3.92	156
OC100109	1614227	5.37	195 3-	REC_70_UNK	1393	1268	943	165	941	42	61	0.00	3.92	0
1613081	OC100109	8.31	195 3-	1/0 ACSR	839	780	577	152	941	42	19	1.49	5.41	1262
1613069	1613081	8.43	58 1-	1/0 ACSR	0	0	567	151	233	33	15	0.10	5.51	18
OC100110	1613069	8.43	58 1-	35-H	0	0	567	151	233	33	96	0.00	5.51	0
1613070	OC100110	9.76	58 1-	1/0 ACSR	0	0	483	146	233	33	15	0.77	6.28	113
1713015	1613070	10.09	26 1-	1/0 ACSR	0	0	466	144	95	13	6	0.08	6.36	5
1713016	1713015	10.10	16 1-	4 ACSR	0	0	465	144	50	7	5	0.00	6.36	0
OC100111	1713016	10.10	16 1-	REC_25_UNK	0	0	465	144	50	7	29	0.00	6.36	0
1713011	OC100111	10.10	16 1-	4 ACSR	0	0	464	144	50	7	5	0.00	6.36	0
1713012	1713011	10.90	16 1-	6 ACWC	0	0	411	138	50	7	5	0.16	6.52	5

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE	PRIOR	MILES	PHS	WIRE	MX 3P	MX LIG	MX LG	MN LG	TOTAL	EQUIV	%	LINE	TOTAL	LINE
SECT	SECT	CONS		CONSTR-N	FAULT	FAULT	FAULT	FAULT	KW	AMPS	CAP	DROP	DROP	LOSS
1713013	1713012	10.97	2 1-	2 ACSR	0	0	407	138	8	1	1	0.00	6.52	0
1713017	1713013	11.40	2 1-	4 ACSR	0	0	383	135	8	1	1	0.01	6.54	0
1613082	1613070	10.36	6 1-	4 ACSR	0	0	438	141	10	1	1	0.02	6.30	0
1613044	1613081	8.48	73 3-	1/0 ACSR	820	763	564	151	421	20	9	0.06	5.47	21
1613053	1613044	8.54	73 3-	1/0 ACSR	814	757	560	151	420	20	9	0.02	5.49	7
1613049	1613053	8.59	4 1-	1/0 ACSR	0	0	556	151	8	1	1	0.00	5.49	0
1613054	1613053	8.98	69 3-	1/0 ACSR	768	716	530	149	412	19	9	0.14	5.63	44
1613056	1613054	8.98	27 1-	1/0 ACSR	0	0	529	149	185	26	12	0.00	5.64	0
OC100112	1613056	8.98	27 1-	35-H	0	0	529	149	185	26	77	0.00	5.64	0
1613047	OC100112	9.13	27 1-	1/0 ACSR	0	0	520	148	185	26	12	0.09	5.73	12
1613072	1613047	9.16	24 1-	1/0 URD PRI AL	0	0	518	287	160	23	14	0.02	5.74	2
1613048	1613072	10.18	24 1-	1/0 ACSR	0	0	461	144	160	23	10	0.28	6.03	23
1613050	1613054	8.98	28 1-	1/0 ACSR	0	0	529	149	135	19	9	0.00	5.64	0
OC100113	1613050	8.98	28 1-	35-H	0	0	529	149	135	19	56	0.00	5.64	0
1613051	OC100113	9.13	28 1-	1/0 ACSR	0	0	520	148	135	19	9	0.06	5.70	6
SW100034-B	1613051	9.13	22 1-	Closed	0	0	520	148	103	14	0	0.00	5.70	0
SW100034-A	SW100034-B	9.13	22 1-	Closed	0	0	520	148	103	14	0	0.00	5.70	0
1613052	SW100034-A	9.95	22 1-	1/0 ACSR	0	0	473	145	103	14	6	0.17	5.86	9
1613055	1613052	10.23	3 1-	2 ACSR	0	0	456	143	15	2	1	0.01	5.87	0
NEWCAP-BAE8A005	1613081	8.31	0 3-	Capacitor	839	780	577	152	0	-13	0	0.00	5.41	0
1614185	1614184	5.39	155 3-	4/0 ACSR	1406	1276	948	166	778	37	11	0.11	3.86	59
OC100103	1614185	5.39	154 3-	REC_70_UNK	1406	1276	948	166	778	37	53	0.00	3.86	0
1614186	OC100103	5.53	154 3-	4/0 ACSR	1372	1246	924	165	778	37	11	0.06	3.91	31
1614187	1614186	5.56	152 3-	4/0 ACSR	1367	1241	920	165	774	36	11	0.01	3.92	5
OC1554249101	1614187	5.56	152 3-	_DefaultBayEqui	1367	1241	920	165	774	36	0	0.00	3.92	0
1614179	OC1554249101	5.59	118 3-	1/0 ACSR	1356	1231	913	165	651	31	14	0.02	3.95	11
SW100033-B	1614179	5.59	118 3-	Closed	1356	1231	913	165	651	31	0	0.00	3.95	0
SW100033-A	SW100033-B	5.59	118 3-	Closed	1356	1231	913	165	651	31	0	0.00	3.95	0
1614226	SW100033-A	6.54	118 3-	1/0 ACSR	1129	1034	764	160	651	31	14	0.48	4.43	237
1613045	1614226	6.81	69 2-	1/0 ACSR	0	985	729	159	435	31	14	0.18	4.61	61
1613046	1613045	6.86	25 2-	1/0 ACSR	0	977	723	159	174	12	5	0.01	4.62	2
1613065	1613046	6.91	24 1-	2 ACSR	0	0	715	159	171	24	14	0.04	4.66	6
OC100104	1613065	6.91	24 1-	REC_35_UNK	0	0	715	159	171	24	70	0.00	4.66	0
1613066	OC100104	7.15	24 1-	2 ACSR	0	0	684	157	171	24	14	0.12	4.78	13
1613067	1613066	7.24	6 1-	4 ACSR	0	0	670	156	45	6	5	0.03	4.81	0
1613068	1613067	7.30	6 1-	2 ACSR	0	0	663	156	45	6	4	0.01	4.82	0
1613071	1613068	7.30	4 1-	1/0 URD PRI AL	0	0	663	322	30	4	3	0.00	4.82	0
1613039	1613045	6.86	42 1-	4 ACSR	0	0	720	159	259	37	27	0.09	4.70	20
OC100105	1613039	6.86	42 1-	REC_35_UNK	0	0	720	159	259	37	106	0.00	4.70	0
1613040	OC100105	7.88	42 1-	4 ACSR	0	0	574	150	259	37	27	1.06	5.76	180
1613041	1613040	8.03	9 1-	1/0 ACSR	0	0	562	149	52	7	3	0.02	5.77	0
1713010	1613041	8.13	2 1-	2 ACSR	0	0	553	148	6	0	1	0.00	5.78	0
1713018	1713010	8.30	1 1-	1/0 URD PRI AL	0	0	541	287	6	0	1	0.00	5.78	0
1613060	1614226	6.63	21 1-	4 ACSR	0	0	746	160	82	11	8	0.05	4.48	3
OC100106	1613060	6.63	19 1-	REC_25_UNK	0	0	746	160	73	10	42	0.00	4.48	0
1613061	OC100106	6.79	19 1-	4 ACSR	0	0	718	158	73	10	7	0.07	4.55	5
1613062	1613061	6.95	17 1-	6 ACWC	0	0	690	157	72	10	7	0.08	4.63	5
1613064	1613062	7.58	15 1-	6 ACWC	0	0	600	151	63	9	7	0.13	4.76	5
1613063	1613062	7.71	-2 1-	4 ACSR	0	0	583	150	8	1	1	0.02	4.65	0
1614188	OC1554249101	6.83	34 3-	4/0 ACSR	1129	1025	752	161	123	5	2	0.04	3.97	2
SW100494-A	1614188	6.83	0 3-	Open	1129	1025	752	161	0	0	0	0.00	3.97	0
1614146	1614186	5.57	1 1-	2 ACSR	0	0	917	165	0	0	0	0.00	3.97	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1614263	1614224	4.66	1 1-	4 ACSR	0	0	1091	168	1	0	0	0.00	3.40	0
OC100100	1614263	4.66	1 1-	REC_15_UNK	0	0	1091	168	1	0	1	0.00	3.40	0
1614264	OC100100	4.90	1 1-	4 ACSR	0	0	1007	165	1	0	0	0.00	3.40	0
CA100002	1614222	3.87	0 3-	Capacitor	1897	1720	1310	171	0	-14	0	0.00	2.78	0
1514548	1514459	1.05	0 3-	336.4 ACSR	4374	4125	3539	178	0	0	0	0.00	0.64	0
SW100021-A	1514548	1.05	0 3-	Open	4374	4125	3539	178	0	0	0	0.00	0.64	0
CKT 124 total losses:		\$9,206												
SUB 3, CKT 134														
WNIC_134	WEST NICHOLASVI	0.00	560 3-	SBS_99_UNK	7503	7832	7947	180	3319	153	0	0.00	0.00	0
1514523	WNIC_134	0.16	560 3-	336.4 ACSR	6781	6787	6705	180	3319	153	29	0.19	0.19	366
1514524	1514523	0.40	560 3-	4/0 ACSR	5727	5596	5180	179	3316	153	45	0.39	0.58	830
1514662	1514524	0.83	42 1-	1/0 URD PRI AL	0	0	3635	448	227	31	19	0.22	0.79	29
SW100435-A	1514662	0.83	0 1-	Open	0	0	3635	448	0	0	0	0.00	0.79	0
1514525	1514524	0.49	462 3-	4/0 ACSR	5412	5250	4773	179	2807	130	38	0.13	0.70	234
1514670	1514525	0.79	29 2-	1/0 URD PRI AL	0	4501	3935	454	155	10	6	0.08	0.78	11
1514472	1514670	0.94	25 2-	1/0 ACSR	0	3990	3442	176	144	10	4	0.03	0.80	2
1514580	1514472	0.99	4 2-	1/0 ACSR	0	3833	3293	175	23	1	1	0.00	0.80	0
1514581	1514580	1.01	3 2-	4/0 ACSR	0	3788	3250	175	16	1	0	0.00	0.80	0
SW100253-B	1514581	1.01	3 2-	Closed	0	3788	3250	175	16	1	0	0.00	0.80	0
SW100253-A	SW100253-B	1.01	3 2-	Closed	0	3788	3250	175	16	1	0	0.00	0.80	0
1514583	SW100253-A	1.03	1 2-	1/0 ACSR	0	3743	3208	175	1	0	0	0.00	0.80	0
1514582	SW100253-A	1.04	2 2-	2 ACSR	0	3693	3168	175	15	1	1	0.00	0.81	0
1514661	1514472	1.11	10 1-	1/0 URD PRI AL	0	0	3046	440	59	8	5	0.02	0.83	0
SW100434-A	1514661	1.11	0 1-	Open	0	0	3046	440	0	0	0	0.00	0.83	0
1514526	1514525	0.61	428 3-	4/0 ACSR	5030	4837	4307	178	2621	121	36	0.16	0.86	279
1514475	1514526	0.69	120 3-	4/0 ACSR	4809	4601	4050	178	633	29	9	0.03	0.89	11
1514638	1514475	0.89	8 1-	1/0 URD PRI AL	0	0	3544	453	31	4	3	0.01	0.90	0
SW100442-A	1514638	0.89	0 1-	Open	0	0	3544	453	0	0	0	0.00	0.90	0
1514476	1514475	0.84	112 3-	4/0 ACSR	4432	4206	3631	177	602	28	8	0.05	0.93	18
1514637	1514476	0.88	5 1-	1/0 URD PRI AL	0	0	3556	458	23	3	2	0.00	0.93	0
SW100442-B	1514637	0.88	0 1-	Open	0	0	3556	458	0	0	0	0.00	0.93	0
1514546	1514476	0.90	102 3-	4/0 ACSR	4297	4066	3487	177	559	26	8	0.02	0.95	6
1514547	1514546	1.02	91 3-	4/0 ACSR	4056	3819	3236	177	518	24	7	0.03	0.98	10
1514477	1514547	1.21	75 3-	4/0 ACSR	3718	3477	2899	176	454	21	6	0.04	1.02	12
1514458	1514477	1.22	52 3-	1/0 ACSR	3710	3468	2892	176	371	17	8	0.00	1.02	0
1514636	1514458	1.28	3 1-	1/0 URD PRI AL	0	0	2794	448	17	2	1	0.00	1.02	0
SW100443-A	1514636	1.28	0 1-	Open	0	0	2794	448	0	0	0	0.00	1.02	0
1514635	1514458	1.96	45 1-	1/0 URD PRI AL	0	0	1991	416	330	46	27	0.55	1.57	107
SW100443-B	1514635	1.96	0 1-	Open	0	0	1991	416	0	0	0	0.00	1.57	0
1514673	1514458	1.27	4 1-	1/0 URD PRI AL	0	0	2812	449	24	3	2	0.00	1.03	0
SW-406862464-B	1514673	1.27	0 1-	Open	0	0	2812	449	0	0	0	0.00	1.03	0
1514478	1514477	1.35	12 3-	4/0 ACSR	3502	3262	2693	176	44	2	1	0.00	1.02	0
SW100250-B	1514478	1.35	0 3-	Open	3502	3262	2693	176	0	0	0	0.00	1.02	0
1514599	1514547	1.03	13 1-	1/0 ACSR	0	0	3215	177	51	7	3	0.00	0.98	0
1514660	1514599	1.17	13 1-	1/0 URD PRI AL	0	0	2966	448	51	7	4	0.02	1.00	0
SW100445-B	1514660	1.17	0 1-	Open	0	0	2966	448	0	0	0	0.00	1.00	0
1514598	1514546	0.97	6 1-	1/0 ACSR	0	0	3324	177	22	3	1	0.00	0.95	0
1514659	1514598	0.98	2 1-	1/0 URD PRI AL	0	0	3311	456	7	1	1	0.00	0.95	0
SW100445-A	1514659	0.98	0 1-	Open	0	0	3311	456	0	0	0	0.00	0.95	0
1514658	1514598	0.99	2 1-	1/0 URD PRI AL	0	0	3280	455	6	0	1	0.00	0.95	0
SW100444-A	1514658	0.99	0 1-	Open	0	0	3280	455	0	0	0	0.00	0.95	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LIG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1514431	1514526	0.68	303 3-	4/0 ACSR	4843	4638	4089	178	1954	90	27	0.07	0.93	84
1514672	1514431	0.69	28 1-	1/0 URD PRI AL	0	0	4071	464	206	28	17	0.01	0.93	0
SW100438-A	1514672	0.69	26 1-	Closed	0	0	4071	464	191	26	0	0.00	0.93	0
SW100438-B	SW100438-A	0.69	26 1-	Closed	0	0	4071	464	191	26	0	0.00	0.93	0
1514676	SW100438-B	0.75	26 1-	1/0 URD PRI AL	0	0	3897	460	191	26	16	0.05	0.99	9
1514675	1514676	0.91	6 1-	1/0 URD PRI AL	0	0	3494	452	47	6	4	0.02	1.00	0
SW100439-A	1514675	0.91	0 1-	Open	0	0	3494	452	0	0	0	0.00	1.00	0
1514674	1514676	1.05	20 1-	1/0 URD PRI AL	0	0	3170	445	144	20	12	0.10	1.08	8
1514432	1514431	0.72	272 3-	4/0 ACSR	4736	4524	3966	178	1729	80	24	0.04	0.96	41
1514434	1514432	0.77	258 3-	4/0 ACSR	4616	4398	3833	178	1661	77	23	0.04	1.00	43
1514439	1514434	0.85	184 3-	4/0 ACSR	4421	4195	3619	177	1339	62	18	0.06	1.06	49
SW100247-B	1514439	0.85	182 3-	Closed	4421	4195	3619	177	1324	61	0	0.00	1.06	0
SW100247-A	SW100247-B	0.85	182 3-	Closed	4421	4195	3619	177	1324	61	0	0.00	1.06	0
1514436	SW100247-A	0.93	182 3-	4/0 ACSR	4244	4012	3431	177	1324	61	18	0.05	1.11	44
1514484	1514436	0.97	86 3-	1/0 ACSR	4131	3893	3320	177	713	33	14	0.03	1.13	15
OC100304	1514484	0.97	86 3-	REC_70_UNK	4131	3893	3320	177	713	33	47	0.00	1.13	0
1514514	OC100304	1.03	86 3-	1/0 ACSR	3996	3753	3190	177	713	33	14	0.03	1.17	19
1514515	1514514	1.56	83 3-	1/0 ACSR	3031	2797	2322	174	692	32	14	0.26	1.42	124
1514584	1514515	2.70	58 2-	1/0 ACSR	0	1783	1438	169	448	31	14	0.38	1.81	87
1514671	1514514	1.07	2 1-	1/0 URD PRI AL	0	0	3126	453	14	2	1	0.00	1.17	0
SW100439-B	1514671	1.07	0 1-	Open	0	0	3126	453	0	0	0	0.00	1.17	0
1514428	1514436	0.99	67 3-	4/0 ACSR	4116	3881	3298	177	474	22	7	0.01	1.12	4
1514429	1514428	1.20	43 3-	4/0 ACSR	3743	3502	2923	176	335	15	5	0.03	1.15	6
1514482	1514429	2.06	26 3-	4/0 ACSR	2702	2480	1976	174	216	10	3	0.05	1.20	5
1514483	1514482	2.08	0 3-	1/0 ACSR	2681	2459	1959	174	0	0	0	0.00	1.20	0
SW148-B	1514483	2.08	0 3-	Open	2681	2459	1959	174	0	0	0	0.00	1.20	0
1514683	1514429	1.21	1 1-	1/0 URD PRI AL	0	0	2900	451	2	0	0	0.00	1.15	0
SW100440-A	1514683	1.21	0 1-	Open	0	0	2900	451	0	0	0	0.00	1.15	0
1514589	1514428	1.05	20 1-	1/0 ACSR	0	0	3165	177	103	14	6	0.02	1.14	2
1514682	1514589	1.26	20 1-	1/0 URD PRI AL	0	0	2803	444	103	14	8	0.05	1.19	3
SW100440-B	1514682	1.26	0 1-	Open	0	0	2803	444	0	0	0	0.00	1.19	0
1514435	1514434	0.78	72 3-	1/0 ACSR	4576	4356	3791	178	300	13	6	0.00	1.00	0
OC100301	1514435	0.78	72 3-	70-L	4576	4356	3791	178	300	13	20	0.00	1.00	0
1514438	OC100301	1.10	72 3-	1/0 ACSR	3770	3516	2998	176	300	13	6	0.06	1.06	11
1514596	1514438	1.18	30 1-	1/0 ACSR	0	0	2851	176	130	18	8	0.03	1.09	3
1514657	1514596	1.24	24 1-	1/0 URD PRI AL	0	0	2749	444	100	13	8	0.03	1.12	2
1514597	1514657	1.42	20 1-	1/0 ACSR	0	0	2470	174	80	11	5	0.02	1.14	0
1514656	1514432	0.98	14 1-	1/0 URD PRI AL	0	0	3328	449	68	9	6	0.04	1.00	2
SW100444-B	1514656	0.98	0 1-	Open	0	0	3328	449	0	0	0	0.00	1.00	0
CKT 134 total losses:		\$2,476												
SUB 3, CKT 144														
WNIC_144	WEST NICHOLASVI	0.00	769 3-	SBS_99_UNK	7503	7832	7947	180	4670	213	0	0.00	0.00	0
1514468	WNIC_144	0.01	769 3-	336.4 ACSR	7462	7764	7876	180	4670	213	40	0.01	0.01	36
1514473	1514468	0.16	769 3-	4/0 ACSR	6623	6624	6543	179	4670	213	63	0.35	0.36	1100
1514474	1514473	0.69	769 3-	336.4 ACSR	5021	4808	4311	178	4660	213	40	0.79	1.15	2267
1514480	1514474	0.77	742 3-	4/0 ACSR	4800	4576	4052	178	4487	206	61	0.17	1.33	529
1514481	1514480	1.01	742 3-	336.4 ACSR	4336	4091	3529	178	4482	206	39	0.34	1.66	934
SW100116-B	1514481	1.01	641 3-	Closed	4336	4091	3529	178	4163	191	0	0.00	1.66	0
SW100116-A	SW100116-B	1.01	641 3-	Closed	4336	4091	3529	178	4163	191	0	0.00	1.66	0
1514489	SW100116-A	1.05	641 3-	336.4 ACSR	4258	4011	3446	178	4163	191	36	0.06	1.73	162
1514503	1514489	1.13	641 3-	336.4 ACSR	4138	3887	3318	177	4161	191	36	0.10	1.82	260

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Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW100119-B	1514503	1.13	640 3-	Closed	4138	3887	3318	177	4127	190	0	0.00	1.82	0
SW100119-A	SW100119-B	1.13	640 3-	Closed	4138	3887	3318	177	4127	190	0	0.00	1.82	0
1514454	SW100119-A	1.20	640 3-	336.4 ACSR	4017	3765	3193	177	4127	190	36	0.10	1.93	269
1514541	1514454	1.22	52 3-	1/0 ACSR	3992	3739	3169	177	218	10	4	0.00	1.93	0
1514542	1514541	1.28	51 3-	4 ACSR	3817	3546	3005	177	214	10	7	0.02	1.95	4
1514677	1514542	1.34	46 1-	1/0 URD PRI AL	0	0	2901	450	177	24	15	0.05	2.00	8
1514679	1514677	1.63	39 1-	1/0 URD PRI AL	0	0	2477	435	135	19	11	0.09	2.09	7
SW100435-B	1514679	1.63	0 1-	Open	0	0	2477	435	0	0	0	0.00	2.09	0
1514678	1514677	1.48	5 1-	1/0 URD PRI AL	0	0	2694	443	36	5	3	0.01	2.01	0
SW100034-B	1514678	1.48	0 1-	Open	0	0	2694	443	0	0	0	0.00	2.01	0
1514455	1514454	1.29	574 3-	336.4 ACSR	3899	3645	3071	177	3836	176	33	0.10	2.03	245
1514456	1514455	1.45	540 3-	336.4 ACSR	3680	3425	2852	177	3680	169	32	0.19	2.22	455
1514588	1514456	1.53	32 1-	1/0 ACSR	0	0	2712	176	150	21	9	0.04	2.26	5
1514632	1514588	2.18	30 1-	1/0 URD PRI AL	0	0	1998	419	144	20	12	0.21	2.47	18
1514457	1514456	1.50	507 3-	336.4 ACSR	3615	3361	2789	177	3514	162	31	0.06	2.28	133
SW100122-B	1514457	1.50	507 3-	Closed	3615	3361	2789	177	3512	162	0	0.00	2.28	0
SW100122-A	SW100122-B	1.50	507 3-	Closed	3615	3361	2789	177	3512	162	0	0.00	2.28	0
1514444	SW100122-A	1.78	507 3-	336.4 ACSR	3300	3050	2490	176	3512	162	31	0.31	2.59	708
1514664	1514444	1.90	1 3-	350 MCM URD PRI	3241	3006	2448	447	422	19	6	0.02	2.60	5
1514993	1514664	1.90	1 3-	Consumer	3241	3006	2448	447	422	19	0	0.00	2.60	0
1514445	1514444	1.96	497 3-	336.4 ACSR	3129	2884	2333	176	3032	139	26	0.17	2.75	330
1514540	1514445	2.25	37 3-	1/0 ACSR	2754	2519	2028	174	197	9	4	0.03	2.78	3
1514446	1514445	2.11	454 3-	336.4 ACSR	2998	2756	2215	175	2794	128	24	0.13	2.88	236
1514357	1514446	2.16	23 1-	2 ACSR	0	0	2155	175	160	22	13	0.04	2.92	4
1514607	1514357	2.18	19 1-	1/0 URD PRI AL	0	0	2135	440	134	19	11	0.01	2.93	2
1514364	1514607	2.39	18 1-	1/0 ACSR	0	0	1944	174	132	18	8	0.05	2.98	3
1514447	1514446	2.32	421 3-	336.4 ACSR	2828	2592	2066	175	2589	119	22	0.17	3.05	289
1514451	1514447	2.36	397 3-	336.4 ACSR	2794	2560	2036	175	2500	115	22	0.03	3.08	59
1514470	1514451	2.39	105 3-	336.4 ACSR	2779	2545	2023	175	611	28	5	0.00	3.08	2
OC100236	1514470	2.39	105 3-	REC_100_UNK	2779	2545	2023	175	611	28	29	0.00	3.08	0
1514471	OC100236	2.69	105 3-	336.4 ACSR	2574	2350	1849	174	611	28	5	0.07	3.15	25
1514492	1514471	2.72	60 3-	1/0 ACSR	2548	2325	1829	174	305	14	6	0.01	3.16	2
1514663	1514492	2.75	60 3-	1/0 URD PRI AL	2522	2300	1813	432	305	14	9	0.01	3.17	3
1614297	1514663	2.85	60 3-	1/0 ACSR	2435	2216	1747	173	305	14	6	0.02	3.19	4
1614150	1614297	3.28	28 1-	2 ACSR	0	0	1459	170	172	24	14	0.20	3.39	20
1614151	1614150	3.70	4 1-	4 ACSR	0	0	1209	166	22	3	2	0.03	3.42	0
1614299	1514471	2.84	45 3-	336.4 ACSR	2485	2265	1775	174	305	14	3	0.02	3.17	3
1614287	1614299	2.84	41 3-	1/0 URD PRI AL	2481	2262	1772	431	273	12	8	0.00	3.17	0
SW100131-B	1614287	2.84	41 3-	Closed	2481	2262	1772	431	273	12	0	0.00	3.17	0
SW100131-A	SW100131-B	2.84	41 3-	Closed	2481	2262	1772	431	273	12	0	0.00	3.17	0
1614288	SW100131-A	2.86	41 3-	1/0 URD PRI AL	2469	2250	1765	431	273	12	8	0.00	3.17	1
1614197	1614288	2.86	41 3-	336.4 ACSR	2465	2247	1762	174	273	12	2	0.00	3.17	0
SW100134-B	1614197	2.86	41 3-	Closed	2465	2247	1762	174	273	12	0	0.00	3.17	0
SW100134-A	SW100134-B	2.86	41 3-	Closed	2465	2247	1762	174	273	12	0	0.00	3.17	0
1614198	SW100134-A	3.17	41 3-	336.4 ACSR	2302	2093	1628	173	273	12	2	0.02	3.19	2
1614199	1614198	3.35	13 3-	1/0 ACSR	2166	1971	1528	172	76	3	2	0.01	3.20	0
1614149	1614199	3.38	3 1-	1/0 ACSR	0	0	1515	172	13	1	1	0.00	3.20	0
1514452	1514451	2.51	292 3-	336.4 ACSR	2692	2463	1949	175	1889	86	16	0.08	3.16	103
SW100125-B	1514452	2.51	289 3-	Closed	2692	2463	1949	175	1878	85	0	0.00	3.16	0
SW100125-A	SW100125-B	2.51	289 3-	Closed	2692	2463	1949	175	1878	85	0	0.00	3.16	0
1514453	SW100125-A	2.61	289 3-	336.4 ACSR	2623	2397	1891	174	1878	85	16	0.05	3.21	74

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1514594	1514491	2.78	22 1-	1/0 ACSR	0	0	1776	174	92	13	6	0.02	3.26	0
OC100233	1514594	2.78	22 1-	70-L	0	0	1776	174	92	13	19	0.00	3.26	0
1514595	OC100233	3.29	22 1-	1/0 ACSR	0	0	1268	169	92	13	6	0.27	3.53	17
1514645	1514595	4.24	14 1-	1/0 URD PRI AL	0	0	1131	379	68	9	6	0.07	3.60	3
1514469	1514491	2.74	3 3-	4/0 ACSR	2525	2304	1810	174	438	20	6	0.00	3.25	0
SW100128-B	1514469	2.74	3 3-	Closed	2525	2304	1810	174	438	20	0	0.00	3.25	0
SW100128-A	SW100128-B	2.74	3 3-	Closed	2525	2304	1810	174	438	20	0	0.00	3.25	0
1514463	SW100128-A	2.87	3 3-	4/0 ACSR	2425	2209	1728	174	438	20	6	0.03	3.28	9
1514464	1514463	2.91	1 3-	4 ACSR	2378	2164	1694	173	430	20	15	0.03	3.31	12
1514994	1514464	2.91	1 3-	Consumer	2378	2164	1694	173	430	20	0	0.00	3.31	0
1513136	1514453	3.57	257 3-	4/0 ACSR	2016	1829	1405	171	1334	60	18	0.47	3.68	517
SW100137-B	1513136	3.57	236 3-	Closed	2016	1829	1405	171	1247	56	0	0.00	3.68	0
SW100137-A	SW100137-B	3.57	236 3-	Closed	2016	1829	1405	171	1247	56	0	0.00	3.68	0
1513104	SW100137-A	3.82	236 3-	4/0 ACSR	1902	1725	1318	171	1247	56	17	0.12	3.80	123
1513105	1513104	4.11	228 3-	4/0 ACSR	1781	1616	1226	170	1210	55	16	0.13	3.93	134
OC100239	1513105	4.11	217 3-	REC_100_UNK	1781	1616	1226	170	1154	52	53	0.00	3.93	0
1513106	OC100239	4.17	217 3-	4/0 ACSR	1760	1597	1210	169	1154	52	15	0.02	3.95	23
1513111	1513106	5.08	129 3-	1/0 ACSR	1407	1291	969	165	705	32	14	0.34	4.30	262
OC100242	1513111	5.08	115 3-	REC_50_UNK	1407	1291	969	165	608	28	57	0.00	4.30	0
1513107	OC100242	5.15	12 3-	1/0 ACSR	1385	1272	954	165	74	13	6	-0.01	4.29	4
1513108	1513107	5.90	12 3-	1/0 ACSR	1189	1099	821	161	74	3	2	0.02	4.31	0
SW100140-B	1513108	5.90	0 3-	Open	1189	1099	821	161	0	0	0	0.00	4.31	0
CA100005	1513107	5.15	0 3-	Capacitor	1385	1272	954	165	0	-14	0	0.00	4.29	0
1513112	OC100242	5.35	103 3-	1/0 ACSR	1326	1220	914	164	533	25	11	0.12	4.42	50
1513077	1513112	6.12	20 1-	4 ACSR	0	0	737	156	138	19	14	0.35	4.77	29
1513101	1513112	5.84	76 3-	1/0 ACSR	1201	1109	829	161	335	16	7	0.13	4.55	34
1613080	1513101	6.05	0 3-	2 ACSR	1145	1061	792	160	0	0	0	0.00	4.55	0
1613043	1613080	6.20	0 3-	2 ACSR	1108	1029	768	159	0	0	0	0.00	4.55	0
1613074	1613043	6.35	0 1-	1/0 URD PRI AL	0	0	749	335	0	0	0	0.00	4.55	0
SW100431-A	1613074	6.35	0 1-	Open	0	0	749	335	0	0	0	0.00	4.55	0
1613059	1613080	6.17	0 1-	2 ACSR	0	0	773	159	0	0	0	0.00	4.55	0
1613073	1613059	6.40	0 1-	1/0 URD PRI AL	0	0	744	334	0	0	0	0.00	4.55	0
SW100431-B	1613073	6.40	0 1-	Open	0	0	744	334	0	0	0	0.00	4.55	0
1613079	1513101	6.74	63 3-	1/0 ACSR	1021	949	708	157	278	13	6	0.21	4.76	48
1613057	1613079	6.81	27 1-	4 ACSR	0	0	696	157	137	19	14	0.06	4.82	7
OC100243	1613057	6.81	25 1-	35-H	0	0	696	157	130	18	53	0.00	4.82	0
1613058	OC100243	7.57	25 1-	4 ACSR	0	0	586	150	130	18	13	0.33	5.15	26
1613042	1613079	6.94	31 1-	4 ACSR	0	0	674	155	129	18	13	0.17	4.93	19
OC100244	1613042	6.94	29 1-	REC_50_UNK	0	0	674	155	118	16	34	0.00	4.93	0
1613038	OC100244	9.05	29 1-	4 ACSR	0	0	443	138	118	16	12	0.92	5.85	68
1612028	1613038	9.32	2 1-	2 ACSR	0	0	428	137	12	1	1	0.01	5.86	0
1513102	1513106	4.31	75 3-	4/0 ACSR	1710	1552	1173	169	386	18	5	0.03	3.98	7
1513103	1513102	4.53	67 3-	4/0 ACSR	1635	1484	1118	168	351	16	5	0.04	4.01	8
1513110	1513103	5.07	47 3-	1/0 ACSR	1436	1312	983	166	229	10	5	0.05	4.07	7
1513109	1513103	4.86	12 3-	4/0 ACSR	1534	1392	1043	167	70	3	1	0.01	4.02	0
SW100982-B	1513109	4.86	0 3-	Open	1534	1392	1043	167	0	0	0	0.00	4.02	0
1513078	1513102	4.37	2 1-	4 ACSR	0	0	1146	168	12	1	1	0.00	3.98	0
SW-1723145351-B	1513078	4.37	1 1-	Closed	0	0	1146	168	6	0	0	0.00	3.98	0
SW-1723145351-A	SW-1723145351-B	4.37	1 1-	Closed	0	0	1146	168	6	0	0	0.00	3.98	0
1513131	SW-1723145351-A	4.37	1 1-	1/0 URD PRI AL	0	0	1146	168	6	0	0	0.00	3.98	0
1513125	1513104	3.99	6 1-	4 ACSR	0	0	1230	169	26	3	3	0.01	3.81	0
1514450	1514447	2.33	12 3-	336.4 ACSR	2819	2584	2058	175	44	2	0	0.00	3.05	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1514591	1514450	2.36	12 1-	4 ACSR	0	0	2025	175	44	6	4	0.01	3.05	0
1514592	1514591	2.49	12 1-	6 ACWC	0	0	1874	173	44	6	4	0.02	3.08	0
1514593	1514592	2.69	3 1-	4 ACSR	0	0	1667	171	7	0	1	0.00	3.08	0
OC100167	1514593	2.69	0 1-	_DefaultBayEqui	0	0	1667	171	0	0	0	0.00	3.08	0
1514590	1514455	1.29	30 1-	1/0 ACSR	0	0	3053	177	137	19	8	0.00	2.03	0
1514684	1514590	1.94	30 1-	1/0 URD PRI AL	0	0	2187	424	137	19	11	0.20	2.23	16
1514490	1514489	1.10	0 3-	336.4 ACSR	4186	3937	3369	177	0	0	0	0.00	1.73	0
SW100021-B	1514490	1.10	0 3-	Open	4186	3937	3369	177	0	0	0	0.00	1.73	0
CKT 144 total losses:		\$9,745												
SUB 3, CKT 154														
WNIC_154	WEST NICHOLASVI	0.00	677 3-	SBS_99_UNK	7503	7832	7947	180	4495	205	0	0.00	0.00	0
1514543	WNIC_154	0.01	677 3-	336.4 ACSR	7460	7760	7872	180	4495	205	39	0.01	0.01	36
1514544	1514543	0.28	677 3-	4/0 ACSR	6101	6032	5705	179	4495	205	60	0.58	0.59	1773
1514545	1514544	0.94	677 3-	336.4 ACSR	4438	4200	3621	178	4479	205	39	0.98	1.57	2726
1514549	1514545	1.77	677 3-	336.4 ACSR	3307	3059	2487	176	4456	205	39	1.19	2.76	3375
1514551	1514549	1.82	671 3-	336.4 ACSR	3249	3001	2433	176	4120	191	36	0.08	2.84	205
1514552	1514551	1.86	671 3-	336.4 ACSR	3210	2963	2397	176	4119	194	37	0.06	2.89	146
1514499	1514552	1.98	3 3-	336.4 ACSR	3104	2860	2302	176	230	10	2	0.01	2.90	1
1514500	1514499	2.02	0 3-	336.4 ACSR	3067	2825	2269	176	0	0	0	0.00	2.90	0
SW136-B	1514500	2.02	0 3-	Open	3067	2825	2269	176	0	0	0	0.00	2.90	0
1514619	1514499	2.00	1 3-	1/0 URD PRI AL	3079	2837	2286	444	203	9	6	0.00	2.91	0
1514991	1514619	2.00	1 3-	Consumer	3079	2837	2286	444	203	9	0	0.00	2.91	0
1514553	1514552	1.90	666 3-	4/0 ACSR	3169	2923	2361	176	3843	181	54	0.07	2.96	171
1514559	1514553	1.99	331 3-	4/0 ACSR	3065	2823	2270	175	2581	122	36	0.12	3.08	207
SW100316-B	1514559	1.99	323 3-	Closed	3065	2823	2270	175	2540	120	0	0.00	3.08	0
SW100316-A	SW100316-B	1.99	323 3-	Closed	3065	2823	2270	175	2540	120	0	0.00	3.08	0
1514560	SW100316-A	2.04	323 3-	4/0 ACSR	3004	2764	2216	175	2540	120	35	0.07	3.15	123
1514562	1514560	2.20	308 3-	4/0 ACSR	2844	2610	2078	175	2475	117	35	0.19	3.34	310
SW100319-B	1514562	2.20	300 3-	Closed	2844	2610	2078	175	2217	105	0	0.00	3.34	0
SW100319-A	SW100319-B	2.20	300 3-	Closed	2844	2610	2078	175	2217	105	0	0.00	3.34	0
1514563	SW100319-A	2.25	300 3-	4/0 ACSR	2794	2562	2036	175	2217	105	31	0.06	3.40	92
1514564	1514563	2.29	296 3-	1/0 ACSR	2757	2526	2007	174	2216	105	46	0.06	3.47	112
1514495	1514564	2.48	12 3-	1/0 ACSR	2550	2324	1846	173	469	22	10	0.04	3.51	10
1514498	1514495	2.50	1 3-	1/0 ACSR	2530	2307	1831	173	6	0	0	0.00	3.51	0
1514614	1514498	2.51	1 3-	1/0 URD PRI AL	2524	2302	1827	429	6	0	0	0.00	3.51	0
SW100448-A	1514614	2.51	0 3-	Open	2524	2302	1827	429	0	0	0	0.00	3.51	0
1514496	1514495	2.52	1 3-	1/0 ACSR	2512	2291	1817	173	1	0	0	0.00	3.51	0
1514613	1514496	2.56	1 3-	1/0 URD PRI AL	2483	2266	1799	427	1	0	0	0.00	3.51	0
1514497	1514613	2.66	0 3-	336.4 ACSR	2429	2216	1753	173	0	0	0	0.00	3.51	0
SW100313-B	1514497	2.66	0 3-	Open	2429	2216	1753	173	0	0	0	0.00	3.51	0
1514565	1514564	2.35	284 3-	4/0 ACSR	2697	2469	1957	174	1746	82	24	0.06	3.52	65
1514494	1514565	2.53	13 3-	4 ACSR	2447	2251	1771	172	245	11	8	0.04	3.56	6
1514566	1514565	2.42	268 3-	4/0 ACSR	2640	2414	1909	174	1317	62	18	0.05	3.57	41
1514493	1514566	2.46	0 3-	4/0 ACSR	2606	2382	1880	174	0	0	0	0.00	3.57	0
SW143-B	1514493	2.46	0 3-	Open	2606	2382	1880	174	0	0	0	0.00	3.57	0
1514567	1514566	2.50	268 3-	4/0 ACSR	2574	2352	1855	174	1317	62	18	0.05	3.62	49
1514569	1514567	2.62	259 3-	4/0 ACSR	2485	2267	1781	173	1242	59	17	0.07	3.69	53
1514572	1514569	2.66	183 3-	4/0 ACSR	2456	2240	1757	173	873	41	12	0.02	3.71	11
1514629	1514572	2.79	24 1-	1/0 URD PRI AL	0	0	1683	422	88	12	7	0.03	3.74	1
SW100451-B	1514629	2.79	0 1-	Open	0	0	1683	422	0	0	0	0.00	3.74	0
1514649	1514572	2.76	12 1-	1/0 URD PRI AL	0	0	1699	423	45	6	4	0.01	3.72	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW100449-A	1514649	2.76	0 1-	Open	0	0	1699	423	0	0	0.00	3.72	0	
1514573	1514572	2.69	130 3-	4/0 ACSR	2432	2217	1738	173	684	32	10	0.01	3.72	5
1514612	1514573	2.74	129 3-	1/0 URD PRI AL	2395	2183	1716	425	668	31	19	0.04	3.76	22
1514574	1514612	2.97	129 3-	4/0 ACSR	2248	2044	1597	172	668	31	9	0.05	3.81	19
1514575	1514574	2.99	1 3-	4/0 ACSR	2237	2034	1588	172	45	2	1	0.00	3.81	0
1514366	1514574	1.32	66 1-	1/0 ACSR	0	0	1518	171	181	25	11	0.04	3.85	4
1514630	1514572	2.73	17 1-	1/0 URD PRI AL	0	0	1714	424	56	7	5	0.01	3.72	0
SW100450-A	1514630	2.73	0 1-	Open	0	0	1714	424	0	0	0.00	3.72	0	
1514570	1514569	2.68	30 3-	1/0 ACSR	2431	2215	1740	173	111	5	2	0.00	3.70	0
1514628	1514570	2.68	0 1-	1/0 URD PRI AL	0	0	1737	427	0	0	0.00	3.70	0	
SW100451-A	1514628	2.68	0 1-	Open	0	0	1737	427	0	0	0.00	3.70	0	
1514571	1514570	2.68	16 3-	1/0 ACSR	2428	2212	1738	173	49	2	1	0.00	3.70	0
1514623	1514571	2.69	8 1-	1/0 URD PRI AL	0	0	1733	426	21	3	2	0.00	3.70	0
SW100450-B	1514623	2.69	0 1-	Open	0	0	1733	426	0	0	0.00	3.70	0	
1514648	1514571	2.72	8 1-	1/0 URD PRI AL	0	0	1718	425	28	4	2	0.00	3.70	0
SW100449-B	1514648	2.72	0 1-	Open	0	0	1718	425	0	0	0.00	3.70	0	
1514568	1514567	2.54	8 3-	1/0 ACSR	2538	2317	1827	174	66	3	1	0.00	3.63	0
1514665	1514568	2.72	5 3-	1/0 URD PRI AL	2407	2197	1746	423	19	0	1	0.00	3.63	0
SW100448-B	1514665	2.72	0 3-	Open	2407	2197	1746	423	0	0	0.00	3.63	0	
1514561	1514560	2.10	0 3-	4/0 ACSR	2950	2712	2169	175	0	0	0.00	3.15	0	
SW139-B	1514561	2.10	0 3-	Open	2950	2712	2169	175	0	0	0.00	3.15	0	
1514554	1514553	2.24	333 3-	4/0 ACSR	2811	2579	2051	175	1125	53	16	0.17	3.13	119
1514558	1514554	2.74	96 3-	336.4 ACSR	2480	2262	1770	174	369	17	3	0.03	3.17	5
SW100313-A	1514558	2.74	0 3-	Open	2480	2262	1770	174	0	0	0.00	3.17	0	
1514555	1514554	2.28	206 3-	4/0 ACSR	2767	2537	2013	175	471	22	7	0.01	3.14	4
1514610	1514555	2.37	38 1-	1/0 URD PRI AL	0	0	1948	433	45	6	4	0.01	3.15	0
1514365	1514610	2.38	8 1-	1/0 ACSR	0	0	1940	174	12	1	1	0.00	3.16	0
1514622	1514365	2.39	0 1-	1/0 URD PRI AL	0	0	1936	432	0	0	0.00	3.16	0	
SW100455-A	1514622	2.39	0 1-	Open	0	0	1936	432	0	0	0.00	3.16	0	
1514611	1514365	2.45	8 1-	1/0 URD PRI AL	0	0	1893	429	12	1	1	0.00	3.16	0
SW100452-A	1514611	2.45	0 1-	Open	0	0	1893	429	0	0	0.00	3.16	0	
1514640	1514555	2.37	7 1-	1/0 URD PRI AL	0	0	1949	433	15	2	1	0.01	3.15	0
1514627	1514640	2.43	1 1-	1/0 URD PRI AL	0	0	1909	430	4	0	0	0.00	3.15	0
SW100456-A	1514627	2.43	0 1-	Open	0	0	1909	430	0	0	0.00	3.15	0	
1514641	1514640	2.42	6 1-	1/0 URD PRI AL	0	0	1917	431	11	1	1	0.00	3.15	0
SW100454-A	1514641	2.42	0 1-	Open	0	0	1917	431	0	0	0.00	3.15	0	
1514651	1514555	2.37	11 1-	1/0 URD PRI AL	0	0	1948	433	15	2	1	0.01	3.15	0
1514653	1514651	2.45	11 1-	1/0 URD PRI AL	0	0	1893	429	15	2	1	0.00	3.15	0
SW100453-A	1514653	2.45	0 1-	Open	0	0	1893	429	0	0	0.00	3.15	0	
1514652	1514651	2.43	0 1-	1/0 URD PRI AL	0	0	1908	430	0	0	0.00	3.15	0	
SW100457-A	1514652	2.43	0 1-	Open	0	0	1908	430	0	0	0.00	3.15	0	
1514556	1514555	2.48	146 3-	4/0 ACSR	2601	2378	1874	174	379	17	5	0.02	3.17	5
1514557	1514556	2.61	38 3-	4/0 ACSR	2500	2282	1791	173	85	4	1	0.00	3.17	0
1514647	1514557	2.61	0 1-	1/0 URD PRI AL	0	0	1788	429	0	0	0.00	3.17	0	
SW100457-B	1514647	2.61	0 1-	Open	0	0	1788	429	0	0	0.00	3.17	0	
1514639	1514557	2.61	6 1-	1/0 URD PRI AL	0	0	1788	429	8	1	1	0.00	3.17	0
SW100456-B	1514639	2.61	0 1-	Open	0	0	1788	429	0	0	0.00	3.17	0	
1514609	1514557	2.67	6 1-	1/0 URD PRI AL	0	0	1756	427	8	1	1	0.00	3.17	0
SW100455-B	1514609	2.67	0 1-	Open	0	0	1756	427	0	0	0.00	3.17	0	
1514626	1514556	2.51	6 1-	1/0 URD PRI AL	0	0	1850	431	11	1	1	0.00	3.17	0
SW100454-B	1514626	2.51	0 1-	Open	0	0	1850	431	0	0	0.00	3.17	0	
1514608	1514556	2.48	8 1-	1/0 URD PRI AL	0	0	1871	432	11	1	1	0.00	3.17	0

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW100452-B	1514608	2.48	0 1-	Open	0	0	1871	432	0	0	0	0.00	3.17	0
1514646	1514556	2.48	11 1-	1/0 URD PRI AL	0	0	1872	432	13	1	1	0.00	3.17	0
SW100453-B	1514646	2.48	0 1-	Open	0	0	1872	432	0	0	0	0.00	3.17	0
CA100011	1514551	1.82	0 3-	Capacitor	3249	3001	2433	176	0	-14	0	0.00	2.84	0
1514550	1514549	1.84	5 3-	1/0 ACSR	3186	2938	2385	176	307	14	6	0.01	2.77	3
1514992	1514550	1.84	1 1-	Consumer	0	0	2385	176	100	14	0	0.00	2.77	0
CKT 154 total losses:	\$9,699													
SUB 3, CKT 164														
WNIC_164	WEST NICHOLASVI	0.00	159 3-	SBS_99_UNK	7503	7832	7947	180	573	26	0	0.00	0.00	0
1514620	WNIC_164	0.03	159 3-	350 MCM URD PRI	7439	7694	7872	478	573	26	8	0.01	0.01	2
1514430	1514620	0.04	60 3-	336.4 ACSR	7377	7585	7759	180	225	10	2	0.00	0.01	0
SW-1591154014-B	1514430	0.04	60 3-	Closed	7377	7585	7759	180	225	10	0	0.00	0.01	0
SW-1591154014-A	SW-1591154014-B	0.04	60 3-	Closed	7377	7585	7759	180	225	10	0	0.00	0.01	0
1514522	SW-1591154014-A	0.09	2 3-	336.4 ACSR	7158	7305	7369	180	13	0	0	0.00	0.01	0
SW679042338-A	1514522	0.09	0 3-	Closed	7158	7305	7369	180	0	0	0	0.00	0.01	0
SW679042338-B	SW679042338-A	0.09	0 3-	Closed	7158	7305	7369	180	0	0	0	0.00	0.01	0
1514621	SW-1591154014-A	0.08	58 3-	500 MCM URD PRI	7309	7535	7692	477	212	9	3	0.00	0.01	0
SW174329580-B	1514621	0.08	58 3-	Closed	7309	7535	7692	477	212	9	0	0.00	0.01	0
SW174329580-A	SW174329580-B	0.08	58 3-	Closed	7309	7535	7692	477	212	9	0	0.00	0.01	0
1514666	SW174329580-A	0.08	58 3-	500 MCM URD PRI	7305	7532	7688	477	212	9	3	0.00	0.01	0
1514576	1514666	0.11	58 3-	336.4 ACSR	7176	7364	7455	180	212	9	2	0.00	0.01	0
1514521	1514576	0.22	0 3-	1/0 ACSR	6494	6544	6381	179	0	0	0	0.00	0.01	0
1514577	1514576	0.47	58 3-	336.4 ACSR	5808	5698	5314	179	212	9	2	0.03	0.04	3
1514655	1514577	0.74	0 1-	1/0 URD PRI AL	0	0	4244	457	0	0	0	0.00	0.04	0
SW1574294373-A	1514655	0.74	0 1-	Open	0	0	4244	457	0	0	0	0.00	0.04	0
1514578	1514577	0.52	52 3-	336.4 ACSR	5651	5519	5100	179	198	9	2	0.00	0.04	0
OC1164237350	1514578	0.52	52 3-	_DefaultBayEqui	5651	5519	5100	179	198	9	0	0.00	0.04	0
1514579	OC1164237350	0.55	52 3-	336.4 ACSR	5574	5432	4997	179	198	9	2	0.00	0.04	0
1514527	1514579	0.58	52 3-	336.4 ACSR	5486	5333	4882	179	198	9	2	0.00	0.04	0
OC1423929816	1514527	0.58	52 3-	_DefaultBayEqui	5486	5333	4882	179	198	9	0	0.00	0.04	0
1514528	OC1423929816	0.84	52 3-	336.4 ACSR	4841	4629	4086	178	198	9	2	0.02	0.06	2
1514520	1514528	1.09	2 3-	4/0 ACSR	4248	4013	3433	177	3	0	0	0.00	0.06	0
SW100413-B	1514520	1.09	0 3-	Open	4248	4013	3433	177	0	0	0	0.00	0.06	0
1514529	1514528	0.92	50 3-	4/0 ACSR	4640	4419	3859	178	195	9	3	0.01	0.07	0
1514519	1514529	0.93	3 3-	4/0 ACSR	4627	4405	3844	178	1	0	0	0.00	0.07	0
1514361	1514519	1.17	3 1-	1/0 ACSR	0	0	3206	177	1	0	0	0.00	0.07	0
1514634	1514361	1.17	0 1-	1/0 URD PRI AL	0	0	3204	455	0	0	0	0.00	0.07	0
1514449	1514529	0.93	47 3-	4/0 ACSR	4630	4408	3847	178	195	8	3	0.00	0.07	0
OC1885356904	1514449	0.93	47 3-	70-L	4630	4408	3847	178	195	8	13	0.00	0.07	0
1514518	OC1885356904	0.97	47 3-	4/0 ACSR	4526	4300	3732	178	195	8	3	0.00	0.07	0
1514360	1514518	1.32	17 1-	4 ACSR	0	0	2631	174	81	11	8	0.09	0.17	4
1514654	1514579	0.80	0 1-	1/0 URD PRI AL	0	0	4081	456	0	0	0	0.00	0.04	0
SW1574294373-B	1514654	0.80	0 1-	Open	0	0	4081	456	0	0	0	0.00	0.04	0
1514509	1514620	0.11	99 3-	336.4 ACSR	7068	7192	7213	180	348	16	3	0.01	0.01	2
1514513	1514509	0.27	12 3-	336.4 ACSR	6427	6406	6176	179	25	1	0	0.00	0.02	0
SW100422-A	1514513	0.27	0 3-	Open	6427	6406	6176	179	0	0	0	0.00	0.02	0
1514510	1514509	0.22	82 3-	336.4 ACSR	6600	6615	6445	179	303	14	3	0.01	0.03	2
1514511	1514510	0.25	23 3-	336.4 ACSR	6507	6502	6299	179	89	4	1	0.00	0.03	0
1514633	1514511	0.43	10 1-	1/0 URD PRI AL	0	0	5270	464	39	5	3	0.02	0.04	0
SW-1141229715-A	1514633	0.43	0 1-	Open	0	0	5270	464	0	0	0	0.00	0.04	0
1514512	1514511	0.51	13 3-	336.4 ACSR	5618	5471	5030	179	49	2	0	0.00	0.03	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES CONS	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1514359	1514510	0.29	56 1-	2 ACSR	0	0	5885	179	205	28	16	0.03	0.06	4
1514631	1514359	0.48	6 1-	1/0 URD PRI AL	0	0	4893	461	21	2	2	0.01	0.07	0
SW-1141229715-B	1514631	0.48	0 1-	Open	0	0	4893	461	0	0	0	0.00	0.07	0
CKT 164 total losses:		\$19												
SUB 3 total losses:		\$37,956												

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 4, CKT 104			1561		5514	5684	5734	180	10481					
DAVS_104	DAVS	0.00	373 3-	SBS_99_UNK	5514	5684	5734	180	2540	113 0	0.00	0.00	0.00	0
1515164	DAVS_104	0.74	373 3-	4/0 ACSR	3787	3644	3245	178	2540	113 33	0.75	0.75	1357	0
1515244	1515164	0.74	0 1-	4 ACSR	0	0	3228	177	0	0 0	0.00	0.75	0	0
SW101886-A	1515244	0.74	0 1-	Open	0	0	3228	177	0	0 0	0.00	0.75	0	0
1515165	1515164	1.35	345 3-	4/0 ACSR	2982	2804	2365	176	2267	101 30	0.57	1.32	939	0
1515243	1515165	2.51	27 1-	2 ACSR	0	0	1361	167	178	24 13	0.43	1.75	43	0
1515166	1515165	1.64	295 3-	4/0 ACSR	2700	2519	2088	175	1952	88 26	0.23	1.55	331	0
1515193	1515166	2.04	25 3-	1/0 ACSR	2323	2139	1761	173	137	6 3	0.03	1.58	3	0
OC101654	1515193	2.04	12 3-	REC_35_UNK	2323	2139	1761	173	52	2 7	0.00	1.58	0	0
1515168	OC101654	2.00	12 3-	1/0 ACSR	1823	1684	1353	169	52	2 1	0.02	1.60	0	0
1515148	1515168	3.21	5 1-	4 ACSR	0	0	1137	165	17	2 2	0.02	1.62	0	0
1515167	1515166	2.00	250 3-	4/0 ACSR	2419	2241	1825	174	1635	73 22	0.24	1.79	296	0
1515146	1515167	2.06	25 1-	4 ACSR	0	0	1766	173	168	22 16	0.06	1.86	9	0
OC101646	1515146	2.06	25 1-	50-L	0	0	1766	173	168	22 46	0.00	1.86	0	0
1515147	OC101646	2.59	25 1-	4 ACSR	0	0	1346	167	168	22 16	0.27	2.12	26	0
1515177	1515167	2.22	211 3-	4/0 ACSR	2278	2103	1699	173	1389	62 19	0.12	1.92	131	0
SW101601-B	1515177	2.22	210 3-	Closed	2278	2103	1699	173	1376	62 0	0.00	1.92	0	0
SW101601-A	SW101601-B	2.22	210 3-	Closed	2278	2103	1699	173	1376	62 0	0.00	1.92	0	0
1515178	SW101601-A	2.73	210 3-	4/0 ACSR	1998	1832	1457	171	1376	62 18	0.29	2.21	295	0
SW101598-B	1515178	2.73	195 3-	Closed	1998	1832	1457	171	1297	58 0	0.00	2.21	0	0
SW101598-A	SW101598-B	2.73	195 3-	Closed	1998	1832	1457	171	1297	58 0	0.00	2.21	0	0
1515161	SW101598-A	2.79	195 3-	4/0 ACSR	1969	1805	1433	171	1297	58 17	0.03	2.24	33	0
1515179	1515161	3.23	193 3-	4/0 ACSR	1784	1628	1279	170	1282	58 17	0.13	2.37	86	0
1515145	1515179	3.97	16 1-	2 ACSR	0	0	1019	165	99	13 7	0.15	2.52	9	0
1515162	1515161	2.83	1 3-	1/0 ACSR	1946	1782	1415	171	8	0 0	0.00	2.24	0	0
1515163	1515162	2.87	0 3-	4/0 ACSR	1927	1764	1399	171	0	0 0	0.00	2.24	0	0
SW100786-B	1515163	2.87	0 3-	Open	1927	1764	1399	171	0	0 0	0.00	2.24	0	0
CKT 104 total losses:	\$3,558													
SUB 4, CKT 114														
DAVS_114	DAVS	0.00	158 3-	SBS_99_UNK	5514	5684	5734	180	1211	54 0	0.00	0.00	0.00	0
1515194	DAVS_114	0.02	158 3-	336.4 ACSR	5471	5616	5661	180	1211	54 10	0.01	0.01	5	0
SW101657-B	1515194	0.02	158 3-	Closed	5471	5616	5661	180	1211	54 0	0.00	0.01	0	0
SW101657-A	SW101657-B	0.02	158 3-	Closed	5471	5616	5661	180	1211	54 0	0.00	0.01	0	0
1515195	SW101657-A	0.06	158 3-	336.4 ACSR	5367	5456	5489	180	1211	54 10	0.01	0.02	11	0
1515196	1515195	0.16	158 3-	4/0 ACSR	5067	5059	5025	179	1211	54 16	0.05	0.07	45	0
1515197	1515196	1.08	154 3-	1/0 ACSR	3041	2849	2528	175	1169	52 23	0.66	0.73	561	0
1515198	1515197	2.90	48 3-	1/0 ACSR	1604	1512	1226	166	482	21 9	0.39	1.12	113	0
1415389	1515198	2.91	2 3-	4/0 ACSR	1600	1508	1222	166	22	0 0	0.00	1.12	0	0
1415390	1415389	3.43	2 3-	336.4 ACSR	1484	1395	1114	165	22	0 0	0.00	1.12	0	0
SW101660-B	1415390	3.43	0 3-	Open	1484	1395	1114	165	0	0 0	0.00	1.12	0	0
1415549	1515198	2.91	9 1-	4/0 ACSR	0	0	1224	166	62	8 2	0.00	1.12	0	0
1415681	1415549	2.91	9 1-	1/0 URD PRI AL	0	0	1222	384	62	8 5	0.00	1.12	0	0
OC101701	1415681	2.91	9 1-	REC_99_UNK	0	0	1222	384	62	8 0	0.00	1.12	0	0
1415682	OC101701	2.92	9 1-	1/0 URD PRI AL	0	0	1219	383	62	8 5	0.00	1.12	0	0
1516150	1515197	1.93	55 1-	1/0 URD PRI AL	0	0	1713	402	262	35 21	0.80	1.53	168	0
1516079	1516150	1.96	45 1-	4 ACSR	0	0	1682	168	187	25 18	0.03	1.56	5	0
OC101702	1516079	1.96	45 1-	REC_35_UNK	0	0	1682	168	187	25 72	0.00	1.56	0	0
1516080	OC101702	2.62	45 1-	4 ACSR	0	0	1178	162	187	25 18	0.61	2.16	86	0
1516125	1516080	3.19	15 1-	1/0 URD PRI AL	0	0	1007	345	83	11 7	0.18	2.34	12	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1516082	1516125	3.46	11 1-		4 ACSR	0	0	910 156	66	8 6	0.09	2.43	4	
1516126	1516082	3.91	3 1-	1/0 URD	PRI AL	0	0	823 320	38	5 3	0.04	2.46	0	
SW101880-B	1516126	3.91	0 1-		Open	0	0	823 320	0	0 0	0.00	2.46	0	
1516081	1516080	2.71	8 1-		4 ACSR	0	0	1133 161	30	4 3	0.01	2.17	0	
1516124	1516081	2.73	2 1-	1/0 URD	PRI AL	0	0	1128 359	4	0 0	0.00	2.17	0	
SW101880-A	1516124	2.73	0 1-		Open	0	0	1128 359	0	0 0	0.00	2.17	0	
CKT 114 total losses:		\$1,010												
SUB 4, CKT 124														
DAVS_124	DAVIS	0.00	665 3-		SBS_99_UNK	5514	5684	5734 180	4026	178 0	0.00	0.00	0	0
1515186	DAVS_124	0.02	665 3-		4/0 ACSR	5463	5603	5649 180	4026	178 53	0.03	0.03	80	0
SW101705-B	1515186	0.02	664 3-		Closed	5463	5603	5649 180	4025	178 0	0.00	0.03	0	0
SW101705-A	SW101705-B	0.02	664 3-		Closed	5463	5603	5649 180	4025	178 0	0.00	0.03	0	0
1515187	SW101705-A	0.13	664 3-		4/0 ACSR	5120	5124	5111 179	4025	178 53	0.18	0.20	555	0
1515259	1515187	0.16	5 1-		4 ACSR	0	0	4908 179	54	7 5	0.01	0.21	0	0
OC101836	1515259	0.16	5 1-		REC_50_UNK	0	0	4908 179	54	7 14	0.00	0.21	0	0
1515260	OC101836	1.01	5 1-		4 ACSR	0	0	2032 170	54	7 5	0.14	0.35	4	4
1515199	1515187	0.89	651 3-		4/0 ACSR	3551	3392	2984 177	3921	174 51	1.15	1.35	3511	0
1515189	1515199	1.19	536 3-		1/0 ACSR	3081	2896	2502 176	3228	144 63	0.69	2.04	1936	0
SW101708-B	1515189	1.19	535 3-		Closed	3081	2896	2502 176	3204	144 0	0.00	2.04	0	0
SW101708-A	SW101708-B	1.19	535 3-		Closed	3081	2896	2502 176	3204	144 0	0.00	2.04	0	0
1515190	SW101708-A	2.20	535 3-		1/0 ACSR	2077	1931	1592 171	3204	144 63	2.26	4.30	6228	0
1516083	1515190	2.56	506 3-		1/0 ACSR	1856	1730	1408 169	2874	131 57	0.74	5.04	1920	0
1516084	1516083	3.93	491 3-		1/0 ACSR	1310	1230	972 162	2674	123 53	2.56	7.60	6236	0
REG27	1516084	3.93	463 3-		219	1310	1230	972 162	2518	118 54	-7.60	0.00	0	0
1616098	REG27	4.03	463 3-		1/0 ACSR	1281	1204	950 162	2518	111 48	0.17	0.17	394	0
SW101711-B	1616098	4.03	463 3-		Closed	1281	1204	950 162	2515	111 0	0.00	0.17	0	0
SW101711-A	SW101711-B	4.03	463 3-		Closed	1281	1204	950 162	2515	111 0	0.00	0.17	0	0
1616099	SW101711-A	4.07	463 3-		1/0 ACSR	1271	1194	942 162	2515	111 48	0.06	0.24	145	0
1616101	1616099	4.44	270 3-		4/0 ACSR	1202	1128	883 161	1485	65 19	0.16	0.40	247	0
1516148	1616101	4.89	267 3-		4/0 ACSR	1128	1056	821 159	1474	66 19	0.28	0.68	300	0
SW101717-B	1516148	4.89	260 3-		Closed	1128	1056	821 159	1450	65 0	0.00	0.68	0	0
SW101717-A	SW101717-B	4.89	260 3-		Closed	1128	1056	821 159	1450	65 0	0.00	0.68	0	0
1516085	SW101717-A	4.98	260 3-		4/0 ACSR	1115	1043	810 159	1450	65 19	0.05	0.73	57	0
1516086	1516085	5.20	256 3-		4/0 ACSR	1082	1012	782 158	1434	64 19	0.13	0.86	143	0
1516113	1516086	5.45	5 1-		2 ACSR	0	0	741 157	24	3 2	0.02	0.88	0	0
OC101841	1516113	5.45	3 1-		REC_35_UNK	0	0	741 157	13	1 5	0.00	0.88	0	0
1616172	OC101841	6.23	3 1-		2 ACSR	0	0	638 152	13	1 1	0.02	0.90	0	0
1516087	1516086	5.49	246 3-		4/0 ACSR	1042	973	750 158	1376	61 18	0.17	1.03	169	0
1516094	1516087	5.83	116 3-		1/0 ACSR	985	922	708 156	809	36 16	0.20	1.23	133	0
OC101849	1516094	5.83	112 3-		REC_50_UNK	985	922	708 156	780	35 70	0.00	1.23	0	0
1516095	OC101849	6.84	112 3-		1/0 ACSR	846	794	607 152	780	35 15	0.56	1.79	347	0
1516121	1516095	7.26	17 1-		2 ACSR	0	0	566 149	115	15 9	0.15	1.94	12	0
OC101850	1516121	7.26	12 1-		REC_15_UNK	0	0	566 149	58	7 53	0.00	1.94	0	0
1516122	OC101850	7.33	12 1-		2 ACSR	0	0	560 149	58	7 4	0.02	1.96	0	0
1516115	1516122	7.57	11 1-		6 ACWC	0	0	534 147	55	7 5	0.08	2.03	4	4
1516116	1516115	7.74	9 1-		4 ACSR	0	0	516 145	48	6 5	0.05	2.08	2	2
1516117	1516116	8.31	6 1-		6 ACWC	0	0	466 141	41	5 4	0.09	2.17	2	2
1516123	1516117	8.41	1 1-		4 ACSR	0	0	458 140	9	1 1	0.00	2.17	0	0
1516096	1516095	7.22	76 3-		1/0 ACSR	802	754	576 150	561	25 11	0.16	1.95	76	0
1516097	1516096	7.93	52 3-		1/0 ACSR	733	690	526 147	314	14 6	0.13	2.08	30	0
1516107	1516097	7.94	23 1-		1/0 ACSR	0	0	525 147	127	17 8	0.00	2.09	0	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
OC101852	1516107	7.94	23 1-	REC_35_UNK	0	0	525	147	127	17	49	0.00	2.09	0
1516108	OC101852	9.30	23 1-	1/0 ACSR	0	0	449	142	127	17	8	0.42	2.51	39
1516110	1516108	9.31	14 1-	1/0 ACSR	0	0	449	142	72	9	4	0.00	2.51	0
OC101853	1516110	9.31	14 1-	REC_35_UNK	0	0	449	142	72	9	28	0.00	2.51	0
1516111	OC101853	10.16	14 1-	1/0 ACSR	0	0	412	138	72	9	4	0.11	2.62	5
1516112	1516111	10.71	5 1-	4 ACSR	0	0	381	134	20	2	2	0.03	2.65	0
1516109	1516108	9.34	2 1-	2 ACSR	0	0	447	141	14	1	1	0.00	2.51	0
1516106	1516097	7.94	9 1-	4 ACSR	0	0	525	147	48	6	5	0.00	2.08	0
1516076	1516096	7.22	22 1-	2 ACSR	0	0	575	150	236	32	18	0.01	1.96	0
OC101851	1516076	7.22	22 1-	REC_35_UNK	0	0	575	150	236	32	92	0.00	1.96	0
1516077	OC101851	7.50	22 1-	2 ACSR	0	0	550	148	236	32	18	0.22	2.18	38
1516078	1516077	8.29	13 1-	1/0 ACSR	0	0	499	145	139	18	8	0.16	2.33	12
1516088	1516087	5.72	125 3-	4/0 ACSR	1013	945	726	157	528	23	7	0.05	1.08	19
1516089	1516088	5.72	118 3-	336.4 ACSR	1012	945	725	157	495	22	4	0.00	1.08	0
OC101844	1516089	5.72	118 3-	70-L	1012	945	725	157	495	22	32	0.00	1.08	0
1516090	OC101844	6.25	118 3-	336.4 ACSR	964	898	685	156	495	22	4	0.07	1.15	24
1516091	1516090	6.73	108 3-	4/0 ACSR	912	849	645	154	468	21	6	0.09	1.24	31
1516073	1516091	6.75	20 1-	4 ACSR	0	0	642	154	68	9	7	0.01	1.25	0
OC101845	1516073	6.75	20 1-	REC_35_UNK	0	0	642	154	68	9	26	0.00	1.25	0
1616168	OC101845	8.46	20 1-	4 ACSR	0	0	459	140	68	9	7	0.61	1.86	33
1616084	1616168	9.34	10 1-	6 ACWC	0	0	399	134	50	6	5	0.15	2.01	5
1616085	1616084	9.51	3 1-	4 ACSR	0	0	389	133	7	0	1	0.00	2.01	0
1516092	1516091	7.77	76 3-	4/0 ACSR	818	760	571	151	363	16	5	0.13	1.38	33
1616103	1516092	8.03	2 3-	4/0 ACSR	797	740	555	151	4	0	0	0.00	1.38	0
1516093	1616103	8.04	0 3-	336.4 ACSR	797	740	555	151	0	0	0	0.00	1.38	0
SW120799-A	1516093	8.04	0 3-	Open	797	740	555	151	0	0	0	0.00	1.38	0
1516075	1616103	8.22	2 1-	4 ACSR	0	0	536	149	4	0	0	0.00	1.38	0
1616137	1516092	7.80	51 1-	1/0 ACSR	0	0	569	151	253	34	15	0.02	1.40	5
1616140	1616137	7.94	51 1-	2 ACSR	0	0	557	150	253	34	19	0.14	1.55	31
OC101846	1616140	7.94	51 1-	REC_35_UNK	0	0	557	150	253	34	98	0.00	1.55	0
1616141	OC101846	8.80	51 1-	2 ACSR	0	0	491	145	253	34	19	0.70	2.24	127
1616142	1616141	8.90	25 1-	4 ACSR	0	0	482	145	136	18	13	0.06	2.30	6
1616138	1616142	8.96	13 1-	2 ACSR	0	0	478	144	63	8	5	0.01	2.32	0
OC101860	1616138	8.96	13 1-	REC_25_UNK	0	0	478	144	63	8	34	0.00	2.32	0
1616139	OC101860	9.60	13 1-	2 ACSR	0	0	440	141	63	8	5	0.08	2.40	3
1516120	1516085	5.57	4 1-	4 ACSR	0	0	691	154	16	2	2	0.03	0.76	0
CA100053	1616101	4.44	0 3-	Capacitor	1202	1128	883	161	0	-14	0	0.00	0.40	0
1616100	1616099	4.12	193 3-	4/0 ACSR	1261	1185	934	162	1029	46	14	0.02	0.26	16
SW101714-B	1616100	4.12	193 3-	Closed	1261	1185	934	162	1029	46	0	0.00	0.26	0
SW101714-A	SW101714-B	4.12	193 3-	Closed	1261	1185	934	162	1029	46	0	0.00	0.26	0
1616104	SW101714-A	4.26	193 3-	4/0 ACSR	1235	1160	911	161	1029	46	14	0.06	0.32	45
1616105	1616104	4.30	193 3-	4 ACSR	1217	1144	898	161	1029	46	33	0.08	0.40	74
OC101859	1616105	4.30	193 3-	REC_50_UNK	1217	1144	898	161	1028	46	92	0.00	0.40	0
1616106	OC101859	4.60	193 3-	4 ACSR	1106	1049	821	158	1028	46	33	0.48	0.88	416
1616107	1616106	4.72	83 3-	4 ACSR	1063	1011	791	157	523	23	17	0.12	0.99	55
SW101723-B	1616107	4.72	83 3-	Closed	1063	1011	791	157	523	23	0	0.00	0.99	0
SW101723-A	SW101723-B	4.72	83 3-	Closed	1063	1011	791	157	523	23	0	0.00	0.99	0
1616108	SW101723-A	6.17	83 3-	4 ACSR	725	706	553	145	523	23	17	0.89	1.88	325
SW101726-B	1616108	6.17	45 3-	Closed	725	706	553	145	174	7	0	0.00	1.88	0
SW101726-A	SW101726-B	6.17	45 3-	Closed	725	706	553	145	174	7	0	0.00	1.88	0
1616109	SW101726-A	6.44	45 3-	4 ACSR	683	667	523	142	174	7	6	0.08	1.96	13
1616096	1616109	6.55	40 2-	4 ACSR	0	651	512	142	165	11	8	0.05	2.01	6

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
OC101856	1616096	6.55	32 2-	REC_35_UNK	0	651	512	142	117	7	23	0.00	2.01	0
1616097	OC101856	8.00	32 2-	4 ACSR	0	501	397	131	117	7	6	0.25	2.25	17
1615061	1616097	8.15	2 1-	4 ACSR	0	0	388	130	2	0	0	0.00	2.25	0
1616143	1616106	4.64	68 1-	4 ACSR	0	0	811	158	322	43	31	0.08	0.96	23
OC101854	1616143	4.64	68 1-	REC_35_UNK	0	0	811	158	322	43	124	0.00	0.96	0
1616144	OC101854	4.84	68 1-	4 ACSR	0	0	765	156	322	43	31	0.37	1.32	98
1616145	1616144	4.91	57 1-	2 ACSR	0	0	754	155	277	37	21	0.08	1.40	18
1616146	1616145	6.77	56 1-	4 ACSR	0	0	492	140	270	36	26	1.73	3.13	291
1616147	1616146	6.99	11 1-	6 ACWC	0	0	472	139	36	4	4	0.04	3.17	1
1616136	1616147	7.00	8 1-	4 ACSR	0	0	472	138	30	4	3	0.00	3.17	0
SW100849-B	1616104	4.26	0 3-	Open	1235	1160	911	161	0	0	0	0.00	0.32	0
1516119	1516083	2.81	14 1-	1/0 ACSR	0	0	1303	168	184	25	11	0.13	5.17	19
1516137	1516119	2.95	12 1-	1/0 URD PRI AL	0	0	1252	387	169	23	14	0.11	5.28	16
1516133	1516137	3.16	1 1-	1/0 URD PRI AL	0	0	1182	379	1	0	0	0.00	5.28	0
SW101884-A	1516133	3.16	0 1-	Open	0	0	1182	379	0	0	0	0.00	5.28	0
1516132	1516137	3.32	4 1-	1/0 URD PRI AL	0	0	1135	373	73	10	6	0.06	5.33	3
SW101884-B	1516132	3.32	0 1-	Open	0	0	1135	373	0	0	0	0.00	5.33	0
1516138	1516137	2.96	7 1-	1/0 URD PRI AL	0	0	1249	387	95	13	8	0.00	5.28	0
1516140	1516138	3.22	2 1-	1/0 URD PRI AL	0	0	1164	377	17	2	1	0.01	5.29	0
SW101882-B	1516140	3.22	0 1-	Open	0	0	1164	377	0	0	0	0.00	5.29	0
1516139	1516138	3.53	5 1-	1/0 URD PRI AL	0	0	1075	366	78	10	6	0.10	5.38	5
SW101883-B	1516139	3.53	0 1-	Open	0	0	1075	366	0	0	0	0.00	5.38	0
1516118	1515190	2.22	8 1-	1/0 ACSR	0	0	1584	171	93	12	6	0.00	4.31	0
1516134	1516118	2.25	8 1-	1/0 URD PRI AL	0	0	1564	410	93	12	8	0.02	4.32	1
1516136	1516134	2.93	7 1-	1/0 URD PRI AL	0	0	1267	382	75	10	6	0.11	4.43	5
SW101883-A	1516136	2.93	0 1-	Open	0	0	1267	382	0	0	0	0.00	4.43	0
1516135	1516134	2.36	1 1-	1/0 URD PRI AL	0	0	1511	405	17	2	1	0.00	4.33	0
SW101882-A	1516135	2.36	0 1-	Open	0	0	1511	405	0	0	0	0.00	4.33	0
1515200	1515199	1.06	93 3-	4/0 ACSR	3316	3145	2737	177	556	25	7	0.04	1.39	17
OC101839	1515200	1.06	92 3-	REC_70_UNK	3316	3145	2737	177	551	24	36	0.00	1.39	0
1515201	OC101839	1.49	92 3-	4/0 ACSR	2843	2662	2243	175	551	24	7	0.10	1.49	39
1515152	1515201	1.55	23 1-	2 ACSR	0	0	2166	175	120	16	9	0.03	1.52	3
OC101840	1515152	1.55	23 1-	REC_35_UNK	0	0	2166	175	120	16	46	0.00	1.52	0
1515153	OC101840	1.60	23 1-	2 ACSR	0	0	2107	174	120	16	9	0.02	1.53	1
1515144	1515153	2.44	7 1-	4 ACSR	0	0	1310	166	31	4	3	0.08	1.61	1
1515202	1515201	2.42	62 3-	4/0 ACSR	2156	1985	1601	172	395	17	5	0.11	1.60	27
1515277	1515202	3.34	16 1-	1/0 URD PRI AL	0	0	1227	383	112	15	9	0.21	1.81	14
SW101881-B	1515277	3.34	0 1-	Open	0	0	1227	383	0	0	0	0.00	1.81	0
1515188	1515202	2.85	10 3-	4/0 ACSR	1939	1776	1415	171	64	2	1	0.01	1.61	0
1515151	1515188	3.20	8 1-	4 ACSR	0	0	1222	167	51	6	5	0.05	1.66	2
SW101720-B	1515188	2.85	0 3-	Open	1939	1776	1415	171	0	0	0	0.00	1.61	0
CKT 124 total losses:	\$24,493													

SUB 4, CKT 134

DAVS_134	DAVIS	0.00	365 3-	SBS_99_UNK	5514	5684	5734	180	2704	119	0	0.00	0.00	0
1515169	DAVS_134	0.01	365 3-	4/0 ACSR	5485	5638	5686	180	2704	119	35	0.01	0.01	20
1515274	1515169	0.06	365 3-	4/0 URD PRI AL	5397	5523	5558	476	2704	119	53	0.06	0.07	140
1515170	1515274	0.53	365 3-	4/0 ACSR	4195	4110	3758	178	2703	119	35	0.43	0.50	1005
1515171	1515170	0.58	329 3-	4/0 ACSR	4107	4012	3645	178	2428	107	32	0.04	0.54	79
1515172	1515171	0.88	245 3-	4/0 ACSR	3593	3450	3024	177	1847	81	24	0.16	0.70	270
1515150	1515172	0.93	42 1-	4 ACSR	0	0	2896	176	373	50	36	0.11	0.80	34
1515141	1515150	0.97	39 1-	1/0 ACSR	0	0	2828	176	337	45	20	0.04	0.84	9

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 5	FAYETTE1		2067		5834	5949	6008	180	12699					
SUB 5	CKT 144													
	FAY1_144	FAYETTE1	0.00	693 3-	SBS_99_UNK	5834	5949	6008	180	4531	202	0	0.00	0.00
	1415596	FAY1_144	0.15	693 3-	1000UG	5680	5824	5863	477	4531	202	35	0.10	0.10
	1415460	1415596	0.49	693 3-	336.4 ACSR	4844	4808	4579	179	4528	202	38	0.43	0.54
	1415465	1415460	0.80	543 3-	336.4 ACSR	4279	4165	3828	178	3697	165	31	0.31	0.84
	1415472	1415465	0.87	407 3-	336.4 ACSR	4156	4029	3676	178	2724	122	23	0.06	0.90
	1415439	1415472	0.93	200 3-	4/0 ACSR	4049	3914	3542	178	1176	52	16	0.02	0.92
	SW101488-A	1415439	0.93	164 3-	Closed	4049	3914	3542	178	935	42	0	0.00	0.92
	SW101488-B	SW101488-A	0.93	164 3-	Closed	4049	3914	3542	178	935	42	0	0.00	0.92
	1415474	SW101488-B	0.98	164 3-	4/0 ACSR	3944	3802	3414	178	935	42	12	0.02	0.95
	1415532	1415474	1.12	58 1-	1/0 ACSR	0	0	3120	177	345	46	20	0.09	1.03
	1415533	1415532	1.12	18 1-	4 ACSR	0	0	3100	177	119	16	12	0.00	1.04
	1415534	1415533	1.28	14 1-	1/0 ACSR	0	0	2813	176	98	13	6	0.02	1.06
	SW101570-A	1415534	1.28	0 1-	Open	0	0	2813	176	0	0	0	0.00	1.06
	1415475	1415474	1.04	96 3-	4/0 ACSR	3852	3703	3302	178	538	24	7	0.01	0.96
	1415427	1415475	1.20	85 3-	1/0 ACSR	3544	3372	2965	177	465	20	9	0.05	1.00
	1415428	1415427	1.23	25 3-	1/0 ACSR	3493	3318	2912	177	156	7	3	0.00	1.01
	1415558	1415428	1.25	20 3-	1/0 URD PRI AL	3466	3294	2889	454	119	5	3	0.00	1.01
	1415545	1415558	1.33	20 1-	1/0 ACSR	0	0	2755	176	119	16	7	0.02	1.03
	1415651	1415545	1.34	4 1-	1/0 URD PRI AL	0	0	2746	451	25	3	2	0.00	1.03
	SW101569-B	1415651	1.34	0 1-	Open	0	0	2746	451	0	0	0	0.00	1.03
	1415546	1415545	1.35	4 1-	1/0 ACSR	0	0	2718	176	19	2	1	0.00	1.03
	SW101570-B	1415546	1.35	0 1-	Open	0	0	2718	176	0	0	0	0.00	1.03
	1415429	1415558	1.29	0 3-	1/0 ACSR	3399	3223	2820	177	0	0	0	0.00	1.01
	SW101434-A	1415429	1.29	0 3-	Open	3399	3223	2820	177	0	0	0	0.00	1.01
	1415650	1415427	1.34	20 1-	1/0 URD PRI AL	0	0	2757	449	105	14	8	0.03	1.03
	SW101569-A	1415650	1.34	0 1-	Open	0	0	2757	449	0	0	0	0.00	1.03
	1415473	1415472	1.11	207 3-	336.4 ACSR	3810	3654	3265	178	1548	69	13	0.10	1.00
	1415370	1415473	1.15	200 3-	336.4 ACSR	3759	3600	3207	178	1392	62	12	0.01	1.01
	1415371	1415370	1.28	161 3-	336.4 ACSR	3588	3418	3006	178	1061	47	9	0.04	1.05
	1415372	1415371	1.41	156 3-	4/0 ACSR	3415	3239	2814	177	1028	46	14	0.05	1.11
	1415652	1415372	1.41	21 1-	1/0 URD PRI AL	0	0	2808	457	142	19	11	0.00	1.11
	1415653	1415652	1.61	21 1-	1/0 URD PRI AL	0	0	2554	446	142	19	11	0.06	1.17
	1415373	1415372	1.46	126 3-	4/0 ACSR	3346	3168	2738	177	809	36	11	0.02	1.12
	1415552	1415373	1.64	35 1-	1/0 URD PRI AL	0	0	2517	446	167	22	13	0.06	1.19
	1415415	1415373	1.56	91 3-	4/0 ACSR	3224	3043	2608	177	642	28	9	0.03	1.15
	1415438	1415415	1.59	0 3-	1/0 ACSR	3176	2993	2560	177	0	0	0	0.00	1.15
	SW101434-B	1415438	1.59	0 3-	Open	3176	2993	2560	177	0	0	0	0.00	1.15
	1415416	1415415	1.94	83 3-	1/0 ACSR	2732	2538	2141	175	597	26	12	0.15	1.29
	1415437	1415416	1.96	54 3-	1/0 ACSR	2716	2522	2127	175	395	17	8	0.00	1.30
	OC101491	1415437	1.96	49 3-	REC_50_UNK	2716	2522	2127	175	365	16	33	0.00	1.30
	1415597	OC101491	1.97	49 3-	1/0 URD PRI AL	2705	2511	2118	438	365	16	10	0.00	1.30
	SW101442-A	1415597	1.97	49 3-	Closed	2705	2511	2118	438	365	16	0	0.00	1.30
	SW101442-B	SW101442-A	1.97	49 3-	Closed	2705	2511	2118	438	365	16	0	0.00	1.30
	1415598	SW101442-B	2.06	49 3-	1/0 URD PRI AL	2631	2445	2065	435	365	16	10	0.03	1.33
	1416021	1415598	2.11	48 3-	1/0 ACSR	2581	2394	2019	174	365	16	7	0.01	1.35
	1416031	1416021	2.32	46 3-	1/0 URD PRI AL	2416	2245	1899	425	352	15	9	0.07	1.41
	1416033	1416031	2.50	1 3-	1/0 URD PRI AL	2285	2127	1802	418	49	2	1	0.01	1.42
	1416034	1416033	2.54	1 1-	1/0 URD PRI AL	0	0	1775	416	49	6	4	0.01	1.43
	SW101440-A	1416034	2.54	1 1-	Closed	0	0	1775	416	49	6	0	0.00	1.43
	SW101440-B	SW101440-A	2.54	1 1-	Closed	0	0	1775	416	49	6	0	0.00	1.43

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Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1416035	SW101440-B	2.60	1 1-	1/0 URD PRI AL	0	0	1737	413	49	6	4	0.01	1.44	0
1416032	1416031	2.38	45 3-	1/0 URD PRI AL	2371	2204	1866	422	303	13	8	0.02	1.43	5
1416027	1416032	2.39	15 1-	1/0 URD PRI AL	0	0	1859	422	86	11	7	0.00	1.43	0
1416019	1416027	2.60	15 1-	4 ACSR	0	0	1638	170	86	11	8	0.10	1.54	7
1416028	1416019	2.76	14 1-	1/0 URD PRI AL	0	0	1550	401	74	10	6	0.05	1.58	3
1416020	1416028	2.79	12 1-	4 ACSR	0	0	1524	168	69	9	7	0.01	1.60	0
1416026	1416020	3.14	3 1-	1/0 URD PRI AL	0	0	1358	385	22	2	2	0.02	1.61	0
SW101575-A	1416026	3.14	0 1-	Open	0	0	1358	385	0	0	0	0.00	1.61	0
1416029	1416020	3.11	9 1-	1/0 URD PRI AL	0	0	1286	379	47	6	4	0.09	1.68	3
1416025	1416029	3.74	5 1-	1/0 URD PRI AL	0	0	1134	363	33	4	3	0.03	1.71	0
1416024	1416029	3.32	0 1-	1/0 URD PRI AL	0	0	1284	379	0	0	0	0.00	1.68	0
SW101575-B	1416024	3.32	0 1-	Open	0	0	1284	379	0	0	0	0.00	1.68	0
1416036	1416032	2.45	30 3-	1/0 URD PRI AL	2323	2161	1830	420	217	9	6	0.01	1.44	3
1416023	1416036	2.90	8 1-	4 ACSR	0	0	1419	167	61	8	6	0.08	1.53	3
1416022	1416036	3.18	22 3-	1/0 ACSR	1823	1691	1397	168	156	7	3	0.04	1.49	4
1416030	1416021	2.17	1 1-	1/0 URD PRI AL	0	0	1970	430	0	0	0	0.00	1.35	0
1415436	1415416	1.96	0 3-	1/0 ACSR	2720	2525	2130	175	0	0	0	0.00	1.29	0
SW101437-B	1415436	1.96	0 3-	Open	2720	2525	2130	175	0	0	0	0.00	1.29	0
1415543	1415370	1.20	34 1-	4 ACSR	0	0	3062	177	293	39	28	0.09	1.10	22
1415544	1415543	1.32	25 1-	1/0 ACSR	0	0	2848	177	262	35	15	0.05	1.15	7
1415635	1415544	1.33	2 1-	1/0 URD PRI AL	0	0	3232	453	15	1	1	0.00	1.15	0
1415542	1415473	1.11	1 1-	4 ACSR	0	0	2848	178	61	8	6	0.00	1.00	0
1415999	1415542	1.11	1 1-	Consumer	0	0	3248	178	61	8	0	0.00	1.00	0
1415466	1415465	0.99	131 3-	4/0 ACSR	3912	3769	3371	178	791	35	10	0.06	0.90	34
1415468	1415466	1.14	92 3-	4/0 ACSR	3669	3511	3086	177	591	26	8	0.03	0.93	13
1415471	1415468	1.20	31 3-	4/0 ACSR	3568	3404	2971	177	178	7	2	0.00	0.94	0
1415527	1415471	1.32	21 1-	4 ACSR	0	0	2691	176	114	15	11	0.04	0.98	3
1415469	1415468	1.33	39 3-	4/0 ACSR	3392	3221	2778	177	287	12	4	0.01	0.95	2
1415573	1415469	1.35	2 1-	1/0 URD PRI AL	0	0	2748	453	12	1	1	0.00	0.95	0
SW101573-B	1415573	1.35	0 1-	Open	0	0	2748	453	0	0	0	0.00	0.95	0
1415470	1415469	1.35	0 3-	1/0 ACSR	3359	3186	2744	177	0	0	0	0.00	0.95	0
SW101437-A	1415470	1.35	0 3-	Open	3359	3186	2744	177	0	0	0	0.00	0.95	0
1415467	1415466	1.00	27 3-	1/0 ACSR	3893	3748	3348	178	112	5	2	0.00	0.90	0
1415634	1415467	1.19	20 1-	1/0 URD PRI AL	0	0	3018	452	87	11	7	0.03	0.94	2
SW101574-B	1415634	1.19	0 1-	Open	0	0	3018	452	0	0	0	0.00	0.94	0
1415646	1415467	1.04	3 1-	1/0 URD PRI AL	0	0	3264	460	15	2	1	0.00	0.90	0
SW101571-A	1415646	1.04	0 1-	Open	0	0	3264	460	0	0	0	0.00	0.90	0
1415588	1415467	1.10	4 1-	1/0 URD PRI AL	0	0	3165	457	10	1	1	0.00	0.90	0
SW101572-A	1415588	1.10	0 1-	Open	0	0	3165	457	0	0	0	0.00	0.90	0
1415461	1415460	0.68	142 3-	4/0 ACSR	4395	4303	3959	178	776	34	10	0.06	0.60	35
1415645	1415461	0.79	4 1-	1/0 URD PRI AL	0	0	3696	461	26	3	2	0.01	0.60	0
SW101428-B	1415645	0.79	0 1-	Open	0	0	3696	461	0	0	0	0.00	0.60	0
1415587	1415461	0.70	3 1-	1/0 URD PRI AL	0	0	3928	467	17	2	1	0.00	0.60	0
SW101430-B	1415587	0.70	0 1-	Open	0	0	3928	467	0	0	0	0.00	0.60	0
1415462	1415461	0.84	121 3-	4/0 ACSR	4082	3958	3559	178	674	30	9	0.04	0.63	17
1415464	1415462	0.85	75 3-	1/0 ACSR	4061	3934	3534	178	430	19	8	0.00	0.64	0
1415629	1415464	1.02	5 1-	1/0 URD PRI AL	0	0	3192	454	22	2	2	0.01	0.64	0
SW101574-A	1415629	1.02	0 1-	Open	0	0	3192	454	0	0	0	0.00	0.64	0
1415567	1415464	1.08	41 1-	1/0 URD PRI AL	0	0	3085	451	277	37	22	0.25	0.89	59
1415586	1415567	1.30	14 1-	1/0 URD PRI AL	0	0	2717	440	114	15	9	0.05	0.94	4
SW101573-A	1415586	1.30	0 1-	Open	0	0	2717	440	0	0	0	0.00	0.94	0
1415572	1415567	1.25	22 1-	1/0 URD PRI AL	0	0	2794	442	123	16	10	0.04	0.93	3

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW101572-B	1415572	1.25	0 1-		Open	0	0	2794	442	0	0	0.00	0.93	0
1415644	1415464	1.15	29 1-	1/0 URD PRI	AL	0	0	2958	447	131	17	10	0.08	0.72
SW101571-B	1415644	1.15	0 1-		Open	0	0	2958	447	0	0	0.00	0.72	0
1415463	1415462	0.88	11 3-		4/0 ACSR	3994	3862	3451	178	59	2	1	0.00	0.63
1415628	1415463	0.93	2 1-	1/0 URD PRI	AL	0	0	3358	460	9	1	1	0.00	0.64
SW101426-B	1415628	0.93	0 1-		Open	0	0	3358	460	0	0	0.00	0.64	0
1415566	1415463	0.94	7 1-	1/0 URD PRI	AL	0	0	3340	459	43	5	3	0.01	0.64
SW101427-B	1415566	0.94	0 1-		Open	0	0	3340	459	0	0	0.00	0.64	0
1415643	1415463	1.02	2 1-	1/0 URD PRI	AL	0	0	3191	455	7	0	1	0.00	0.64
SW101425-B	1415643	1.02	0 1-		Open	0	0	3191	455	0	0	0.00	0.64	0
1415627	1415461	0.77	7 1-	1/0 URD PRI	AL	0	0	3760	463	35	4	3	0.01	0.60
SW101429-B	1415627	0.77	0 1-		Open	0	0	3760	463	0	0	0.00	0.60	0
CKT 144 total losses:		\$3,228												
SUB 5, CKT 164														
FAY1_164	FAYETTE1	0.00	851 3-		SBS_99_UNK	5834	5949	6008	180	4968	222	0	0.00	0.00
1415623	FAY1_164	0.10	851 3-		1000UG	5736	5853	5916	477	4968	222	39	0.07	0.07
1415391	1415623	0.29	851 3-		336.4 ACSR	5229	5236	5078	179	4966	222	42	0.27	0.34
1415392	1415391	0.97	851 3-		4/0 ACSR	3724	3565	3102	177	4958	222	65	1.43	1.78
SW101497-A	1415392	0.97	843 3-		Closed	3724	3565	3102	177	4861	220	0	0.00	1.78
SW101497-B	SW101497-A	0.97	843 3-		Closed	3724	3565	3102	177	4861	220	0	0.00	1.78
1415377	SW101497-B	0.98	843 3-		4/0 ACSR	3713	3553	3089	177	4861	220	65	0.01	1.79
1415396	1415377	1.09	712 3-		336.4 ACSR	3571	3402	2931	177	3933	178	34	0.13	1.92
1415399	1415396	1.27	614 3-		336.4 ACSR	3378	3199	2721	177	3256	147	28	0.16	2.08
1415451	1415399	1.29	286 3-		4/0 ACSR	3344	3164	2686	177	1188	53	16	0.01	2.09
1415452	1415451	1.31	262 3-		4/0 ACSR	3319	3138	2660	177	1120	50	15	0.01	2.10
SW101494-A	1415452	1.31	262 3-		Closed	3319	3138	2660	177	1120	50	0	0.00	2.10
SW101494-B	SW101494-A	1.31	262 3-		Closed	3319	3138	2660	177	1120	50	0	0.00	2.10
1415453	SW101494-B	1.35	262 3-		4/0 ACSR	3265	3083	2605	176	1120	50	15	0.02	2.12
1415454	1415453	1.41	238 3-		4/0 ACSR	3191	3007	2529	176	959	43	13	0.02	2.14
1415626	1415454	1.43	0 1-	1/0 URD PRI	AL	0	0	2515	449	0	0	0.00	2.14	0
SW101584-A	1415626	1.43	0 1-		Open	0	0	2515	449	0	0	0.00	2.14	0
1415455	1415454	1.56	219 3-		4/0 ACSR	3021	2835	2360	176	907	41	12	0.06	2.20
1415636	1415455	1.73	17 1-	1/0 URD PRI	AL	0	0	2201	438	99	13	8	0.03	2.23
SW101586-B	1415636	1.73	0 1-		Open	0	0	2201	438	0	0	0.00	2.23	0
1415456	1415455	1.59	163 3-		4/0 ACSR	2993	2807	2333	176	620	28	8	0.01	2.20
1415457	1415456	1.62	106 3-		4/0 ACSR	2961	2774	2301	176	487	22	7	0.01	2.21
1415458	1415457	1.65	55 3-		4/0 ACSR	2934	2747	2275	175	169	7	2	0.00	2.21
1415609	1415458	1.93	34 1-	1/0 URD PRI	AL	0	0	2027	430	77	10	6	0.05	2.26
SW101583-B	1415609	1.93	0 1-		Open	0	0	2027	430	0	0	0.00	2.26	0
1415459	1415458	1.66	21 3-		4/0 ACSR	2922	2735	2263	175	92	4	1	0.00	2.21
1415565	1415459	1.83	21 1-	1/0 URD PRI	AL	0	0	2115	436	92	12	7	0.03	2.25
SW101585-A	1415565	1.83	0 1-		Open	0	0	2115	436	0	0	0.00	2.25	0
1415365	1415457	1.77	50 1-		1/0 ACSR	0	0	2139	175	314	42	19	0.10	2.31
1415571	1415365	1.93	20 1-	1/0 URD PRI	AL	0	0	2014	432	144	19	12	0.05	2.36
SW101587-B	1415571	1.93	0 1-		Open	0	0	2014	432	0	0	0.00	2.36	0
1415625	1415456	1.97	57 1-	1/0 URD PRI	AL	0	0	1994	427	134	18	11	0.11	2.31
SW101582-B	1415625	1.97	0 1-		Open	0	0	1994	427	0	0	0.00	2.31	0
1415608	1415455	1.71	17 1-	1/0 URD PRI	AL	0	0	2222	439	105	14	8	0.03	2.23
SW101586-A	1415608	1.71	0 1-		Open	0	0	2222	439	0	0	0.00	2.23	0
1415570	1415454	1.66	18 1-	1/0 URD PRI	AL	0	0	2266	437	45	6	4	0.02	2.17
SW101581-B	1415570	1.66	0 1-		Open	0	0	2266	437	0	0	0.00	2.17	0

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 Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1415607	1415453	1.53	21 1-	1/0 URD PRI AL	0	0	2409	442	136	18	11	0.05	2.17	4
SW101584-B	1415607	1.53	0 1-	Open	0	0	2409	442	0	0	0	0.00	2.17	0
SW101279-B	1415451	1.29	0 3-	Open	3344	3164	2686	177	0	0	0	0.00	2.09	0
1415423	1415399	1.30	313 3-	4/0 ACSR	3335	3155	2676	177	1968	89	26	0.03	2.10	40
SW101523-A	1415423	1.30	313 3-	Closed	3335	3155	2676	177	1967	89	0	0.00	2.10	0
SW101523-B	SW101523-A	1.30	313 3-	Closed	3335	3155	2676	177	1967	89	0	0.00	2.10	0
1415424	SW101523-B	1.53	313 3-	4/0 ACSR	3053	2867	2391	176	1967	89	26	0.17	2.27	228
1415430	1415424	1.58	233 3-	1/0 ACSR	2993	2805	2336	176	1405	63	28	0.05	2.32	56
1415684	1415430	1.67	24 1-	1/0 URD PRI AL	0	0	2253	441	91	12	7	0.02	2.34	0
SW101580-B	1415684	1.67	0 1-	Open	0	0	2253	441	0	0	0	0.00	2.34	0
1415431	1415430	1.63	204 3-	1/0 ACSR	2934	2744	2282	175	1273	57	25	0.04	2.37	47
1415683	1415431	1.65	8 1-	1/0 URD PRI AL	0	0	2258	442	32	4	3	0.00	2.37	0
SW101580-A	1415683	1.65	0 1-	Open	0	0	2258	442	0	0	0	0.00	2.37	0
1415432	1415431	1.67	189 3-	1/0 ACSR	2879	2688	2232	175	1197	54	24	0.04	2.40	36
1415538	1415432	1.73	51 2-	1/0 ACSR	0	2613	2164	175	275	18	8	0.02	2.42	4
1415550	1415538	1.84	38 1-	1/0 ACSR	0	0	2053	174	200	27	12	0.03	2.45	4
1415433	1415432	1.71	111 3-	1/0 ACSR	2833	2641	2191	175	732	33	14	0.02	2.42	13
OC101529	1415433	1.71	111 3-	REC_70_UNK	2833	2641	2191	175	732	33	48	0.00	2.42	0
1415434	OC101529	1.87	111 3-	1/0 ACSR	2653	2458	2032	174	732	33	14	0.07	2.50	37
1415435	1415434	1.94	45 3-	1/0 ACSR	2582	2388	1972	174	292	13	6	0.01	2.51	3
1415368	1415435	1.95	40 1-	4 ACSR	0	0	1959	174	258	35	25	0.02	2.52	3
1415364	1415368	2.04	12 1-	4 ACSR	0	0	1852	173	95	13	9	0.03	2.55	2
1415369	1415368	2.04	24 1-	4 ACSR	0	0	1859	173	135	18	13	0.04	2.56	3
1415526	1415434	2.10	17 1-	1/0 ACSR	0	0	1843	173	113	15	7	0.04	2.53	2
1415400	1415399	1.28	0 3-	336.4 ACSR	3361	3182	2703	177	0	0	0	0.00	2.08	0
OC101500	1415400	1.28	0 3-	REC_600_UNK	3361	3182	2703	177	0	0	0	0.00	2.08	0
1415397	1415396	1.13	87 3-	1/0 ACSR	3515	3342	2873	177	599	27	12	0.01	1.93	7
OC101526	1415397	1.13	87 3-	REC_50_UNK	3515	3342	2873	177	599	27	14	0.00	1.93	0
1415398	OC101526	1.23	87 3-	1/0 ACSR	3342	3159	2700	176	599	27	12	0.04	1.98	19
1415525	1415398	1.42	30 1-	1/0 ACSR	0	0	2434	175	207	28	12	0.06	2.03	6
1415367	1415398	1.40	37 1-	1/0 ACSR	0	0	2448	175	246	33	15	0.06	2.04	8
1415378	1415377	1.16	131 3-	4/0 ACSR	3445	3272	2797	177	927	42	12	0.07	1.86	45
1415395	1415378	1.23	33 3-	4/0 ACSR	3344	3168	2691	176	254	11	3	0.01	1.87	1
1415522	1415395	1.44	27 1-	4 ACSR	0	0	2296	174	202	27	20	0.13	1.99	15
1415520	1415378	1.21	82 2-	1/0 ACSR	0	3172	2706	176	565	38	17	0.03	1.89	12
1415363	1415520	1.52	41 1-	1/0 ACSR	0	0	2295	175	304	41	18	0.13	2.02	22

CKT 164 total losses: \$7,936

SUB	LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
5, CKT 174	FAY1_174	FAYETTE1	0.00	523 3-	SBS_99_UNK	5834	5949	6008	180	3200	141	0	0.00	0.00	0
	1415551	FAY1_174	0.02	523 3-	1000UG	5819	5927	5994	478	3200	141	25	0.01	0.01	17
	1415379	1415551	0.62	523 3-	336.4 ACSR	4429	4298	3976	179	3200	141	27	0.45	0.45	1153
	1415409	1415379	0.65	83 3-	4/0 ACSR	4351	4215	3875	179	504	22	7	0.01	0.46	3
	1415665	1415409	0.89	31 1-	1/0 URD PRI AL	0	0	3375	456	196	26	16	0.09	0.56	11
	SW101594-B	1415665	0.89	0 1-	Open	0	0	3375	456	0	0	0	0.00	0.56	0
	1415410	1415409	0.66	26 3-	1/0 ACSR	4337	4199	3858	179	144	6	3	0.00	0.46	0
	SW101532-A	1415410	0.66	26 3-	Closed	4337	4199	3858	179	144	6	0	0.00	0.46	0
	SW101532-B	SW101532-A	0.66	26 3-	Closed	4337	4199	3858	179	144	6	0	0.00	0.46	0
	1415411	SW101532-B	0.82	26 3-	1/0 ACSR	3975	3808	3432	178	144	6	3	0.01	0.48	2
	1415412	1415411	0.86	11 3-	1/0 ACSR	3884	3710	3330	178	56	2	1	0.00	0.48	0
	1415640	1415412	0.86	0 1-	1/0 URD PRI AL	0	0	3324	460	0	0	0	0.00	0.48	0
	SW101397-B	1415640	0.86	0 1-	Open	0	0	3324	460	0	0	0	0.00	0.48	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1415535	1415412	0.89	5 1-	1/0 ACSR	0	0	3259	177	21	2	1	0.00	0.48	0
1415664	1415535	0.93	5 1-	1/0 URD PRI AL	0	0	3195	457	21	2	2	0.00	0.48	0
SW101593-B	1415664	0.93	0 1-	Open	0	0	3195	457	0	0	0	0.00	0.48	0
1415536	1415535	0.94	0 1-	1/0 ACSR	0	0	3157	177	0	0	0	0.00	0.48	0
1415663	1415536	0.94	0 1-	1/0 URD PRI AL	0	0	3147	457	0	0	0	0.00	0.48	0
SW101399-B	1415663	0.94	0 1-	Open	0	0	3147	457	0	0	0	0.00	0.48	0
1415553	1415412	0.88	3 1-	1/0 URD PRI AL	0	0	3291	459	22	2	2	0.00	0.48	0
SW101398-B	1415553	0.88	0 1-	Open	0	0	3291	459	0	0	0	0.00	0.48	0
1415632	1415411	0.87	8 1-	1/0 URD PRI AL	0	0	3327	459	46	6	4	0.01	0.48	0
SW101594-A	1415632	0.87	0 1-	Open	0	0	3327	459	0	0	0	0.00	0.48	0
1415639	1415409	0.91	26 1-	1/0 URD PRI AL	0	0	3325	454	164	22	13	0.09	0.55	8
SW101595-B	1415639	0.91	0 1-	Open	0	0	3325	454	0	0	0	0.00	0.55	0
1415380	1415379	0.88	428 3-	336.4 ACSR	4003	3838	3459	178	2624	116	22	0.15	0.60	326
1415408	1415380	0.90	60 3-	1/0 ACSR	3973	3806	3424	178	270	12	5	0.00	0.60	0
1415631	1415408	1.27	8 1-	1/0 URD PRI AL	0	0	2798	445	50	6	4	0.04	0.64	0
SW101591-A	1415631	1.27	0 1-	Open	0	0	2798	445	0	0	0	0.00	0.64	0
1415425	1415380	1.10	331 3-	336.4 ACSR	3710	3528	3124	178	2186	96	18	0.10	0.70	192
SW101566-A	1415425	1.10	322 3-	Closed	3710	3528	3124	178	2133	94	0	0.00	0.70	0
SW101566-B	SW101566-A	1.10	322 3-	Closed	3710	3528	3124	178	2133	94	0	0.00	0.70	0
1415426	SW101566-B	1.14	322 3-	336.4 ACSR	3659	3476	3069	178	2133	94	18	0.02	0.72	35
1415383	1415426	1.34	322 3-	336.4 ACSR	3420	3229	2812	177	2133	95	18	0.12	0.84	170
1415385	1415383	1.38	207 3-	336.4 ACSR	3383	3191	2771	177	1349	60	11	0.01	0.85	12
1415401	1415385	1.68	32 3-	1/0 ACSR	2960	2756	2355	176	259	11	5	0.03	0.88	4
SW101588-A	1415401	1.68	0 3-	Open	2960	2756	2355	176	0	0	0	0.00	0.88	0
1415386	1415385	1.40	175 3-	336.4 ACSR	3358	3165	2743	177	1090	49	9	0.01	0.86	6
1415381	1415386	1.60	175 3-	336.4 ACSR	3164	2968	2535	177	1090	49	9	0.06	0.91	41
1415450	1415381	1.78	44 3-	1/0 ACSR	2929	2727	2311	176	283	12	6	0.02	0.93	3
1415382	1415381	1.69	109 3-	336.4 ACSR	3079	2882	2447	177	669	30	6	0.02	0.93	8
1415417	1415382	2.01	99 3-	1/0 ACSR	2701	2499	2097	175	611	27	12	0.11	1.04	45
1415530	1415417	2.26	35 1-	1/0 ACSR	0	0	1878	174	267	36	16	0.10	1.14	14
SW101589-A	1415530	2.26	0 1-	Open	0	0	1878	174	0	0	0	0.00	1.14	0
1415418	1415417	2.07	2 3-	1/0 ACSR	2640	2438	2043	175	20	0	0	0.00	1.04	0
SW101588-B	1415418	2.07	0 3-	Open	2640	2438	2043	175	0	0	0	0.00	1.04	0
1415529	1415386	1.41	0 1-	1/0 ACSR	0	0	2734	177	0	0	0	0.00	0.86	0
SW101589-B	1415529	1.41	0 1-	Open	0	0	2734	177	0	0	0	0.00	0.86	0
1415521	1415383	1.35	25 2-	1/0 ACSR	0	3216	2799	177	178	11	5	0.00	0.84	0
1415630	1415521	1.50	7 1-	1/0 URD PRI AL	0	0	2617	450	56	7	4	0.02	0.86	0
SW101591-B	1415630	1.50	0 1-	Open	0	0	2617	450	0	0	0	0.00	0.86	0
1415528	1415383	1.36	25 1-	1/0 ACSR	0	0	2789	177	194	26	11	0.01	0.84	1
1415638	1415528	1.70	25 1-	1/0 URD PRI AL	0	0	2385	440	194	26	15	0.14	0.98	16
SW101590-B	1415638	1.70	0 1-	Open	0	0	2385	440	0	0	0	0.00	0.98	0
1415384	1415383	1.43	31 3-	1/0 ACSR	3286	3090	2675	177	199	8	4	0.01	0.85	2
1415637	1415384	1.71	27 1-	1/0 URD PRI AL	0	0	2360	440	181	24	14	0.11	0.95	11
SW101590-A	1415637	1.71	0 1-	Open	0	0	2360	440	0	0	0	0.00	0.95	0
CA100047	1415426	1.14	0 3-	Capacitor	3659	3476	3069	178	0	-14	0	0.00	0.72	0

CKT 174 total losses: \$2,080

SUB 5 total losses: \$13,244

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LIG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS	
SUB 6	FAYETTE2		2391		5940	6059	6120	180	9203						
SUB 6,	CKT 104														
	FAY2_104	FAYETTE2	0.00	490 3-	SBS_99_UNK	5940	6059	6120	180	2426	108	0	0.00	0.00	0
	1415606	FAY2_104	0.07	490 3-	750 UG 25KV	5866	5987	6049	477	2426	108	22	0.03	0.03	58
	1415447	1415606	0.20	490 3-	4/0 ACSR	5437	5481	5344	179	2426	108	32	0.13	0.16	228
	1415421	1415447	0.41	407 3-	4/0 ACSR	4813	4757	4426	179	2046	91	27	0.19	0.34	281
	1415445	1415421	0.42	3 3-	4 ACSR	4777	4712	4376	179	196	8	6	0.00	0.35	0
	OC1547456399	1415445	0.42	3 3-	_DefaultBayEqui	4777	4712	4376	179	196	8	0	0.00	0.35	0
	1415605	OC1547456399	0.47	1 3-	1/0 URD PRI AL	4674	4623	4272	466	162	7	4	0.01	0.35	0
	1415997	1415605	0.47	1 3-	Consumer	4674	4623	4272	466	162	7	0	0.00	0.35	0
	1415604	OC1547456399	0.45	2 3-	1/0 URD PRI AL	4710	4655	4309	467	34	1	1	0.00	0.35	0
	1415585	1415604	0.50	1 1-	1/0 URD PRI AL	0	0	4167	464	0	0	0	0.00	0.35	0
	1415422	1415421	0.49	404 3-	4/0 ACSR	4622	4541	4168	178	1848	82	24	0.06	0.40	81
	1415515	1415422	0.52	380 3-	4/0 ACSR	4544	4453	4066	178	1713	76	23	0.02	0.43	30
	1415541	1415515	0.53	58 2-	1/0 ACSR	0	4423	4034	178	188	12	5	0.00	0.43	0
	1415709	1415541	0.86	26 1-	1/0 URD PRI AL	0	0	3252	449	84	11	7	0.06	0.49	3
	SW101394-B	1415709	0.86	0 1-	Open	0	0	3252	449	0	0	0	0.00	0.49	0
	1415699	1415541	0.77	32 1-	1/0 URD PRI AL	0	0	3454	454	103	13	8	0.05	0.48	3
	SW101393-B	1415699	0.77	0 1-	Open	0	0	3454	454	0	0	0	0.00	0.48	0
	1415516	1415515	0.55	322 3-	4/0 ACSR	4465	4365	3964	178	1525	68	20	0.02	0.45	25
	1415519	1415516	0.57	316 3-	4/0 ACSR	4428	4324	3917	178	1505	67	20	0.01	0.46	12
	1415698	1415519	0.91	36 1-	1/0 URD PRI AL	0	0	3145	447	195	26	15	0.14	0.60	16
	SW101391-B	1415698	0.91	0 1-	Open	0	0	3145	447	0	0	0	0.00	0.60	0
	1415708	1415519	0.81	14 1-	1/0 URD PRI AL	0	0	3370	453	73	9	6	0.04	0.49	2
	SW101392-B	1415708	0.81	0 1-	Open	0	0	3370	453	0	0	0	0.00	0.49	0
	1415584	1415519	0.85	31 1-	1/0 URD PRI AL	0	0	3284	451	157	21	12	0.09	0.55	8
	SW101390-B	1415584	0.85	0 1-	Open	0	0	3284	451	0	0	0	0.00	0.55	0
	1415440	1415519	0.58	235 3-	4/0 ACSR	4416	4310	3901	178	1080	48	14	0.00	0.46	2
	SW101276-B	1415440	0.58	235 3-	Closed	4416	4310	3901	178	1080	48	0	0.00	0.46	0
	SW101276-A	SW101276-B	0.58	235 3-	Closed	4416	4310	3901	178	1080	48	0	0.00	0.46	0
	1415441	SW101276-A	0.72	235 3-	4/0 ACSR	4111	3976	3527	178	1080	48	14	0.06	0.52	47
	1415697	1415441	0.75	5 1-	1/0 URD PRI AL	0	0	3480	461	27	3	2	0.00	0.52	0
	SW101595-A	1415697	0.75	0 1-	Open	0	0	3480	461	0	0	0	0.00	0.52	0
	1415442	1415441	0.77	201 3-	4/0 ACSR	4013	3870	3411	178	884	39	12	0.02	0.54	12
	1415583	1415442	0.79	0 1-	1/0 URD PRI AL	0	0	3385	460	0	0	0	0.00	0.54	0
	SW101587-A	1415583	0.79	0 1-	Open	0	0	3385	460	0	0	0	0.00	0.54	0
	1415696	1415442	0.89	9 1-	1/0 URD PRI AL	0	0	3185	454	51	6	4	0.01	0.55	0
	SW101396-A	1415696	0.89	0 1-	Open	0	0	3185	454	0	0	0	0.00	0.55	0
	1415443	1415442	0.98	186 3-	4/0 ACSR	3655	3488	3007	177	804	36	11	0.06	0.60	30
	1415694	1415443	1.32	19 1-	1/0 URD PRI AL	0	0	2532	439	98	13	8	0.08	0.68	5
	1415695	1415694	1.36	3 1-	1/0 URD PRI AL	0	0	2477	437	13	1	1	0.00	0.68	0
	SW101397-A	1415695	1.36	0 1-	Open	0	0	2477	437	0	0	0	0.00	0.68	0
	SW101396-B	1415694	1.32	0 1-	Open	0	0	2532	439	0	0	0	0.00	0.68	0
	1415444	1415443	1.09	29 3-	4/0 ACSR	3493	3319	2833	177	106	4	1	0.00	0.60	0
	SW101279-A	1415444	1.09	0 3-	Open	3493	3319	2833	177	0	0	0	0.00	0.60	0
	1415705	1415443	1.11	44 1-	1/0 URD PRI AL	0	0	2823	450	162	21	13	0.08	0.68	10
	1415707	1415705	1.22	8 1-	1/0 URD PRI AL	0	0	2654	443	37	5	3	0.01	0.68	0
	SW101593-A	1415707	1.22	0 1-	Open	0	0	2654	443	0	0	0	0.00	0.68	0
	1415706	1415705	1.28	26 1-	1/0 URD PRI AL	0	0	2579	441	101	13	8	0.04	0.71	2
	SW101399-A	1415706	1.28	0 1-	Open	0	0	2579	441	0	0	0	0.00	0.71	0
	1415582	1415443	1.22	29 1-	1/0 URD PRI AL	0	0	2656	444	122	16	10	0.06	0.66	4
	SW101398-A	1415582	1.22	0 1-	Open	0	0	2656	444	0	0	0	0.00	0.66	0

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1415517	1415516	0.60	6 3-	4/0 ACSR	4359	4247	3830	178	20	0	0	0.00	0.45	0
1415518	1415517	0.79	0 3-	4/0 ACSR	3988	3843	3382	178	0	0	0	0.00	0.45	0
1415540	1415517	0.61	6 2-	1/0 ACSR	0	4225	3807	178	20	1	1	0.00	0.45	0
1415693	1415540	0.81	4 1-	1/0 URD PRI AL	0	0	3353	454	13	1	1	0.01	0.45	0
SW101393-A	1415693	0.81	0 1-	Open	0	0	3353	454	0	0	0	0.00	0.45	0
1415704	1415540	0.62	2 1-	1/0 URD PRI AL	0	0	3790	464	6	0	0	0.00	0.45	0
SW101394-A	1415704	0.62	0 1-	Open	0	0	3790	464	0	0	0	0.00	0.45	0
1415692	1415422	0.75	24 1-	1/0 URD PRI AL	0	0	3502	454	134	18	11	0.07	0.48	6
SW101387-B	1415692	0.75	0 1-	Open	0	0	3502	454	0	0	0	0.00	0.48	0
1415448	1415447	0.20	83 3-	1/0 ACSR	5421	5462	5319	179	377	16	7	0.00	0.16	0
1415691	1415448	0.23	2 1-	1/0 URD PRI AL	0	0	5208	473	10	1	1	0.00	0.16	0
SW101387-A	1415691	0.23	0 1-	Open	0	0	5208	473	0	0	0	0.00	0.16	0
1415449	1415448	0.37	81 3-	1/0 ACSR	4846	4792	4505	179	367	16	7	0.04	0.20	13
1415486	1415449	0.43	69 3-	1/0 ACSR	4666	4586	4271	178	311	13	6	0.01	0.22	3
1415487	1415486	0.46	11 3-	1/0 ACSR	4583	4491	4165	178	55	2	1	0.00	0.22	0
1415690	1415487	0.46	5 1-	1/0 URD PRI AL	0	0	4144	464	26	3	2	0.00	0.22	0
SW101391-A	1415690	0.46	0 1-	Open	0	0	4144	464	0	0	0	0.00	0.22	0
1415703	1415487	0.51	6 1-	1/0 URD PRI AL	0	0	4008	462	29	3	2	0.00	0.22	0
SW101392-A	1415703	0.51	0 1-	Open	0	0	4008	462	0	0	0	0.00	0.22	0
1415689	1415486	0.72	27 1-	1/0 URD PRI AL	0	0	3461	450	115	15	9	0.07	0.29	5
SW101389-B	1415689	0.72	0 1-	Open	0	0	3461	450	0	0	0	0.00	0.29	0
1415702	1415486	0.68	25 1-	1/0 URD PRI AL	0	0	3577	453	115	15	9	0.06	0.28	4
SW101388-B	1415702	0.68	0 1-	Open	0	0	3577	453	0	0	0	0.00	0.28	0
1415581	1415449	0.40	3 1-	1/0 URD PRI AL	0	0	4417	466	10	1	1	0.00	0.20	0
SW101390-A	1415581	0.40	0 1-	Open	0	0	4417	466	0	0	0	0.00	0.20	0
CKT 104 total losses:		\$890												
SUB 6, CKT 114														
FAY2_114	FAYETTE2	0.00	690 3-	SBS_99_UNK	5940	6059	6120	180	2375	106	0	0.00	0.00	0
1415568	FAY2_114	0.03	690 3-	750 UG 25KV	5911	6012	6092	478	2375	106	21	0.01	0.01	22
1415413	1415568	0.03	690 3-	1/0 ACSR	5889	5977	6056	180	2375	106	46	0.01	0.02	19
1415504	1415413	0.09	53 3-	336.4 ACSR	5709	5761	5763	180	148	6	1	0.00	0.02	0
1415673	1415504	0.57	26 1-	1/0 URD PRI AL	0	0	3897	451	80	10	6	0.08	0.10	4
SW101406-A	1415673	0.57	0 1-	Open	0	0	3897	451	0	0	0	0.00	0.10	0
1415505	1415504	0.13	23 3-	336.4 ACSR	5606	5638	5601	180	55	2	0	0.00	0.02	0
1415713	1415505	0.14	4 1-	1/0 URD PRI AL	0	0	5574	476	10	1	1	0.00	0.02	0
SW101405-A	1415713	0.14	0 1-	Open	0	0	5574	476	0	0	0	0.00	0.02	0
1415506	1415505	0.22	19 3-	336.4 ACSR	5356	5343	5218	179	45	2	0	0.00	0.02	0
1415599	1415506	0.25	3 1-	1/0 URD PRI AL	0	0	5128	473	13	1	1	0.00	0.03	0
SW101407-A	1415599	0.25	0 1-	Open	0	0	5128	473	0	0	0	0.00	0.03	0
1415672	1415506	0.23	4 1-	1/0 URD PRI AL	0	0	5196	475	8	1	1	0.00	0.02	0
SW101406-B	1415672	0.23	0 1-	Open	0	0	5196	475	0	0	0	0.00	0.02	0
1415414	1415413	0.12	637 3-	336.4 ACSR	5640	5679	5654	180	2227	99	19	0.05	0.07	82
1415671	1415414	0.17	3 1-	1/0 URD PRI AL	0	0	5441	473	9	1	1	0.00	0.08	0
SW101404-A	1415671	0.17	0 1-	Open	0	0	5441	473	0	0	0	0.00	0.08	0
1415489	1415414	0.26	634 3-	336.4 ACSR	5271	5243	5092	179	2217	99	19	0.09	0.16	129
1415490	1415489	0.37	601 3-	336.4 ACSR	5003	4934	4709	179	2096	93	18	0.07	0.23	96
1415670	1415490	0.42	2 1-	1/0 URD PRI AL	0	0	4548	470	7	0	1	0.00	0.23	0
SW101403-B	1415670	0.42	0 1-	Open	0	0	4548	470	0	0	0	0.00	0.23	0
1415491	1415490	0.39	589 3-	336.4 ACSR	4961	4887	4651	179	2060	92	17	0.01	0.24	15
1415492	1415491	0.41	586 3-	4/0 ACSR	4912	4833	4582	179	2054	91	27	0.02	0.25	24
1415500	1415492	0.47	137 3-	4/0 ACSR	4754	4658	4362	179	612	27	8	0.02	0.27	7

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1415602	1415500	0.49	136 3-	1/0 URD PRI AL	4717	4628	4326	470	608	27	16	0.01	0.28	6
SW101313-B	1415602	0.49	136 3-	Closed	4717	4628	4326	470	608	27	0	0.00	0.28	0
SW101313-A	SW101313-B	0.49	136 3-	Closed	4717	4628	4326	470	608	27	0	0.00	0.28	0
1415594	SW101313-A	0.54	136 3-	1/0 URD PRI AL	4621	4548	4231	467	608	27	16	0.03	0.31	14
1415712	1415594	0.54	4 1-	1/0 URD PRI AL	0	0	4217	467	48	6	4	0.00	0.31	0
1415531	1415712	0.81	4 1-	4 ACSR	0	0	3149	175	48	6	5	0.04	0.35	0
1415595	1415594	0.58	128 3-	1/0 URD PRI AL	4527	4467	4137	465	550	24	15	0.02	0.33	12
1415501	1415595	0.59	122 3-	4/0 ACSR	4514	4452	4118	178	523	23	7	0.00	0.33	0
SW101310-B	1415501	0.59	122 3-	Closed	4514	4452	4118	178	523	23	0	0.00	0.33	0
SW101310-A	SW101310-B	0.59	122 3-	Closed	4514	4452	4118	178	523	23	0	0.00	0.33	0
1415502	SW101310-A	0.69	122 3-	4/0 ACSR	4285	4191	3818	178	523	23	7	0.02	0.35	9
1415711	1415502	1.30	33 1-	1/0 URD PRI AL	0	0	2606	432	155	20	12	0.20	0.55	18
1415503	1415502	0.79	28 3-	4/0 ACSR	4090	3973	3572	178	116	5	2	0.00	0.36	0
1415710	1415503	1.07	21 1-	1/0 URD PRI AL	0	0	3004	446	87	11	7	0.05	0.41	3
SW101400-B	1415710	1.07	0 1-	Open	0	0	3004	446	0	0	0	0.00	0.41	0
1415537	1415503	0.92	4 1-	1/0 ACSR	0	0	3254	177	15	2	1	0.00	0.36	0
1415687	1415537	0.92	0 1-	1/0 URD PRI AL	0	0	3237	455	0	0	0	0.00	0.36	0
SW101400-A	1415687	0.92	0 1-	Open	0	0	3237	455	0	0	0	0.00	0.36	0
1415661	1415502	0.87	58 1-	1/0 URD PRI AL	0	0	3400	453	236	31	19	0.16	0.51	32
1415669	1415661	1.26	28 1-	1/0 URD PRI AL	0	0	2671	434	102	13	8	0.08	0.60	5
1415662	1415661	1.15	21 1-	1/0 URD PRI AL	0	0	2852	439	94	12	7	0.05	0.57	3
1415660	1415595	0.61	3 1-	1/0 URD PRI AL	0	0	4064	464	16	2	1	0.00	0.33	0
SW101402-A	1415660	0.61	0 1-	Open	0	0	4064	464	0	0	0	0.00	0.33	0
1415591	1415595	0.66	3 1-	1/0 URD PRI AL	0	0	3933	461	12	1	1	0.00	0.33	0
SW101401-A	1415591	0.66	0 1-	Open	0	0	3933	461	0	0	0	0.00	0.33	0
1415493	1415492	0.48	449 3-	4/0 ACSR	4729	4631	4329	179	1441	64	19	0.04	0.30	45
1415659	1415493	0.76	28 1-	1/0 URD PRI AL	0	0	3581	455	85	11	7	0.05	0.35	3
SW101404-B	1415659	0.76	0 1-	Open	0	0	3581	455	0	0	0	0.00	0.35	0
1415494	1415493	0.54	415 3-	4/0 ACSR	4577	4463	4124	179	1329	59	18	0.04	0.33	35
1415658	1415494	0.80	16 1-	1/0 URD PRI AL	0	0	3504	455	83	11	7	0.04	0.38	2
SW101402-B	1415658	0.80	0 1-	Open	0	0	3504	455	0	0	0	0.00	0.38	0
1415686	1415494	1.20	61 1-	1/0 URD PRI AL	0	0	2700	434	196	26	16	0.27	0.60	31
SW101405-B	1415686	1.20	0 1-	Open	0	0	2700	434	0	0	0	0.00	0.60	0
1415495	1415494	0.58	336 3-	4/0 ACSR	4494	4373	4016	179	1044	46	14	0.02	0.35	12
1415657	1415495	0.80	8 1-	1/0 URD PRI AL	0	0	3497	456	40	5	3	0.02	0.37	0
SW101411-A	1415657	0.80	0 1-	Open	0	0	3497	456	0	0	0	0.00	0.37	0
1415496	1415495	0.61	328 3-	4/0 ACSR	4419	4291	3920	178	1003	44	13	0.01	0.36	10
1415685	1415496	0.85	16 1-	1/0 URD PRI AL	0	0	3382	454	54	7	4	0.03	0.39	0
SW101412-A	1415685	0.85	0 1-	Open	0	0	3382	454	0	0	0	0.00	0.39	0
1415497	1415496	0.64	312 3-	4/0 ACSR	4351	4217	3834	178	949	42	13	0.01	0.37	9
1415590	1415497	0.93	26 1-	1/0 URD PRI AL	0	0	3218	451	102	13	8	0.06	0.43	4
SW101413-B	1415590	0.93	0 1-	Open	0	0	3218	451	0	0	0	0.00	0.43	0
1415498	1415497	0.75	286 3-	4/0 ACSR	4129	3978	3560	178	847	37	11	0.04	0.41	23
1415569	1415498	0.76	239 3-	1/0 URD PRI AL	4119	3970	3552	464	691	30	18	0.00	0.42	2
SW101307-B	1415569	0.76	239 3-	Closed	4119	3970	3552	464	691	30	0	0.00	0.42	0
SW101307-A	SW101307-B	0.76	239 3-	Closed	4119	3970	3552	464	691	30	0	0.00	0.42	0
1415559	SW101307-A	0.93	239 3-	1/0 URD PRI AL	3848	3724	3309	456	691	30	18	0.11	0.52	65
1415668	1415559	1.54	57 1-	1/0 URD PRI AL	0	0	2322	425	109	14	9	0.14	0.66	9
SW101408-A	1415668	1.54	0 1-	Open	0	0	2322	425	0	0	0	0.00	0.66	0
1415589	1415559	1.62	50 1-	1/0 URD PRI AL	0	0	2235	422	200	26	16	0.29	0.81	34
SW101401-B	1415589	1.62	0 1-	Open	0	0	2235	422	0	0	0	0.00	0.81	0
1415574	1415559	0.98	0 1-	1/0 URD PRI AL	0	0	3204	453	0	0	0	0.00	0.52	0

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Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW101413-A	1415574	0.98	0 1-	Open	0	0	3204	453	0	0	0	0.00	0.52	0
1415656	1415559	1.26	16 1-	1/0 URD PRI AL	0	0	2711	439	50	6	4	0.04	0.56	0
SW101414-A	1415656	1.26	0 1-	Open	0	0	2711	439	0	0	0	0.00	0.56	0
1415667	1415559	0.96	0 1-	1/0 URD PRI AL	0	0	3253	455	0	0	0	0.00	0.52	0
SW101412-B	1415667	0.96	0 1-	Open	0	0	3253	455	0	0	0	0.00	0.52	0
1415560	1415559	1.06	113 3-	1/0 URD PRI AL	3634	3526	3117	450	322	14	8	0.04	0.56	11
1415655	1415560	1.35	18 1-	1/0 URD PRI AL	0	0	2624	436	66	8	5	0.04	0.60	2
1415666	1415560	1.60	48 1-	1/0 URD PRI AL	0	0	2288	424	175	23	14	0.20	0.76	20
1415555	1415560	1.07	47 1-	1/0 URD PRI AL	0	0	3102	450	80	10	6	0.00	0.56	0
1415557	1415555	1.10	0 1-	1/0 URD PRI AL	0	0	3044	448	0	0	0	0.00	0.56	0
SW101409-A	1415557	1.10	0 1-	Open	0	0	3044	448	0	0	0	0.00	0.56	0
1415556	1415555	1.36	44 1-	1/0 URD PRI AL	0	0	2619	435	77	10	6	0.05	0.61	2
SW101409-B	1415556	1.36	0 1-	Open	0	0	2619	435	0	0	0	0.00	0.61	0
1415561	1415560	1.15	0 3-	1/0 URD PRI AL	3501	3400	2996	446	0	0	0	0.00	0.56	0
SW101316-A	1415561	1.15	0 3-	Open	3501	3400	2996	446	0	0	0	0.00	0.56	0
1415654	1415559	0.99	3 1-	1/0 URD PRI AL	0	0	3189	453	10	1	1	0.00	0.52	0
SW101411-B	1415654	0.99	0 1-	Open	0	0	3189	453	0	0	0	0.00	0.52	0
1415499	1415498	0.78	34 3-	4/0 ACSR	4079	3925	3501	178	102	4	1	0.00	0.41	0
1415554	1415499	1.10	32 1-	1/0 URD PRI AL	0	0	2906	446	98	13	8	0.07	0.48	4
SW101407-B	1415554	1.10	0 1-	Open	0	0	2906	446	0	0	0	0.00	0.48	0
1415641	1415489	0.27	9 1-	1/0 URD PRI AL	0	0	5066	474	30	3	2	0.00	0.16	0
1415523	1415641	0.29	9 1-	1/0 ACSR	0	0	4938	179	30	3	2	0.00	0.16	0
1415642	1415523	0.42	8 1-	1/0 URD PRI AL	0	0	4492	466	25	3	2	0.01	0.17	0
SW101403-A	1415642	0.42	0 1-	Open	0	0	4492	466	0	0	0	0.00	0.17	0
CKT 114 total losses:		\$823												
SUB 6, CKT 124														
FAY2_124	FAYETTE2	0.00	1048 3-	SBS_99_UNK	5940	6059	6120	180	3771	166	0	0.00	0.00	0
1415633	FAY2_124	0.03	1048 3-	750 UG 25KV	5914	6016	6095	478	3771	166	34	0.02	0.02	49
1415510	1415633	0.25	1048 3-	4/0 ACSR	5159	5133	4897	179	3770	166	49	0.32	0.34	986
1415539	1415510	0.29	8 2-	4/0 ACSR	0	5013	4749	179	31	2	1	0.00	0.34	0
1415701	1415539	0.31	3 1-	1/0 URD PRI AL	0	0	4680	471	11	1	1	0.00	0.34	0
SW101388-A	1415701	0.31	0 1-	Open	0	0	4680	471	0	0	0	0.00	0.34	0
1415688	1415539	0.30	5 1-	1/0 URD PRI AL	0	0	4724	471	20	2	2	0.00	0.34	0
SW101389-A	1415688	0.30	0 1-	Open	0	0	4724	471	0	0	0	0.00	0.34	0
1415511	1415510	0.32	1040 3-	4/0 ACSR	4976	4924	4633	179	3731	165	49	0.09	0.43	275
1415407	1415511	0.51	50 3-	4/0 ACSR	4495	4385	3988	178	234	10	3	0.02	0.45	2
1415446	1415407	0.54	28 3-	1/0 ACSR	4419	4301	3896	178	148	6	3	0.00	0.45	0
1415700	1415446	0.83	25 1-	1/0 URD PRI AL	0	0	3244	450	132	17	10	0.08	0.53	6
SW101421-B	1415700	0.83	0 1-	Open	0	0	3244	450	0	0	0	0.00	0.53	0
1415366	1415446	0.58	0 1-	1/0 ACSR	0	0	3766	178	0	0	0	0.00	0.45	0
SW101340-A	1415366	0.58	0 1-	Closed	0	0	3766	178	0	0	0	0.00	0.45	0
SW101340-B	SW101340-A	0.58	0 1-	Closed	0	0	3766	178	0	0	0	0.00	0.45	0
1415512	1415511	0.48	990 3-	4/0 ACSR	4550	4445	4058	178	3494	155	46	0.22	0.65	613
1415580	1415512	0.53	2 1-	1/0 URD PRI AL	0	0	3937	464	6	0	0	0.00	0.65	0
SW101585-B	1415580	0.53	0 1-	Open	0	0	3937	464	0	0	0	0.00	0.65	0
1415513	1415512	0.53	956 3-	4/0 ACSR	4453	4339	3935	178	3386	150	44	0.05	0.70	148
1415680	1415513	0.58	5 1-	1/0 URD PRI AL	0	0	3806	463	15	2	1	0.00	0.70	0
SW101422-A	1415680	0.58	0 1-	Open	0	0	3806	463	0	0	0	0.00	0.70	0
1415514	1415513	0.57	951 3-	4/0 ACSR	4364	4241	3823	178	3369	149	44	0.05	0.75	140
1415724	1415514	0.59	2 1-	1/0 URD PRI AL	0	0	3760	464	4	0	0	0.00	0.75	0
SW101423-A	1415724	0.59	0 1-	Open	0	0	3760	464	0	0	0	0.00	0.75	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS		
	1415476	1415514	0.63	949 3-		4/0 ACSR	4227	4091	3655	178	3364	149	44	0.08	0.83	226
	1415579	1415476	0.65	2 1-	1/0 URD	PRI AL	0	0	3606	462	7	0	1	0.00	0.83	0
	SW101424-A	1415579	0.65	0 1-		Open	0	0	3606	462	0	0	0	0.00	0.83	0
	1415477	1415476	0.71	947 3-		4/0 ACSR	4080	3933	3479	178	3355	151	44	0.11	0.94	262
	1415478	1415477	0.74	876 3-		4/0 ACSR	4020	3868	3409	178	3209	144	43	0.04	0.98	104
	1415406	1415478	0.75	162 3-		1/0 ACSR	3985	3830	3371	178	704	31	14	0.01	0.99	5
	1415723	1415406	0.90	86 1-	1/0 URD	PRI AL	0	0	3109	453	365	49	29	0.11	1.10	24
	SW101418-A	1415723	0.90	0 1-		Open	0	0	3109	453	0	0	0	0.00	1.10	0
	1415578	1415406	0.94	57 1-	1/0 URD	PRI AL	0	0	3041	451	264	35	21	0.10	1.09	16
	SW101420-A	1415578	0.94	0 1-		Open	0	0	3041	451	0	0	0	0.00	1.09	0
	1415479	1415478	0.83	714 3-		4/0 ACSR	3850	3687	3214	177	2504	112	33	0.10	1.08	189
	1415577	1415479	0.86	2 1-	1/0 URD	PRI AL	0	0	3175	458	4	0	0	0.00	1.08	0
	SW101581-A	1415577	0.86	0 1-		Open	0	0	3175	458	0	0	0	0.00	1.08	0
	1415722	1415479	0.86	4 1-	1/0 URD	PRI AL	0	0	3162	457	7	0	1	0.00	1.08	0
	SW101582-A	1415722	0.86	0 1-		Open	0	0	3162	457	0	0	0	0.00	1.08	0
	1415679	1415479	0.87	11 1-	1/0 URD	PRI AL	0	0	3144	457	48	6	4	0.00	1.08	0
	SW101583-A	1415679	0.87	0 1-		Open	0	0	3144	457	0	0	0	0.00	1.08	0
	1415480	1415479	0.92	697 3-		4/0 ACSR	3703	3532	3051	177	2444	110	32	0.09	1.17	168
	1415404	1415480	0.96	236 3-		1/0 ACSR	3622	3445	2968	177	980	44	19	0.03	1.20	26
	1415576	1415404	1.03	54 1-	1/0 URD	PRI AL	0	0	2864	452	224	30	18	0.03	1.24	4
	SW101420-B	1415576	1.03	0 1-		Open	0	0	2864	452	0	0	0	0.00	1.24	0
	1415405	1415404	1.09	182 3-		1/0 ACSR	3396	3207	2742	176	756	34	15	0.05	1.25	24
	1415721	1415405	1.15	67 1-	1/0 URD	PRI AL	0	0	2664	448	258	34	21	0.03	1.29	5
	SW101418-B	1415721	1.15	0 1-		Open	0	0	2664	448	0	0	0	0.00	1.29	0
	1415481	1415480	1.41	461 3-		4/0 ACSR	3052	2861	2379	176	1462	66	19	0.29	1.47	310
	1415420	1415481	1.55	236 3-		4/0 ACSR	2908	2717	2240	175	635	28	8	0.04	1.50	17
	1415678	1415420	1.66	69 1-	1/0 URD	PRI AL	0	0	2141	437	175	23	14	0.04	1.54	4
	SW101417-B	1415678	1.66	0 1-		Open	0	0	2141	437	0	0	0	0.00	1.54	0
	1415488	1415420	1.60	163 3-		4/0 ACSR	2860	2669	2195	175	452	20	6	0.01	1.51	3
	1415402	1415488	1.70	78 3-		4/0 ACSR	2768	2578	2109	175	182	8	2	0.01	1.52	0
	1415575	1415402	1.81	68 1-	1/0 URD	PRI AL	0	0	2017	433	160	21	13	0.04	1.56	4
	SW101415-B	1415575	1.81	0 1-		Open	0	0	2017	433	0	0	0	0.00	1.56	0
	1415403	1415402	1.70	0 3-		4/0 ACSR	2764	2573	2105	175	0	0	0	0.00	1.52	0
	SW101316-B	1415403	1.70	0 3-		Open	2764	2573	2105	175	0	0	0	0.00	1.52	0
	1415720	1415488	1.73	79 1-	1/0 URD	PRI AL	0	0	2085	435	253	34	20	0.07	1.58	10
	SW101416-B	1415720	1.73	0 1-		Open	0	0	2085	435	0	0	0	0.00	1.58	0
	1415482	1415481	1.44	191 3-		4/0 ACSR	3021	2830	2348	175	706	31	9	0.01	1.47	5
	SW101343-B	1415482	1.44	190 3-		Closed	3021	2830	2348	175	704	31	0	0.00	1.47	0
	SW101343-A	SW101343-B	1.44	190 3-		Closed	3021	2830	2348	175	704	31	0	0.00	1.47	0
	1415483	SW101343-A	1.50	190 3-		4/0 ACSR	2963	2772	2293	175	704	31	9	0.02	1.49	9
	1415624	1415483	1.51	1 3-	1/0 URD	PRI AL	2947	2757	2281	443	188	8	5	0.00	1.49	0
	1415998	1415624	1.51	1 3-		Consumer	2947	2757	2281	443	188	8	0	0.00	1.49	0
	1415484	1415483	1.52	189 3-		4/0 ACSR	2936	2744	2267	175	516	23	7	0.01	1.50	2
	1415485	1415484	1.57	75 3-		4/0 ACSR	2890	2699	2223	175	200	9	3	0.00	1.50	0
	1415419	1415485	1.59	7 3-		4/0 ACSR	2864	2673	2199	175	6	0	0	0.00	1.50	0
	1415677	1415419	1.61	5 1-	1/0 URD	PRI AL	0	0	2184	440	5	0	0	0.00	1.50	0
	SW101414-B	1415677	1.61	0 1-		Open	0	0	2184	440	0	0	0	0.00	1.50	0
	1415719	1415419	1.64	2 1-	1/0 URD	PRI AL	0	0	2159	439	1	0	0	0.00	1.50	0
	SW101408-B	1415719	1.64	0 1-		Open	0	0	2159	439	0	0	0	0.00	1.50	0
	1415593	1415485	1.69	67 1-	1/0 URD	PRI AL	0	0	2112	435	194	26	16	0.05	1.55	6
	SW101415-A	1415593	1.69	0 1-		Open	0	0	2112	435	0	0	0	0.00	1.55	0
	1415718	1415484	1.65	62 1-	1/0 URD	PRI AL	0	0	2152	436	171	23	14	0.05	1.54	5

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 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB	7 NEWBY					4977	5290	5323	180	12003				
SUB	7, CKT 104		1694											
	NWBY_104	NEWBY	0.00	248 3-	SBS_99_SBS	4977	5290	5323	180	2048	92 0	0.00	0.00	0
	1716148	NWBY_104	0.02	248 3-	350 MCM URD PRI	4959	5250	5301	475	2048	92 29	0.01	0.01	18
	1716124	1716148	0.27	248 3-	4/0 ACSR	4344	4329	4265	179	2048	92 27	0.23	0.24	338
	1716125	1716124	1.42	248 3-	336.4 ACSR	2972	2804	2449	176	2045	92 17	0.69	0.93	913
	1717115	1716125	4.21	231 3-	4/0 ACSR	1492	1358	1064	168	1944	88 26	2.37	3.30	3358
	OC120580	1717115	4.21	230 3-	100-L	1492	1358	1064	168	1907	87 88	0.00	3.30	0
	1717089	OC120580	5.14	230 3-	4/0 ACSR	1278	1163	895	165	1907	87 26	0.58	3.89	700
	1717086	1717089	5.38	52 3-	4/0 ACSR	1233	1122	860	164	394	18 5	0.04	3.92	11
	1717087	1717086	5.40	28 3-	4/0 ACSR	1228	1117	856	164	204	9 3	0.00	3.93	0
	1717061	1717087	5.58	5 2-	4 ACSR	0	1067	815	162	38	2 2	0.01	3.94	0
	1717058	1717087	5.99	22 1-	4 ACSR	0	0	733	158	153	21 15	0.28	4.21	26
	1717107	1717086	5.95	19 1-	4 ACSR	0	0	739	158	148	20 15	0.26	4.19	23
	1717084	1717089	5.36	81 3-	1/0 ACSR	1225	1117	857	164	567	26 11	0.10	3.98	46
	1717085	1717084	5.42	57 3-	1/0 ACSR	1209	1104	846	163	406	18 8	0.02	4.00	7
	1717057	1717085	5.66	28 1-	1/0 ACSR	0	0	809	162	198	27 12	0.07	4.07	7
	1717102	1717085	5.71	29 1-	1/0 ACSR	0	0	801	162	208	28 13	0.09	4.09	10
	1717106	1717084	5.61	23 1-	1/0 ACSR	0	0	817	162	153	21 9	0.06	4.04	5
	CKT 104 total losses:	\$5,462												
SUB	7, CKT 114													
	NWBY_114	NEWBY	0.00	137 3-	SBS_99_SBS	4977	5290	5323	180	669	30 0	0.00	0.00	0
	1716119	NWBY_114	1.66	137 3-	4/0 ACSR	2536	2371	2008	174	669	30 9	0.45	0.45	213
	1716135	1716119	1.67	5 1-	2 ACSR	0	0	2003	174	20	2 1	0.00	0.45	0
	OC120594	1716135	1.67	5 1-	REC_25_UNK	0	0	2003	174	20	2 11	0.00	0.45	0
	1716136	OC120594	1.85	5 1-	2 ACSR	0	0	1831	173	20	2 1	0.01	0.47	0
	1716137	1716136	2.25	3 1-	6 ACWC	0	0	1475	169	19	2 2	0.04	0.51	0
	1716138	1716137	2.28	2 1-	4 ACSR	0	0	1456	169	16	2 2	0.00	0.51	0
	1716139	1716138	2.43	2 1-	6 ACWC	0	0	1353	167	16	2 2	0.01	0.52	0
	1716120	1716119	2.29	117 3-	4/0 ACSR	2133	1971	1621	172	577	25 8	0.15	0.61	65
	OC120597	1716120	2.29	113 3-	50-L	2133	1971	1621	172	570	25 51	0.00	0.61	0
	1716121	OC120597	2.38	113 3-	4/0 ACSR	2082	1922	1575	172	570	25 8	0.02	0.63	9
	1716122	1716121	3.21	30 3-	4/0 ACSR	1722	1575	1259	170	153	6 2	0.03	0.66	3
	1716078	1716122	3.22	5 1-	1/0 ACSR	0	0	1257	170	23	3 1	0.00	0.66	0
	OC120599	1716078	3.22	5 1-	REC_99_UNK	0	0	1257	170	23	3 0	0.00	0.66	0
	1616169	OC120599	3.73	5 1-	1/0 ACSR	0	0	1098	167	23	3 1	0.02	0.68	0
	1616092	1616169	5.33	2 1-	4 ACSR	0	0	676	152	3	0 0	0.01	0.69	0
	1616171	1716122	4.35	3 3-	4/0 ACSR	1394	1269	989	166	19	0 0	0.01	0.67	0
	1616110	1616171	4.35	0 3-	4/0 ACSR	1393	1268	988	166	0	0 0	0.00	0.67	0
	SW120584-A	1616110	4.35	0 3-	Open	1393	1268	988	166	0	0 0	0.00	0.67	0
	1616160	1616171	4.38	2 1-	6 ACWC	0	0	978	166	8	1 1	0.00	0.67	0
	1716086	1716121	2.42	75 1-	1/0 ACSR	0	0	1554	172	372	50 22	0.04	0.67	12
	SW120581-B	1716086	2.42	74 1-	Closed	0	0	1554	172	372	50 0	0.00	0.67	0
	SW120581-A	SW120581-B	2.42	74 1-	Closed	0	0	1554	172	372	50 0	0.00	0.67	0
	1716087	SW120581-A	2.48	74 1-	1/0 ACSR	0	0	1524	172	372	50 22	0.06	0.73	18
	1716092	1716087	2.67	58 1-	1/0 ACSR	0	0	1429	171	309	41 18	0.17	0.90	40
	OC120600	1716092	2.67	53 1-	REC_25_UNK	0	0	1429	171	283	38 153	0.00	0.90	0
	1716093	OC120600	3.93	53 1-	1/0 ACSR	0	0	1013	165	283	38 17	0.89	1.79	180
	1716077	1716093	4.35	35 1-	1/0 ACSR	0	0	923	163	181	24 11	0.16	1.95	18
	1715046	1716077	4.45	16 1-	4 ACSR	0	0	893	162	72	9 7	0.04	1.99	3
	1715047	1715046	4.53	15 1-	1/0 ACSR	0	0	880	161	64	8 4	0.01	2.00	0

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1715062	1715047	4.93	13 1-	4 ACSR	0	0	782	158	59	8	6	0.13	2.14	7
1715063	1715062	5.03	11 1-	1/0 ACSR	0	0	768	157	50	6	3	0.01	2.15	0
1715064	1715063	5.41	5 1-	4 ACSR	0	0	694	154	16	2	2	0.02	2.17	0
1716094	1716093	4.36	2 1-	4 ACSR	0	0	881	160	20	2	2	0.03	1.82	0
1716088	1716087	2.58	16 1-	4 ACSR	0	0	1451	171	62	8	6	0.04	0.77	2
OC120598	1716088	2.58	11 1-	25-H	0	0	1451	171	55	7	30	0.00	0.77	0
1716089	OC120598	2.63	11 1-	4 ACSR	0	0	1418	170	55	7	5	0.02	0.79	0
1716090	1716089	3.05	10 1-	2 ACSR	0	0	1222	167	48	6	4	0.05	0.84	2
1716091	1716090	3.22	2 1-	4 ACSR	0	0	1142	165	14	1	1	0.01	0.85	0
CKT 114 total losses:		\$572												
SUB 7, CKT 124														
NWBY_124	NEWBY	0.00	155 3-	SBS_99_SBS	4977	5290	5323	180	1159	51	0	0.00	0.00	0
1716103	NWBY_124	1.54	155 3-	336.4 ACSR	2921	2745	2385	176	1159	51	10	0.49	0.49	371
SW120603-B	1716103	1.54	135 3-	Closed	2921	2745	2385	176	1041	46	0	0.00	0.49	0
SW120603-A	SW120603-B	1.54	135 3-	Closed	2921	2745	2385	176	1041	46	0	0.00	0.49	0
1716104	SW120603-A	2.21	135 3-	336.4 ACSR	2465	2287	1913	175	1041	46	9	0.20	0.69	138
1716105	1716104	2.30	126 3-	336.4 ACSR	2414	2236	1863	175	985	44	8	0.03	0.71	17
OC962591505	1716105	2.30	126 3-	_DefaultBayEqui	2414	2236	1863	175	985	44	0	0.00	0.71	0
1716095	OC962591505	3.06	126 3-	336.4 ACSR	2059	1891	1531	173	985	44	8	0.22	0.93	145
1717071	1716095	3.42	106 3-	336.4 ACSR	1925	1762	1412	172	887	40	8	0.09	1.02	54
OC120628	1717071	3.42	101 3-	REC_70_UNK	1925	1762	1412	172	860	38	55	0.00	1.02	0
1717072	OC120628	3.87	101 3-	336.4 ACSR	1780	1624	1287	171	860	38	7	0.10	1.12	57
1717066	1717072	3.88	45 1-	4 ACSR	0	0	1281	171	400	54	39	0.03	1.15	11
OC120629	1717066	3.88	45 1-	REC_99_UNK	0	0	1281	171	400	54	0	0.00	1.15	0
1717067	OC120629	4.04	45 1-	4 ACSR	0	0	1208	170	400	54	39	0.31	1.46	94
1717068	1717067	4.47	28 1-	1/0 ACSR	0	0	1082	167	249	33	15	0.16	1.62	21
1717073	1717072	4.28	34 3-	336.4 ACSR	1664	1514	1190	171	316	14	3	0.03	1.16	7
SW120606-B	1717073	4.28	27 3-	Closed	1664	1514	1190	171	237	10	0	0.00	1.16	0
SW120606-A	SW120606-B	4.28	27 3-	Closed	1664	1514	1190	171	237	10	0	0.00	1.16	0
1717074	SW120606-A	4.34	27 3-	336.4 ACSR	1650	1501	1178	170	237	10	2	0.00	1.16	0
1717079	1717074	4.35	0 3-	336.4 ACSR	1648	1499	1176	170	0	0	0	0.00	1.16	0
SW120639-A	1717079	4.35	0 3-	Open	1648	1499	1176	170	0	0	0	0.00	1.16	0
1717075	1717074	4.45	22 3-	336.4 ACSR	1623	1475	1155	170	202	9	2	0.01	1.16	0
1717078	1717075	4.64	6 3-	336.4 ACSR	1575	1430	1116	170	52	2	0	0.00	1.17	0
1717100	1717078	4.85	5 1-	1/0 ACSR	0	0	1063	169	41	5	2	0.02	1.18	0
1717101	1717100	4.87	2 1-	4 ACSR	0	0	1057	168	17	2	2	0.00	1.19	0
1717099	1717075	4.89	15 1-	1/0 ACSR	0	0	1038	168	141	19	8	0.09	1.26	7
SW120607-A	1717099	4.89	0 1-	Open	0	0	1038	168	0	0	0	0.00	1.26	0
1717069	1716095	4.05	18 3-	336.4 ACSR	1727	1574	1254	171	96	4	1	0.01	0.94	0
1717065	1717069	4.14	2 1-	4 ACSR	0	0	1214	170	2	0	0	0.00	0.94	0
1717070	1717069	4.14	0 3-	336.4 ACSR	1702	1552	1233	171	0	0	0	0.00	0.94	0
SW120796-A	1717070	4.14	0 3-	Open	1702	1552	1233	171	0	0	0	0.00	0.94	0
1716076	1716104	2.75	0 1-	2 ACSR	0	0	1517	171	0	0	0	0.00	0.69	0
CKT 124 total losses:		\$922												
SUB 7, CKT 134														
NWBY_134	NEWBY	0.00	372 3-	SBS_99_SBS	4977	5290	5323	180	3122	138	0	0.00	0.00	0
1716111	NWBY_134	1.76	372 3-	4/0 ACSR	2462	2297	1935	174	3122	138	41	2.08	2.08	5121
SW120633-B	1716111	1.76	351 3-	Closed	2462	2297	1935	174	2979	134	0	0.00	2.08	0
SW120633-A	SW120633-B	1.76	351 3-	Closed	2462	2297	1935	174	2979	134	0	0.00	2.08	0
1716112	SW120633-A	2.18	351 3-	4/0 ACSR	2196	2033	1680	173	2979	134	39	0.46	2.54	1142

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1717116	1716112	2.44	315 3-	4/0 ACSR	2050	1890	1546	172	2750	124 37	0.28	2.82	644	
1717105	1717116	2.46	29 1-	4 ACSR	0	0	1534	172	216	29 21	0.02	2.84	4	
1717110	1717105	3.03	28 1-	1/0 URD PRI AL	0	0	1302	393	214	29 17	0.26	3.10	33	
SW120785-B	1717110	3.03	0 1-	Open	0	0	1302	393	0	0 0	0.00	3.10	0	
1717088	1717116	3.19	285 3-	4/0 ACSR	1731	1583	1266	170	2520	113 33	0.68	3.50	1453	
1717093	1717088	3.49	230 3-	4/0 ACSR	1630	1486	1181	169	2083	94 28	0.20	3.70	371	
1717098	1717093	4.08	29 1-	1/0 ACSR	0	0	1021	166	217	30 13	0.19	3.89	22	
SW126067-B	1717098	4.08	0 1-	Open	0	0	1021	166	0	0 0	0.00	3.89	0	
1717094	1717093	3.56	168 3-	4/0 ACSR	1608	1465	1163	168	1620	73 22	0.04	3.74	58	
1717077	1717094	4.23	74 3-	1/0 ACSR	1376	1262	988	165	583	26 12	0.19	3.92	67	
1717104	1717077	4.62	17 1-	1/0 ACSR	0	0	907	163	121	16 7	0.07	3.99	5	
1717095	1717094	3.67	90 3-	4/0 ACSR	1573	1432	1134	168	1014	46 14	0.03	3.77	38	
1717060	1717095	4.11	27 1-	4 ACSR	0	0	973	164	199	27 20	0.27	4.04	32	
1717096	1717095	3.75	62 3-	4/0 ACSR	1549	1410	1115	168	815	37 11	0.01	3.78	18	
1717080	1717096	3.80	48 3-	4/0 ACSR	1534	1396	1102	168	723	33 10	0.01	3.79	10	
1717081	1717080	3.84	48 3-	4/0 ACSR	1525	1389	1095	168	723	33 10	0.01	3.80	6	
1717082	1717081	3.98	41 3-	4/0 ACSR	1484	1352	1062	167	658	30 9	0.04	3.84	21	
1717083	1717082	4.26	27 3-	4/0 ACSR	1413	1287	1005	166	539	24 7	0.05	3.89	17	
1717076	1717083	4.88	2 3-	336.4 ACSR	1305	1188	917	165	260	12 2	0.05	3.94	9	
1717108	1717076	4.89	1 3-	1/0 URD PRI AL	1303	1186	916	370	260	12 7	0.00	3.94	0	
1717999	1717108	4.89	1 3-	Consumer	1303	1186	916	370	260	12 0	0.00	3.94	0	
1717062	1717082	4.03	12 1-	1/0 ACSR	0	0	1050	167	114	15 7	0.01	3.86	1	
1717063	1717062	4.21	10 1-	4 ACSR	0	0	988	165	93	12 9	0.08	3.93	5	
1717064	1717063	4.27	6 1-	1/0 ACSR	0	0	975	165	46	6 3	0.01	3.94	0	
1717059	1717064	4.64	4 1-	4 ACSR	0	0	871	161	26	3 3	0.03	3.97	0	
1717056	1717081	4.21	7 1-	4 ACSR	0	0	963	164	65	8 6	0.08	3.87	3	
CA120026	1717080	3.80	0 3-	Capacitor	1534	1396	1102	168	0	-14 0	0.00	3.79	0	
1717097	1717096	4.07	14 1-	4 ACSR	0	0	999	165	92	12 9	0.09	3.87	5	
1717090	1717088	3.21	38 3-	1/0 ACSR	1723	1575	1260	170	325	14 7	0.00	3.50	1	
OC120667	1717090	3.21	38 3-	REC_70_UNK	1723	1575	1260	170	325	14 21	0.00	3.50	0	
1717091	OC120667	3.82	38 3-	1/0 ACSR	1481	1359	1074	167	325	14 7	0.10	3.60	20	
SW120636-B	1717091	3.82	10 3-	Closed	1481	1359	1074	167	87	3 0	0.00	3.60	0	
SW120636-A	SW120636-B	3.82	10 3-	Closed	1481	1359	1074	167	87	3 0	0.00	3.60	0	
1717092	SW120636-A	4.27	10 3-	1/0 ACSR	1338	1233	966	164	87	3 2	0.02	3.62	0	
SW120639-B	1717092	4.27	0 3-	Open	1338	1233	966	164	0	0 0	0.00	3.62	0	
1717118	1716112	2.24	28 1-	1/0 ACSR	0	0	1642	172	200	27 12	0.04	2.58	6	
1717109	1717118	2.69	26 1-	1/0 URD PRI AL	0	0	1430	402	197	27 16	0.19	2.77	22	
SW120785-A	1717109	2.69	0 1-	Open	0	0	1430	402	0	0 0	0.00	2.77	0	
CKT 134 total losses:	\$9,134													
SUB 7, CKT 144														
NWBY_144	NEWBY	0.00	550 3-	SBS_99_SBS	4977	5290	5323	180	3668	163 0	0.00	0.00	0	
1716099	NWBY_144	1.85	550 3-	336.4 ACSR	2690	2511	2140	176	3668	163 31	1.68	1.68	4441	
1716116	1716099	2.00	149 3-	1/0 ACSR	2546	2365	2005	175	1161	52 23	0.13	1.81	127	
SW120671-B	1716116	2.00	149 3-	Closed	2546	2365	2005	175	1160	52 0	0.00	1.81	0	
SW120671-A	SW120671-B	2.00	149 3-	Closed	2546	2365	2005	175	1160	52 0	0.00	1.81	0	
1716114	SW120671-A	2.37	149 3-	1/0 ACSR	2234	2062	1724	173	1160	52 23	0.31	2.12	286	
OC120743	1716114	2.37	127 3-	REC_70_UNK	2234	2062	1724	173	1002	45 65	0.00	2.12	0	
1716115	OC120743	2.48	127 3-	1/0 ACSR	2152	1989	1654	173	1002	45 20	0.09	2.21	72	
1716133	1716115	3.68	98 3-	1/0 ACSR	1533	1429	1143	167	791	36 16	0.41	2.62	193	
OC120744	1716133	3.68	14 1-	REC_25_UNK	0	0	1143	167	102	13 56	0.00	2.62	0	
1717103	OC120744	4.95	14 1-	1/0 ACSR	0	0	856	161	102	13 6	0.19	2.81	10	

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1716110	1716115	2.52	29 3-	1/0 ACSR	2124	1964	1629	172	211	9	4	0.01	2.21	0
1816068	1716110	3.00	16 1-	1/0 ACSR	0	0	1388	170	110	15	7	0.08	2.29	4
1716100	1716099	1.89	349 3-	336.4 ACSR	2667	2488	2116	176	2161	96	18	0.02	1.70	31
OC120747	1716100	1.89	349 3-	REC_70_UNK	2667	2488	2116	176	2161	96	138	0.00	1.70	0
1716101	OC120747	1.93	349 3-	336.4 ACSR	2636	2457	2084	176	2161	96	18	0.02	1.72	42
1716102	1716101	2.01	343 3-	4/0 ACSR	2575	2397	2024	175	2123	95	28	0.06	1.78	106
1716106	1716102	2.02	340 3-	1/0 ACSR	2566	2387	2015	175	2098	93	41	0.01	1.79	28
1716107	1716106	2.33	338 3-	4/0 ACSR	2343	2169	1801	174	2091	93	28	0.23	2.03	416
1716108	1716107	2.37	327 3-	1/0 ACSR	2312	2138	1773	174	2017	90	39	0.06	2.08	100
1716109	1716108	2.63	324 3-	4/0 ACSR	2157	1987	1630	173	2008	90	27	0.19	2.27	325
1816065	1716109	3.31	282 3-	4/0 ACSR	1835	1678	1346	171	1812	81	24	0.43	2.70	699
SW120684-B	1816065	3.31	281 3-	Closed	1835	1678	1346	171	1801	81	0	0.00	2.70	0
SW120684-A	SW120684-B	3.31	281 3-	Closed	1835	1678	1346	171	1801	81	0	0.00	2.70	0
1816038	SW120684-A	5.00	281 3-	4/0 ACSR	1336	1216	938	166	1801	81	24	1.04	3.74	1719
SW120674-B	1816038	5.00	278 3-	Closed	1336	1216	938	166	1771	80	0	0.00	3.74	0
SW120674-A	SW120674-B	5.00	278 3-	Closed	1336	1216	938	166	1771	80	0	0.00	3.74	0
1816039	SW120674-A	5.11	278 3-	4/0 ACSR	1313	1195	920	165	1771	80	24	0.06	3.80	107
1816043	1816039	5.33	158 3-	4/0 ACSR	1269	1155	886	165	788	36	11	0.08	3.88	45
OC120754	1816043	5.33	158 3-	70-L	1269	1155	886	165	788	36	52	0.00	3.88	0
1816044	OC120754	5.39	158 3-	4/0 ACSR	1257	1144	877	164	788	36	11	0.02	3.90	13
1816052	1816044	5.56	154 2-	1/0 ACSR	0	1108	849	164	741	51	22	0.16	4.07	99
OC120756	1816052	5.56	154 2-	REC_35_UNK	0	1108	849	164	740	51	147	0.00	4.07	0
1816053	OC120756	8.33	154 2-	1/0 ACSR	0	720	552	151	740	51	22	2.31	6.38	1244
1816034	1816053	8.38	17 1-	2 ACSR	0	0	547	151	110	15	9	0.02	6.40	2
OC120757	1816034	8.38	15 1-	REC_25_UNK	0	0	547	151	88	12	50	0.00	6.40	0
1816035	OC120757	9.04	15 1-	2 ACSR	0	0	497	147	88	12	7	0.13	6.53	7
1816031	1816035	9.15	1 1-	2 ACSR	0	0	490	146	4	0	0	0.00	6.54	0
1816036	1816035	9.05	0 1-	4 ACSR	0	0	497	147	0	0	0	0.00	6.53	0
SW120786-A	1816036	9.05	0 1-	Open	0	0	497	147	0	0	0	0.00	6.53	0
1816054	1816053	8.47	73 2-	1/0 ACSR	0	707	542	150	374	26	12	0.07	6.45	22
1816032	1816054	8.50	11 1-	4 ACSR	0	0	538	150	51	7	5	0.01	6.46	0
OC120758	1816032	8.50	11 1-	REC_25_UNK	0	0	538	150	51	7	29	0.00	6.46	0
1816033	OC120758	9.35	11 1-	4 ACSR	0	0	464	143	51	7	5	0.24	6.70	10
1815006	1816033	9.91	2 1-	4 ACSR	0	0	423	139	0	0	0	0.00	6.70	0
SW120786-B	1815006	9.91	0 1-	Open	0	0	423	139	0	0	0	0.00	6.70	0
1815005	1816033	10.21	7 1-	4 ACSR	0	0	405	137	37	5	4	0.10	6.80	2
1816055	1816054	8.53	60 2-	1/0 ACSR	0	702	538	150	318	22	10	0.03	6.48	7
SW120679-B	1816055	8.53	60 2-	Closed	0	702	538	150	318	22	0	0.00	6.48	0
SW120679-A	SW120679-B	8.53	60 2-	Closed	0	702	538	150	318	22	0	0.00	6.48	0
1815010	SW120679-A	11.07	60 2-	1/0 ACSR	0	531	408	140	318	22	10	0.56	7.03	99
1815008	1815010	11.12	1 1-	2 ACSR	0	0	406	140	1	0	0	0.00	7.03	0
1815007	1815010	11.13	0 2-	1/0 ACSR	0	528	405	140	0	0	0	0.00	7.03	0
SW120681-B	1815007	11.13	0 2-	Open	0	528	405	140	0	0	0	0.00	7.03	0
1816045	1816044	5.73	3 3-	4/0 ACSR	1195	1088	830	163	45	2	1	0.01	3.91	0
1816046	1816045	6.60	2 3-	4/0 ACSR	1061	965	728	161	35	1	0	0.01	3.92	0
1816047	1816046	7.19	0 3-	4/0 ACSR	986	898	673	159	0	0	0	0.00	3.92	0
SW120677-A	1816047	7.19	0 3-	Open	986	898	673	159	0	0	0	0.00	3.92	0
1816058	1816046	6.94	1 1-	4 ACSR	0	0	675	157	9	1	1	0.01	3.93	0
OC120668	1816045	5.73	0 3-	_DefaultBayEqui	1195	1088	830	163	0	0	0	0.00	3.91	0
1816040	1816039	5.17	119 3-	4/0 ACSR	1300	1183	910	165	966	44	13	0.03	3.83	20
OC120751	1816040	5.17	119 3-	REC_50_UNK	1300	1183	910	165	966	44	89	0.00	3.83	0
1816041	OC120751	5.32	119 3-	4/0 ACSR	1270	1156	887	165	966	44	13	0.06	3.89	46

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES CONS	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
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 SUB 7 total losses: \$28,591

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB SUB	8 WEST BEREA 8, CKT 104		2377		5439	5618	5677	180	13341					
	WBEB_104	WEST BEREA	0.00	635 3-	SBS_99_SBS	5439	5618	5677	180	4877	217 0	0.00	0.00	0
	2017343	WBEB_104	0.05	635 3-	1/0 URD PRI AL	5339	5472	5558	475	4877	217 128	0.20	0.20	859
	2017265	2017343	0.05	0 3-	336.4 ACSR	5324	5453	5532	179	0	0 0	0.00	0.20	0
	SW121136-A	2017265	0.05	0 3-	Open	5324	5453	5532	179	0	0 0	0.00	0.20	0
	2017232	2017343	0.39	635 3-	336.4 ACSR	4587	4551	4386	179	4869	217 41	0.45	0.65	1557
	2017233	2017232	0.65	632 3-	336.4 ACSR	4133	4030	3766	178	4773	213 40	0.33	0.98	1131
	2017237	2017233	0.76	626 3-	4/0 ACSR	3931	3810	3502	178	4606	206 61	0.20	2.19	722
	1917274	2017237	1.07	502 3-	4/0 ACSR	3442	3286	2908	177	4230	189 56	0.53	1.72	1748
	1917186	1917274	1.47	46 3-	336.4 ACSR	3053	2878	2473	176	280	12 2	0.02	1.73	2
	1917189	1917274	1.31	450 3-	4/0 ACSR	3135	2967	2567	176	3912	176 52	0.38	2.09	1172
	1917184	1917189	1.37	64 3-	1/0 ACSR	3051	2878	2482	176	324	14 6	0.02	2.11	4
	OC121023	1917184	1.37	64 3-	70-L	3051	2878	2482	176	324	14 21	0.00	2.11	0
	1917185	OC121023	1.95	64 3-	1/0 ACSR	2416	2231	1886	173	324	14 6	0.12	2.23	29
	1917235	1917185	2.58	16 1-	4 ACSR	0	0	1342	167	76	10 7	0.15	2.38	7
	1917226	1917185	1.96	22 1-	4 ACSR	0	0	1879	173	136	18 13	0.00	2.23	0
	1917212	1917189	1.60	386 3-	4/0 ACSR	2835	2661	2254	175	3578	161 47	0.40	2.49	1159
	SW120928-B	1917212	1.60	386 3-	Closed	2835	2661	2254	175	3568	161 0	0.00	2.49	0
	SW120928-A	SW120928-B	1.60	386 3-	Closed	2835	2661	2254	175	3568	161 0	0.00	2.49	0
	1917213	SW120928-A	1.94	386 3-	4/0 ACSR	2544	2369	1968	174	3568	161 47	0.47	2.97	1371
	1917206	1917213	2.09	245 3-	4/0 ACSR	2433	2259	1863	174	2914	131 39	0.16	3.13	408
	1917191	1917206	2.10	245 3-	1/0 ACSR	2428	2254	1858	174	2911	131 57	0.01	3.14	31
	OC121026	1917191	2.10	245 3-	70-L	2428	2254	1858	174	2910	131 188	0.00	3.14	0
	1917192	OC121026	3.05	245 3-	336.4 ACSR	1990	1827	1475	172	2910	131 25	0.66	3.80	1604
	1917144	1917192	3.27	13 1-	1/0 ACSR	0	0	1375	171	71	9 4	0.02	3.83	0
	SW121249-A	1917144	3.27	0 1-	Open	0	0	1375	171	0	0 0	0.00	3.83	0
	1917193	1917192	3.09	228 3-	336.4 ACSR	1977	1813	1463	172	2799	127 24	0.02	3.83	58
	1917181	1917193	3.30	78 3-	1/0 ACSR	1862	1701	1371	171	434	20 9	0.07	3.89	23
	1917143	1917181	3.51	10 1-	1/0 ACSR	0	0	1286	170	61	8 4	0.02	3.91	0
	SW121249-B	1917143	3.51	0 1-	Open	0	0	1286	170	0	0 0	0.00	3.91	0
	1917182	1917181	3.40	56 3-	1/0 ACSR	1809	1656	1329	170	301	13 6	0.02	3.92	6
	1917183	1917182	3.52	41 3-	1/0 ACSR	1749	1603	1282	170	244	11 5	0.02	3.94	3
	1917154	1917183	3.68	22 2-	1/0 ACSR	0	1538	1228	169	130	9 4	0.02	3.95	1
	1917142	1917154	3.75	4 1-	1/0 ACSR	0	0	1204	169	25	3 2	0.00	3.96	0
	SW121250-B	1917142	3.75	0 1-	Open	0	0	1204	169	0	0 0	0.00	3.96	0
	1917138	1917182	3.40	10 1-	1/0 ACSR	0	0	1327	170	26	3 2	0.00	3.92	0
	SW121020-B	1917138	3.40	10 1-	Closed	0	0	1327	170	26	3 0	0.00	3.92	0
	SW121020-A	SW121020-B	3.40	10 1-	Closed	0	0	1327	170	26	3 0	0.00	3.92	0
	1917140	SW121020-A	3.67	10 1-	1/0 ACSR	0	0	1230	169	26	3 2	0.02	3.94	0
	1917141	1917140	4.26	9 1-	4 ACSR	0	0	990	163	26	3 3	0.05	3.99	0
	1917239	1917141	4.26	2 1-	1/0 URD PRI AL	0	0	988	365	2	0 0	0.00	3.99	0
	1917194	1917193	3.27	150 3-	336.4 ACSR	1912	1751	1408	172	2365	107 20	0.09	3.92	203
	1917137	1917194	3.34	0 1-	1/0 ACSR	0	0	1379	171	0	0 0	0.00	3.92	0
	SW121250-A	1917137	3.34	0 1-	Open	0	0	1379	171	0	0 0	0.00	3.92	0
	1917195	1917194	3.87	147 3-	336.4 ACSR	1725	1573	1254	170	2349	106 20	0.29	4.22	623
	1917136	1917195	4.30	23 1-	1/0 ACSR	0	0	1117	168	197	27 12	0.13	4.35	14
	1917196	1917195	3.94	98 3-	336.4 ACSR	1704	1553	1237	170	1995	91 17	0.03	4.25	60
	OC121029	1917196	3.94	91 3-	REC_50_UNK	1704	1553	1237	170	1959	89 179	0.00	4.25	0
	1917197	OC121029	4.36	91 3-	336.4 ACSR	1595	1455	1149	169	1959	89 17	0.17	4.41	327
	REG498	1917197	4.36	88 3-	219	1595	1455	1149	169	1943	88 41	-4.41	0.00	0
	1917200	REG498	4.47	1 3-	1/0 ACSR	1554	1419	1118	169	164	7 3	0.01	0.01	2

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW120931-B	1917200	4.47	1 3-	Closed	1554	1419	1118	169	164	7	0	0.00	0.01	0
SW120931-A	SW120931-B	4.47	1 3-	Closed	1554	1419	1118	169	164	7	0	0.00	0.01	0
1917207	SW120931-A	4.86	1 3-	1/0 ACSR	1423	1304	1019	167	164	7	3	0.05	0.06	7
1917251	1917207	4.91	1 3-	1/0 URD PRI AL	1411	1294	1013	381	164	7	4	0.01	0.07	0
1917994	1917251	4.91	1 3-	Consumer	1411	1294	1013	381	164	7	0	0.00	0.07	0
1917198	REG498	4.61	87 3-	336.4 ACSR	1538	1403	1104	169	1779	78	15	0.08	0.08	145
1917199	1917198	6.65	63 3-	1/0 ACSR	1030	954	731	159	1695	74	33	2.08	2.16	3505
SW120934-B	1917199	6.65	45 3-	Closed	1030	954	731	159	1632	73	0	0.00	2.16	0
SW120934-A	SW120934-B	6.65	45 3-	Closed	1030	954	731	159	1632	73	0	0.00	2.16	0
1817007	SW120934-A	8.95	45 3-	1/0 ACSR	743	695	527	149	1632	73	32	2.62	4.78	3624
1818004	1817007	8.99	1 3-	1/0 URD PRI AL	740	692	525	289	392	18	11	0.01	4.79	5
1818999	1818004	8.99	1 3-	Consumer	740	692	525	289	392	18	0	0.00	4.79	0
1818003	1817007	9.35	7 3-	1/0 ACSR	708	663	502	147	1090	52	23	0.38	5.15	326
SL2	1818003	9.35	0 3-	Consumer	708	663	502	147	1007	48	0	0.00	5.15	0
NEWCAP-A9B58F24	1817007	8.95	0 3-	Capacitor	743	695	527	149	0	-14	0	0.00	4.78	0
NEWCAP-F02544E1	1917199	6.65	0 3-	Capacitor	1030	954	731	159	0	-14	0	0.00	2.16	0
1917232	1917198	4.79	22 1-	4 ACSR	0	0	1038	167	78	10	8	0.09	0.17	6
OC121030	1917232	4.79	22 1-	REC_25_UNK	0	0	1038	167	78	10	42	0.00	0.17	0
1917233	OC121030	5.35	22 1-	4 ACSR	0	0	869	161	78	10	8	0.24	0.41	15
SW120935-B	1917233	5.35	19 1-	Closed	0	0	869	161	64	8	0	0.00	0.41	0
SW120935-A	SW120935-B	5.35	19 1-	Closed	0	0	869	161	64	8	0	0.00	0.41	0
1917234	SW120935-A	6.42	19 1-	4 ACSR	0	0	652	152	64	8	6	0.21	0.62	8
1917214	1917213	2.36	140 3-	4/0 ACSR	2256	2085	1700	173	626	28	8	0.12	3.09	55
SW120938-B	1917214	2.36	139 3-	Closed	2256	2085	1700	173	626	28	0	0.00	3.09	0
SW120938-A	SW120938-B	2.36	139 3-	Closed	2256	2085	1700	173	626	28	0	0.00	3.09	0
1917215	SW120938-A	2.48	139 3-	4/0 ACSR	2183	2014	1634	173	626	28	8	0.04	3.12	16
SW120941-B	1917215	2.48	139 3-	Closed	2183	2014	1634	173	626	28	0	0.00	3.12	0
SW120941-A	SW120941-B	2.48	139 3-	Closed	2183	2014	1634	173	626	28	0	0.00	3.12	0
1917216	SW120941-A	2.54	139 3-	4/0 ACSR	2150	1982	1605	172	626	28	8	0.02	3.14	8
1917221	1917216	2.60	15 3-	4/0 ACSR	2117	1949	1576	172	91	4	1	0.00	3.14	0
1917222	1917221	2.66	15 3-	4/0 ACSR	2086	1919	1548	172	91	4	1	0.00	3.14	0
1917204	1917222	2.73	0 3-	4/0 ACSR	2050	1885	1517	172	0	0	0	0.00	3.14	0
1917205	1917204	2.79	0 3-	1/0 ACSR	2012	1847	1486	172	0	0	0	0.00	3.14	0
SW120282-B	1917205	0.79	0 3-	Open	2012	1847	1486	172	0	0	0	0.00	3.14	0
1917223	1917222	2.73	15 3-	1/0 ACSR	2044	1878	1514	172	91	4	2	0.00	3.15	0
SW120944-B	1917223	2.73	13 3-	Closed	2044	1878	1514	172	57	2	0	0.00	3.15	0
SW120944-A	SW120944-B	2.73	13 3-	Closed	2044	1878	1514	172	57	2	0	0.00	3.15	0
1917201	SW120944-A	3.36	13 3-	1/0 ACSR	1706	1566	1247	169	57	2	1	0.01	3.16	0
1917135	1917201	3.36	0 1-	4 ACSR	0	0	1244	169	0	0	0	0.00	3.16	0
SW120310-B	1917135	3.36	0 1-	Open	0	0	1244	169	0	0	0	0.00	3.16	0
1917202	1917201	3.49	0 3-	1/0 ACSR	1646	1513	1201	168	0	0	0	0.00	3.16	0
1917276	1917202	3.54	0 3-	336.4 ACSR	1634	1502	1191	168	0	0	0	0.00	3.16	0
SW120335-B	1917276	3.54	0 3-	Open	1634	1502	1191	168	0	0	0	0.00	3.16	0
1917275	1917202	3.65	0 3-	336.4 ACSR	1606	1476	1167	168	0	0	0	0.00	3.16	0
SW120238-B	1917275	3.65	0 3-	Open	1606	1476	1167	168	0	0	0	0.00	3.16	0
SW120344-B	1917221	2.60	0 3-	Open	2117	1949	1576	172	0	0	0	0.00	3.14	0
1917217	1917216	2.62	124 3-	1/0 ACSR	2098	1930	1562	172	535	24	11	0.03	3.17	15
OC121033	1917217	2.62	124 3-	70-L	2098	1930	1562	172	535	24	35	0.00	3.17	0
1917218	OC121033	2.91	124 3-	1/0 ACSR	1921	1756	1419	171	535	24	11	0.12	3.29	54
1917133	1917218	3.07	27 1-	4 ACSR	0	0	1320	169	105	14	10	0.10	3.39	8
OC121034	1917133	3.07	21 1-	REC_25_UNK	0	0	1320	169	85	11	47	0.00	3.39	0
1917134	OC121034	3.80	21 1-	4 ACSR	0	0	989	162	85	11	8	0.19	3.58	10

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1917219	1917218	3.20	95 3-	1/0 ACSR	1767	1622	1298	169	422	19 8	0.10	3.39	34	
1917220	1917219	3.59	77 3-	1/0 ACSR	1592	1467	1163	167	352	16 7	0.11	3.50	31	
1917130	1917220	3.68	63 1-	1/0 ACSR	0	0	1137	167	300	41 18	0.08	3.58	19	
OC121035	1917130	3.68	63 1-	REC_35_UNK	0	0	1137	167	300	41 119	0.00	3.58	0	
1917131	OC121035	3.75	63 1-	1/0 ACSR	0	0	1115	167	300	41 18	0.07	3.65	16	
1917132	1917131	5.36	63 1-	4 ACSR	0	0	677	151	300	41 30	1.52	5.17	270	
1917229	1917220	3.64	8 1-	1/0 ACSR	0	0	1147	167	31	4 2	0.00	3.50	0	
OC121036	1917229	3.64	8 1-	REC_25_UNK	0	0	1147	167	31	4 17	0.00	3.50	0	
1917230	OC121036	4.06	8 1-	1/0 ACSR	0	0	1033	165	31	4 2	0.03	3.54	0	
1917231	1917230	4.97	4 1-	4 ACSR	0	0	776	156	20	2 2	0.06	3.59	0	
1917225	1917219	4.18	15 1-	4 ACSR	0	0	900	160	65	8 6	0.20	3.59	8	
2017238	2017237	0.97	123 3-	336.4 ACSR	3646	3497	3143	178	363	16 3	0.02	1.21	6	
2017348	2017238	0.99	1 1-	1/0 URD PRI AL	0	0	3115	459	0	0 0	0.00	1.21	0	
SW121248-A	2017348	0.99	0 1-	Open	0	0	3115	459	0	0 0	0.00	1.21	0	
2017253	2017238	1.04	122 3-	336.4 ACSR	3564	3409	3043	177	363	16 3	0.01	1.22	2	
2017254	2017253	1.10	57 3-	336.4 ACSR	3499	3340	2966	177	180	8 2	0.00	1.22	0	
1917272	2017254	1.39	57 1-	1/0 URD PRI AL	0	0	2561	443	180	24 14	0.11	1.33	12	
1917273	2017253	1.39	64 1-	1/0 URD PRI AL	0	0	2546	441	182	24 15	0.14	1.35	15	
SW121248-B	1917273	1.39	0 1-	Open	0	0	2546	441	0	0 0	0.00	1.35	0	
2017996	2017232	0.39	1 1-	Consumer	0	0	4386	179	68	9 0	0.00	0.65	0	
CKT 104 total losses:	\$21,344													

SUB 8, CKT 114														
WB ER_114	WEST B ERE A	0.00	53 3-	SBS_99_SBS	5439	5618	5677	180	476	21 0	0.00	0.00	0	
2017247	WB ER_114	0.17	53 3-	336.4 ACSR	5017	5013	4962	179	476	21 4	0.02	0.02	8	
2017249	2017247	0.56	13 3-	336.4 ACSR	4267	4157	3899	179	267	12 2	0.03	0.05	4	
2017250	2017249	0.75	9 3-	336.4 ACSR	3978	3840	3532	178	185	8 2	0.01	0.06	0	
2017252	2017250	0.91	5 3-	336.4 ACSR	3754	3598	3261	178	142	6 1	0.01	0.07	0	
2017229	2017252	1.02	4 3-	336.4 ACSR	3616	3452	3093	178	141	6 1	0.00	0.07	0	
2017230	2017229	1.32	1 3-	4/0 ACSR	3224	3046	2671	177	0	0 0	0.00	0.07	0	
2017231	2017230	1.32	1 3-	6 ACWC	3220	3041	2667	177	0	0 0	0.00	0.07	0	
2017227	2017252	0.96	1 3-	336.4 ACSR	3689	3529	3181	178	1	0 0	0.00	0.07	0	
SW121039-B	2017227	0.96	1 3-	Closed	3689	3529	3181	178	1	0 0	0.00	0.07	0	
SW121039-A	SW121039-B	0.96	1 3-	Closed	3689	3529	3181	178	1	0 0	0.00	0.07	0	
2017228	SW121039-A	1.02	1 3-	336.4 ACSR	3620	3456	3097	178	1	0 0	0.00	0.07	0	
2017251	2017250	0.79	0 3-	336.4 ACSR	3918	3775	3458	178	0	0 0	0.00	0.06	0	
SW120363-B	2017251	0.79	0 3-	Open	3918	3775	3458	178	0	0 0	0.00	0.06	0	
2017248	2017247	0.39	35 3-	336.4 ACSR	4568	4492	4277	179	207	9 2	0.01	0.03	0	
CKT 114 total losses:	\$12													

SUB 8, CKT 124														
WB ER_124	WEST B ERE A	0.00	961 3-	SBS_99_SBS	5439	5618	5677	180	4526	202 0	0.00	0.00	0	
2017278	WB ER_124	0.07	961 3-	336.4 ACSR	5272	5345	5385	180	4526	202 38	0.08	0.08	262	
2017279	2017278	0.53	961 3-	336.4 ACSR	4328	4221	3939	179	4524	202 38	0.57	0.66	1797	
2017300	2017279	0.64	45 3-	336.4 ACSR	4143	4016	3692	178	164	7 1	0.00	0.66	0	
2017327	2017300	1.05	19 1-	1/0 URD PRI AL	0	0	2917	446	75	10 6	0.06	0.73	3	
SW121256-A	2017327	1.05	0 1-	Open	0	0	2917	446	0	0 0	0.00	0.73	0	
2017301	2017300	0.77	15 3-	336.4 ACSR	3947	3802	3441	178	51	2 0	0.00	0.66	0	
2017350	2017301	1.24	14 1-	1/0 URD PRI AL	0	0	2659	440	47	6 4	0.05	0.71	1	
SW121257-A	2017350	1.24	0 1-	Open	0	0	2659	440	0	0 0	0.00	0.71	0	
2017280	2017279	0.67	895 3-	336.4 ACSR	4091	3959	3625	178	4243	190 36	0.17	0.83	514	
2017241	2017280	0.77	829 3-	336.4 ACSR	3945	3800	3440	178	3970	178 34	0.11	0.94	305	

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 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
2017193	2017241	1.18	22 1-	1/0 ACSR	0	0	2652	176	121	16	7	0.07	1.01	5
2017297	2017241	0.92	807 3-	336.4 ACSR	3745	3585	3195	178	3847	172	33	0.15	1.09	428
2017291	2017297	1.01	779 3-	336.4 ACSR	3637	3470	3066	178	3743	168	32	0.09	1.18	237
2017323	2017291	1.78	22 1-	1/0 ACSR	0	0	2021	174	77	10	5	0.09	1.27	4
SW121255-B	2017323	1.78	0 1-	Open	0	0	2021	174	0	0	0	0.00	1.27	0
2017242	2017291	1.48	755 3-	336.4 ACSR	3137	2951	2512	177	3659	164	31	0.46	1.64	1233
2017292	2017242	1.50	125 3-	1/0 ACSR	3110	2923	2486	177	594	27	12	0.01	1.65	5
OC121122	2017292	1.50	125 3-	70-L	3110	2923	2486	177	594	27	39	0.00	1.65	0
2017298	OC121122	1.93	125 3-	1/0 ACSR	2611	2415	2023	175	594	27	12	0.16	1.81	68
2017205	2017298	2.00	26 1-	4 ACSR	0	0	1939	174	129	17	13	0.06	1.87	6
2017326	2017205	2.05	25 1-	1/0 URD PRI AL	0	0	1902	430	129	17	10	0.03	1.90	3
2017191	2017326	2.14	25 1-	4 ACSR	0	0	1809	172	129	17	13	0.06	1.96	7
2017192	2017191	2.40	22 1-	1/0 ACSR	0	0	1630	171	117	16	7	0.08	2.05	7
SW121254-A	2017192	2.40	19 1-	Closed	0	0	1630	171	91	12	0	0.00	2.05	0
SW121254-B	SW121254-A	2.40	19 1-	Closed	0	0	1630	171	91	12	0	0.00	2.05	0
2017195	SW121254-B	2.41	19 1-	1/0 ACSR	0	0	1626	171	91	12	5	0.00	2.05	0
2017196	2017195	2.79	12 1-	4 ACSR	0	0	1342	167	53	7	5	0.06	2.11	2
2017194	2017195	2.98	7 1-	4 ACSR	0	0	1227	165	38	5	4	0.07	2.12	2
2017299	2017298	2.09	55 3-	1/0 ACSR	2459	2263	1889	174	229	10	5	0.03	1.84	5
2017293	2017299	2.12	45 3-	4 ACSR	2410	2224	1849	173	185	8	6	0.01	1.85	2
2017294	2017293	2.24	44 3-	1/0 ACSR	2310	2134	1763	173	185	8	4	0.02	1.87	3
2017319	2017294	2.31	9 1-	6 ACWC	0	0	1701	172	19	2	2	0.01	1.87	0
2017320	2017319	2.51	7 1-	4 ACSR	0	0	1524	170	15	2	1	0.01	1.89	0
2017321	2017320	2.61	4 1-	6 ACWC	0	0	1453	169	5	0	0	0.00	1.89	0
2017204	2017294	2.80	34 1-	6 ACWC	0	0	1326	167	161	22	16	0.28	2.14	26
2017255	2017242	1.83	621 3-	336.4 ACSR	2844	2654	2213	176	3019	135	26	0.27	1.91	600
2017226	2017255	2.22	14 3-	4 ACSR	2292	2142	1748	172	97	4	3	0.03	1.94	2
2017256	2017255	2.42	555 3-	336.4 ACSR	2458	2273	1845	175	2736	123	23	0.38	2.29	779
2017260	2017256	2.44	487 3-	1/0 ACSR	2441	2256	1831	175	2229	100	44	0.03	2.32	62
OC121116	2017260	2.44	487 3-	REC_100_UNK	2441	2256	1831	175	2229	100	100	0.00	2.32	0
2017243	OC121116	3.14	487 3-	1/0 ACSR	1952	1791	1433	171	2229	100	44	0.97	3.29	1797
2017244	2017243	3.49	422 3-	1/0 ACSR	1762	1623	1285	169	1756	81	35	0.48	3.77	669
2017261	2017244	3.68	274 3-	1/0 ACSR	1677	1547	1220	169	1025	47	21	0.15	3.92	124
2017202	2017261	3.84	15 1-	4 ACSR	0	0	1147	167	41	5	4	0.04	3.95	1
OC121123	2017202	3.84	12 1-	REC_99_UNK	0	0	1147	167	33	4	0	0.00	3.95	0
2017203	OC121123	4.11	12 1-	4 ACSR	0	0	1035	164	33	4	3	0.03	3.98	0
2017262	2017261	3.94	250 3-	1/0 ACSR	1568	1450	1137	167	922	42	19	0.19	4.11	149
2017263	2017262	4.17	241 3-	2 ACSR	1466	1362	1062	166	913	42	24	0.25	4.36	201
2017264	2017263	4.40	234 3-	1/0 ACSR	1392	1295	1007	165	892	41	18	0.16	4.52	119
OC121126	2017264	4.40	230 3-	50-L	1392	1295	1007	165	872	40	81	0.00	4.52	0
2017223	OC121126	4.48	230 3-	1/0 ACSR	1365	1271	987	164	872	40	18	0.06	4.58	45
2017224	2017223	5.04	151 3-	1/0 ACSR	1216	1135	877	162	562	26	11	0.20	4.79	84
2017225	2017224	5.54	59 3-	1/0 ACSR	1104	1034	795	159	212	9	4	0.06	4.84	8
2117002	2017225	6.32	29 1-	2 ACSR	0	0	678	154	74	10	6	0.13	4.97	5
2017306	2017224	5.18	45 1-	4 ACSR	0	0	841	160	142	19	14	0.11	4.89	12
2017307	2017306	5.26	20 1-	4 ACSR	0	0	820	159	59	8	6	0.02	4.91	0
2017336	2017307	5.30	2 1-	1/0 URD PRI AL	0	0	814	343	9	1	1	0.00	4.91	0
SW121253-B	2017336	5.30	0 1-	Open	0	0	814	343	0	0	0	0.00	4.91	0
2017346	2017306	5.26	14 1-	1/0 URD PRI AL	0	0	827	345	39	5	3	0.01	4.90	0
SW121253-A	2017346	5.26	0 1-	Open	0	0	827	345	0	0	0	0.00	4.90	0
2017206	2017223	4.92	78 2-	1/0 ACSR	0	1155	897	162	307	21	9	0.16	4.74	36
2017303	2017206	4.95	44 1-	2 ACSR	0	0	890	162	153	21	12	0.02	4.76	3

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
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 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
2017304	2017303	5.41	42 1-	1/0 ACSR	0	0	814	160	144	20	9	0.11	4.87	9
2017305	2017304	5.73	4 1-	6 ACWC	0	0	746	157	10	1	1	0.01	4.88	0
2017200	2017206	5.35	13 1-	6 ACWC	0	0	792	158	67	9	7	0.17	4.91	9
2017201	2017200	5.67	11 1-	4 ACSR	0	0	726	155	57	8	6	0.06	4.97	2
2017245	2017244	4.93	116 3-	1/0 ACSR	1256	1170	905	163	540	25	11	0.42	4.19	148
2017199	2017245	4.99	1 1-	4 ACSR	0	0	886	162	8	1	1	0.00	4.19	0
2017246	2017245	5.00	38 3-	1/0 ACSR	1238	1153	892	162	182	8	4	0.01	4.20	1
2017198	2017246	5.97	32 1-	4 ACSR	0	0	681	153	162	22	16	0.50	4.70	48
CA120032	2017243	3.14	0 3-	Capacitor	1952	1791	1433	171	0	-14	0	0.00	3.29	0
2017257	2017256	2.56	38 3-	1/0 ACSR	2348	2163	1753	174	175	8	3	0.02	2.31	2
2017259	2017257	2.60	33 3-	2 ACSR	2313	2126	1723	174	159	7	4	0.01	2.32	0
2017315	2017259	2.60	27 1-	4 ACSR	0	0	1718	174	115	15	11	0.00	2.32	0
OC121127	2017315	2.60	27 1-	REC_25_UNK	0	0	1718	174	115	15	63	0.00	2.32	0
2017316	OC121127	2.62	27 1-	4 ACSR	0	0	1701	174	115	15	11	0.01	2.33	1
2017317	2017316	2.68	25 1-	2 ACSR	0	0	1657	173	111	15	8	0.03	2.36	2
2017318	2017317	2.84	21 1-	6 ACWC	0	0	1532	171	97	13	10	0.08	2.44	5
2017302	2017318	3.16	13 1-	4 ACSR	0	0	1322	168	55	7	5	0.05	2.49	2
2017258	2017257	2.58	0 3-	1/0 ACSR	2330	2145	1738	174	0	0	0	0.00	2.31	0
SW121051-A	2017258	2.58	0 3-	Open	2330	2145	1738	174	0	0	0	0.00	2.31	0
2017314	2017297	1.32	26 1-	1/0 ACSR	0	0	2509	176	98	13	6	0.06	1.15	3
2017281	2017280	0.71	61 3-	1/0 ACSR	4022	3883	3541	178	244	11	5	0.01	0.83	1
OC121119	2017281	0.71	59 3-	REC_50_UNK	4022	3883	3541	178	241	10	22	0.00	0.83	0
2017282	OC121119	0.74	59 3-	1/0 ACSR	3950	3805	3456	178	241	10	5	0.01	0.84	1
2017345	2017282	1.12	33 1-	1/0 URD PRI AL	0	0	2797	444	134	18	11	0.11	0.95	9
2017289	2017282	1.15	22 3-	1/0 ACSR	3218	3029	2658	176	91	4	2	0.02	0.86	0
2017324	2017289	1.15	0 1-	1/0 ACSR	0	0	2649	176	0	0	0	0.00	0.86	0
SW121255-A	2017324	1.15	0 1-	Open	0	0	2649	176	0	0	0	0.00	0.86	0
2017290	2017289	1.21	3 3-	336.4 ACSR	3159	2967	2591	176	3	0	0	0.00	0.86	0
2017325	2017290	1.30	2 1-	1/0 URD PRI AL	0	0	2484	444	2	0	0	0.00	0.86	0
SW121256-B	2017325	1.30	0 1-	Open	0	0	2484	444	0	0	0	0.00	0.86	0
2017296	2017290	1.29	1 3-	336.4 ACSR	3083	2890	2508	176	1	0	0	0.00	0.86	0
2017349	2017296	1.33	0 1-	1/0 URD PRI AL	0	0	2466	445	0	0	0	0.00	0.86	0
SW121257-B	2017349	1.33	0 1-	Open	0	0	2466	445	0	0	0	0.00	0.86	0
2017240	2017296	1.38	1 3-	336.4 ACSR	3007	2812	2424	176	1	0	0	0.00	0.86	0
2017295	2017240	1.42	1 2-	1/0 ACSR	0	0	2761	2378	175	1	0	0.00	0.86	0
SW121260-B	2017278	0.07	0 3-	Open	5272	5345	5385	180	0	0	0	0.00	0.08	0

CKT 124 total losses: \$9,864

SUB	LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
8, CKT 134	WBEB_134	WEST BERA	0.00	434 3-	SBS_99_SBS	5439	5618	5677	180	2279	103	0	0.00	0.00	0
	2017234	WBEB_134	0.03	434 3-	336.4 ACSR	5370	5503	5555	180	2279	103	19	0.02	0.02	28
	2017283	2017234	2.39	434 3-	336.4 ACSR	2475	2289	1860	175	2279	103	19	1.53	1.55	2142
	SW121130-B	2017283	2.39	371 3-	Closed	2475	2289	1860	175	1907	87	0	0.00	1.55	0
	SW121130-A	SW121130-B	2.39	371 3-	Closed	2475	2289	1860	175	1907	87	0	0.00	1.55	0
	2017284	SW121130-A	2.48	371 3-	336.4 ACSR	2425	2240	1814	175	1907	87	16	0.05	1.60	63
	2017285	2017284	3.17	350 3-	1/0 ACSR	1948	1786	1427	171	1806	82	36	0.95	2.55	1361
	2017310	2017285	3.25	14 1-	6 ACWC	0	0	1378	170	73	10	7	0.03	2.58	2
	2017311	2017310	3.52	9 1-	4 ACSR	0	0	1228	168	50	6	5	0.08	2.66	4
	2017312	2017311	3.64	9 1-	2 ACSR	0	0	1180	167	50	6	4	0.03	2.69	0
	2017313	2017312	4.14	9 1-	4 ACSR	0	0	975	162	50	6	5	0.08	2.77	2
	2017286	2017285	3.47	310 3-	1/0 ACSR	1785	1642	1301	170	1596	73	32	0.38	2.93	495
	2017288	2017286	3.90	256 3-	1/0 ACSR	1592	1471	1154	168	1399	64	28	0.47	3.40	535

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
2017276	2017288	4.04	244 3-	1/0 ACSR	1538	1423	1114	167	1319	61	27	0.15	3.55	159
OC121187	2017276	4.04	241 3-	70-L	1538	1423	1114	167	1311	60	87	0.00	3.55	0
2017277	OC121187	4.22	241 3-	1/0 ACSR	1473	1364	1065	166	1311	60	26	0.19	3.73	204
2017268	2017277	4.44	158 3-	1/0 ACSR	1400	1299	1010	165	860	39	17	0.15	3.88	104
SW121134-B	2017268	4.44	147 3-	Closed	1400	1299	1010	165	810	37	0	0.00	3.88	0
SW121134-A	SW121134-B	4.44	147 3-	Closed	1400	1299	1010	165	810	37	0	0.00	3.88	0
2017269	SW121134-A	4.57	147 3-	1/0 ACSR	1363	1265	983	164	810	37	16	0.08	3.96	52
2017270	2017269	4.83	145 3-	2/0 ACSR	1295	1203	931	163	791	36	14	0.13	4.09	75
2017271	2017270	6.06	119 3-	1/0 ACSR	1027	961	736	158	660	30	13	0.52	4.61	250
2017273	2017271	6.19	50 3-	1/0 ACSR	1006	941	720	157	332	15	7	0.03	4.64	8
2017274	2017273	6.49	37 3-	1/0 ACSR	958	897	686	156	239	11	5	0.03	4.67	4
SW121051-B	2017274	6.49	0 3-	Open	958	897	686	156	0	0	0	0.00	4.67	0
2017309	2017273	6.40	3 1-	4 ACSR	0	0	684	155	25	3	2	0.02	4.66	0
2017272	2017271	6.24	3 3-	1/0 ACSR	996	932	714	157	61	2	1	0.00	4.61	0
2017267	2017277	4.30	75 3-	1/0 ACSR	1445	1339	1042	166	412	19	8	0.03	3.76	9
2017308	2017267	4.70	37 1-	1/0 ACSR	0	0	952	164	208	28	13	0.13	3.89	14
2017197	2017267	5.32	30 1-	1/0 ACSR	0	0	838	161	165	22	10	0.26	4.02	22
2017332	2017288	4.06	0 1-	4 ACSR	0	0	1087	166	0	0	0	0.00	3.40	0
SW121131-A	2017332	4.06	0 1-	Open	0	0	1087	166	0	0	0	0.00	3.40	0
2017287	2017286	3.72	41 3-	4 ACSR	1609	1498	1175	167	137	6	4	0.05	2.98	6
2017328	2017287	3.96	30 1-	4 ACSR	0	0	1075	165	94	12	9	0.13	3.11	11
2017330	2017328	4.06	8 1-	4 ACSR	0	0	1034	164	43	5	4	0.03	3.14	0
OC121184	2017330	4.06	8 1-	25-H	0	0	1034	164	43	5	24	0.00	3.14	0
2017331	OC121184	4.85	8 1-	4 ACSR	0	0	797	156	43	5	4	0.11	3.25	3
SW121131-B	2017331	4.85	0 1-	Open	0	0	797	156	0	0	0	0.00	3.25	0
2017329	2017328	3.96	21 1-	4 ACSR	0	0	1072	165	45	6	4	0.00	3.12	0
SW121261-A	2017329	3.96	21 1-	Closed	0	0	1072	165	45	6	0	0.00	3.12	0
SW121261-B	SW121261-A	3.96	21 1-	Closed	0	0	1072	165	45	6	0	0.00	3.12	0
2016009	SW121261-B	5.49	21 1-	4 ACSR	0	0	669	151	45	6	4	0.22	3.33	6
2017235	2017234	0.04	0 3-	336.4 ACSR	5348	5466	5516	180	0	0	0	0.00	0.02	0
SW121136-B	2017235	0.04	0 3-	Open	5348	5466	5516	180	0	0	0	0.00	0.02	0
CKT 134 total losses:		\$5,559												
SUB 8, CKT 144														
WBER_144	WEST BERIA	0.00	294 3-	SBS_99_SBS	5439	5618	5677	180	1183	53	0	0.00	0.00	0
2017266	WBER_144	0.04	294 3-	336.4 ACSR	5348	5473	5522	180	1183	53	10	0.01	0.01	10
2017222	2017266	2.70	294 3-	336.4 ACSR	2312	2131	1713	174	1183	53	10	0.90	0.92	669
1917236	2017222	2.71	31 1-	1/0 ACSR	0	0	1702	174	141	19	8	0.01	0.92	0
1917237	1917236	2.72	31 1-	4 ACSR	0	0	1698	174	141	19	14	0.01	0.93	0
OC121227	1917237	2.72	31 1-	REC_70_UNK	0	0	1698	174	141	19	27	0.00	0.93	0
1917240	OC121227	2.73	1 1-	1/0 ACSR	0	0	1694	174	5	0	0	0.00	0.93	0
2017366	OC121227	3.84	30 1-	4 ACSR	0	0	1038	163	136	18	13	0.87	1.80	97
2017365	2017366	4.65	4 1-	4 ACSR	0	0	791	155	13	1	1	0.03	1.83	0
2016007	2017366	4.17	21 1-	4 ACSR	0	0	923	159	102	13	10	0.21	2.00	18
2016010	2016007	4.17	19 1-	4 ACSR	0	0	921	159	96	13	9	0.00	2.01	0
OC121247	2016010	4.17	19 1-	25-H	0	0	921	159	95	13	52	0.00	2.01	0
2016011	OC121247	5.97	19 1-	4 ACSR	0	0	565	144	95	13	9	0.53	2.54	30
2016008	2016007	4.33	2 1-	4 ACSR	0	0	875	158	6	0	1	0.00	2.01	0
OC121246	2016008	4.33	0 1-	25-H	0	0	875	158	0	0	0	0.00	2.01	0
1917180	2017222	3.38	231 3-	336.4 ACSR	2011	1841	1451	173	899	40	8	0.19	1.10	111
1917152	1917180	3.51	20 1-	4 ACSR	0	0	1378	171	160	21	16	0.12	1.22	17
OC121245	1917152	3.51	20 1-	REC_25_UNK	0	0	1378	171	160	21	87	0.00	1.22	0

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LIG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1917153	OC121245	5.13	20 1-	4 ACSR	0	0	775	155	160	21	16	0.81	2.03	75
1917187	1917180	3.81	208 3-	336.4 ACSR	1860	1697	1324	172	731	33	6	0.10	1.20	46
OC121230	1917187	3.81	206 3-	REC_100_UNK	1860	1697	1324	172	728	33	33	0.00	1.20	0
1917188	OC121230	3.86	206 3-	336.4 ACSR	1845	1683	1312	172	728	33	6	0.01	1.21	5
1917210	1917188	4.00	173 3-	4/0 ACSR	1791	1632	1268	171	627	28	8	0.04	1.25	18
1917211	1917210	5.01	115 3-	4/0 ACSR	1473	1333	1020	168	456	20	6	0.18	1.43	55
SW121190-B	1917211	5.01	86 3-	Closed	1473	1333	1020	168	348	15	0	0.00	1.43	0
SW121190-A	SW121190-B	5.01	86 3-	Closed	1473	1333	1020	168	348	15	0	0.00	1.43	0
1916027	SW121190-A	5.38	86 3-	4/0 ACSR	1382	1252	951	167	348	15	5	0.06	1.49	15
1916028	1916027	7.08	75 3-	4/0 ACSR	1077	976	727	161	319	14	4	0.22	1.71	48
SW121193-B	1916028	7.08	59 3-	Closed	1077	976	727	161	261	11	0	0.00	1.71	0
SW121193-A	SW121193-B	7.08	59 3-	Closed	1077	976	727	161	261	11	0	0.00	1.71	0
1916029	SW121193-A	7.50	59 3-	4/0 ACSR	1020	925	686	160	261	11	4	0.05	1.76	9
1816066	1916029	8.28	30 3-	4/0 ACSR	931	845	623	158	139	6	2	0.05	1.80	5
1816051	1816066	8.38	30 3-	1/0 ACSR	917	833	613	157	139	6	3	0.01	1.82	1
OC121243	1816051	8.38	30 3-	35-H	917	833	613	157	138	6	18	0.00	1.82	0
1816048	OC121243	8.71	30 3-	1/0 ACSR	876	797	587	156	138	6	3	0.04	1.85	4
1816049	1816048	9.70	30 3-	4/0 ACSR	787	717	524	152	138	6	2	0.07	1.92	7
1817006	1816049	10.94	29 3-	1/0 ACSR	686	629	460	147	138	6	3	0.11	2.03	12
1817008	1817006	11.17	18 1-	4 ACSR	0	0	444	145	107	14	11	0.08	2.11	5
1816050	1816066	8.60	0 3-	4/0 ACSR	899	816	600	157	0	0	0	0.00	1.80	0
SW120677-B	1816050	8.60	0 3-	Open	899	816	600	157	0	0	0	0.00	1.80	0
1916021	1916029	7.51	26 1-	2 ACSR	0	0	685	160	113	15	9	0.00	1.76	0
OC121240	1916021	7.51	26 1-	35-L	0	0	685	160	113	15	44	0.00	1.76	0
1916022	OC121240	8.91	26 1-	2 ACSR	0	0	545	151	113	15	9	0.43	2.19	31
1917269	1916022	9.37	7 1-	4 ACSR	0	0	501	147	31	4	3	0.04	2.24	0
1916033	1916027	5.56	11 1-	4 ACSR	0	0	903	165	28	3	3	0.03	1.51	0
OC121239	1916033	5.56	8 1-	REC_35_UNK	0	0	903	165	22	3	9	0.00	1.51	0
1916034	OC121239	6.14	8 1-	4 ACSR	0	0	770	159	22	3	2	0.04	1.55	0
1917145	1917210	4.00	58 1-	4 ACSR	0	0	1266	171	171	23	17	0.01	1.25	0
OC121237	1917145	4.00	58 1-	REC_50_UNK	0	0	1266	171	171	23	47	0.00	1.25	0
1917146	OC121237	6.46	58 1-	4 ACSR	0	0	605	148	171	23	17	1.84	3.09	219
1917148	1917146	6.57	27 1-	4 ACSR	0	0	589	147	70	9	7	0.05	3.14	3
OC121238	1917148	6.57	27 1-	25-H	0	0	589	147	70	9	39	0.00	3.14	0
1917149	OC121238	6.69	27 1-	4 ACSR	0	0	574	146	70	9	7	0.05	3.19	3
1917150	1917149	6.90	22 1-	2 ACSR	0	0	554	145	55	7	4	0.05	3.24	2
1917151	1917150	7.69	22 1-	4 ACSR	0	0	474	139	55	7	5	0.24	3.48	11
OC121244	1917151	7.69	17 1-	REC_15_UNK	0	0	474	139	42	5	39	0.00	3.48	0
1917139	OC121244	8.85	17 1-	4 ACSR	0	0	391	131	42	5	4	0.15	3.63	4
1917147	1917146	6.62	1 1-	4 ACSR	0	0	583	147	0	0	0	0.00	3.09	0
1917208	1917188	4.02	32 3-	1/0 ACSR	1768	1608	1254	171	101	4	2	0.01	1.22	0
OC121233	1917208	4.02	32 3-	50-H	1768	1608	1254	171	101	4	9	0.00	1.22	0
1916042	OC121233	5.16	32 3-	1/0 ACSR	1352	1243	952	165	101	4	2	0.08	1.30	6
1916040	1916042	5.16	7 1-	6 ACWC	0	0	950	165	15	1	1	0.00	1.30	0
OC121234	1916040	5.16	7 1-	REC_25_UNK	0	0	950	165	15	1	8	0.00	1.30	0
1916031	OC121234	5.82	7 1-	6 ACWC	0	0	787	159	15	1	1	0.03	1.33	0
1916032	1916031	5.94	0 1-	4 ACSR	0	0	760	158	0	0	0	0.00	1.33	0
1916026	1916042	5.45	17 3-	1/0 ACSR	1272	1172	895	164	59	2	1	0.01	1.31	0
1916025	1916026	5.47	16 2-	1/0 ACSR	0	1168	892	164	56	3	2	0.00	1.31	0
1916035	1916025	5.53	7 1-	4 ACSR	0	0	876	163	23	3	2	0.01	1.32	0
OC121235	1916035	5.53	7 1-	REC_35_UNK	0	0	876	163	23	3	9	0.00	1.32	0
1916036	OC121235	5.57	7 1-	4 ACSR	0	0	865	163	23	3	2	0.01	1.33	0

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LIG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 9	HICKORY PLAINS		3291		7135	7464	7556	180	22632					
SUB 9, CKT 104														
HKPL_104	HICKORY PLAINS	0.00	205 3-	SBS_99_SBS	7135	7464	7556	180	1364	61	0	0.00	0.00	0
1918291	HKPL_104	0.03	205 3-	350 MCM URD PRI	7083	7351	7495	478	1364	61	19	0.01	0.01	12
1918179	1918291	0.58	205 3-	4/0 ACSR	4902	4741	4255	178	1364	61	18	0.33	0.34	298
1918252	1918179	0.61	26 1-	4 ACSR	0	0	4138	178	176	24	17	0.03	0.36	4
OC120023	1918252	0.61	26 1-	REC_35_UNK	0	0	4138	178	176	24	69	0.00	0.36	0
1918253	OC120023	0.89	26 1-	4 ACSR	0	0	2996	175	176	24	17	0.22	0.58	26
1918254	1918253	1.23	11 1-	1/0 ACSR	0	0	2432	173	64	8	4	0.04	0.62	1
1918290	1918254	1.29	1 1-	1/0 URD PRI AL	0	0	2349	427	6	0	1	0.00	0.62	0
SW120318-A	1918290	1.29	0 1-	Open	0	0	2349	427	0	0	0	0.00	0.62	0
1918180	1918179	2.94	150 3-	4/0 ACSR	2058	1872	1461	171	1017	46	14	0.80	1.14	459
1918183	1918180	3.32	67 3-	336.4 ACSR	1914	1738	1345	170	445	20	4	0.05	1.19	15
1918184	1918183	3.90	40 3-	336.4 ACSR	1732	1572	1201	169	271	12	2	0.04	1.23	6
SW120314-B	1918184	3.90	21 3-	Closed	1732	1572	1201	169	155	7	0	0.00	1.23	0
SW120314-A	SW120314-B	3.90	21 3-	Closed	1732	1572	1201	169	155	7	0	0.00	1.23	0
1918271	SW120314-A	3.94	21 3-	336.4 ACSR	1720	1562	1192	169	155	7	1	0.00	1.23	0
1918266	1918271	4.24	21 3-	336.4 ACSR	1640	1489	1133	168	155	7	1	0.01	1.24	0
1918285	1918183	3.49	22 1-	1/0 URD PRI AL	0	0	1289	398	154	21	12	0.09	1.27	10
1918289	1918285	3.59	3 1-	1/0 URD PRI AL	0	0	1254	394	22	2	2	0.00	1.28	0
SW120313-A	1918289	3.59	0 1-	Open	0	0	1254	394	0	0	0	0.00	1.28	0
1918288	1918285	3.64	10 1-	1/0 URD PRI AL	0	0	1237	392	69	9	6	0.02	1.30	0
SW120313-B	1918288	3.64	0 1-	Open	0	0	1237	392	0	0	0	0.00	1.30	0
1918181	1918180	3.22	1 3-	4/0 ACSR	1922	1745	1353	170	1	0	0	0.00	1.14	0
1918182	1918181	3.80	0 3-	4/0 ACSR	1693	1538	1176	168	0	0	0	0.00	1.14	0
SW120521-A	1918182	3.80	0 3-	Open	1693	1538	1176	168	0	0	0	0.00	1.14	0
1918154	1918181	3.53	1 1-	4 ACSR	0	0	1189	167	1	0	0	0.00	1.14	0
CKT 104 total losses:		\$831												
SUB 9, CKT 124														
HKPL_124	HICKORY PLAINS	0.00	689 3-	SBS_99_SBS	7135	7464	7556	180	4553	204	0	0.00	0.00	0
1918174	HKPL_124	0.01	689 3-	336.4 ACSR	7079	7370	7458	180	4553	204	39	0.02	0.02	52
1918169	1918174	0.02	689 3-	336.4 ACSR	7037	7302	7386	180	4553	204	39	0.01	0.03	38
1918170	1918169	0.65	689 3-	4/0 ACSR	4692	4502	3999	178	4553	204	60	1.24	1.26	4038
1918251	1918170	0.91	11 1-	1/0 ACSR	0	0	3259	177	96	13	6	0.04	1.30	2
SW120317-A	1918251	0.91	0 1-	Open	0	0	3259	177	0	0	0	0.00	1.30	0
1918171	1918170	0.88	667 3-	4/0 ACSR	4157	3940	3400	177	4353	197	58	0.44	1.70	1377
1918257	1918171	0.90	34 1-	1/0 ACSR	0	0	3368	177	293	40	18	0.01	1.71	3
OC120057	1918257	0.90	34 1-	REC_50_UNK	0	0	3368	177	293	40	81	0.00	1.71	0
1918258	OC120057	1.40	34 1-	1/0 ACSR	0	0	2451	175	293	40	18	0.33	2.05	62
1918250	1918258	1.42	17 1-	1/0 ACSR	0	0	2422	175	137	18	8	0.01	2.06	0
1918286	1918250	1.80	17 1-	1/0 URD PRI AL	0	0	2027	421	137	18	11	0.11	2.17	9
SW120318-B	1918286	1.80	0 1-	Open	0	0	2027	421	0	0	0	0.00	2.17	0
1918249	1918258	1.44	0 1-	1/0 ACSR	0	0	2397	174	0	0	0	0.00	2.05	0
SW120317-B	1918249	1.44	0 1-	Open	0	0	2397	174	0	0	0	0.00	2.05	0
1918172	1918171	1.66	616 3-	4/0 ACSR	3002	2776	2261	175	3902	177	52	1.24	2.94	3523
1918173	1918172	1.91	506 3-	4/0 ACSR	2760	2541	2047	174	3221	147	43	0.33	3.27	813
1918255	1918173	1.94	83 1-	1/0 ACSR	0	0	2010	174	466	65	28	0.06	3.33	21
OC120059	1918255	1.94	83 1-	REC_99_UNK	0	0	2010	174	466	65	0	0.00	3.33	0
1918256	OC120059	3.08	83 1-	1/0 ACSR	0	0	1325	168	466	65	28	0.83	4.16	201
1918166	1918173	2.00	418 3-	4/0 ACSR	2678	2462	1976	174	2732	124	37	0.10	3.37	222
1918236	1918166	2.02	93 3-	1/0 ACSR	2658	2442	1959	174	683	31	14	0.01	3.38	6

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS	
SUB	9, CKT 134														
	HKPL_134	HICKORY PLAINS	0.00	1209 3-	SBS_99_SBS	7135	7464	7556	180	7556	338	0	0.00	0.00	0
	1918213	HKPL_134	0.01	1209 3-	336.4 ACSR	7078	7368	7456	180	7556	338	64	0.03	0.03	144
	1918210	1918213	0.01	0 3-	336.4 ACSR	7071	7358	7445	180	0	0	0	0.00	0.03	0
	SW120316-A	1918210	0.01	0 3-	Open	7071	7358	7445	180	0	0	0	0.00	0.03	0
	1918215	1918213	0.08	1209 3-	336.4 ACSR	6789	6915	6968	180	7555	338	64	0.15	0.17	752
	1918148	1918215	0.14	34 1-	6 ACWC	0	0	6295	179	275	37	27	0.10	0.27	23
	1918149	1918148	0.23	31 1-	2 ACSR	0	0	5614	178	239	32	18	0.07	0.35	13
	1918152	1918149	0.27	20 1-	4 ACSR	0	0	5256	178	174	23	17	0.04	0.39	7
	2018222	1918152	0.74	19 1-	1/0 ACSR	0	0	3372	176	174	23	10	0.13	0.52	11
	1918216	1918215	0.53	1175 3-	336.4 ACSR	5325	5157	4761	179	7274	326	62	0.91	1.08	4513
	1918282	1918216	0.55	41 1-	1/0 URD PRI AL	0	0	4696	469	234	32	19	0.02	1.10	4
	2018220	1918282	1.04	39 1-	1/0 ACSR	0	0	3121	176	226	30	13	0.17	1.27	20
	2018225	1918216	1.10	1089 3-	336.4 ACSR	4159	3919	3373	178	6810	306	58	1.04	2.12	4935
	2018154	2018225	1.60	1013 3-	336.4 ACSR	3478	3232	2678	177	6356	287	54	0.85	2.97	3897
	2018188	2018154	1.65	12 1-	2 ACSR	0	0	2594	176	81	11	6	0.02	2.98	0
	2018187	2018188	1.92	11 1-	4 ACSR	0	0	2136	173	74	10	7	0.06	3.05	3
	2018155	2018154	3.46	854 3-	336.4 ACSR	2160	1962	1517	173	5333	242	46	2.40	5.37	9980
	OC120203	2018155	3.46	792 3-	REC_99_VWE	2160	1962	1517	173	4893	225	0	0.00	5.37	0
	2018156	OC120203	3.70	792 3-	336.4 ACSR	2062	1870	1439	172	4893	225	43	0.27	5.64	1145
	2018139	2018156	3.89	758 3-	336.4 ACSR	1986	1798	1379	172	4638	214	40	0.22	5.86	878
	2018197	2018139	3.90	84 3-	1/0 ACSR	1982	1795	1376	172	497	23	10	0.00	5.86	0
	OC120187	2018197	3.90	84 3-	no ocr	1982	1795	1376	172	497	23	16	0.00	5.86	0
	2018198	OC120187	3.98	84 3-	1/0 ACSR	1938	1759	1345	171	497	23	10	0.03	5.89	13
	2018200	2018198	4.73	78 3-	1/0 ACSR	1584	1452	1097	168	459	21	9	0.16	6.05	42
	2019042	2018200	6.04	13 1-	4 ACSR	0	0	731	155	40	5	4	0.17	6.22	4
	2018199	2018198	4.07	3 1-	1/0 ACSR	0	0	1308	171	20	2	1	0.00	5.90	0
	SW120320-B	2018199	4.07	0 1-	Open	0	0	1308	171	0	0	0	0.00	5.90	0
	2018140	2018139	3.97	670 3-	336.4 ACSR	1959	1774	1358	172	4095	189	36	0.07	5.93	248
	RG120002	2018140	3.97	670 3-	219	1959	1774	1358	172	4093	189	86	-5.93	0.00	0
	2018141	RG120002	4.58	670 3-	336.4 ACSR	1760	1594	1204	170	4093	180	34	0.52	0.52	1873
	2018163	2018141	4.59	289 3-	1/0 ACSR	1753	1588	1200	170	1763	78	34	0.02	0.53	30
	OC120190	2018163	4.59	289 3-	REC_70_UNK	1753	1588	1200	170	1763	78	112	0.00	0.53	0
	2018164	OC120190	5.67	289 3-	1/0 ACSR	1359	1247	932	165	1763	78	34	1.14	1.68	1674
	2018115	2018164	5.67	44 1-	6 ACWC	0	0	930	165	246	33	24	0.01	1.69	2
	OC120191	2018115	5.67	44 1-	REC_35_UNK	0	0	930	165	246	33	97	0.00	1.69	0
	2018116	OC120191	6.47	44 1-	6 ACWC	0	0	744	157	246	33	24	0.63	2.32	91
	2018117	2018116	6.56	2 1-	4 ACSR	0	0	726	156	8	1	1	0.00	2.32	0
	2018122	2018164	5.97	178 3-	1/0 ACSR	1277	1175	876	163	1125	50	22	0.19	1.87	204
	2018127	2018122	6.18	48 3-	1/0 ACSR	1223	1127	840	162	296	13	6	0.04	1.91	9
	2018177	2018127	6.45	10 1-	6 ACWC	0	0	781	160	51	7	5	0.04	1.96	1
	2018207	2018127	6.55	25 1-	1/0 ACSR	0	0	784	161	152	21	9	0.10	2.01	9
	2018196	2018207	6.61	4 1-	4 ACSR	0	0	773	160	25	3	2	0.00	2.02	0
	2018123	2018122	6.34	103 3-	1/0 ACSR	1185	1094	815	162	645	29	13	0.17	2.04	82
	2018124	2018123	6.42	74 3-	4 ACSR	1158	1072	798	161	477	21	16	0.07	2.11	28
	2019054	2018124	6.63	16 3-	1/0 ACSR	1115	1033	768	160	90	4	2	0.01	2.11	0
	SW120070-B	2019054	6.63	0 3-	Open	1115	1033	768	160	0	0	0	0.00	2.11	0
	2018189	2018124	6.47	51 2-	1/0 ACSR	0	0	1062	161	347	23	10	0.02	2.13	7
	OC120192	2018189	6.47	51 2-	REC_35_UNK	0	0	1062	161	347	23	68	0.00	2.13	0
	2019056	OC120192	6.64	51 2-	1/0 ACSR	0	0	1029	160	347	23	10	0.07	2.20	16
	2019041	2019056	7.19	32 1-	4 ACSR	0	0	670	155	223	30	22	0.39	2.58	50
NEWCAP-4F98E364	2018122	5.97	0 3-	Capacitor	1277	1175	876	163	0	-14	0	0.00	1.87	0	

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
2018148	2018141	4.67	366 3-	336.4 ACSR	1732	1568	1183	170	2180	96 18	0.04	0.55	89	
2019055	2018148	5.19	365 3-	1/0 ACSR	1526	1392	1043	168	2170	96 42	0.69	1.24	1447	
2019032	2019055	5.32	311 3-	1/0 ACSR	1480	1352	1012	167	1698	75 33	0.16	1.40	238	
OC120198	2019032	5.32	309 3-	70-L	1480	1352	1012	167	1696	75 108	0.00	1.40	0	
2019033	OC120198	7.60	309 3-	1/0 ACSR	961	893	663	156	1696	75 33	1.91	3.31	2490	
2019034	2019033	7.88	158 3-	1/0 ACSR	920	856	635	155	706	32 14	0.11	3.42	93	
2019045	2019034	7.92	35 1-	2 ACSR	0	0	631	155	155	21 12	0.03	3.45	4	
OC120199	2019045	7.92	35 1-	REC_25_UNK	0	0	631	155	154	21 86	0.00	3.45	0	
2019046	OC120199	8.09	35 1-	2 ACSR	0	0	613	154	154	21 12	0.12	3.57	15	
2019043	2019046	8.94	33 1-	4 ACSR	0	0	518	146	153	21 15	0.69	4.26	83	
1919114	2019043	9.14	3 1-	4 ACSR	0	0	499	145	13	1 1	0.01	4.26	0	
1919110	2019043	9.03	18 1-	2 ACSR	0	0	511	146	88	12 7	0.03	4.29	2	
1919119	1919110	9.06	16 1-	1/0 URD PRI AL	0	0	509	279	78	10 6	0.01	4.30	0	
1919111	1919119	9.11	16 1-	4 ACSR	0	0	505	145	78	10 8	0.02	4.32	2	
1919112	1919111	9.22	15 1-	2 ACSR	0	0	497	145	76	10 6	0.03	4.35	1	
1919113	1919112	10.02	7 1-	4 ACSR	0	0	433	138	34	4 3	0.12	4.47	3	
1919120	1919113	10.17	3 1-	1/0 URD PRI AL	0	0	427	250	12	1 1	0.00	4.47	0	
2019035	2019034	8.69	121 3-	1/0 ACSR	820	765	568	151	539	25 11	0.29	3.71	113	
2019036	2019035	8.94	72 3-	1/0 ACSR	794	742	550	150	330	15 7	0.06	3.78	17	
2019048	2019036	8.97	63 1-	1/0 ACSR	0	0	548	150	304	42 19	0.03	3.81	8	
OC120200	2019048	8.97	63 1-	REC_50_UNK	0	0	548	150	303	42 85	0.00	3.81	0	
2019049	OC120200	9.47	63 1-	1/0 ACSR	0	0	515	148	303	42 19	0.48	4.29	113	
2019044	2019049	11.13	9 1-	2 ACSR	0	0	415	139	15	2 1	0.05	4.34	0	
2019050	2019049	10.90	53 1-	1/0 ACSR	0	0	440	142	288	40 18	1.00	5.28	189	
2020003	2019050	11.00	26 1-	4 ACSR	0	0	433	141	148	20 15	0.09	5.37	11	
OC120201	2020003	11.00	20 1-	REC_25_UNK	0	0	433	141	130	18 74	0.00	5.37	0	
1920002	OC120201	12.10	20 1-	4 ACSR	0	0	369	133	130	18 13	0.47	5.84	36	
2019047	2019035	8.92	2 1-	4 ACSR	0	0	544	149	10	1 1	0.01	3.72	0	
NEWCAP-20978009	2019034	7.88	0 3-	Capacitor	920	856	635	155	0	-14 0	0.00	3.42	0	
2019039	2019033	9.22	25 1-	2 ACSR	0	0	510	146	138	19 11	0.50	3.81	38	
2019026	2019055	5.40	46 3-	1/0 ACSR	1454	1329	994	166	423	19 8	0.07	1.31	24	
OC120195	2019026	5.40	45 3-	REC_70_UNK	1454	1329	994	166	411	18 27	0.00	1.31	0	
2019027	OC120195	6.51	45 3-	1/0 ACSR	1157	1069	795	161	411	18 8	0.35	1.66	111	
2019031	2019027	7.01	31 3-	1/0 ACSR	1059	981	729	159	337	15 7	0.10	1.76	22	
2019040	2019031	7.03	25 1-	4 ACSR	0	0	726	159	152	20 15	0.01	1.77	2	
OC120202	2019040	7.03	25 1-	REC_25_UNK	0	0	726	159	152	20 84	0.00	1.77	0	
2019038	OC120202	7.05	8 1-	4 ACSR	0	0	722	158	37	5 4	0.00	1.78	0	
2019037	OC120202	7.99	17 1-	4 ACSR	0	0	584	150	115	15 11	0.35	2.12	23	
2019030	2019027	6.58	8 3-	4 ACSR	1133	1049	780	160	26	1 1	0.00	1.66	0	
SW120073-B	2019030	6.58	8 3-	Closed	1133	1049	780	160	26	1 0	0.00	1.66	0	
SW120073-A	SW120073-B	6.58	8 3-	Closed	1133	1049	780	160	26	1 0	0.00	1.66	0	
2019028	SW120073-A	6.96	8 3-	4 ACSR	1017	952	708	157	26	1 1	0.01	1.67	0	
2019029	2019028	6.97	0 3-	1/0 ACSR	1016	952	707	157	0	0 0	0.00	1.67	0	
SW120070-A	2019029	6.97	0 3-	Open	1016	952	707	157	0	0 0	0.00	1.67	0	
NEWCAP-3118F206	2019055	5.19	0 3-	Capacitor	1526	1392	1043	168	0	-14 0	0.00	1.24	0	
2018157	2018156	3.95	21 3-	1/0 ACSR	1914	1742	1333	171	140	6 3	0.01	5.66	0	
SW120076-A	2018157	3.95	0 3-	Open	1914	1742	1333	171	0	0 0	0.00	5.66	0	
2018211	2018156	4.01	8 1-	1/0 ACSR	0	0	1309	171	68	9 4	0.03	5.68	1	
SW120320-A	2018211	4.01	0 1-	Open	0	0	1309	171	0	0 0	0.00	5.68	0	
2018114	2018154	1.96	109 3-	1/0 ACSR	2947	2702	2220	175	614	28 12	0.16	3.13	78	
OC120231	2018114	1.96	78 3-	no ocr	2947	2702	2220	175	412	19 13	0.00	3.13	0	
2018183	OC120231	2.00	78 3-	1/0 ACSR	2894	2656	2175	175	412	19 8	0.01	3.14	5	

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
2018184	2018183	3.53	77 3-	1/0 ACSR	1701	1587	1238	167	409	19 8	0.30	3.44	73	
OC120232	2018184	3.53	12 1-	REC_25_UNK	0	0	1238	167	71	9 40	0.00	3.44	0	
2018185	OC120232	4.67	12 1-	4 ACSR	0	0	818	156	71	9 7	0.26	3.70	11	
OH467	2018114	2.32	0 1-	4 ACSR	0	0	1762	171	101	14 10	0.12	3.25	7	
2018210	2018225	1.10	0 1-	1/0 ACSR	0	0	3360	178	0	0 0	0.00	2.12	0	
SW120326-A	2018210	1.10	0 1-	Open	0	0	3360	178	0	0 0	0.00	2.12	0	
CKT 134 total losses:		\$36,057												
SUB 9, CKT 144														
HKPL_144	HICKORY PLAINS	0.00	502 3-	SBS_99_SBS	7135	7464	7556	180	3429	155 0	0.00	0.00	0	
2018223	HKPL_144	0.42	502 3-	336.4 ACSR	5631	5503	5239	179	3429	155 29	0.44	0.44	952	
2018138	2018223	0.75	14 3-	1/0 ACSR	4474	4250	3842	177	98	4 2	0.01	0.46	0	
2018126	2018223	0.50	471 3-	336.4 ACSR	5397	5242	4928	179	3205	145 28	0.08	0.53	170	
2018153	2018126	0.73	18 3-	1/0 ACSR	4616	4400	3993	178	128	5 3	0.02	0.55	2	
2018212	2018153	0.95	10 1-	1/0 URD PRI AL	0	0	3418	451	80	10 6	0.04	0.59	2	
2018128	2018126	0.82	439 3-	336.4 ACSR	4651	4437	4011	178	2967	135 26	0.30	0.83	561	
2018129	2018128	0.88	391 3-	336.4 ACSR	4544	4324	3887	178	2673	121 23	0.05	0.87	79	
2018165	2018129	0.94	338 3-	336.4 ACSR	4433	4209	3762	178	2385	108 21	0.04	0.92	68	
2018120	2018165	1.18	25 1-	1/0 ACSR	0	0	3141	177	171	23 10	0.07	0.98	6	
2018166	2018165	1.00	311 3-	336.4 ACSR	4320	4092	3637	178	2197	100 19	0.04	0.96	62	
2018152	2018166	1.08	66 3-	1/0 ACSR	4119	3882	3424	178	492	22 10	0.03	0.99	10	
2018192	2018152	1.12	55 1-	1/0 ACSR	0	0	3328	177	339	46 20	0.04	1.03	10	
OC120226	2018192	1.12	53 1-	50-L	0	0	3328	177	324	44 89	0.00	1.03	0	
2018191	OC120226	1.17	53 1-	1/0 ACSR	0	0	3226	177	324	44 19	0.04	1.07	10	
2018209	2018191	1.31	16 1-	1/0 ACSR	0	0	2922	176	144	19 9	0.03	1.10	2	
2018208	2018191	1.40	33 1-	1/0 ACSR	0	0	2772	176	151	20 9	0.05	1.13	4	
2018136	2018166	1.12	245 3-	336.4 ACSR	4115	3880	3403	178	1705	77 15	0.06	1.02	66	
2018151	2018136	1.26	80 3-	1/0 ACSR	3810	3565	3095	177	391	17 8	0.04	1.07	13	
2018195	2018151	1.30	72 1-	4 ACSR	0	0	2995	177	363	49 36	0.08	1.15	26	
2018201	2018195	1.33	70 1-	2 ACSR	0	0	2920	176	353	48 27	0.05	1.20	15	
2018202	2018201	1.39	69 1-	4 ACSR	0	0	2773	176	351	48 34	0.13	1.33	39	
OC120227	2018202	1.39	68 1-	REC_70_UNK	0	0	2773	176	343	47 67	0.00	1.33	0	
2018203	OC120227	1.40	68 1-	4 ACSR	0	0	2757	176	343	47 34	0.02	1.35	4	
2018204	2018203	2.04	67 1-	1/0 ACSR	0	0	1973	172	336	46 20	0.52	1.87	115	
2018206	2018204	2.22	6 1-	1/0 ACSR	0	0	1820	172	37	5 2	0.01	1.88	0	
SW120326-B	2018206	2.22	0 1-	Open	0	0	1820	172	0	0 0	0.00	1.88	0	
2018205	2018204	2.59	19 1-	1/0 ACSR	0	0	1579	170	153	21 9	0.13	2.00	10	
2018132	2018136	1.43	150 3-	1/0 ACSR	3490	3240	2786	176	1103	50 22	0.27	1.29	234	
OC120230	2018132	1.43	144 3-	100-L	3490	3240	2786	176	1073	49 49	0.00	1.29	0	
2018133	OC120230	1.45	144 3-	1/0 ACSR	3448	3198	2747	176	1073	49 21	0.02	1.31	16	
2018137	2018133	1.51	108 3-	1/0 ACSR	3349	3105	2655	176	810	37 16	0.04	1.35	24	
2018150	2018137	1.83	105 3-	1/0 ACSR	2878	2674	2232	174	781	35 16	0.13	1.48	65	
2018119	2018150	2.11	17 1-	4 ACSR	0	0	1848	171	131	17 13	0.11	1.59	9	
SW120323-B	2018119	2.11	0 1-	Open	0	0	1848	171	0	0 0	0.00	1.59	0	
2018186	2018150	2.19	16 1-	4 ACSR	0	0	1755	170	117	16 11	0.13	1.61	9	
2018118	2018137	1.52	0 1-	4 ACSR	0	0	2643	176	0	0 0	0.00	1.35	0	
SW120323-A	2018118	1.52	0 1-	Open	0	0	2643	176	0	0 0	0.00	1.35	0	
2018180	2018133	2.33	26 1-	1/0 ACSR	0	0	1779	172	165	22 10	0.23	1.54	19	
2018182	2018180	2.46	1 1-	1/0 ACSR	0	0	1693	171	2	0 0	0.00	1.54	0	
2018181	2018180	2.41	1 1-	4 ACSR	0	0	1699	171	0	0 0	0.00	1.54	0	
2018193	2018129	1.55	52 1-	1/0 ACSR	0	0	2471	175	286	39 17	0.33	1.20	51	
2018194	2018193	1.57	10 1-	4 ACSR	0	0	2438	175	30	4 3	0.00	1.20	0	

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 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
2018178	2018128	0.83	39 1-	1/0 ACSR	0	0	3992	178	215	29 13	0.00	0.83	0	0
OC120225	2018178	0.83	39 1-	REC_50_UNK	0	0	3992	178	215	29 59	0.00	0.83	0	0
2018179	OC120225	1.14	39 1-	1/0 ACSR	0	0	3161	177	215	29 13	0.10	0.93	11	11
CKT 144 total losses:		\$2,664												
SUB 9, CKT 154														
HKPL_154	HICKORY PLAINS	0.00	391 3-	SBS_99_SBS	7135	7464	7556	180	3552	161 0	0.00	0.00	0	0
1918283	HKPL_154	0.02	391 3-	350 MCM URD PRI	7099	7385	7514	478	3552	161 50	0.02	0.02	56	56
2018224	1918283	1.05	391 3-	336.4 ACSR	4258	4025	3478	178	3552	161 30	1.16	1.17	2580	2580
2017364	2018224	1.95	32 3-	336.4 ACSR	3131	2892	2348	176	195	8 2	0.03	1.21	3	3
1917265	2017364	2.16	4 1-	4 ACSR	0	0	2038	174	43	5 4	0.04	1.25	1	1
SW120239-B	1917265	2.16	1 1-	Closed	0	0	2038	174	19	2 0	0.00	1.25	0	0
SW120239-A	SW120239-B	2.16	1 1-	Closed	0	0	2038	174	19	2 0	0.00	1.25	0	0
1917127	SW120239-A	2.29	1 1-	4 ACSR	0	0	1884	172	19	2 2	0.01	1.26	0	0
SW120310-A	1917127	2.29	0 1-	Open	0	0	1884	172	0	0 0	0.00	1.26	0	0
2017221	2017364	2.03	0 3-	336.4 ACSR	3057	2820	2281	176	0	0 0	0.00	1.21	0	0
SW120238-A	2017221	2.03	0 3-	Open	3057	2820	2281	176	0	0 0	0.00	1.21	0	0
2018146	2018224	1.44	17 3-	4 ACSR	3086	2920	2426	173	89	4 3	0.03	1.21	2	2
SW120235-B	2018146	1.44	0 3-	Open	3086	2920	2426	173	0	0 0	0.00	1.21	0	0
2018142	2018224	2.26	334 3-	336.4 ACSR	3926	3684	3124	177	3198	146 28	0.22	1.39	440	440
OC120267	2018142	1.26	324 3-	100-L	3926	3684	3124	177	3154	144 145	0.00	1.39	0	0
2018143	OC120267	1.38	324 3-	336.4 ACSR	3763	3520	2958	177	3154	144 27	0.12	1.51	239	239
2018109	2018143	1.41	31 1-	4 ACSR	0	0	2892	177	219	30 22	0.04	1.55	7	7
OC120268	2018109	1.41	31 1-	50-4H	0	0	2892	177	219	30 60	0.00	1.55	0	0
2017359	OC120268	1.72	31 1-	4 ACSR	0	0	2241	173	219	30 22	0.33	1.87	51	51
2017176	2017359	1.88	15 1-	1/0 ACSR	0	0	2077	173	106	14 6	0.03	1.90	1	1
2017333	2017176	1.88	1 1-	1/0 URD PRI AL	0	0	2072	426	6	0 0	0.00	1.90	0	0
2018144	2018143	1.42	293 3-	336.4 ACSR	3715	3471	2909	177	2933	134 25	0.03	1.54	65	65
2018130	2018144	1.48	260 3-	336.4 ACSR	3629	3385	2824	177	2736	125 24	0.06	1.60	104	104
2018134	2018130	1.55	28 3-	4 ACSR	3475	3216	2685	176	363	16 12	0.04	1.64	13	13
2018145	2018134	1.58	26 3-	1/0 ACSR	3416	3157	2633	176	350	16 7	0.01	1.65	2	2
2017361	2018145	1.81	25 1-	4 ACSR	0	0	2214	173	179	24 18	0.13	1.78	13	13
SW120311-B	2017361	1.81	0 1-	Open	0	0	2214	173	0	0 0	0.00	1.78	0	0
2018131	2018130	1.57	230 3-	336.4 ACSR	3524	3280	2720	177	2363	108 20	0.07	1.67	99	99
2018175	2018131	1.58	48 1-	4 ACSR	0	0	2709	177	326	44 32	0.01	1.68	3	3
OC120270	2018175	1.58	48 1-	REC_50_UNK	0	0	2709	177	326	44 90	0.00	1.68	0	0
2018176	OC120270	2.00	48 1-	4 ACSR	0	0	1987	172	326	44 32	0.43	2.11	82	82
2018135	2018131	1.66	177 3-	336.4 ACSR	3427	3184	2626	176	2006	92 17	0.05	1.72	70	70
2018158	2018135	1.69	166 3-	336.4 ACSR	3386	3143	2587	176	1956	89 17	0.02	1.74	29	29
2017360	2018158	1.84	24 1-	4 ACSR	0	0	2330	175	130	17 13	0.06	1.80	4	4
2018159	2018158	1.75	140 3-	336.4 ACSR	3325	3083	2529	176	1821	83 16	0.03	1.78	39	39
2018160	2018159	1.79	100 3-	336.4 ACSR	3287	3045	2493	176	1481	68 13	0.02	1.80	17	17
2017363	2018160	1.90	26 1-	4 ACSR	0	0	2301	175	212	29 21	0.08	1.87	9	9
2018161	2018160	2.09	68 3-	336.4 ACSR	3010	2775	2239	176	1243	57 11	0.10	1.90	73	73
2017334	2018161	2.20	19 3-	1/0 URD PRI AL	2905	2678	2170	440	888	40 24	0.09	1.99	72	72
2017341	2017334	2.59	2 3-	1/0 URD PRI AL	2550	2353	1931	425	720	33 19	0.27	2.25	173	173
2017998	2017341	2.59	1 3-	Consumer	2550	2353	1931	425	719	33 0	0.00	2.25	0	0
2017335	2017334	2.24	15 3-	1/0 URD PRI AL	2860	2637	2140	438	167	7 5	0.01	1.99	0	0
2017217	2017335	2.30	15 3-	336.4 ACSR	2819	2596	2105	174	167	7 1	0.00	2.00	0	0
2017219	2017217	2.72	15 3-	1/0 ACSR	2382	2185	1753	172	167	7 3	0.04	2.04	5	5
2017218	2017219	2.74	2 3-	1/0 ACSR	2369	2173	1743	172	90	4 2	0.00	2.04	0	0
2017342	2017218	2.83	2 3-	1/0 URD PRI AL	2307	2118	1703	419	90	4 2	0.00	2.05	0	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
2017220	2017219	2.77	0 3-	1/0 ACSR	2344	2151	1723	172	0	0	0	0.00	2.04	0
2017362	2018159	1.97	39 1-	4 ACSR	0	0	2165	174	320	44	32	0.22	2.00	41
2018111	2018135	1.69	3 1-	4 ACSR	0	0	2558	176	16	2	2	0.00	1.72	0
SW120311-A	2018111	1.69	0 1-	Open	0	0	2558	176	0	0	0	0.00	1.72	0
2018168	2018144	1.45	33 1-	4 ACSR	0	0	2824	177	196	26	19	0.04	1.59	8
2018169	2018168	1.46	33 1-	6 ACWC	0	0	2811	177	196	26	19	0.01	1.59	1
OC120269	2018169	1.46	33 1-	REC_50_UNK	0	0	2811	177	196	26	54	0.00	1.59	0
2018174	OC120269	1.47	1 1-	4 ACSR	0	0	2786	176	3	0	0	0.00	1.59	0
2018170	OC120269	1.52	32 1-	6 ACWC	0	0	2669	176	193	26	19	0.07	1.67	12
2018171	2018170	1.60	31 1-	4 ACSR	0	0	2512	175	180	24	18	0.08	1.75	2
2018173	2018171	1.76	21 1-	4 ACSR	0	0	2221	173	120	16	12	0.06	1.81	4
2018172	2018171	1.74	5 1-	4 ACSR	0	0	2248	173	28	3	3	0.01	1.76	0
CKT 154 total losses:		\$4,330												
SUB	9, CKT 164													
HKPL_164	HICKORY PLAINS	0.00	295 3-	SBS_99_SBS	7135	7464	7556	180	2177	98	0	0.00	0.00	0
1918287	HKPL_164	0.02	295 3-	350 MCM URD PRI	7100	7388	7515	478	2177	98	31	0.01	0.01	20
1918218	1918287	0.40	295 3-	336.4 ACSR	5695	5582	5257	179	2177	98	19	0.26	0.27	348
1918219	1918218	0.94	276 3-	4/0 ACSR	4219	3999	3455	177	2034	92	27	0.50	0.77	690
1918222	1918219	0.96	262 3-	4/0 ACSR	4177	3957	3411	177	1949	89	26	0.02	0.79	25
1918232	1918222	1.24	6 3-	4/0 ACSR	3670	3439	2888	176	379	17	5	0.05	0.84	13
SW120276-B	1918232	1.24	6 3-	Closed	3670	3439	2888	176	379	17	0	0.00	0.84	0
SW120276-A	SW120276-B	1.24	6 3-	Closed	3670	3439	2888	176	379	17	0	0.00	0.84	0
1917178	SW120276-A	1.26	6 3-	4/0 ACSR	3642	3411	2860	176	379	17	5	0.00	0.84	0
1917175	1917178	1.29	3 3-	4/0 ACSR	3585	3353	2804	176	7	0	0	0.00	0.84	0
SW120279-B	1917175	1.29	3 3-	Closed	3585	3353	2804	176	7	0	0	0.00	0.84	0
SW120279-A	SW120279-B	1.29	3 3-	Closed	3585	3353	2804	176	7	0	0	0.00	0.84	0
1917176	SW120279-A	2.17	3 3-	4/0 ACSR	2603	2389	1907	174	7	0	0	0.00	0.84	0
SW120282-A	1917176	2.17	0 3-	Open	2603	2389	1907	174	0	0	0	0.00	0.84	0
1917179	1917178	1.35	2 3-	1/0 ACSR	3472	3237	2705	176	365	16	7	0.03	0.87	8
1917177	1917179	1.35	1 3-	4/0 ACSR	3469	3234	2702	176	359	16	5	0.00	0.87	0
1917993	1917177	1.35	1 3-	Consumer	3469	3234	2702	176	359	16	0	0.00	0.87	0
1918223	1918222	1.55	256 3-	4/0 ACSR	3228	2998	2464	175	1570	71	21	0.43	1.22	464
OC120309	1918223	1.55	251 3-	100-L	3228	2998	2464	175	1516	69	70	0.00	1.22	0
1918224	OC120309	3.22	251 3-	4/0 ACSR	1959	1777	1380	170	1516	69	20	1.07	2.29	1071
1918242	1918224	3.49	24 1-	4 ACSR	0	0	1227	167	209	28	21	0.18	2.47	22
1918243	1918242	3.56	0 1-	2 ACSR	0	0	1200	167	0	0	0	0.00	2.47	0
SW120312-A	1918243	3.56	0 1-	Open	0	0	1200	167	0	0	0	0.00	2.47	0
1918151	1918224	3.54	14 1-	1/0 ACSR	0	0	1254	169	85	11	5	0.04	2.33	2
1918225	1918224	3.48	169 3-	4/0 ACSR	1847	1677	1292	170	939	43	13	0.11	2.40	75
1918226	1918225	3.53	169 3-	1/0 ACSR	1820	1654	1273	169	939	43	19	0.04	2.44	30
1918279	1918226	3.55	66 1-	4 ACSR	0	0	1263	169	304	42	30	0.04	2.48	10
1918275	1918279	3.57	40 1-	4 ACSR	0	0	1250	169	127	17	13	0.02	2.50	2
1918276	1918275	3.71	39 1-	6 ACWC	0	0	1182	167	123	17	12	0.10	2.60	10
1918280	1918276	4.02	35 1-	4 ACSR	0	0	1053	164	104	14	10	0.10	2.70	6
SW120563-A	1918280	4.02	0 1-	Open	0	0	1053	164	0	0	0	0.00	2.70	0
1918292	1918279	3.61	26 1-	1/0 URD PRI AL	0	0	1243	396	177	24	14	0.04	2.52	5
1918274	1918292	4.24	17 1-	1/0 ACSR	0	0	1054	166	110	15	7	0.11	2.63	6
1918239	1918226	3.58	61 1-	2 ACSR	0	0	1249	169	392	54	30	0.09	2.53	30
1918241	1918239	3.73	13 1-	2 ACSR	0	0	1191	168	71	9	5	0.02	2.56	0
SW120312-B	1918241	3.73	0 1-	Open	0	0	1191	168	0	0	0	0.00	2.56	0
1918240	1918239	4.47	43 1-	2 ACSR	0	0	959	163	286	39	22	0.56	3.10	89

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS	
SUB 10	ALCAN 1														
SUB 10,	CKT 114		49			5588	5754	5816	180	6005					
	ALCN 114	ALCAN 1	0.00	3 3-	SBS_99_SBS	5588	5754	5816	180	3096	165	0	0.00	0.00	0
	2017207	ALCN 114	0.01	3 3-	336.4 ACSR	5570	5724	5785	180	3096	165	31	0.01	0.01	18
	2017184	2017207	0.01	0 3-	336.4 ACSR	5554	5700	5759	180	0	0	0	0.00	0.01	0
	SW120338-A	2017184	0.01	0 3-	Open	5554	5700	5759	180	0	0	0	0.00	0.01	0
	2017208	2017207	0.24	3 3-	336.4 ACSR	5000	4970	4843	179	3096	165	31	0.37	0.38	614
	SW120329-B	2017208	0.24	1 3-	Closed	5000	4970	4843	179	3090	165	0	0.00	0.38	0
	SW120329-A	SW120329-B	0.24	1 3-	Closed	5000	4970	4843	179	3090	165	0	0.00	0.38	0
	2017181	SW120329-A	0.30	1 3-	336.4 ACSR	4873	4823	4650	179	3090	165	31	0.09	0.48	155
	2017340	2017181	0.30	0 3-	1/0 URD PRI AL	4862	4815	4638	473	0	0	0	0.00	0.48	0
	SW120332-A	2017340	0.30	0 3-	Open	4862	4815	4638	473	0	0	0	0.00	0.48	0
	2017182	2017181	0.41	1 3-	336.4 ACSR	4648	4564	4320	179	3089	165	31	0.18	0.65	295
	1917267	2017182	0.75	0 3-	336.4 ACSR	4059	3912	3535	178	0	0	0	0.00	0.65	0
	SW120335-A	1917267	0.75	0 3-	Open	4059	3912	3535	178	0	0	0	0.00	0.65	0
	2017337	2017182	0.41	1 3-	4/0 URD PRI	4640	4560	4310	471	3086	165	74	0.01	0.67	32
	2017999	2017337	0.41	1 3-	Consumer	4640	4560	4310	471	3086	165	0	0.00	0.67	0
	2017338	2017337	0.42	0 3-	4/0 URD PRI	4625	4551	4292	471	0	0	0	0.00	0.67	0
	2017339	2017338	0.55	0 3-	1/0 URD PRI AL	4385	4350	4047	465	0	0	0	0.00	0.67	0
	SW120332-B	2017339	0.55	0 3-	Open	4385	4350	4047	465	0	0	0	0.00	0.67	0
CKT 114	total losses:	\$1,114													
SUB 10,	CKT 124														
	ALCN 124	ALCAN 1	0.00	46 3-	SBS_99_SBS	5588	5754	5816	180	2909	131	0	0.00	0.00	0
	2017211	ALCN 124	0.01	46 3-	336.4 ACSR	5565	5717	5777	180	2909	131	25	0.01	0.01	14
	2017212	2017211	0.02	46 3-	336.4 ACSR	5539	5676	5733	180	2909	131	25	0.01	0.02	16
	2017216	2017212	0.02	0 3-	336.4 ACSR	5525	5654	5710	180	0	0	0	0.00	0.02	0
	SW120338-B	2017216	0.02	0 3-	Open	5525	5654	5710	180	0	0	0	0.00	0.02	0
	2017213	2017212	0.31	46 3-	336.4 ACSR	4839	4787	4645	179	2909	131	25	0.27	0.28	495
	1917270	2017213	0.53	45 3-	4/0 ACSR	4333	4223	3966	179	2903	131	39	0.29	0.57	585
	1917158	1917270	0.57	43 3-	4/0 ACSR	4245	4126	3854	179	2895	135	40	0.06	0.64	122
	1917159	1917158	0.68	10 3-	4/0 ACSR	4034	3897	3594	178	2804	131	39	0.16	0.80	290
	1917160	1917159	0.73	10 3-	4/0 ACSR	3945	3801	3488	178	2802	136	40	0.08	0.88	142
	1917163	1917160	0.96	9 3-	4/0 ACSR	3573	3406	3061	177	1285	57	17	0.13	1.00	120
	1917173	1917163	1.05	1 3-	4/0 ACSR	3436	3263	2910	177	101	5	2	0.00	1.01	0
	1917174	1917173	1.07	0 3-	1/0 ACSR	3407	3232	2879	177	0	0	0	0.00	1.01	0
	1917245	1917174	1.30	0 3-	1/0 URD PRI AL	3134	2989	2648	446	0	0	0	0.00	1.01	0
	SW120377-B	1917245	1.30	0 3-	Open	3134	2989	2648	446	0	0	0	0.00	1.01	0
	1917164	1917163	0.97	8 3-	4/0 ACSR	3555	3387	3041	177	1183	53	16	0.01	1.01	5
	1917166	1917164	1.02	7 3-	4/0 ACSR	3489	3318	2968	177	702	32	9	0.01	1.01	7
	1917167	1917166	1.07	7 3-	4/0 ACSR	3412	3238	2884	177	702	31	9	0.02	1.03	7
	1917168	1917167	1.26	5 3-	336.4 ACSR	3216	3034	2661	177	594	26	5	0.03	1.06	12
	1917169	1917168	1.33	2 3-	4/0 ACSR	3134	2950	2571	177	546	24	7	0.01	1.07	6
	1917171	1917169	1.48	1 3-	336.4 ACSR	3000	2812	2425	176	508	22	4	0.02	1.09	8
	1917172	1917171	1.50	1 3-	336.4 ACSR	2987	2800	2412	176	508	27	5	0.00	1.09	0
	1917243	1917172	1.52	1 3-	1/0 URD PRI AL	2967	2782	2396	448	508	27	16	0.01	1.11	7
	1917997	1917243	1.52	1 3-	Consumer	2967	2782	2396	448	508	27	0	0.00	1.11	0
	1917244	1917243	1.52	0 3-	1/0 URD PRI AL	2963	2778	2394	448	0	0	0	0.00	1.11	0
	CA120014	1917171	1.48	0 3-	Capacitor	3000	2812	2425	176	0	-14	0	0.00	1.09	0
	1917170	1917169	1.37	0 3-	4/0 ACSR	3095	2911	2529	176	0	0	0	0.00	1.07	0
	SW120344-A	1917170	1.37	0 3-	Open	3095	2911	2529	176	0	0	0	0.00	1.07	0
	CA120011	1917166	1.02	0 3-	Capacitor	3489	3318	2968	177	0	-14	0	0.00	1.01	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES CONS	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1917165	1917164	0.99	1 3-	1/0 ACSR	3522	3352	3004	177	481	25	11	0.01	1.02	4
1917242	1917165	1.01	1 3-	1/0 URD PRI AL	3490	3324	2977	457	481	25	15	0.01	1.03	7
1917998	1917242	1.01	1 3-	Consumer	3490	3324	2977	457	481	25	0	0.00	1.03	0
1917161	1917160	0.81	1 3-	336.4 ACSR	3831	3677	3343	178	1516	81	15	0.07	0.94	53
1917162	1917161	0.83	1 3-	1/0 ACSR	3785	3628	3290	178	1515	81	35	0.04	0.98	48
1917999	1917162	0.83	1 3-	Consumer	3785	3628	3290	178	1515	81	0	0.00	0.98	0
1917241	1917162	0.85	0 3-	1/0 URD PRI AL	3763	3609	3271	461	0	0	0	0.00	0.98	0
SW120377-A	1917241	0.85	0 3-	Open	3763	3609	3271	461	0	0	0	0.00	0.98	0
CA120008	1917159	0.68	0 3-	Capacitor	4034	3897	3594	178	0	-14	0	0.00	0.80	0
1917224	1917158	1.41	32 1-	4 ACSR	0	0	1860	170	89	14	10	0.29	0.93	17
SW120378-B	1917158	0.57	0 3-	Open	4245	4126	3854	179	0	0	0	0.00	0.64	0
CA120005	1917270	0.53	0 3-	Capacitor	4333	4223	3966	179	0	-14	0	0.00	0.57	0
2017214	2017213	0.35	0 3-	336.4 ACSR	4763	4699	4535	179	0	0	0	0.00	0.28	0
SW120360-B	2017214	0.35	0 3-	Open	4763	4699	4535	179	0	0	0	0.00	0.28	0
SW120357-B	2017211	0.01	0 3-	Open	5565	5717	5777	180	0	0	0	0.00	0.01	0
CKT 124 total losses:		\$1,965												
SUB 10 total losses:		\$3,079												

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
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 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES CONS	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 11 PPG			1		5430	5581	5652	179	5300					
SUB 11, CKT 104														
PPG_104	PPG	0.00	1 3-	SBS_99_SBS	5430	5581	5652	179	5300	242	0	0.00	0.00	0
2017236	PPG_104	0.00	1 3-	336.4 ACSR	5417	5562	5631	179	5300	242	46	0.01	0.01	26
2017997	2017236	0.00	1 3-	Consumer	5417	5562	5631	179	5300	242	0	0.00	0.01	0
CKT 104 total losses:		\$26												
SUB 11 total losses:		\$26												

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY														
Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS														
Patterson & Dewar Engineers, Inc. Norcross, Georgia														
LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 12	SOUTH ELKHORN		1790			5677	5838	5907	180	11390				
SUB 12	CKT 104													
SELK_104	SOUTH ELKHORN	0.00	1042 3-	SBS_99_UNK	5677	5838	5907	180	4720	210	0	0.00	0.00	0
1414419	SELK_104	0.06	1042 3-	350 MCM URD PRI	5604	5750	5820	475	4720	210	66	0.07	0.07	293
1414315	1414419	0.31	1042 3-	336.4 ACSR	4973	4958	4783	179	4717	210	40	0.33	0.40	1081
SW101111-B	1414315	0.31	1042 3-	Closed	4973	4958	4783	179	4708	210	0	0.00	0.40	0
SW101111-A	SW101111-B	0.31	1042 3-	Closed	4973	4958	4783	179	4708	210	0	0.00	0.40	0
1414316	SW101111-A	0.65	1042 3-	336.4 ACSR	4296	4173	3829	178	4708	210	40	0.45	0.85	1479
1414461	1414316	0.85	7 1-	1/0 URD PRI AL	0	0	3399	455	67	9	5	0.03	0.88	0
SW101263-B	1414461	0.85	0 1-	Open	0	0	3399	455	0	0	0	0.00	0.88	0
1414369	1414316	1.00	5 1-	1/0 URD PRI AL	0	0	3079	447	34	4	3	0.03	0.88	0
SW101264-B	1414369	1.00	0 1-	Open	0	0	3079	447	0	0	0	0.00	0.88	0
1414317	1414316	0.82	1019 3-	336.4 ACSR	4026	3875	3486	178	4543	203	38	0.21	1.06	681
1414296	1414317	1.02	1005 3-	336.4 ACSR	3746	3574	3152	177	4467	200	38	0.24	1.31	771
1414460	1414296	1.11	2 1-	1/0 URD PRI AL	0	0	3005	455	4	0	0	0.00	1.31	0
SW101265-B	1414460	1.11	0 1-	Open	0	0	3005	455	0	0	0	0.00	1.31	0
1414472	1414296	1.09	3 1-	1/0 URD PRI AL	0	0	3041	456	9	1	1	0.00	1.31	0
SW101266-A	1414472	1.09	0 1-	Open	0	0	3041	456	0	0	0	0.00	1.31	0
1414297	1414296	1.24	976 3-	336.4 ACSR	3481	3295	2852	177	4327	194	37	0.26	1.56	793
1414459	1414297	1.88	13 1-	1/0 URD PRI AL	0	0	2099	424	82	11	7	0.11	1.67	5
SW101263-A	1414459	1.88	0 1-	Open	0	0	2099	424	0	0	0	0.00	1.67	0
1414298	1414297	1.35	939 3-	336.4 ACSR	3361	3170	2721	177	4158	187	35	0.12	1.68	372
1414471	1414298	1.41	5 1-	1/0 URD PRI AL	0	0	2651	451	12	1	1	0.00	1.69	0
SW101269-A	1414471	1.41	0 1-	Open	0	0	2651	451	0	0	0	0.00	1.69	0
1414368	1414298	1.82	25 1-	1/0 URD PRI AL	0	0	2190	430	62	8	5	0.06	1.75	2
SW101267-A	1414368	1.82	0 1-	Open	0	0	2190	430	0	0	0	0.00	1.75	0
1414299	1414298	1.40	861 3-	336.4 ACSR	3312	3120	2669	177	4023	181	34	0.05	1.74	151
1414470	1414299	1.62	19 1-	1/0 URD PRI AL	0	0	2410	442	83	11	7	0.04	1.78	2
SW101269-B	1414470	1.62	0 1-	Open	0	0	2410	442	0	0	0	0.00	1.78	0
1414300	1414299	1.41	841 3-	336.4 ACSR	3303	3111	2660	177	3936	177	33	0.01	1.74	25
1414283	1414300	1.55	407 3-	336.4 ACSR	3165	2970	2516	176	2254	101	19	0.08	1.82	140
SW101108-B	1414283	1.55	407 3-	Closed	3165	2970	2516	176	2253	101	0	0.00	1.82	0
SW101108-A	SW101108-B	1.55	407 3-	Closed	3165	2970	2516	176	2253	101	0	0.00	1.82	0
1414318	SW101108-A	1.65	407 3-	336.4 ACSR	3076	2880	2425	176	2253	101	19	0.05	1.87	97
1414384	1414318	2.07	10 1-	1/0 URD PRI AL	0	0	2033	428	76	10	6	0.07	1.94	3
SW101268-A	1414384	2.07	0 1-	Open	0	0	2033	428	0	0	0	0.00	1.94	0
1414458	1414318	2.26	35 1-	1/0 URD PRI AL	0	0	1876	419	209	28	17	0.28	2.15	35
SW101265-A	1414458	2.26	0 1-	Open	0	0	1876	419	0	0	0	0.00	2.15	0
1414271	1414318	1.68	0 3-	336.4 ACSR	3045	2848	2393	176	0	0	0	0.00	1.87	0
SW101120-A	1414271	1.68	0 3-	Closed	3045	2848	2393	176	0	0	0	0.00	1.87	0
SW101120-B	SW101120-A	1.68	0 3-	Closed	3045	2848	2393	176	0	0	0	0.00	1.87	0
1414469	1414318	2.25	29 1-	1/0 URD PRI AL	0	0	1882	420	186	25	15	0.24	2.12	27
SW101266-B	1414469	2.25	0 1-	Open	0	0	1882	420	0	0	0	0.00	2.12	0
1414319	1414318	1.71	332 3-	336.4 ACSR	3024	2827	2372	176	1779	81	15	0.03	1.91	38
1414320	1414319	1.79	251 3-	336.4 ACSR	2953	2756	2301	176	1226	56	11	0.03	1.94	26
1414269	1414320	1.92	117 3-	336.4 ACSR	2850	2653	2200	176	657	30	6	0.03	1.96	11
1414350	1414269	1.98	42 2-	2 ACSR	0	2575	2135	175	176	12	7	0.02	1.98	3
1414351	1414350	2.03	42 2-	4 ACSR	0	2485	2065	175	176	12	9	0.03	2.01	4
1414352	1414351	2.04	40 2-	1/0 ACSR	0	2478	2059	175	161	11	5	0.00	2.01	0
1414357	1414352	2.04	21 1-	1/0 ACSR	0	0	2054	175	81	11	5	0.00	2.01	0
1414270	1414269	1.99	75 3-	336.4 ACSR	2800	2603	2151	175	482	22	4	0.01	1.97	3
1414421	1414270	2.01	75 3-	1/0 URD PRI AL	2779	2583	2136	443	482	22	13	0.01	1.98	5

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1414457	1414421	2.31	8 1-	1/0 URD PRI AL	0	0	1910	428	46	6	4	0.04	2.02	0
1414356	1414457	2.34	2 1-	1/0 ACRSR	0	0	1887	173	10	1	1	0.00	2.02	0
SW101258-B	1414356	2.34	0 1-	Open	0	0	1887	173	0	0	0	0.00	2.02	0
1414468	1414421	2.25	18 1-	1/0 URD PRI AL	0	0	1954	431	121	16	10	0.06	2.05	4
SW101261-B	1414468	2.25	0 1-	Open	0	0	1954	431	0	0	0	0.00	2.05	0
1414480	1414421	2.34	9 1-	1/0 URD PRI AL	0	0	1889	427	59	8	5	0.04	2.03	1
SW101259-B	1414480	2.34	0 1-	Open	0	0	1889	427	0	0	0	0.00	2.03	0
1414456	1414421	2.25	15 1-	1/0 URD PRI AL	0	0	1956	431	95	13	8	0.05	2.03	3
SW101262-B	1414456	2.25	0 1-	Open	0	0	1956	431	0	0	0	0.00	2.03	0
1414383	1414421	2.40	25 1-	1/0 URD PRI AL	0	0	1849	424	161	22	13	0.13	2.12	13
SW101260-B	1414383	2.40	0 1-	Open	0	0	1849	424	0	0	0	0.00	2.12	0
1414321	1414320	1.83	133 3-	336.4 ACRSR	2917	2720	2266	176	569	26	5	0.01	1.95	3
1414322	1414321	1.84	131 3-	4/0 ACRSR	2912	2714	2260	176	563	25	8	0.00	1.95	0
OC101177	1414322	1.84	131 3-	REC_100_UNK	2912	2714	2260	176	563	25	26	0.00	1.95	0
1414323	OC101177	1.89	131 3-	4/0 ACRSR	2859	2662	2209	176	563	25	8	0.01	1.96	6
1414382	1414323	2.13	17 1-	1/0 URD PRI AL	0	0	2019	433	67	9	5	0.03	1.99	1
SW101257-B	1414382	2.13	0 1-	Open	0	0	2019	433	0	0	0	0.00	1.99	0
1414268	1414323	1.94	14 3-	1/0 ACRSR	2804	2606	2160	175	58	2	1	0.00	1.96	0
1414396	1414268	2.25	14 1-	1/0 URD PRI AL	0	0	1922	428	58	8	5	0.04	2.00	1
SW101254-A	1414396	2.25	0 1-	Open	0	0	1922	428	0	0	0	0.00	2.00	0
1414290	1414323	1.96	99 3-	4/0 ACRSR	2799	2603	2153	175	428	19	6	0.01	1.97	4
1414479	1414290	1.97	0 1-	1/0 URD PRI AL	0	0	2143	443	0	0	0	0.00	1.97	0
SW101256-B	1414479	1.97	0 1-	Open	0	0	2143	443	0	0	0	0.00	1.97	0
1414291	1414290	2.05	93 3-	4/0 ACRSR	2717	2522	2075	175	405	18	5	0.02	1.99	5
1414478	1414291	2.47	30 1-	1/0 URD PRI AL	0	0	1777	421	137	18	11	0.12	2.11	10
SW101256-A	1414478	2.47	0 1-	Open	0	0	1777	421	0	0	0	0.00	2.11	0
1414292	1414291	2.13	56 3-	4/0 ACRSR	2647	2453	2010	175	232	10	3	0.01	2.00	1
1414455	1414292	2.15	3 1-	1/0 URD PRI AL	0	0	2000	438	20	2	2	0.00	2.00	0
SW101255-B	1414455	2.15	0 1-	Open	0	0	2000	438	0	0	0	0.00	2.00	0
1414293	1414292	2.20	48 3-	4/0 ACRSR	2588	2395	1956	175	192	8	3	0.01	2.00	0
1414294	1414293	2.24	15 3-	4/0 ACRSR	2559	2368	1930	175	58	2	1	0.00	2.00	0
SW101119-B	1414294	2.24	15 3-	Closed	2559	2368	1930	175	58	2	0	0.00	2.00	0
SW101119-A	SW101119-B	2.24	15 3-	Closed	2559	2368	1930	175	58	2	0	0.00	2.00	0
1414295	SW101119-A	2.27	15 3-	4/0 ACRSR	2534	2343	1907	174	58	2	1	0.00	2.00	0
1414325	1414295	2.41	9 3-	4/0 ACRSR	2434	2245	1817	174	34	1	0	0.00	2.01	0
1414395	1414325	2.44	3 1-	1/0 URD PRI AL	0	0	1797	431	12	1	1	0.00	2.01	0
SW101253-B	1414395	2.44	0 1-	Open	0	0	1797	431	0	0	0	0.00	2.01	0
1414326	1414325	2.42	0 3-	4/0 ACRSR	2428	2240	1812	174	0	0	0	0.00	2.01	0
1414324	1414295	2.34	4 3-	4/0 ACRSR	2487	2297	1865	174	15	0	0	0.00	2.00	0
1414392	1414324	2.39	2 1-	1/0 URD PRI AL	0	0	1830	432	9	1	1	0.00	2.01	0
SW101254-B	1414392	2.39	0 1-	Open	0	0	1830	432	0	0	0	0.00	2.01	0
1414355	1414293	2.21	28 1-	1/0 ACRSR	0	0	1953	175	105	14	6	0.00	2.00	0
1414454	1414355	2.47	28 1-	1/0 URD PRI AL	0	0	1781	425	105	14	9	0.06	2.06	4
SW101255-A	1414454	2.47	0 1-	Open	0	0	1781	425	0	0	0	0.00	2.06	0
1414408	1414321	1.87	2 1-	1/0 URD PRI AL	0	0	2236	445	6	0	0	0.00	1.95	0
SW101257-A	1414408	1.87	0 1-	Open	0	0	2236	445	0	0	0	0.00	1.95	0
1414420	1414319	1.84	80 3-	1/0 URD PRI AL	2894	2708	2277	443	545	24	15	0.07	1.97	31
1414451	1414420	2.12	21 1-	1/0 URD PRI AL	0	0	2033	429	177	24	14	0.18	2.15	25
1414452	1414451	2.17	12 1-	1/0 URD PRI AL	0	0	1988	426	57	7	5	0.01	2.16	0
1414361	1414452	2.18	0 1-	1/0 ACRSR	0	0	1983	173	0	0	0	0.00	2.16	0
SW101258-A	1414361	2.18	0 1-	Open	0	0	1983	173	0	0	0	0.00	2.16	0
1414453	1414452	2.56	11 1-	1/0 URD PRI AL	0	0	1704	409	53	7	4	0.04	2.21	1

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW101262-A	1414453	2.56	0 1-	Open	0	0	1704	409	0	0	0.00	2.21	0	
1414998	1414451	2.12	1 1-	Consumer	0	0	2033	429	68	9	0.00	2.15	0	
1414412	1414420	2.52	34 1-	1/0 URD PRI AL	0	0	1733	411	202	27	16	0.29	2.26	35
SW101260-A	1414412	2.52	0 1-	Open	0	0	1733	411	0	0	0.00	2.26	0	
1414487	1414420	1.96	18 1-	2 URD PRI AL	0	0	2127	434	111	15	13	0.07	2.05	7
1414488	1414487	2.17	15 1-	1/0 URD PRI AL	0	0	1951	424	94	12	8	0.07	2.12	5
1414490	1414488	2.49	10 1-	1/0 URD PRI AL	0	0	1721	410	61	8	5	0.04	2.16	2
SW101261-A	1414490	2.49	0 1-	Open	0	0	1721	410	0	0	0.00	2.16	0	
1414489	1414488	2.18	0 1-	1/0 URD PRI AL	0	0	1948	424	0	0	0.00	2.12	0	
SW101259-A	1414489	2.18	0 1-	Open	0	0	1948	424	0	0	0.00	2.12	0	
NEWCAP-8E3394E4	1414318	1.65	0 3-	Capacitor	3076	2880	2425	176	0	-14	0	0.00	1.87	0
1414301	1414300	1.45	433 3-	336.4 ACSCR	3264	3071	2619	177	1681	76	14	0.02	1.76	22
1414280	1414301	1.52	53 3-	336.4 ACSCR	3195	3001	2547	176	175	7	2	0.00	1.77	0
1414450	1414280	1.53	0 1-	1/0 URD PRI AL	0	0	2530	451	0	0	0.00	1.77	0	
SW101270-A	1414450	1.53	0 1-	Open	0	0	2530	451	0	0	0.00	1.77	0	
1414281	1414280	1.64	8 3-	336.4 ACSCR	3082	2885	2430	176	24	1	0	0.00	1.77	0
1414486	1414281	1.71	0 1-	1/0 URD PRI AL	0	0	2363	446	0	0	0.00	1.77	0	
SW101271-A	1414486	1.71	0 1-	Open	0	0	2363	446	0	0	0.00	1.77	0	
1414411	1414281	1.72	4 1-	1/0 URD PRI AL	0	0	2347	445	15	2	1	0.00	1.77	0
SW101272-A	1414411	1.72	0 1-	Open	0	0	2347	445	0	0	0.00	1.77	0	
1414282	1414281	1.68	2 3-	336.4 ACSCR	3043	2846	2391	176	5	0	0	0.00	1.77	0
1414449	1414282	1.72	2 1-	1/0 URD PRI AL	0	0	2357	447	5	0	0	0.00	1.77	0
SW101273-B	1414449	1.72	0 1-	Open	0	0	2357	447	0	0	0.00	1.77	0	
1414302	1414301	1.59	380 3-	336.4 ACSCR	3127	2931	2476	176	1506	68	13	0.07	1.83	66
OC101178	1414302	1.59	376 3-	REC_99_UNK	3127	2931	2476	176	1491	68	0	0.00	1.83	0
1414303	OC101178	1.66	376 3-	336.4 ACSCR	3062	2865	2410	176	1491	68	13	0.03	1.86	33
1414279	1414303	1.68	0 3-	336.4 ACSCR	3043	2846	2391	176	0	0	0.00	1.86	0	
SW-211660960-A	1414279	1.68	0 3-	Open	3043	2846	2391	176	0	0	0.00	1.86	0	
1414304	1414303	1.80	376 3-	336.4 ACSCR	2942	2744	2290	176	1491	68	13	0.06	1.93	64
1414306	1414304	1.90	292 3-	4/0 ACSCR	2843	2646	2195	176	1183	54	16	0.05	1.98	44
1414406	1414306	2.33	31 1-	1/0 URD PRI AL	0	0	1864	424	145	19	12	0.18	2.16	19
1414410	1414406	2.34	0 1-	1/0 URD PRI AL	0	0	1860	423	0	0	0.00	2.16	0	
SW101251-B	1414410	2.34	0 1-	Open	0	0	1860	423	0	0	0.00	2.16	0	
1414407	1414406	2.63	12 1-	1/0 URD PRI AL	0	0	1667	410	55	7	4	0.04	2.20	1
SW101253-A	1414407	2.63	0 1-	Open	0	0	1667	410	0	0	0.00	2.20	0	
1414448	1414306	2.26	40 1-	1/0 URD PRI AL	0	0	1916	427	148	20	12	0.11	2.09	10
SW101249-A	1414448	2.26	0 1-	Open	0	0	1916	427	0	0	0.00	2.09	0	
1414485	1414306	2.68	49 1-	1/0 URD PRI AL	0	0	1640	408	197	27	16	0.33	2.31	38
SW101250-B	1414485	2.68	0 1-	Open	0	0	1640	408	0	0	0.00	2.31	0	
1414307	1414306	1.97	163 3-	4/0 ACSCR	2784	2588	2138	175	645	29	9	0.02	2.00	8
1414394	1414307	2.32	24 1-	1/0 URD PRI AL	0	0	1873	426	102	13	8	0.08	2.08	5
SW101272-B	1414394	2.32	0 1-	Open	0	0	1873	426	0	0	0.00	2.08	0	
1414430	1414307	2.41	45 1-	1/0 URD PRI AL	0	0	1809	421	185	25	15	0.18	2.18	20
SW101271-B	1414430	2.41	0 1-	Open	0	0	1809	421	0	0	0.00	2.18	0	
1414364	1414307	2.08	42 2-	4/0 ACSCR	0	2484	2044	175	165	11	3	0.01	2.01	2
1414360	1414364	2.12	33 1-	1/0 ACSCR	0	0	2014	175	131	17	8	0.01	2.03	1
1414447	1414360	2.79	33 1-	1/0 URD PRI AL	0	0	1587	408	131	17	11	0.19	2.22	15
SW101273-A	1414447	2.79	0 1-	Open	0	0	1587	408	0	0	0.00	2.22	0	
1414365	1414364	2.12	3 2-	4/0 ACSCR	0	2450	2012	175	6	0	0	0.00	2.01	0
SW101118-A	1414365	2.12	0 2-	Closed	0	2450	2012	175	0	0	0	0.00	2.01	0
SW101118-B	SW101118-A	2.12	0 2-	Closed	0	2450	2012	175	0	0	0	0.00	2.01	0
1414445	1414307	1.99	47 1-	1/0 URD PRI AL	0	0	2120	442	170	23	14	0.02	2.02	3

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1414446	1414445	2.43	47 1-	1/0 URD PRI AL	0	0	1800	421	170	23	14	0.16	2.17	16
SW101270-B	1414446	2.43	0 1-	Open	0	0	1800	421	0	0	0	0.00	2.17	0
1414305	1414304	2.15	80 3-	336.4 ACSR	2683	2487	2040	175	302	13	3	0.03	1.95	5
1414444	1414305	2.16	0 1-	1/0 URD PRI AL	0	0	2032	440	0	0	0	0.00	1.95	0
SW101249-B	1414444	2.16	0 1-	Open	0	0	2032	440	0	0	0	0.00	1.95	0
1414387	1414305	2.35	37 1-	1/0 URD PRI AL	0	0	1905	431	146	20	12	0.09	2.04	10
1414393	1414387	2.48	11 1-	1/0 URD PRI AL	0	0	1817	425	35	4	3	0.01	2.05	0
SW101252-A	1414393	2.48	0 1-	Open	0	0	1817	425	0	0	0	0.00	2.05	0
1414390	1414387	2.48	11 1-	1/0 URD PRI AL	0	0	1812	425	38	5	3	0.01	2.06	0
1414405	1414390	2.53	0 1-	1/0 URD PRI AL	0	0	1785	423	0	0	0	0.00	2.06	0
SW101251-A	1414405	2.53	0 1-	Open	0	0	1785	423	0	0	0	0.00	2.06	0
1414391	1414390	2.49	0 1-	1/0 URD PRI AL	0	0	1809	425	0	0	0	0.00	2.06	0
SW101252-B	1414391	2.49	0 1-	Open	0	0	1809	425	0	0	0	0.00	2.06	0
1414429	1414305	2.27	14 1-	1/0 URD PRI AL	0	0	1958	435	52	7	4	0.01	1.97	0
SW101250-A	1414429	2.27	0 1-	Open	0	0	1958	435	0	0	0	0.00	1.97	0
1414389	1414296	1.20	11 1-	1/0 URD PRI AL	0	0	2875	450	41	5	3	0.02	1.33	0
1414386	1414389	1.21	2 1-	1/0 URD PRI AL	0	0	2857	450	8	1	1	0.00	1.33	0
SW101267-B	1414386	1.21	0 1-	Open	0	0	2857	450	0	0	0	0.00	1.33	0
1414385	1414389	1.24	2 1-	1/0 URD PRI AL	0	0	2809	448	15	2	1	0.00	1.33	0
SW101268-B	1414385	1.24	0 1-	Open	0	0	2809	448	0	0	0	0.00	1.33	0
1414349	1414317	0.84	8 2-	1/0 ACSR	0	3836	3446	178	44	2	1	0.00	1.06	0
1414381	1414349	0.91	1 1-	1/0 URD PRI AL	0	0	3315	458	7	0	1	0.00	1.07	0
SW101264-A	1414381	0.91	0 1-	Open	0	0	3315	458	0	0	0	0.00	1.07	0
CKT 104 total losses:		\$6,591												
SUB 12, CKT 114														
SELK_114	SOUTH ELKHORN	0.00	323 3-	SBS_99_UNK	5677	5838	5907	180	3075	138	0	0.00	0.00	0
1414272	SELK_114	0.01	323 3-	336.4 ACSR	5645	5788	5853	180	3075	138	26	0.01	0.01	21
1414422	1414272	0.06	323 3-	4/0 URD PRI AL	5553	5692	5718	474	3075	138	62	0.07	0.08	176
1414273	1414422	0.19	323 3-	336.4 ACSR	5211	5254	5145	179	3074	138	26	0.12	0.20	245
1414423	1414273	0.19	323 3-	500 MCM URD PRI	5210	5253	5144	472	3071	138	36	0.00	0.20	1
SW1050464891-B	1414423	0.19	323 3-	Closed	5210	5253	5144	472	3071	138	0	0.00	0.20	0
SW1050464891-A	SW1050464891-B	0.19	323 3-	Closed	5210	5253	5144	472	3071	138	0	0.00	0.20	0
1414274	SW1050464891-A	0.32	323 3-	336.4 ACSR	4901	4879	4688	179	3071	138	26	0.12	0.33	249
SW-479158970-B	1414274	0.32	323 3-	Closed	4901	4879	4688	179	3069	138	0	0.00	0.33	0
SW-479158970-A	SW-479158970-B	0.32	323 3-	Closed	4901	4879	4688	179	3069	138	0	0.00	0.33	0
1414275	SW-479158970-A	0.32	323 3-	336.4 ACSR	4897	4874	4681	179	3069	138	26	0.00	0.33	4
SW2058468913-B	1414275	0.32	323 3-	Closed	4897	4874	4681	179	3069	138	0	0.00	0.33	0
SW2058468913-A	SW2058468913-B	0.32	323 3-	Closed	4897	4874	4681	179	3069	138	0	0.00	0.33	0
1414276	SW2058468913-A	0.35	323 3-	336.4 ACSR	4832	4796	4585	179	3069	138	26	0.03	0.36	56
1414477	1414276	0.60	0 1-	1/0 URD PRI AL	0	0	3835	456	0	0	0	0.00	0.36	0
SW20508999-A	1414477	0.60	0 1-	Open	0	0	3835	456	0	0	0	0.00	0.36	0
1414441	1414276	0.86	0 1-	1/0 URD PRI AL	0	0	3183	443	0	0	0	0.00	0.36	0
SW583968019-B	1414441	0.86	0 1-	Open	0	0	3183	443	0	0	0	0.00	0.36	0
SW-1540355862-B	1414276	0.35	323 3-	Closed	4832	4796	4585	179	3069	138	0	0.00	0.36	0
SW-1540355862-A	SW-1540355862-B	0.35	323 3-	Closed	4832	4796	4585	179	3069	138	0	0.00	0.36	0
1414327	SW-1540355862-A	0.53	323 3-	336.4 ACSR	4485	4391	4090	178	3069	138	26	0.16	0.52	328
1414388	1414327	0.79	2 1-	1/0 URD PRI AL	0	0	3449	453	19	2	2	0.01	0.53	0
SW-751777516-A	1414388	0.79	0 1-	Open	0	0	3449	453	0	0	0	0.00	0.53	0
1414328	1414327	0.58	321 3-	336.4 ACSR	4383	4275	3952	178	3047	138	26	0.05	0.57	104
1414424	1414328	0.59	321 3-	500 MCM URD PRI	4382	4273	3951	466	3046	138	36	0.00	0.58	3
SW-2027811387-B	1414424	0.59	321 3-	Closed	4382	4273	3951	466	3046	138	0	0.00	0.58	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE	PRIOR	MILES	PHS	WIRE	MX 3P	MX LIG	MX LG	MN LG	TOTAL	EQUIV	%	LINE	TOTAL	LINE
SECT	SECT	CONS	CONSTR-N	FAULT	FAULT	FAULT	FAULT	KW	AMPS	CAP	DROP	DROP	LOSS	
SW-2027811387-A	SW-2027811387-B	0.59	321 3-	Closed	4382	4273	3951	466	3046	138	0	0.00	0.58	0
1414425	SW-2027811387-A	0.80	321 3-	500 MCM URD PRI	4227	4133	3830	464	3046	138	36	0.17	0.75	432
SW2085818649-B	1414425	0.80	321 3-	Closed	4227	4133	3830	464	3042	138	0	0.00	0.75	0
SW2085818649-A	SW2085818649-B	0.80	321 3-	Closed	4227	4133	3830	464	3042	138	0	0.00	0.75	0
1414426	SW2085818649-A	0.80	321 3-	500 MCM URD PRI	4226	4132	3829	464	3042	138	36	0.00	0.75	5
1414373	1414426	1.22	2 1-	1/0 URD PRI AL	0	0	2936	442	19	2	2	0.02	0.76	0
SW-751777516-B	1414373	1.22	0 1-	Open	0	0	2936	442	0	0	0	0.00	0.76	0
SW548407501-B	1414426	0.80	319 3-	Closed	4226	4132	3829	464	3023	137	0	0.00	0.75	0
SW548407501-A	SW548407501-B	0.80	319 3-	Closed	4226	4132	3829	464	3023	137	0	0.00	0.75	0
1414329	SW548407501-A	0.81	319 3-	336.4 ACSR	4206	4110	3803	178	3023	137	26	0.01	0.76	21
1414372	1414329	1.41	14 1-	1/0 URD PRI AL	0	0	2613	433	115	15	9	0.15	0.90	10
SW210-A	1414372	1.41	0 1-	Open	0	0	2613	433	0	0	0	0.00	0.90	0
1414440	1414329	1.24	2 1-	1/0 URD PRI AL	0	0	2898	441	21	2	2	0.02	0.78	0
SW209-A	1414440	1.24	0 1-	Open	0	0	2898	441	0	0	0	0.00	0.78	0
SW208-B	1414440	1.24	0 1-	Open	0	0	2898	441	0	0	0	0.00	0.78	0
1414330	1414329	0.93	303 3-	336.4 ACSR	4020	3898	3558	178	2887	131	25	0.10	0.86	183
1414371	1414330	1.38	15 1-	1/0 URD PRI AL	0	0	2716	438	142	19	11	0.14	0.99	11
SW214-B	1414371	1.38	0 1-	Open	0	0	2716	438	0	0	0	0.00	0.99	0
1414331	1414330	1.13	254 3-	336.4 ACSR	3735	3583	3204	177	2479	112	21	0.15	1.01	242
1414376	1414331	1.17	0 1-	1/0 URD PRI AL	0	0	3141	456	0	0	0	0.00	1.01	0
SW214-A	1414376	1.17	0 1-	Open	0	0	3141	456	0	0	0	0.00	1.01	0
1414332	1414331	1.29	241 3-	336.4 ACSR	3539	3372	2973	177	2375	107	20	0.11	1.12	173
1414333	1414332	1.30	228 3-	336.4 ACSR	3524	3356	2956	177	2251	102	19	0.01	1.13	13
1414334	1414333	1.37	228 3-	336.4 ACSR	3444	3271	2864	177	2251	102	19	0.05	1.18	70
SW129-B	1414334	1.37	225 3-	Closed	3444	3271	2864	177	2191	99	0	0.00	1.18	0
SW129-A	SW129-B	1.37	225 3-	Closed	3444	3271	2864	177	2191	99	0	0.00	1.18	0
1414335	SW129-A	1.41	225 3-	336.4 ACSR	3402	3227	2817	177	2191	99	19	0.03	1.20	37
1414339	1414335	1.50	159 3-	336.4 ACSR	3309	3130	2714	177	1757	79	15	0.05	1.25	54
1414359	1414339	1.54	1 1-	1/0 ACSR	0	0	2655	176	9	1	1	0.00	1.25	0
1414439	1414359	1.59	1 1-	1/0 URD PRI AL	0	0	2597	449	9	1	1	0.00	1.25	0
SW215-A	1414439	1.59	0 1-	Open	0	0	2597	449	0	0	0	0.00	1.25	0
1414340	1414339	1.55	156 3-	336.4 ACSR	3260	3079	2661	176	1736	79	15	0.03	1.28	29
1414341	1414340	1.61	134 3-	336.4 ACSR	3200	3016	2596	176	1525	69	13	0.03	1.30	29
1414367	1414341	1.65	2 1-	1/0 ACSR	0	0	2526	176	4	0	0	0.00	1.31	0
1414476	1414367	1.67	2 1-	1/0 URD PRI AL	0	0	2510	448	4	0	0	0.00	1.31	0
SW217-A	1414476	1.67	0 1-	Open	0	0	2510	448	0	0	0	0.00	1.31	0
1414358	1414341	1.64	17 1-	1/0 ACSR	0	0	2549	176	134	18	8	0.01	1.32	1
1414467	1414358	1.95	14 1-	1/0 URD PRI AL	0	0	2223	434	114	15	9	0.07	1.39	5
SW216-B	1414467	1.95	0 1-	Open	0	0	2223	434	0	0	0	0.00	1.39	0
1414466	1414358	1.67	3 1-	1/0 URD PRI AL	0	0	2519	448	20	2	2	0.00	1.32	0
SW216-A	1414466	1.67	0 1-	Open	0	0	2519	448	0	0	0	0.00	1.32	0
1414284	1414341	1.73	115 3-	336.4 ACSR	3087	2900	2475	176	1387	63	12	0.05	1.36	48
1414475	1414284	2.10	13 1-	1/0 URD PRI AL	0	0	2110	430	82	11	7	0.06	1.42	3
SW204-B	1414475	2.10	0 1-	Open	0	0	2110	430	0	0	0	0.00	1.42	0
1414474	1414284	1.79	2 1-	1/0 URD PRI AL	0	0	2413	446	10	1	1	0.00	1.36	0
SW204-A	1414474	1.79	0 1-	Open	0	0	2413	446	0	0	0	0.00	1.36	0
1414285	1414284	2.00	100 3-	336.4 ACSR	2863	2673	2246	176	1295	59	11	0.10	1.46	89
1414344	1414285	2.10	41 3-	336.4 ACSR	2786	2595	2168	175	339	15	3	0.01	1.47	2
SW14-B	1414344	2.10	40 3-	Closed	2786	2595	2168	175	332	15	0	0.00	1.47	0
SW14-A	SW14-B	2.10	40 3-	Closed	2786	2595	2168	175	332	15	0	0.00	1.47	0
1414345	SW14-A	2.27	40 3-	336.4 ACSR	2671	2480	2057	175	332	15	3	0.01	1.48	2
1414346	1414345	2.33	7 3-	336.4 ACSR	2630	2439	2017	175	45	2	0	0.00	1.48	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 12, CKT 124														
SELK_124	SOUTH ELKHORN	0.00	335 3-	SBS_99_UNK	5677	5838	5907	180	2712	122	0	0.00	0.00	0
1414308	SELK_124	0.37	335 3-	336.4 ACSR	4768	4684	4509	179	2712	122	23	0.31	0.31	543
1414484	1414308	0.89	1 1-	1/0 URD PRI AL	0	0	3131	443	0	0	0	0.00	0.31	0
SW20509899-B	1414484	0.89	0 1-	Open	0	0	3131	443	0	0	0	0.00	0.31	0
1414309	1414308	1.02	334 3-	336.4 ACSR	3711	3532	3061	177	2708	122	23	0.54	0.85	937
1414310	1414309	1.06	321 3-	1/0 ACSR	3645	3461	2992	177	2658	120	53	0.08	0.92	161
SW101181-B	1414310	1.06	321 3-	Closed	3645	3461	2992	177	2656	120	0	0.00	0.92	0
SW101181-A	SW101181-B	1.06	321 3-	Closed	3645	3461	2992	177	2656	120	0	0.00	0.92	0
1414311	SW101181-A	1.26	321 3-	1/0 ACSR	3290	3090	2639	176	2656	120	53	0.44	1.36	937
1414267	1414311	1.50	314 3-	1/0 ACSR	2955	2747	2324	175	2581	117	51	0.47	1.83	962
1413068	1414267	1.94	267 3-	1/0 ACSR	2464	2277	1891	173	2218	101	44	0.75	2.58	1331
1413105	1413068	2.27	19 1-	1/0 URD PRI AL	0	0	1675	411	82	11	7	0.10	2.68	7
MTP109791	1413105	2.27	18 3-	Node	2104	1984	1675	411	61	8	0	0.00	2.69	0
1413107	MTP109791	2.38	18 3-	1/0 URD PRI AL	2034	1916	1623	407	184	8	5	0.02	2.71	2
1413106	1413107	3.06	17 1-	1/0 URD PRI AL	0	0	1294	380	106	14	9	0.16	2.85	10
SW101244-B	1413106	3.06	0 1-	Open	0	0	1294	380	0	0	0	0.00	2.85	0
1413120	1413068	2.24	1 1-	1/0 URD PRI AL	0	0	1691	412	70	9	6	0.09	2.67	5
SW101247-A	1413120	2.24	0 1-	Closed	0	0	1691	412	61	8	0	0.00	2.67	0
SW101247-B	SW101247-A	2.24	0 1-	Closed	0	0	1691	412	61	8	0	0.00	2.67	0
1413119	SW101247-B	2.27	0 1-	1/0 URD PRI AL	0	0	1674	411	61	8	5	0.01	2.67	0
1413110	1413068	2.11	10 1-	1/0 URD PRI AL	0	0	1773	418	142	19	12	0.10	2.68	13
1413112	1413110	2.37	7 1-	1/0 URD PRI AL	0	0	1615	407	60	8	5	0.03	2.72	1
SW101246-B	1413112	2.37	0 1-	Open	0	0	1615	407	0	0	0	0.00	2.72	0
1413111	1413110	2.27	2 1-	1/0 URD PRI AL	0	0	1674	411	80	10	6	0.05	2.73	3
1413069	1413068	2.05	220 3-	1/0 ACSR	2361	2185	1804	172	1762	81	35	0.16	2.74	230
1413070	1413069	2.27	199 3-	1/0 ACSR	2182	2023	1654	171	1583	72	32	0.28	3.02	365
1413118	1413070	2.90	9 1-	1/0 URD PRI AL	0	0	1347	389	61	8	5	0.08	3.10	3
1413104	1413070	3.56	29 1-	1/0 URD PRI AL	0	0	1115	364	252	34	21	0.70	3.72	106
SW101244-A	1413104	3.56	0 1-	Open	0	0	1115	364	0	0	0	0.00	3.72	0
1413071	1413070	2.48	161 3-	1/0 ACSR	2034	1890	1533	170	1266	58	25	0.21	3.23	219
1413074	1413071	2.51	80 3-	1/0 ACSR	2015	1872	1517	170	635	29	13	0.02	3.24	8
OC101224	1413074	2.51	80 3-	REC_70_UNK	2015	1872	1517	170	635	29	42	0.00	3.24	0
1413075	OC101224	3.14	80 3-	1/0 ACSR	1672	1562	1244	167	635	29	13	0.28	3.52	134
1413083	1413075	3.19	16 1-	1/0 ACSR	0	0	1224	167	164	22	10	0.03	3.55	3
1413109	1413083	3.49	14 1-	1/0 URD PRI AL	0	0	1133	376	141	19	12	0.10	3.65	10
1413084	1413109	3.64	3 1-	1/0 ACSR	0	0	1091	164	21	2	1	0.00	3.66	0
SW101182-B	1413084	3.64	0 1-	Open	0	0	1091	164	0	0	0	0.00	3.66	0
1413076	1413075	3.24	42 3-	1/0 ACSR	1627	1520	1208	166	309	14	6	0.03	3.55	7
1413077	1413076	3.30	4 3-	1/0 ACSR	1601	1497	1188	166	25	1	1	0.00	3.55	0
1413091	1413077	3.42	2 1-	4 ACSR	0	0	1131	165	18	2	2	0.01	3.56	0
1413115	1413076	3.25	35 1-	1/0 URD PRI AL	0	0	1207	385	283	39	23	0.01	3.56	2
OC101225	1413115	3.25	35 1-	REC_35_UNK	0	0	1207	385	283	39	113	0.00	3.56	0
1413108	OC101225	3.54	35 1-	1/0 URD PRI AL	0	0	1119	374	283	39	23	0.28	3.84	62
1413086	1413108	3.61	26 1-	1/0 ACSR	0	0	1100	164	159	22	10	0.03	3.87	4
1413082	1413086	3.65	0 1-	1/0 ACSR	0	0	1087	164	0	0	0	0.00	3.87	0
SW101182-A	1413082	3.65	0 1-	Open	0	0	1087	164	0	0	0	0.00	3.87	0
1413087	1413086	4.25	24 1-	1/0 ACSR	0	0	944	161	145	20	9	0.21	4.08	20
SW101219-B	1413087	4.25	15 1-	Closed	0	0	944	161	66	9	0	0.00	4.08	0
SW101219-A	SW101219-B	4.25	15 1-	Closed	0	0	944	161	66	9	0	0.00	4.08	0
1413081	SW101219-A	4.88	15 1-	1/0 ACSR	0	0	829	158	66	9	4	0.06	4.14	2
1413072	1413071	2.55	77 3-	1/0 ACSR	1990	1851	1498	170	618	28	12	0.03	3.26	17

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Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1413073	1413072	2.60	12 3-	1/0 ACSR	1959	1823	1473	170	81	3	2	0.00	3.26	0
1413061	1413073	2.63	2 1-	4 ACSR	0	0	1450	169	11	1	1	0.00	3.26	0
1413099	1413072	2.55	42 1-	2 ACSR	0	0	1494	170	321	44	25	0.01	3.27	2
OC101220	1413099	2.55	42 1-	REC_50_UNK	0	0	1494	170	321	44	89	0.00	3.27	0
1413100	OC101220	3.13	42 1-	2 ACSR	0	0	1206	166	321	44	25	0.58	3.85	127
1413101	1413100	3.21	16 1-	4 ACSR	0	0	1166	165	137	19	14	0.07	3.92	8
1413090	1413101	3.31	3 1-	2 ACSR	0	0	1129	164	24	3	2	0.01	3.92	0
1413102	1413101	3.23	13 1-	1/0 ACSR	0	0	1161	165	113	15	7	0.01	3.92	0
1413088	1413102	3.46	9 1-	4 ACSR	0	0	1060	163	88	12	9	0.10	4.02	7
1413117	1413088	3.76	4 1-	1/0 URD PRI AL	0	0	986	355	49	6	4	0.04	4.06	1
1413089	1413117	3.81	1 1-	2 ACSR	0	0	972	160	14	1	1	0.00	4.06	0
1413097	1413072	2.55	20 1-	4 ACSR	0	0	1493	170	203	28	20	0.01	3.27	1
OC101221	1413097	2.55	20 1-	REC_50_UNK	0	0	1493	170	203	28	56	0.00	3.27	0
1413098	OC101221	3.19	20 1-	4 ACSR	0	0	1118	163	203	28	20	0.41	3.68	49
1413085	1413069	2.47	20 1-	1/0 ACSR	0	0	1540	170	177	24	11	0.21	2.95	28
1413114	1413085	3.08	13 1-	1/0 URD PRI AL	0	0	1277	384	156	21	13	0.21	3.16	19
1413080	1414267	1.86	33 1-	4 ACSR	0	0	1819	171	213	29	21	0.26	2.09	33
1413113	1413080	1.96	3 1-	1/0 URD PRI AL	0	0	1750	412	17	2	1	0.00	2.09	0
SW101246-A	1413113	1.96	0 1-	Open	0	0	1750	412	0	0	0	0.00	2.09	0
1414353	1414311	1.29	4 1-	1/0 ACSR	0	0	2606	176	38	5	2	0.00	1.36	0
1414437	1414353	1.44	4 1-	1/0 URD PRI AL	0	0	2427	441	38	5	3	0.02	1.39	0
1414414	1414437	2.40	3 1-	1/0 URD PRI AL	0	0	1605	398	38	5	3	0.08	1.47	2
SW101245-B	1414414	2.40	0 1-	Open	0	0	1605	398	0	0	0	0.00	1.47	0
1414438	1414437	1.45	0 1-	1/0 URD PRI AL	0	0	2410	440	0	0	0	0.00	1.39	0
SW101245-A	1414438	1.45	0 1-	Open	0	0	2410	440	0	0	0	0.00	1.39	0
CKT 124 total losses:		\$6,381												
SUB 12, CKT 134														
SELK_134	SOUTH ELKHORN	0.00	90 3-	SBS_99_UNK	5677	5838	5907	180	883	39	0	0.00	0.00	0
1414261	SELK_134	0.98	90 3-	336.4 ACSR	3764	3579	3162	178	883	39	8	0.26	0.26	151
SW101228-B	1414261	0.98	90 3-	Closed	3764	3579	3162	178	882	39	0	0.00	0.26	0
SW101228-A	SW101228-B	0.98	90 3-	Closed	3764	3579	3162	178	882	39	0	0.00	0.26	0
1414262	SW101228-A	1.30	90 3-	336.4 ACSR	3384	3185	2739	177	882	39	8	0.09	0.35	49
1414264	1414262	1.66	89 3-	336.4 ACSR	3041	2837	2383	176	872	39	7	0.09	0.44	53
1414265	1414264	1.77	61 3-	336.4 ACSR	2944	2741	2287	176	669	30	6	0.02	0.46	10
1414266	1414265	1.85	60 3-	336.4 ACSR	2884	2681	2228	176	620	28	5	0.01	0.48	6
OC1885028253	1414266	1.85	60 3-	_DefaultBayEqui	2884	2681	2228	176	620	28	0	0.00	0.48	0
1414312	OC1885028253	1.91	60 3-	336.4 ACSR	2838	2635	2183	176	620	28	5	0.01	0.49	5
1413124	1414312	2.11	5 1-	4 ACSR	0	0	1924	173	13	1	1	0.01	0.50	0
1414313	1414312	2.02	53 3-	336.4 ACSR	2754	2552	2102	175	607	27	5	0.02	0.51	8
1414428	1414313	3.19	12 1-	1/0 URD PRI AL	0	0	1396	391	152	20	12	0.37	0.88	34
SW1481789196-B	1414428	3.19	0 1-	Open	0	0	1396	391	0	0	0	0.00	0.88	0
1413125	1414313	2.09	35 3-	336.4 ACSR	2706	2505	2057	175	381	17	3	0.01	0.52	2
1413078	1413125	2.13	31 3-	336.4 ACSR	2680	2480	2033	175	376	17	3	0.00	0.52	0
1413062	1413078	2.14	30 1-	1/0 ACSR	0	0	2019	175	376	51	22	0.02	0.54	5
1413103	1413062	3.04	30 1-	1/0 URD PRI AL	0	0	1482	400	376	51	30	0.71	1.25	158
SW101243-B	1413103	3.04	0 1-	Open	0	0	1482	400	0	0	0	0.00	1.25	0
1413079	1413078	2.20	1 3-	336.4 ACSR	2630	2430	1986	175	0	0	0	0.00	0.52	0
SW101059-B	1413079	2.20	0 3-	Open	2630	2430	1986	175	0	0	0	0.00	0.52	0
1414443	1414265	1.85	1 1-	1/0 URD PRI AL	0	0	2222	444	49	6	4	0.01	0.47	0
1414246	1414264	1.81	22 1-	1/0 ACSR	0	0	2213	175	181	24	11	0.08	0.52	11
1414378	1414246	1.81	20 1-	1/0 URD PRI AL	0	0	2208	443	151	20	12	0.00	0.53	0

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 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES CONS	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1414380	1414378	2.51	17 1-	1/0 URD PRI AL	0	0	1686	410	135	18	11	0.20	0.73	16
SW101242-B	1414380	2.51	0 1-	Open	0	0	1686	410	0	0	0	0.00	0.73	0
1414379	1414378	1.84	3 1-	1/0 URD PRI AL	0	0	2184	442	16	2	1	0.00	0.53	0
SW101242-A	1414379	1.84	0 1-	Open	0	0	2184	442	0	0	0	0.00	0.53	0
1413126	1414246	2.15	2 1-	1/0 URD PRI AL	0	0	1931	427	30	4	2	0.02	0.54	0
SW101243-A	1413126	2.15	0 1-	Open	0	0	1931	427	0	0	0	0.00	0.54	0
1414263	1414262	1.35	0 3-	336.4 ACSR	3328	3128	2679	177	0	0	0	0.00	0.35	0
SW-1680131353-B	1414263	1.35	0 3-	Open	3328	3128	2679	177	0	0	0	0.00	0.35	0
CKT 134 total losses:		\$508												
SUB 12 total losses:		\$16,284												

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 13 CROOKSVILLE			1719		5055	5360	5417	180	10585					
SUB 13, CRT 114														
CRKV_114	CROOKSVILLE	0.00	631 3-	SBS_99_SBS	5055	5360	5417	180	3631	164	0	0.00	0.00	0
1918207	CRKV_114	0.03	631 3-	336.4 ACSR	4997	5255	5309	180	3631	164	31	0.03	0.03	67
1918185	1918207	0.05	0 3-	336.4 ACSR	4954	5178	5230	180	0	0	0	0.00	0.03	0
SW120557-B	1918185	0.05	0 3-	Open	4954	5178	5230	180	0	0	0	0.00	0.03	0
1918208	1918207	0.87	631 3-	336.4 ACSR	3606	3467	3174	178	3630	164	31	0.94	0.97	2213
1919092	1918208	0.88	13 1-	1/0 ACSR	0	0	3162	178	77	10	5	0.00	0.97	0
OC120422	1919092	0.88	13 1-	REC_25_UNK	0	0	3162	178	77	10	41	0.00	0.97	0
1919093	OC120422	0.95	13 1-	1/0 ACSR	0	0	3030	177	77	10	5	0.01	0.98	0
1919090	1919093	1.45	10 1-	6 ACWC	0	0	2052	172	54	7	5	0.15	1.13	7
1919091	1919090	2.27	7 1-	4 ACSR	0	0	1269	164	48	6	5	0.12	1.25	3
1919083	1918208	1.25	614 3-	336.4 ACSR	3206	3042	2691	177	3526	160	30	0.40	1.37	931
1919108	1919083	1.29	32 1-	4 ACSR	0	0	2602	177	213	28	21	0.06	1.43	11
1919109	1919108	1.30	32 1-	1/0 ACSR	0	0	2593	177	213	28	13	0.00	1.43	0
OC120423	1919109	1.30	32 1-	50-L	0	0	2593	177	213	28	58	0.00	1.43	0
1919118	OC120423	1.35	19 1-	1/0 ACSR	0	0	2526	176	137	18	8	0.01	1.44	0
1919117	OC120423	1.69	13 1-	4 ACSR	0	0	1964	172	76	10	7	0.09	1.52	4
1919084	1919083	2.87	582 3-	336.4 ACSR	2155	1985	1613	174	3306	150	28	1.61	2.98	3560
1819044	1919084	3.02	350 3-	1/0 ACSR	2060	1890	1534	173	1792	82	36	0.19	3.17	274
1819045	1819044	3.24	315 3-	1/0 ACSR	1930	1767	1428	172	1517	69	30	0.26	3.43	320
OC120432	1819045	3.24	302 3-	REC_70_UNK	1930	1767	1428	172	1442	66	95	0.00	3.43	0
1819046	OC120432	3.55	302 3-	1/0 ACSR	1772	1627	1302	170	1442	66	29	0.33	3.76	391
1819048	1819046	4.62	281 3-	1/0 ACSR	1364	1264	989	165	1315	60	26	1.06	4.82	1127
1819052	1819048	4.67	69 3-	1/0 ACSR	1349	1251	978	165	342	15	7	0.01	4.83	4
OC120435	1819052	4.67	69 3-	REC_35_UNK	1349	1251	978	165	342	15	46	0.00	4.83	0
1919124	OC120435	6.08	69 3-	1/0 ACSR	1032	964	743	158	342	15	7	0.36	5.19	101
1919075	1919124	6.28	54 3-	1/0 ACSR	998	933	718	157	257	11	5	0.04	5.24	9
1919063	1919075	6.29	14 1-	4 ACSR	0	0	717	157	52	7	5	0.00	5.24	0
1919064	1919063	7.13	13 1-	1/0 ACSR	0	0	629	154	44	6	3	0.08	5.32	2
1819042	1919064	8.06	6 1-	4 ACSR	0	0	519	146	21	2	2	0.06	5.38	0
1919107	1919075	7.07	40 1-	1/0 ACSR	0	0	635	154	204	28	12	0.24	5.48	27
1919115	1919124	6.08	5 1-	6 ACWC	0	0	742	158	48	6	5	0.00	5.20	0
OC120436	1919115	6.08	5 1-	REC_35_UNK	0	0	742	158	48	6	19	0.00	5.20	0
1919116	OC120436	7.44	5 1-	6 ACWC	0	0	547	146	48	6	5	0.20	5.40	6
1819049	1819048	5.32	169 3-	1/0 ACSR	1183	1101	854	162	818	38	17	0.43	5.25	290
1819050	1819049	5.84	127 3-	1/0 ACSR	1076	1004	775	159	588	27	12	0.23	5.48	110
1819051	1819050	6.00	33 3-	1/0 ACSR	1046	977	753	159	163	7	3	0.02	5.50	3
1819079	1819051	6.00	31 1-	1/0 ACSR	0	0	752	159	153	21	9	0.00	5.50	0
OC120437	1819079	6.00	31 1-	REC_25_UNK	0	0	752	159	153	21	86	0.00	5.50	0
1819080	OC120437	6.03	31 1-	1/0 ACSR	0	0	749	158	153	21	9	0.01	5.52	2
1819082	1819080	7.46	31 1-	4 ACSR	0	0	541	146	153	21	15	0.69	6.21	64
1819064	1819050	6.34	80 3-	1/0 ACSR	988	924	711	157	358	16	7	0.14	5.62	43
1819065	1819064	6.48	79 3-	1/0 ACSR	966	904	695	156	347	16	7	0.04	5.66	11
1819059	1819065	6.53	31 1-	1/0 ACSR	0	0	690	156	130	18	8	0.02	5.68	2
1819069	1819059	6.55	31 1-	2 ACSR	0	0	687	156	130	18	10	0.01	5.69	1
1819070	1819069	7.30	30 1-	1/0 ACSR	0	0	613	153	130	18	8	0.27	5.96	27
1819071	1819070	7.69	18 1-	2 ACSR	0	0	575	150	104	14	8	0.09	6.05	6
1819060	1819071	8.09	2 1-	4 ACSR	0	0	531	147	3	0	0	0.00	6.05	0
1819066	1819065	6.71	48 1-	1/0 ACSR	0	0	670	155	217	30	13	0.15	5.81	27
OC120438	1819066	6.71	48 1-	REC_35_UNK	0	0	670	155	216	30	87	0.00	5.81	0
1819067	OC120438	6.74	48 1-	1/0 ACSR	0	0	667	155	216	30	13	0.02	5.84	4

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1819068	1819067	8.25	47 1-	4 ACSR	0	0	489	143	215	30	22	1.58	7.42	261
1820005	1819068	8.95	7 1-	4 ACSR	0	0	433	137	19	2	2	0.04	7.46	0
1820006	1819068	8.66	16 1-	4 ACSR	0	0	455	139	96	13	10	0.20	7.63	16
OC120439	1820006	8.66	10 1-	REC_15_UNK	0	0	455	139	61	8	59	0.00	7.63	0
1820004	OC120439	9.65	10 1-	4 ACSR	0	0	388	132	61	8	6	0.20	7.82	7
1819062	1819049	5.65	26 1-	2 ACSR	0	0	792	159	149	20	12	0.15	5.40	16
1819063	1819062	6.38	10 1-	4 ACSR	0	0	658	153	62	8	6	0.14	5.55	5
1819047	1819046	3.61	0 3-	4/0 ACSR	1749	1607	1284	170	0	0	0	0.00	3.76	0
SW120382-A	1819047	3.61	0 3-	Open2	1749	1607	1284	170	0	0	0	0.00	3.76	0
1819061	1819044	3.19	4 1-	4 ACSR	0	0	1421	171	17	2	2	0.01	3.18	0
1819054	1919084	2.93	227 3-	1/0 ACSR	2113	1943	1578	173	1460	67	29	0.07	3.05	88
OC120426	1819054	2.93	227 3-	REC_70_UNK	2113	1943	1578	173	1459	67	29	0.00	3.05	0
1819055	OC120426	7.29	227 3-	1/0 ACSR	855	803	614	153	1459	67	96	3.53	6.58	3462
OC120429	1819055	7.29	95 3-	REC_35_UNK	855	803	614	153	584	27	79	0.00	6.58	0
1819056	OC120429	7.33	95 3-	1/0 ACSR	851	799	611	153	584	27	12	0.02	6.60	8
1819043	1819056	7.81	49 3-	1/0 ACSR	797	749	572	151	351	16	7	0.12	6.72	32
1819081	1819043	8.28	35 1-	4 ACSR	0	0	522	147	247	35	25	0.38	7.10	59
1819078	1819081	8.83	4 1-	6 ACWC	0	0	473	142	12	1	1	0.02	7.12	0
1819072	1819056	8.85	46 2-	1/0 ACSR	0	654	502	146	233	16	7	0.43	7.03	78
1819074	1819072	8.86	22 1-	4 ACSR	0	0	502	146	123	17	13	0.00	7.03	0
SW120420-A	1819074	8.86	22 1-	Closed	0	0	502	146	123	17	0	0.00	7.03	0
SW120420-B	SW120420-A	8.86	22 1-	Closed	0	0	502	146	123	17	0	0.00	7.03	0
1819075	SW120420-B	9.03	22 1-	4 ACSR	0	0	487	145	123	17	13	0.12	7.16	13
1819076	1819075	9.15	18 1-	6 ACWC	0	0	477	144	100	14	10	0.06	7.22	5
1819077	1819076	9.61	12 1-	4 ACSR	0	0	442	140	67	9	7	0.10	7.32	4
1819073	1819072	8.91	16 2-	1/0 ACSR	0	650	499	146	56	3	2	0.00	7.03	0
1819057	1819073	8.91	16 1-	4 ACSR	0	0	498	146	56	7	6	0.00	7.04	0
SW120421-A	1819057	8.91	16 1-	Closed	0	0	498	146	56	7	0	0.00	7.04	0
SW120421-B	SW120421-A	8.91	16 1-	Closed	0	0	498	146	56	7	0	0.00	7.04	0
1819058	SW120421-B	9.00	16 1-	4 ACSR	0	0	490	145	56	7	6	0.02	7.05	0
CKT 114 total losses:		\$13,701												
SUB 13, CKT 124														
CKRV_124	CROOKSVILLE	0.00	729 3-	SBS_99_SBS	5055	5360	5417	180	4499	203	0	0.00	0.00	0
1918190	CKRV_124	0.91	729 3-	336.4 ACSR	3561	3419	3118	178	4499	203	38	1.22	1.22	358
1918237	1918190	0.96	63 3-	1/0 ACSR	3475	3326	3018	178	570	25	11	0.02	1.24	11
OC120504	1918237	0.96	63 3-	no ocr	3475	3326	3018	178	570	25	17	0.00	1.24	0
1918238	OC120504	1.66	63 3-	1/0 ACSR	2571	2394	2075	174	570	25	11	0.15	1.39	48
1918191	1918190	1.47	644 3-	336.4 ACSR	3009	2837	2468	177	3758	170	32	0.61	1.83	1481
1918177	1918191	1.49	558 3-	336.4 ACSR	2989	2817	2447	177	3108	142	27	0.02	1.85	45
SW120443-A	1918177	1.49	558 3-	Closed	2989	2817	2447	177	3108	142	0	0.00	1.85	0
SW120443-B	SW120443-A	1.49	558 3-	Closed	2989	2817	2447	177	3108	142	0	0.00	1.85	0
1918178	SW120443-B	3.58	558 3-	336.4 ACSR	1882	1722	1371	172	3108	142	27	1.81	3.66	3622
1919069	1918178	3.64	482 3-	4/0 ACSR	1858	1699	1350	172	2624	121	36	0.07	3.73	135
SW120446-A	1919069	3.64	482 3-	Closed	1858	1699	1350	172	2623	121	0	0.00	3.73	0
SW120446-B	SW120446-A	3.64	482 3-	Closed	1858	1699	1350	172	2623	121	0	0.00	3.73	0
1919070	SW120446-B	3.65	482 3-	4/0 ACSR	1857	1698	1349	172	2623	121	36	0.00	3.73	6
RG120006	1919070	3.65	482 3-	219	1857	1698	1349	172	2623	121	55	-3.73	0.00	0
1919066	RG120006	3.68	482 3-	4/0 ACSR	1843	1685	1338	172	2623	117	35	0.04	0.04	70
1919068	1919066	3.73	482 3-	4/0 ACSR	1823	1666	1321	172	2622	117	35	0.06	0.09	110
1919079	1919068	3.81	209 3-	1/0 ACSR	1784	1628	1291	171	1271	57	25	0.08	0.17	82
OC120507	1919079	3.81	209 3-	REC_70_UNK	1784	1628	1291	171	1271	57	82	0.00	0.17	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1919073	OC120507	4.73	209 3-	1/0 ACSR	1427	1312	1021	167	1271	57	25	0.87	1.04	883
1919074	1919073	5.45	196 3-	1/0 ACSR	1229	1136	876	163	1094	49	21	0.55	1.60	471
1919065	1919074	5.48	84 3-	1/0 ACSR	1221	1129	870	163	449	20	9	0.01	1.61	4
OC120509	1919065	5.48	83 3-	REC_50_UNK	1221	1129	870	163	440	19	13	0.00	1.61	0
1919061	OC120509	6.94	83 3-	1/0 ACSR	949	885	674	156	440	19	9	0.28	1.89	72
1919062	1919061	7.14	8 1-	2 ACSR	0	0	650	155	56	7	4	0.02	1.91	0
1919080	1919074	6.24	77 3-	1/0 ACSR	1063	988	756	159	461	20	9	0.26	1.86	97
1919081	1919080	6.80	35 3-	1/0 ACSR	970	904	690	157	222	10	4	0.08	1.94	12
1919085	1919081	6.84	6 1-	2 ACSR	0	0	683	157	34	4	3	0.00	1.94	0
1919086	1919085	7.19	1 1-	1/0 ACSR	0	0	648	155	0	0	0	0.00	1.94	0
1919082	1919081	7.17	16 3-	1/0 ACSR	916	854	651	155	100	4	2	0.01	1.95	0
SW120382-B	1919082	7.17	0 3-	Open	916	854	651	155	0	0	0	0.00	1.95	0
1919087	1919080	6.25	33 1-	2 ACSR	0	0	754	159	181	24	14	0.01	1.87	1
OC120510	1919087	6.25	33 1-	35-H	0	0	754	159	181	24	71	0.00	1.87	0
1919088	OC120510	7.61	33 1-	2 ACSR	0	0	587	151	181	24	14	0.85	2.72	114
1919089	1919088	7.68	21 1-	4 ACSR	0	0	578	150	115	15	11	0.03	2.75	2
1919102	1919073	4.78	0 1-	1/0 ACSR	0	0	1009	166	89	11	5	0.01	1.06	0
OC120508	1919102	4.78	0 1-	REC_35_UNK	0	0	1009	166	89	11	34	0.00	1.06	0
OH466	OC120508	5.25	0 1-	1/0 ACSR	0	0	912	164	89	11	5	0.06	1.12	3
1919071	1919068	3.82	273 3-	1/0 ACSR	1779	1623	1287	171	1350	60	26	0.10	0.19	105
OC120513	1919071	3.82	273 3-	REC_70_UNK	1779	1623	1287	171	1349	60	87	0.00	0.19	0
1919072	OC120513	4.40	273 3-	1/0 ACSR	1539	1410	1104	168	1349	60	26	0.59	0.78	644
1919101	1919072	4.48	54 1-	1/0 ACSR	0	0	1084	168	219	29	13	0.05	0.83	8
SW120450-A	1919101	4.48	53 1-	Closed	0	0	1084	168	211	28	0	0.00	0.83	0
SW120450-B	SW120450-A	4.48	53 1-	Closed	0	0	1084	168	211	28	0	0.00	0.83	0
1919104	SW120450-B	4.51	53 1-	1/0 ACSR	0	0	1076	168	211	28	12	0.02	0.85	3
1919105	1919104	4.57	4 1-	2 ACSR	0	0	1057	167	15	1	1	0.00	0.85	0
1919103	1919104	5.54	49 1-	1/0 ACSR	0	0	861	163	196	26	12	0.29	1.14	30
1919076	1919072	4.51	215 3-	1/0 ACSR	1501	1377	1076	168	1080	48	21	0.09	0.87	76
1919098	1919076	4.57	20 1-	6 ACWC	0	0	1054	167	109	14	11	0.04	0.91	4
OC120514	1919098	4.57	20 1-	REC_35_UNK	0	0	1054	167	109	14	42	0.00	0.91	0
1919099	OC120514	4.78	20 1-	6 ACWC	0	0	983	165	109	14	11	0.08	0.99	6
1919100	1919099	5.38	4 1-	4 ACSR	0	0	818	159	19	2	2	0.03	1.02	0
1919077	1919076	4.71	191 3-	1/0 ACSR	1436	1320	1027	167	938	42	18	0.14	1.01	105
1919096	1919077	5.14	92 3-	1/0 ACSR	1307	1205	933	165	454	20	9	0.12	1.12	38
1919097	1919096	6.79	49 3-	1/0 ACSR	971	904	690	157	253	11	5	0.16	1.28	22
1919078	1919077	6.89	94 3-	1/0 ACSR	956	890	679	157	442	19	9	0.51	1.52	147
1919106	1919078	6.90	40 1-	2 ACSR	0	0	678	156	165	22	12	0.00	1.52	0
OC120515	1919106	6.90	40 1-	REC_25_UNK	0	0	678	156	165	22	90	0.00	1.52	0
1919094	OC120515	7.40	40 1-	2 ACSR	0	0	620	153	165	22	12	0.33	1.85	44
1919095	1919094	8.18	33 1-	4 ACSR	0	0	529	147	149	20	14	0.36	2.21	31
1919067	1919066	3.71	0 3-	4/0 ACSR	1832	1675	1329	172	0	0	0	0.00	0.04	0
SW120449-B	1919067	3.71	0 3-	Open	1832	1675	1329	172	0	0	0	0.00	0.04	0
1918192	1918191	1.55	46 3-	1/0 ACSR	2904	2729	2363	176	358	16	7	0.02	1.85	7
1918270	1918192	2.13	45 3-	336.4 ACSR	2512	2335	1973	175	357	16	3	0.03	1.88	5
SW120440-A	1918270	2.13	0 3-	Closed	2512	2335	1973	175	0	0	0	0.00	1.88	0
SW120440-B	SW120440-A	2.13	0 3-	Closed	2512	2335	1973	175	0	0	0	0.00	1.88	0
1918272	SW120440-B	2.27	0 3-	336.4 ACSR	2427	2251	1883	175	0	0	0	0.00	1.88	0

CKT 124 total losses: \$12,102

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 14	SOUTH JESSAMINE		1812											
NEWCKT1	SOUTH JESSAMINE	0.00	25 3-	_DefaultBayEqui	5935	6279	6360	180	20863					
OH473	NEWCKT1	2.16	25 3-	336.4 ACSR	2716	2518	2137	176	6372	305 58	5.40	5.40	19579	
1614196	OH473	2.36	25 3-	336.4 ACSR	2583	2387	2010	175	6204	305 58	0.49	5.90	1836	
1614217	1614196	2.42	25 3-	336.4 ACSR	2550	2355	1979	175	6188	310 59	0.14	6.03	494	
SW100917-B	1614217	2.42	25 3-	Closed	2550	2355	1979	175	6184	310 0	0.00	6.03	0	
SW100917-A	SW100917-B	2.42	25 3-	Closed	2550	2355	1979	175	6184	310 0	0.00	6.03	0	
1614218	SW100917-A	2.64	25 3-	4/0 ACSR	2388	2199	1826	174	6184	310 91	0.81	6.84	3329	
1614200	1614218	2.72	2 3-	4/0 ACSR	2339	2151	1780	174	37	1 1	0.00	6.85	0	
SW100932-B	1614200	2.72	2 3-	Closed	2339	2151	1780	174	37	1 0	0.00	6.85	0	
SW100932-A	SW100932-B	2.72	2 3-	Closed	2339	2151	1780	174	37	1 0	0.00	6.85	0	
1614201	SW100932-A	2.79	2 3-	4/0 ACSR	2294	2108	1739	174	37	1 1	0.00	6.85	0	
1614202	1614201	2.79	0 3-	336.4 ACSR	2291	2105	1736	174	0	0 0	0.00	6.85	0	
SW100924-A	1614202	2.79	0 3-	Closed	2291	2105	1736	174	0	0 0	0.00	6.85	0	
SW100924-B	SW100924-A	2.79	0 3-	Closed	2291	2105	1736	174	0	0 0	0.00	6.85	0	
1614229	1614218	2.65	19 3-	336.4 ACSR	2385	2196	1823	174	6037	304 57	0.01	6.86	52	
SW100935-B	1614229	2.65	19 3-	Closed	2385	2196	1823	174	6037	304 0	0.00	6.86	0	
SW100935-A	SW100935-B	2.65	19 3-	Closed	2385	2196	1823	174	6037	304 0	0.00	6.86	0	
1614230	SW100935-A	2.77	19 3-	336.4 ACSR	2321	2134	1763	174	6037	304 57	0.31	7.16	1090	
1614243	1614230	2.78	1 3-	336.4 ACSR	2317	2129	1758	174	3456	177 33	0.01	7.18	29	
OC100964	1614243	2.78	1 3-	REC_99_VWE	2317	2129	1758	174	3456	177 0	0.00	7.18	0	
1614244	OC100964	2.79	1 3-	336.4 ACSR	2309	2122	1751	174	3456	177 33	0.02	7.20	46	
1614245	1614244	2.83	0 3-	336.4 ACSR	2288	2102	1732	174	0	0 0	0.00	7.20	0	
1614247	1614245	3.03	0 3-	336.4 ACSR	2194	2011	1645	174	0	0 0	0.00	7.20	0	
1614248	1614247	3.04	0 3-	1/0 ACSR	2190	2007	1642	174	0	0 0	0.00	7.20	0	
1614285	1614248	3.04	0 3-	350 MCM URD PRI	2189	2006	1641	428	0	0 0	0.00	7.20	0	
SW100927-B	1614285	3.04	0 3-	Closed	2189	2006	1641	428	0	0 0	0.00	7.20	0	
SW100927-A	SW100927-B	3.04	0 3-	Closed	2189	2006	1641	428	0	0 0	0.00	7.20	0	
1614286	SW100927-A	3.06	0 3-	350 MCM URD PRI	2185	2003	1638	428	0	0 0	0.00	7.20	0	
1614246	1614245	2.84	0 3-	336.4 ACSR	2284	2098	1728	174	0	0 0	0.00	7.20	0	
SW100930-A	1614246	2.84	0 3-	Closed	2284	2098	1728	174	0	0 0	0.00	7.20	0	
SW100930-B	SW100930-A	2.84	0 3-	Closed	2284	2098	1728	174	0	0 0	0.00	7.20	0	
1614996	1614244	2.79	1 3-	Consumer	2309	2122	1751	174	3455	177 0	0.00	7.20	0	
1614235	1614230	2.80	15 3-	336.4 ACSR	2308	2121	1750	174	522	26 5	0.01	7.17	2	
SW100921-B	1614235	2.80	15 3-	Closed	2308	2121	1750	174	522	26 0	0.00	7.17	0	
SW100921-A	SW100921-B	2.80	15 3-	Closed	2308	2121	1750	174	522	26 0	0.00	7.17	0	
1614236	SW100921-A	2.84	15 3-	336.4 ACSR	2285	2099	1729	174	522	26 5	0.01	7.18	3	
1614238	1614236	2.85	12 3-	336.4 ACSR	2279	2093	1723	174	191	9 2	0.00	7.18	0	
1614241	1614238	2.86	11 3-	1/0 ACSR	2271	2085	1717	174	191	9 4	0.00	7.18	0	
OC100963	1614241	2.86	11 3-	REC_70_UNK	2271	2085	1717	174	191	9 14	0.00	7.18	0	
1614242	OC100963	3.06	11 3-	1/0 ACSR	2130	1958	1599	173	191	9 4	0.02	7.20	2	
1614239	1614238	2.96	1 3-	336.4 ACSR	2228	2044	1676	174	0	0 0	0.00	7.18	0	
1614240	1614239	2.99	1 3-	4 ACSR	2202	2022	1655	173	0	0 0	0.00	7.18	0	
1614237	1614236	2.85	1 3-	1/0 ACSR	2277	2091	1722	174	328	16 7	0.00	7.18	0	
1614284	1614237	2.88	1 3-	350 MCM URD PRI	2269	2085	1717	431	328	16 5	0.00	7.19	0	
1614997	1614284	2.88	1 3-	Consumer	2269	2085	1717	431	328	16 0	0.00	7.19	0	
GL2	1614230	2.77	0 3-	Consumer	2321	2134	1763	174	1981	97 0	0.00	7.16	0	
CA100041	1614196	2.36	0 3-	Capacitor	2583	2387	2010	175	0	-13 0	0.00	5.90	0	

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
NEWCKT2	SOUTH JESSAMINE	0.00	326 3-	_DefaultBayEqui	5935	6279	6360	180	3326	149 0	0.00	0.00	0.00	0
OH476	NEWCKT2	0.47	326 3-	336.4 ACSR	4739	4645	4472	179	3326	149 28	0.45	0.45	1017	
1614275	OH476	0.54	15 1-	1/0 ACSR	0	0	4222	179	105	15 7	0.03	0.48	2	
OC100612	1614275	0.54	15 1-	70-L	0	0	4222	179	105	15 22	0.00	0.48	0	
1614279	OC100612	1.19	15 1-	1/0 ACSR	0	0	2645	175	105	15 7	0.13	0.60	6	
OH479	OH476	0.58	311 3-	336.4 ACSR	4528	4408	4185	179	3213	144 27	0.10	0.55	217	
1614258	OH479	0.58	25 1-	1/0 ACSR	0	0	4164	179	173	25 11	0.00	0.55	0	
OC100613	1614258	0.58	25 1-	70-L	0	0	4164	179	173	25 36	0.00	0.55	0	
1614259	OC100613	1.24	25 1-	1/0 ACSR	0	0	2623	175	173	25 11	0.21	0.76	17	
OH480	OH479	1.99	286 3-	336.4 ACSR	2838	2639	2255	176	3038	136 26	1.17	1.72	2545	
1614155	OH480	2.07	224 3-	336.4 ACSR	2783	2584	2198	176	2060	92 17	0.04	1.76	62	
SW100770-A	1614155	2.07	224 3-	Closed	2783	2584	2198	176	2060	92 0	0.00	1.76	0	
SW100770-B	SW100770-A	2.07	224 3-	Closed	2783	2584	2198	176	2060	92 0	0.00	1.76	0	
1614156	SW100770-B	2.62	224 3-	336.4 ACSR	2433	2241	1855	175	2060	92 17	0.28	2.04	457	
OC1846818361	1614156	2.62	224 3-	OCR_100_UNK	2433	2241	1855	175	2056	92 92	0.00	2.04	0	
1614157	OC1846818361	2.63	224 3-	336.4 ACSR	2423	2231	1845	175	2056	92 17	0.01	2.05	16	
RG-984448214	1614157	2.63	224 3-	219	2423	2231	1845	175	2056	92 42	-2.05	0.00	0	
1614158	RG-984448214	2.67	224 3-	336.4 ACSR	2404	2213	1828	175	2056	90 17	0.02	0.00	27	
1614161	1614158	2.83	165 3-	336.4 ACSR	2322	2133	1751	174	1571	69 13	0.05	0.07	70	
NEWCAP-7D3BF425	1614161	2.83	0 3-	Capacitor	2322	2133	1751	174	0	-14 0	0.00	0.07	0	
1614148	1614161	3.02	24 1-	1/0 ACSR	0	0	1630	173	243	33 14	0.07	0.14	9	
1614281	1614148	3.04	0 1-	1/0 URD PRI AL	0	0	1621	425	0	0 0	0.00	0.14	0	
SW100968-A	1614281	3.04	0 1-	Open	0	0	1621	425	0	0 0	0.00	0.14	0	
1614164	1614161	2.88	62 3-	336.4 ACSR	2293	2105	1724	174	603	27 5	0.01	0.08	4	
1614165	1614164	2.99	35 3-	336.4 ACSR	2242	2056	1677	174	349	15 3	0.01	0.09	2	
1614253	1614165	3.14	21 1-	1/0 ACSR	0	0	1588	173	216	29 13	0.09	0.18	13	
1614254	1614253	3.16	14 1-	4 ACSR	0	0	1576	173	154	20 15	0.01	0.19	0	
1614255	1614254	3.21	6 1-	1/0 ACSR	0	0	1548	173	53	7 3	0.00	0.19	0	
1614166	1614165	3.13	4 3-	336.4 ACSR	2176	1993	1618	174	35	1 0	0.00	0.09	0	
1614270	1614166	3.04	20 1-	1/0 ACSR	0	0	1626	173	178	24 11	0.05	0.13	5	
1614290	1614270	3.07	4 1-	1/0 URD PRI AL	0	0	1615	425	24	3 2	0.00	0.13	0	
SW100967-A	1614290	3.07	0 1-	Open	0	0	1615	425	0	0 0	0.00	0.13	0	
1614162	1614161	3.34	75 3-	336.4 ACSR	2087	1907	1538	173	661	30 6	0.09	0.16	32	
1614163	1614162	3.43	4 3-	336.4 ACSR	2052	1874	1508	173	36	1 0	0.00	0.16	0	
1614250	1614162	3.38	44 1-	1/0 ACSR	0	0	1520	173	369	50 22	0.04	0.20	11	
OC100772	1614250	3.38	44 1-	REC_50_UNK	0	0	1520	173	369	50 101	0.00	0.20	0	
1614251	OC100772	3.64	44 1-	1/0 ACSR	0	0	1396	172	369	50 22	0.21	0.40	45	
1614252	1614251	3.96	18 1-	4 ACSR	0	0	1225	168	131	17 13	0.13	0.53	10	
1614159	1614158	2.88	57 3-	1/0 ACSR	2238	2057	1686	173	456	20 9	0.06	0.08	21	
1614289	1614159	3.12	22 1-	1/0 URD PRI AL	0	0	1566	417	148	20 12	0.08	0.16	7	
SW100967-B	1614289	3.12	0 1-	Open	0	0	1566	417	0	0 0	0.00	0.16	0	
1614160	1614159	2.97	21 3-	1/0 ACSR	2173	1999	1633	173	161	7 3	0.01	0.09	1	
1614280	1614160	3.18	19 1-	1/0 URD PRI AL	0	0	1531	415	148	20 12	0.07	0.16	6	
SW100968-B	1614280	3.18	0 1-	Open	0	0	1531	415	0	0 0	0.00	0.16	0	
1614154	OH480	2.12	62 3-	4/0 ACSR	2720	2522	2136	176	956	44 13	0.06	1.78	39	
SW100730-B	1614154	2.12	0 3-	Open	2720	2522	2136	176	0	0 0	0.00	1.78	0	
1614153	1614154	2.71	62 3-	4/0 ACSR	2289	2104	1729	174	956	44 13	0.25	2.03	159	
1614152	1614153	3.28	38 3-	4/0 ACSR	1979	1807	1455	172	839	38 11	0.20	2.22	106	
1614282	1614152	3.39	1 3-	350 MCM URD PRI	1958	1791	1440	415	622	28 9	0.02	2.24	10	
1614999	1614282	3.39	1 3-	Consumer	1958	1791	1440	415	622	28 0	0.00	2.24	0	

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 14, CKT 124														
SJES_124	SOUTH JESSAMINE	0.00	5 3-	SBS_99_UNK	5935	6279	6360	180	42	2	0	0.00	0.00	0
1615084	SJES_124	0.45	5 3-	336.4 ACSR	4789	4696	4478	179	42	2	0	0.00	0.00	0
CKT 124 total losses:		\$0												
SUB 14, CKT 134														
SJES_134	SOUTH JESSAMINE	0.00	498 3-	SBS_99_UNK	5935	6279	6360	180	2855	129	0	0.00	0.00	0
1615080	SJES_134	0.52	498 3-	336.4 ACSR	4633	4519	4257	179	2855	129	24	0.47	0.47	847
1615096	1615080	0.61	13 1-	1/0 ACSR	0	0	3970	178	14	2	1	0.00	0.48	0
OC100713	1615096	0.61	13 1-	35-L	0	0	3970	178	14	2	6	0.00	0.48	0
1615097	OC100713	0.94	13 1-	1/0 ACSR	0	0	3098	177	14	2	1	0.01	0.48	0
1615081	1615080	0.71	480 3-	336.4 ACSR	4301	4150	3812	178	2805	127	24	0.16	0.63	288
SW100644-B	1615081	0.71	480 3-	Closed	4301	4150	3812	178	2802	127	0	0.00	0.63	0
SW100644-A	SW100644-B	0.71	480 3-	Closed	4301	4150	3812	178	2802	127	0	0.00	0.63	0
1615078	SW100644-A	1.72	480 3-	336.4 ACSR	3063	2857	2403	176	2802	127	24	0.86	1.49	1527
1615085	1615078	1.83	320 3-	336.4 ACSR	2970	2764	2310	176	1812	81	15	0.05	1.54	69
SW100654-B	1615085	1.83	318 3-	Closed	2970	2764	2310	176	1790	80	0	0.00	1.54	0
SW100654-A	SW100654-B	1.83	318 3-	Closed	2970	2764	2310	176	1790	80	0	0.00	1.54	0
1615086	SW100654-A	3.33	318 3-	336.4 ACSR	2090	1908	1506	173	1790	80	15	0.54	2.08	719
NEWCAP-9C4EF6ED	1615086	3.33	0 3-	Capacitor	2090	1908	1506	173	0	-14	0	0.00	2.08	0
1615087	1615086	3.41	174 3-	1/0 ACSR	2043	1862	1470	172	960	43	19	0.05	2.13	44
OC100721	1615087	3.41	174 3-	100-L	2043	1862	1470	172	960	43	43	0.00	2.13	0
1615088	OC100721	3.77	174 3-	1/0 ACSR	1841	1682	1317	171	960	43	19	0.25	2.39	208
1615089	1615088	4.84	140 3-	1/0 ACSR	1407	1300	999	165	771	34	15	0.53	2.92	365
1715071	1615089	6.06	28 3-	336.4 ACSR	1209	1114	841	163	153	7	1	0.04	2.96	2
SW100471-B	1715071	6.06	0 3-	Open	1209	1114	841	163	0	0	0	0.00	2.96	0
1715068	1615089	5.12	97 3-	1/0 ACSR	1324	1226	939	164	539	24	11	0.08	3.00	48
1715077	1715068	5.23	18 1-	4 ACSR	0	0	908	163	111	16	12	0.08	3.08	8
OC100726	1715077	5.23	16 1-	REC_35_UNK	0	0	908	163	102	15	43	0.00	3.08	0
1715078	OC100726	5.63	16 1-	4 ACSR	0	0	807	159	102	15	11	0.20	3.29	15
1715074	1715078	5.78	8 1-	6 ACWC	0	0	774	158	43	6	5	0.04	3.33	1
1715075	1715074	6.22	5 1-	4 ACSR	0	0	689	154	29	4	3	0.04	3.37	0
1715069	1715068	5.17	72 3-	1/0 ACSR	1311	1214	930	164	375	18	8	0.02	3.02	5
OC100725	1715069	5.17	71 3-	50-H	1311	1214	930	164	375	18	37	0.00	3.02	0
1715070	OC100725	5.33	71 3-	1/0 ACSR	1267	1174	898	163	375	18	8	0.04	3.06	9
1715082	1715070	6.92	35 1-	4 ACSR	0	0	594	149	136	20	14	1.08	4.14	107
OC100727	1715082	6.92	18 1-	25-H	0	0	594	149	56	8	33	0.00	4.14	0
1715083	OC100727	7.54	18 1-	4 ACSR	0	0	522	144	56	8	6	0.17	4.31	7
1715084	1715083	7.65	12 1-	6 ACWC	0	0	512	143	20	3	2	0.01	4.32	0
1715085	1715084	8.72	11 1-	4 ACSR	0	0	423	135	15	2	2	0.06	4.38	0
1715076	1715085	8.82	0 1-	4 ACSR	0	0	416	134	0	0	0	0.00	4.38	0
NEWCAP-DDD69895	1715068	5.12	0 3-	Capacitor	1324	1226	939	164	0	-14	0	0.00	3.00	0
1615094	1615088	3.85	30 1-	4 ACSR	0	0	1272	170	178	26	19	0.11	2.50	17
OC100722	1615094	3.85	29 1-	REC_35_UNK	0	0	1272	170	178	26	75	0.00	2.50	0
1615095	OC100722	4.90	29 1-	4 ACSR	0	0	873	159	178	26	19	0.66	3.15	70
1615108	1615086	3.37	73 3-	1/0 ACSR	2067	1886	1488	173	370	18	8	0.01	2.09	4
OC100716	1615108	3.37	73 3-	no ocr	2067	1886	1488	173	370	18	12	0.00	2.09	0
1615101	OC100716	3.39	4 1-	4 ACSR	0	0	1474	172	23	3	2	0.00	2.09	0
1615109	OC100716	3.76	69 3-	1/0 ACSR	1842	1683	1318	171	347	17	7	0.12	2.22	33
SW100655-B	1615109	3.76	64 3-	Closed	1842	1683	1318	171	314	15	0	0.00	2.22	0
SW100655-A	SW100655-B	3.76	64 3-	Closed	1842	1683	1318	171	314	15	0	0.00	2.22	0
1615105	SW100655-A	4.11	64 3-	1/0 ACSR	1678	1540	1196	169	314	15	7	0.10	2.31	24

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1615107	1615105	4.71	49 3-	1/0 ACSR	1450	1338	1030	166	269	13	6	0.12	2.44	23
1615113	1615107	4.77	12 1-	4 ACSR	0	0	1009	165	48	7	5	0.02	2.46	0
OC100718	1615113	4.77	12 1-	25-H	0	0	1009	165	48	7	29	0.00	2.46	0
1615104	OC100718	4.92	12 1-	4 ACSR	0	0	959	164	48	7	5	0.05	2.51	2
1615100	1615104	5.25	11 1-	6 ACWC	0	0	867	161	48	7	5	0.10	2.61	4
1715079	1615100	5.81	6 1-	4 ACSR	0	0	739	155	36	5	4	0.08	2.69	2
1715080	1715079	5.97	1 1-	1/0 ACSR	0	0	719	155	4	0	0	0.00	2.69	0
1715081	1715080	6.14	1 1-	4 ACSR	0	0	688	153	4	0	0	0.00	2.69	0
1615110	1615107	4.71	20 1-	1/0 ACSR	0	0	1029	166	117	17	8	0.00	2.44	0
OC100717	1615110	4.71	20 1-	25-H	0	0	1029	166	117	17	69	0.00	2.44	0
1615112	OC100717	5.93	18 1-	1/0 ACSR	0	0	799	160	112	16	7	0.31	2.74	18
1715090	1615112	7.01	7 1-	4 ACSR	0	0	612	150	22	3	2	0.08	2.83	0
1615111	OC100717	4.83	2 1-	4 ACSR	0	0	991	165	6	0	1	0.00	2.44	0
1615106	1615105	4.72	9 1-	4 ACSR	0	0	963	163	16	2	2	0.04	2.35	0
1615079	1615078	1.72	130 3-	336.4 ACSR	3058	2852	2398	176	840	41	8	0.00	1.49	0
SW100647-B	1615079	1.72	130 3-	Closed	3058	2852	2398	176	840	41	0	0.00	1.49	0
SW100647-A	SW100647-B	1.72	130 3-	Closed	3058	2852	2398	176	840	41	0	0.00	1.49	0
1615082	SW100647-A	2.92	130 3-	336.4 ACSR	2273	2084	1664	174	840	41	8	0.39	1.88	171
1615083	1615082	3.63	12 3-	336.4 ACSR	1972	1797	1408	172	112	5	1	0.02	1.90	0
SW100651-A	1615083	3.63	0 3-	Open	1972	1797	1408	172	0	0	0	0.00	1.90	0
1615066	1615082	2.95	101 3-	1/0 ACSR	2253	2064	1647	174	587	28	13	0.02	1.89	7
OC100714	1615066	2.95	101 3-	REC_70_UNK	2253	2064	1647	174	587	28	14	0.00	1.89	0
1615067	OC100714	3.54	101 3-	1/0 ACSR	1876	1720	1355	171	587	28	13	0.29	2.18	122
1615068	1615067	3.99	75 3-	1/0 ACSR	1660	1530	1193	168	435	21	9	0.16	2.34	51
1615069	1615068	4.25	60 3-	1/0 ACSR	1556	1437	1116	167	324	15	7	0.08	2.42	19
1615073	1615069	4.54	9 1-	4 ACSR	0	0	1006	164	39	5	4	0.04	2.46	0
1615070	1615069	4.39	47 1-	4 ACSR	0	0	1061	166	259	38	27	0.24	2.65	53
OC100715	1615070	4.39	44 1-	REC_35_UNK	0	0	1061	166	222	32	94	0.00	2.65	0
1615071	OC100715	5.55	44 1-	4 ACSR	0	0	737	155	222	32	24	0.99	3.64	137
SW100648-B	1615071	5.55	3 1-	Closed	0	0	737	155	18	2	0	0.00	3.64	0
SW100648-A	SW100648-B	5.55	3 1-	Closed	0	0	737	155	18	2	0	0.00	3.64	0
1615072	SW100648-A	6.39	3 1-	4 ACSR	0	0	598	147	18	2	2	0.05	3.70	0
CKT 134 total losses:	\$5,026													
SUB 14, CKT 144														
SJES_144	SOUTH JESSAMINE	0.00	958 3-	SBS_99_UNK	5935	6279	6360	180	8267	377	0	0.00	0.00	0
1614298	SJES_144	0.23	958 3-	556.1 ACSR	5323	5316	5314	179	8267	377	52	0.46	0.46	1929
1614192	1614298	0.51	36 3-	336.4 ACSR	4693	4589	4356	179	246	11	2	0.03	0.49	4
1614180	1614192	0.62	31 3-	336.4 ACSR	4485	4356	4068	179	230	11	2	0.01	0.50	1
1614181	1614180	0.72	29 3-	336.4 ACSR	4300	4152	3823	178	208	10	2	0.01	0.50	0
1614271	1614181	0.85	19 1-	336.4 ACSR	0	0	3563	178	142	20	4	0.03	0.53	2
1614274	1614271	0.98	1 1-	336.4 ACSR	0	0	3319	178	25	3	1	0.00	0.54	0
SW689114204-A	1614274	0.98	0 1-	Closed	0	0	3319	178	0	0	0	0.00	0.54	0
SW689114204-B	SW689114204-A	0.98	0 1-	Closed	0	0	3319	178	0	0	0	0.00	0.54	0
1614272	1614271	0.85	13 1-	4 ACSR	0	0	3544	178	83	12	9	0.00	0.54	0
OC100614	1614272	0.85	13 1-	70-L	0	0	3544	178	83	12	17	0.00	0.54	0
1614273	OC100614	2.24	13 1-	4 ACSR	0	0	1299	164	83	12	9	0.40	0.94	20
1614172	1614298	1.25	904 3-	556.1 ACSR	3639	3443	3081	178	6098	275	38	1.31	1.77	4482
SW100468-B	1614172	1.25	890 3-	Closed	3639	3443	3081	178	5939	270	0	0.00	1.77	0
SW100468-A	SW100468-B	1.25	890 3-	Closed	3639	3443	3081	178	5939	270	0	0.00	1.77	0
1614173	SW100468-A	1.58	890 3-	556.1 ACSR	3300	3097	2711	178	5939	270	37	0.40	2.17	1416
1614174	1614173	1.82	888 3-	556.1 ACSR	3092	2888	2495	177	5920	269	37	0.29	2.46	1015

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LIG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1614176	1614174	2.11	600 3-	4/0 ACSR	2806	2607	2203	176	4249	195 57	0.54	3.00	1658	
SW100482-B	1614176	2.11	581 3-	Closed	2806	2607	2203	176	4116	189 0	0.00	3.00	0	
SW100482-A	SW100482-B	2.11	581 3-	Closed	2806	2607	2203	176	4116	189 0	0.00	3.00	0	
1614182	SW100482-A	2.41	581 3-	4/0 ACSR	2553	2361	1959	175	4116	189 56	0.55	3.55	1680	
1614268	1614182	2.53	27 1-	4 ACSR	0	0	1836	174	225	33 24	0.19	3.74	39	
OC100624	1614268	2.53	27 1-	25-H	0	0	1836	174	224	33 134	0.00	3.74	0	
1614269	OC100624	3.85	27 1-	4 ACSR	0	0	1000	161	224	33 24	1.05	4.79	143	
1614183	1614182	3.31	552 3-	4/0 ACSR	2011	1840	1472	173	3842	176 52	1.45	5.00	4229	
1614189	1614183	4.31	525 3-	4/0 ACSR	1621	1474	1150	169	3630	168 50	1.51	6.51	4375	
OC100641	1614189	4.31	513 3-	REC_99_VWE	1621	1474	1150	169	3567	167 0	0.00	6.51	0	
1614190	OC100641	4.34	513 3-	4/0 ACSR	1613	1466	1144	169	3567	167 49	0.04	6.55	115	
1714116	1614190	4.68	513 3-	4/0 ACSR	1512	1375	1064	168	3566	169 50	0.56	7.11	1511	
RG100003	1714116	4.68	501 3-	219	1512	1375	1064	168	3504	166 76	-7.11	0.00	0	
1714080	RG100003	5.21	501 3-	4/0 ACSR	1379	1253	960	167	3504	157 46	0.80	0.80	2021	
1714086	1714080	5.76	169 3-	1/0 ACSR	1235	1128	859	164	987	44 19	0.38	1.18	311	
OC100628	1714086	5.76	159 3-	REC_70_UNK	1235	1128	859	164	910	40 58	0.00	1.18	0	
1714087	OC100628	7.33	159 3-	1/0 ACSR	944	872	657	157	910	40 18	0.90	2.08	666	
1714109	1714087	7.35	4 1-	6 ACWC	0	0	655	156	26	3 3	0.00	2.09	0	
OC100635	1714109	7.35	4 1-	REC_25_UNK	0	0	655	156	26	3 15	0.00	2.09	0	
1714110	OC100635	7.83	4 1-	6 ACWC	0	0	592	152	26	3 3	0.06	2.15	0	
1714103	1714110	8.19	1 1-	4 ACSR	0	0	550	149	9	1 1	0.01	2.16	0	
1714088	1714087	8.26	122 3-	1/0 ACSR	826	767	576	152	695	31 14	0.38	2.46	239	
SW100488-B	1714088	8.26	106 3-	Closed	826	767	576	152	574	25 0	0.00	2.46	0	
SW100488-A	SW100488-B	8.26	106 3-	Closed	826	767	576	152	574	25 0	0.00	2.46	0	
1714089	SW100488-A	8.35	106 3-	1/0 ACSR	816	758	569	152	574	25 11	0.03	2.49	19	
1714073	1714089	8.40	2 1-	4 ACSR	0	0	564	152	4	0 0	0.00	2.49	0	
SW100485-B	1714073	8.40	1 1-	Closed	0	0	564	152	0	0 0	0.00	2.49	0	
SW100485-A	SW100485-B	8.40	1 1-	Closed	0	0	564	152	0	0 0	0.00	2.49	0	
1714074	SW100485-A	8.64	1 1-	4 ACSR	0	0	539	149	0	0 0	0.00	2.49	0	
1714081	1714089	8.55	103 3-	1/0 ACSR	795	739	555	151	570	25 11	0.07	2.56	41	
SW100479-B	1714081	8.55	102 3-	Closed	795	739	555	151	569	25 0	0.00	2.56	0	
SW100479-A	SW100479-B	8.55	102 3-	Closed	795	739	555	151	569	25 0	0.00	2.56	0	
1714077	SW100479-A	9.29	102 3-	1/0 ACSR	725	676	507	148	569	25 11	0.22	2.78	133	
1714067	1714077	9.30	82 3-	1/0 ACSR	724	675	506	148	445	20 9	0.00	2.79	1	
OC100621	1714067	9.30	82 3-	REC_35_UNK	724	675	506	148	445	20 20	0.00	2.79	0	
1714068	OC100621	10.69	82 3-	1/0 ACSR	621	581	435	142	445	20 9	0.29	3.08	173	
SW100473-B	1714068	10.69	73 3-	Closed	621	581	435	142	406	20 0	0.00	3.08	0	
SW100473-A	SW100473-B	10.69	73 3-	Closed	621	581	435	142	406	20 0	0.00	3.08	0	
1714069	SW100473-A	10.71	73 3-	1/0 ACSR	619	580	434	142	406	20 9	0.01	3.08	3	
1714064	1714069	10.76	36 1-	4 ACSR	0	0	431	142	163	24 17	0.05	3.14	8	
OC100623	1714064	10.76	35 1-	25-H	0	0	431	142	161	23 96	0.00	3.14	0	
1714065	OC100623	11.35	35 1-	4 ACSR	0	0	395	137	161	23 17	0.55	3.68	69	
SW100475-B	1714065	11.35	24 1-	Closed	0	0	395	137	97	14 0	0.00	3.68	0	
SW100475-A	SW100475-B	11.35	24 1-	Closed	0	0	395	137	97	14 0	0.00	3.68	0	
1714066	SW100475-A	11.48	24 1-	4 ACSR	0	0	388	136	97	14 10	0.08	3.77	7	
SW100476-B	1714066	11.48	21 1-	Closed	0	0	388	136	82	12 0	0.00	3.77	0	
SW100476-A	SW100476-B	11.48	21 1-	Closed	0	0	388	136	82	12 0	0.00	3.77	0	
1714056	SW100476-A	13.62	21 1-	4 ACSR	0	0	296	122	82	12 9	0.63	4.39	31	
1714061	1714069	10.74	34 1-	4 ACSR	0	0	432	142	226	33 24	0.04	3.13	9	
OC100622	1714061	10.74	34 1-	25-H	0	0	432	142	226	33 135	0.00	3.13	0	
1714062	OC100622	11.09	34 1-	4 ACSR	0	0	410	139	226	33 24	0.52	3.64	99	
SW100474-B	1714062	11.09	25 1-	Closed	0	0	410	139	184	27 0	0.00	3.64	0	

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW100474-A	SW100474-B	11.09	25 1-	Closed	0	0	410	139	184	27	0	0.00	3.64	0
1714063	SW100474-A	12.63	25 1-	4 ACSR	0	0	333	129	184	27	20	1.01	4.65	112
NEWCAP-4B9DFE30	1714068	10.69	0 3-	Capacitor	621	581	435	142	0	-14	0	0.00	3.08	0
1714076	1714077	9.81	9 3-	1/0 ACSR	682	637	477	146	40	1	1	0.01	2.79	0
1714075	1714080	5.55	325 3-	4/0 ACSR	1305	1186	904	165	2456	111	33	0.36	1.16	630
1614211	1714075	5.96	310 3-	4/0 ACSR	1226	1115	845	164	2344	106	31	0.41	1.57	700
SW100491-B	1614211	5.96	302 3-	Closed	1226	1115	845	164	2284	103	0	0.00	1.57	0
SW100491-A	SW100491-B	5.96	302 3-	Closed	1226	1115	845	164	2284	103	0	0.00	1.57	0
1614170	SW100491-A	6.07	302 3-	4/0 ACSR	1207	1097	830	164	2284	103	30	0.11	1.68	180
1614233	1614170	6.16	235 3-	4/0 ACSR	1191	1082	818	164	1810	84	25	0.08	1.76	101
OC100640	1614233	6.16	233 3-	50-L	1191	1082	818	164	1799	83	167	0.00	1.76	0
1714117	OC100640	6.94	233 3-	4/0 ACSR	1070	972	728	161	1799	83	25	0.64	2.40	754
1714090	1714117	8.10	187 3-	4/0 ACSR	930	846	627	157	1511	69	21	0.69	3.09	680
1714082	1714090	8.13	159 3-	1/0 ACSR	926	842	624	157	1118	51	22	0.03	3.12	29
1714083	1714082	8.22	159 3-	1/0 ACSR	914	832	616	157	1118	55	24	0.10	3.22	86
1714084	1714083	8.33	113 3-	1/0 ACSR	900	820	607	156	840	41	18	0.09	3.30	59
1714085	1714084	8.66	58 3-	1/0 ACSR	859	785	581	155	436	21	9	0.14	3.44	48
1714107	1714085	8.67	58 3-	1/0 ACSR	859	784	580	155	435	21	9	0.00	3.44	0
OC100632	1714107	8.67	58 3-	no ocr	859	784	580	155	435	21	29	0.00	3.44	0
1714108	OC100632	9.90	58 3-	1/0 ACSR	735	676	499	149	435	21	9	0.26	3.70	60
1714094	1714084	8.40	55 3-	1/0 ACSR	891	812	601	156	404	20	9	0.03	3.33	9
OC100633	1714094	8.40	55 3-	no ocr	891	812	601	156	403	20	19	0.00	3.33	0
1714095	OC100633	9.28	55 3-	1/0 ACSR	792	726	536	152	403	20	9	0.24	3.57	61
1714091	1714095	10.06	18 1-	4 ACSR	0	0	470	145	124	18	13	0.62	4.18	64
1714093	1714091	10.66	9 1-	4 ACSR	0	0	428	141	55	8	6	0.12	4.30	4
1714092	1714091	11.19	6 1-	4 ACSR	0	0	395	137	42	6	5	0.17	4.35	4
1714096	1714095	9.46	5 1-	4 ACSR	0	0	520	150	34	5	4	0.02	3.59	0
1714059	1714083	8.26	46 3-	1/0 ACSR	908	827	613	157	277	13	6	0.01	3.23	2
OC100634	1714059	8.26	46 3-	REC_35_UNK	908	827	613	157	277	13	13	0.00	3.23	0
1714060	OC100634	9.01	46 3-	1/0 ACSR	820	750	555	153	277	13	6	0.13	3.36	23
1714071	1714060	9.08	1 1-	6 ACWC	0	0	548	153	10	1	1	0.00	3.37	0
1714072	1714071	9.13	1 1-	4 ACSR	0	0	543	152	10	1	1	0.00	3.37	0
1714070	1714060	9.90	15 1-	6 ACWC	0	0	476	146	86	12	9	0.27	3.63	14
CA100020	1714082	8.13	0 3-	Capacitor	926	842	624	157	0	-14	0	0.00	3.12	0
1714057	1714117	6.98	10 1-	4 ACSR	0	0	722	161	47	6	5	0.01	2.41	0
OC100636	1714057	6.98	10 1-	25-H	0	0	722	161	47	6	28	0.00	2.41	0
1714058	OC100636	8.41	10 1-	4 ACSR	0	0	534	148	47	6	5	0.23	2.65	7
1614171	1614170	6.67	65 3-	4/0 ACSR	1108	1008	757	162	455	22	7	0.11	1.78	24
1614232	1614171	6.87	24 3-	4 ACSR	1056	966	723	160	142	6	5	0.03	1.81	3
1614147	1614232	7.04	1 1-	4 ACSR	0	0	694	158	3	0	0	0.00	1.81	0
1614231	1614171	6.71	0 3-	4/0 ACSR	1104	1003	753	162	0	0	0	0.00	1.78	0
SW100494-B	1614231	6.71	0 3-	Open	1104	1003	753	162	0	0	0	0.00	1.78	0
NEWCAP-EE862570	1614170	6.07	0 3-	Capacitor	1207	1097	830	164	0	-14	0	0.00	1.68	0
1614256	1714075	5.57	3 1-	4 ACSR	0	0	899	165	23	3	2	0.00	1.16	0
OC100637	1614256	5.57	3 1-	25-H	0	0	899	165	23	3	13	0.00	1.16	0
1614257	OC100637	6.41	3 1-	4 ACSR	0	0	719	157	23	3	2	0.07	1.23	0
CA100017	1614190	4.34	0 3-	Capacitor	1613	1466	1144	169	0	-13	0	0.00	6.55	0
1614276	1614183	3.34	9 1-	1/0 ACSR	0	0	1460	172	62	9	4	0.01	5.01	0
OC100625	1614276	3.34	9 1-	REC_25_UNK	0	0	1460	172	62	9	37	0.00	5.01	0
1614277	OC100625	3.45	9 1-	1/0 ACSR	0	0	1409	172	62	9	4	0.02	5.03	0
1614278	1614277	4.00	8 1-	1/0 ACSR	0	0	1203	169	47	7	3	0.05	5.08	0
SW100483-A	1614278	4.00	0 1-	Open	0	0	1203	169	0	0	0	0.00	5.08	0

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1614175	1614174	1.88	281 3-	4/0 ACSR	3026	2824	2427	177	1653	74	22	0.04	2.50	53
1614168	1614175	2.22	281 3-	1/0 ACSR	2656	2455	2077	175	1653	74	32	0.39	2.89	572
1614169	1614168	2.24	260 3-	1/0 ACSR	2636	2436	2059	175	1480	66	29	0.02	2.91	28
OC100631	1614169	2.24	260 3-	70-L	2636	2436	2059	175	1480	66	96	0.00	2.91	0
1614177	OC100631	2.32	260 3-	1/0 ACSR	2551	2359	1983	175	1480	66	29	0.09	3.00	121
1615128	1614177	4.93	244 3-	1/0 ACSR	1243	1167	913	162	1441	65	28	1.77	4.78	2169
1715065	1615128	5.27	1 3-	336.4 ACSR	1197	1122	872	162	3	0	0	0.00	4.78	0
SW100471-A	1715065	5.27	0 3-	Open	1197	1122	872	162	0	0	0	0.00	4.78	0
1715066	1615128	5.50	156 3-	1/0 ACSR	1114	1048	815	160	775	35	15	0.30	5.08	210
1715073	1715066	6.42	18 1-	4 ACSR	0	0	642	151	85	12	9	0.28	5.36	15
1714115	1715066	6.18	125 3-	1/0 ACSR	991	934	722	157	635	29	13	0.28	5.36	171
1714078	1714115	6.48	83 3-	1/0 ACSR	943	890	687	155	447	21	9	0.07	5.42	40
OC100619	1714078	6.48	79 3-	50-H	943	890	687	155	418	19	40	0.00	5.42	0
1714079	OC100619	6.94	79 3-	1/0 ACSR	881	831	640	153	418	19	9	0.08	5.51	51
1714120	1714079	7.46	23 1-	1/0 ACSR	0	0	594	151	153	23	10	0.26	5.77	28
1714121	1714120	7.83	13 1-	1/0 ACSR	0	0	565	149	110	16	7	0.13	5.90	10
1714122	1714121	8.71	8 1-	1/0 ACSR	0	0	506	146	73	11	5	0.12	6.03	5
1714119	1714079	7.29	42 3-	1/0 ACSR	837	791	608	152	213	10	5	0.07	5.58	11
1714101	1714119	7.37	42 1-	4 ACSR	0	0	598	151	187	28	20	0.10	5.68	17
OC100620	1714101	7.37	37 1-	25-H	0	0	598	151	163	24	99	0.00	5.68	0
1714102	OC100620	7.51	37 1-	4 ACSR	0	0	581	150	163	24	18	0.15	5.83	21
1714104	1714102	7.80	31 1-	6 ACWC	0	0	548	147	139	21	15	0.25	6.08	30
1714106	1714104	7.89	10 1-	6 ACWC	0	0	538	147	19	2	2	0.01	6.10	0
1714118	1714106	10.23	9 1-	4 ACSR	0	0	365	130	15	2	2	0.13	6.23	1
1715094	1714104	7.97	15 1-	6 ACWC	0	0	529	146	89	13	10	0.10	6.19	8
1715086	1715094	8.38	11 1-	4 ACSR	0	0	491	143	71	10	8	0.12	6.31	6
1715088	1715086	8.77	2 1-	4 ACSR	0	0	458	140	8	1	1	0.01	6.32	0
1715087	1715086	8.43	1 1-	4 ACSR	0	0	486	142	3	0	0	0.00	6.31	0
NEWCAP-F050CB3C	1714079	6.94	0 3-	Capacitor	881	831	640	153	0	-13	0	0.00	5.51	0
1714097	1714115	6.22	37 1-	1/0 ACSR	0	0	718	156	158	23	10	0.02	5.38	3
OC100616	1714097	6.22	37 1-	25-H	0	0	718	156	158	23	96	0.00	5.38	0
1714098	OC100616	6.82	37 1-	1/0 ACSR	0	0	652	154	158	23	10	0.27	5.64	26
1714099	1714098	6.82	21 1-	6 ACWC	0	0	651	154	73	11	8	0.00	5.65	0
SW100472-B	1714099	6.82	21 1-	Closed	0	0	651	154	73	11	0	0.00	5.65	0
SW100472-A	SW100472-B	6.82	21 1-	Closed	0	0	651	154	73	11	0	0.00	5.65	0
1714100	SW100472-A	7.43	21 1-	1/0 ACSR	0	0	596	151	73	11	5	0.09	5.74	3
1614267	1714100	7.73	5 1-	6 ACWC	0	0	560	149	3	0	0	0.00	5.74	0
SW100483-B	1714100	7.43	0 1-	Open	0	0	596	151	0	0	0	0.00	5.74	0
NEWCAP-2E4BBD43	1615128	4.93	0 3-	Capacitor	1243	1167	913	162	0	-14	0	0.00	4.78	0
1614249	1614177	2.47	16 1-	4 ACSR	0	0	1818	173	38	5	4	0.04	3.04	1
1614260	1614249	2.55	10 1-	2 ACSR	0	0	1752	173	31	4	3	0.01	3.05	0
1614261	1614260	2.71	9 1-	4 ACSR	0	0	1613	171	31	4	3	0.03	3.08	0
SW100484-B	1614261	2.71	6 1-	Closed	0	0	1613	171	25	3	0	0.00	3.08	0
SW100484-A	SW100484-B	2.71	6 1-	Closed	0	0	1613	171	25	3	0	0.00	3.08	0
1614262	SW100484-A	2.72	6 1-	4 ACSR	0	0	1601	171	25	3	3	0.00	3.09	0
1614265	1614168	2.25	21 1-	4 ACSR	0	0	2033	175	167	24	18	0.04	2.94	6
OC100615	1614265	2.25	21 1-	REC_99_L	0	0	2033	175	167	24	25	0.00	2.94	0
1615130	OC100615	3.17	21 1-	4 ACSR	0	0	1254	166	167	24	18	1.00	3.93	142
1615098	1615130	3.80	14 1-	4 ACSR	0	0	969	159	140	20	15	0.36	4.29	33
1615099	1615098	4.00	1 1-	2 ACSR	0	0	918	158	20	2	2	0.01	4.30	0
1615119	1615130	3.17	1 1-	1/0 URD PRI AL	0	0	1253	382	0	0	0	0.00	3.93	0
OC287598522	1615119	3.17	1 1-	_DefaultBayEqui	0	0	1253	382	0	0	0	0.00	3.93	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 15 NORTH MADISON			931			5406	5587	5643	180	9031				
SUB 15, CKT 104														
NMAD_104	NORTH MADISON	0.00	77 3-	SBS_99_UNK	5406	5587	5643	180	918	41 0	0.00	0.00	0.00	0
1616120	NMAD_104	0.48	77 3-	336.4 ACSR	4388	4294	4091	179	918	41 8	0.13	0.13	0.13	79
1616121	1616120	0.54	77 3-	1/0 ACSR	4239	4131	3896	179	918	41 18	0.04	0.17	0.17	32
1616122	1616121	1.03	76 3-	336.4 ACSR	3565	3400	3063	178	894	40 8	0.10	0.27	0.27	49
SW974667890-A	1616122	1.03	45 3-	Closed	3565	3400	3063	178	466	20 0	0.00	0.27	0.27	0
SW974667890-B	SW974667890-A	1.03	45 3-	Closed	3565	3400	3063	178	466	20 0	0.00	0.27	0.27	0
1616123	SW974667890-B	1.68	45 3-	336.4 ACSR	2932	2747	2377	176	466	20 4	0.07	0.34	0.34	21
1616081	1616123	1.76	29 1-	2 ACSR	0	0	2275	176	306	41 23	0.10	0.44	0.44	25
1616082	1616081	1.76	29 1-	4 ACSR	0	0	2267	176	306	41 29	0.01	0.45	0.45	3
OC120885	1616082	1.76	29 1-	REC_35_UNK	0	0	2267	176	306	41 118	0.00	0.45	0.45	0
1616093	OC120885	1.86	18 1-	4 ACSR	0	0	2127	175	237	32 23	0.12	0.57	0.57	22
1616094	1616093	2.23	13 1-	2 ACSR	0	0	1766	172	161	21 12	0.12	0.69	0.69	11
1616083	OC120885	2.48	11 1-	4 ACSR	0	0	1477	168	68	9 7	0.15	0.60	0.60	6
1616111	1616123	1.77	4 3-	336.4 ACSR	2857	2672	2301	176	6	0 0	0.00	0.34	0.34	0
OC120884	1616111	1.77	2 3-	REC_100_UNK	2857	2672	2301	176	6	0 0	0.00	0.34	0.34	0
1616112	OC120884	2.40	2 3-	336.4 ACSR	2448	2266	1904	175	6	0 0	0.00	0.34	0.34	0
CKT 104 total losses:		\$248												
SUB 15, CKT 114														
NMAD_114	NORTH MADISON	0.00	349 3-	SBS_99_UNK	5406	5587	5643	180	3683	164 0	0.00	0.00	0.00	0
1616119	NMAD_114	2.62	349 3-	336.4 ACSR	2344	2166	1806	175	3683	164 31	2.65	2.65	6905	0
1617046	1616119	3.54	349 3-	1/0 ACSR	1772	1640	1323	170	3624	164 72	2.49	5.13	7743	0
1616170	1617046	4.64	15 1-	4 ACSR	0	0	880	159	47	6 5	0.16	5.30	5.30	5
1617062	1617046	3.55	67 1-	4 ACSR	0	0	1320	170	601	84 60	0.02	5.16	5.16	11
OC120886	1617062	3.55	67 1-	REC_35_UNK	0	0	1320	170	601	84 241	0.00	5.16	5.16	0
1617063	OC120886	3.74	67 1-	4 ACSR	0	0	1221	168	601	84 60	0.73	5.88	391	0
1617060	1617063	3.90	1 1-	4 ACSR	0	0	1146	166	22	3 2	0.01	5.89	5.89	0
SW120920-B	1617060	3.90	0 1-	Open	0	0	1146	166	0	0 0	0.00	5.89	5.89	0
1617064	1617063	4.69	65 1-	4 ACSR	0	0	868	159	575	81 58	2.74	8.63	1225	0
1617065	1617064	6.25	36 1-	2 ACSR	0	0	624	149	324	46 26	1.13	9.76	218	0
1617047	1617046	3.74	265 3-	1/0 ACSR	1679	1556	1248	169	2910	134 58	0.44	5.57	1132	0
1617061	1617047	3.75	0 1-	4 ACSR	0	0	1245	169	0	0 0	0.00	5.57	5.57	0
SW120920-A	1617061	3.75	0 1-	Open	0	0	1245	169	0	0 0	0.00	5.57	5.57	0
1617048	1617047	4.36	265 3-	1/0 ACSR	1443	1343	1063	166	2900	134 58	1.28	6.85	3254	0
RG120009	1617048	4.36	248 3-	219	1443	1343	1063	166	2673	125 57	-6.85	0.00	0.00	0
1617042	RG120009	4.79	248 3-	1/0 ACSR	1311	1223	962	164	2673	118 51	0.78	0.78	1760	0
SW120793-A	1617042	4.79	227 3-	Closed	1311	1223	962	164	2457	109 0	0.00	0.78	0.78	0
SW120793-B	SW120793-A	4.79	227 3-	Closed	1311	1223	962	164	2457	109 0	0.00	0.78	0.78	0
1517009	SW120793-B	5.01	227 3-	1/0 ACSR	1255	1172	918	163	2457	109 48	0.36	1.14	781	0
1517014	1517009	5.18	11 1-	1/0 URD PRI AL	0	0	888	356	94	12 8	0.03	1.18	1.18	2
SW120921-A	1517014	5.18	0 1-	Open	0	0	888	356	0	0 0	0.00	1.18	1.18	0
1516149	1517009	5.80	214 3-	1/0 ACSR	1079	1011	786	159	2327	103 45	1.22	2.36	2461	0
1516100	1516149	6.05	197 3-	1/0 ACSR	1033	969	752	158	2087	93 41	0.35	2.72	663	0
1516105	1516100	6.22	73 3-	1/0 ACSR	1005	943	730	157	837	38 17	0.10	2.82	66	0
1517020	1516105	7.19	23 1-	1/0 URD PRI AL	0	0	629	306	220	30 18	0.46	3.28	61	0
SW120921-B	1517020	7.19	0 1-	Open	0	0	629	306	0	0 0	0.00	3.28	3.28	0
1517018	1516105	7.02	8 1-	1/0 URD PRI AL	0	0	646	310	97	13 8	0.17	2.98	10	0
SW120924-A	1517018	7.02	0 1-	Open	0	0	646	310	0	0 0	0.00	2.98	2.98	0
1517019	1516105	7.11	32 1-	1/0 URD PRI AL	0	0	637	308	383	52 31	0.73	3.55	169	0
SW120925-A	1517019	7.11	0 1-	Open	0	0	637	308	0	0 0	0.00	3.55	3.55	0

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1516101	1516100	6.18	118 3-	1/0 ACSR	1012	949	736	158	1163	52	23	0.09	2.80	102
1516141	1516101	6.18	16 1-	1/0 URD PRI AL	0	0	735	333	75	10	6	0.00	2.80	0
1516143	1516141	6.41	12 1-	1/0 URD PRI AL	0	0	709	326	64	8	5	0.03	2.83	1
SW120922-A	1516143	6.41	0 1-	Open	0	0	709	326	0	0	0	0.00	2.83	0
1516142	1516141	6.55	4 1-	1/0 URD PRI AL	0	0	694	322	11	1	1	0.01	2.81	0
SW120922-B	1516142	6.55	0 1-	Open	0	0	694	322	0	0	0	0.00	2.81	0
1516102	1516101	6.53	95 3-	1/0 ACSR	956	898	694	156	1021	46	20	0.19	3.00	210
1516103	1516102	6.58	83 3-	336.4 ACSR	952	894	690	156	887	40	8	0.01	3.01	7
1516104	1516103	8.70	53 3-	336.4 ACSR	800	747	564	152	638	29	6	0.23	3.24	74
1517010	1516104	8.77	10 3-	336.4 ACSR	796	743	561	151	88	4	1	0.00	3.24	0
1517011	1517010	8.97	5 3-	336.4 ACSR	784	732	551	151	30	1	0	0.00	3.24	0
1517013	1517010	8.80	3 1-	1/0 URD PRI AL	0	0	559	299	41	5	3	0.00	3.25	0
SW120925-B	1517013	8.80	0 1-	Open	0	0	559	299	0	0	0	0.00	3.25	0
1517012	1516104	8.77	1 1-	1/0 URD PRI AL	0	0	559	299	12	1	1	0.00	3.24	0
SW120924-B	1517012	8.77	0 1-	Open	0	0	559	299	0	0	0	0.00	3.24	0
1516128	1516103	6.58	28 1-	1/0 URD PRI AL	0	0	690	324	224	30	18	0.01	3.01	0
1516130	1516128	6.76	15 1-	1/0 URD PRI AL	0	0	672	320	115	15	9	0.04	3.06	3
SW120923-A	1516130	6.76	0 1-	Open	0	0	672	320	0	0	0	0.00	3.06	0
1516129	1516128	6.92	13 1-	1/0 URD PRI AL	0	0	656	315	108	14	9	0.08	3.09	5
SW120923-B	1516129	6.92	0 1-	Open	0	0	656	315	0	0	0	0.00	3.09	0
NEWCAP-195CA03D	1516102	6.53	0 3-	Capacitor	956	898	694	156	0	-14	0	0.00	3.00	0
1516098	1516149	6.11	1 3-	4/0 ACSR	1037	971	751	158	16	0	0	0.00	2.36	0
1516099	1516098	6.19	0 3-	336.4 ACSR	1029	963	744	158	0	0	0	0.00	2.36	0
SW120799-B	1516099	6.19	0 3-	Open	1029	963	744	158	0	0	0	0.00	2.36	0
CKT 114 total losses:	\$27,259													
SUB 15, CKT 124														
NMAD_124	NORTH MADISON	0.00	176 3-	SBS_99_SBS	5406	5587	5643	180	2265	101	0	0.00	0.00	0
1616131	NMAD_124	0.03	176 3-	336.4 ACSR	5321	5452	5498	180	2265	101	19	0.02	0.02	34
1616132	1616131	0.46	176 3-	336.4 ACSR	4425	4336	4141	179	2265	101	19	0.28	0.31	427
1616133	1616132	0.89	173 3-	336.4 ACSR	3763	3611	3294	178	2252	101	19	0.28	0.59	415
1616134	1616133	1.20	162 3-	336.4 ACSR	3404	3232	2879	178	2122	95	18	0.19	0.78	271
1616154	1616134	1.20	23 1-	1/0 ACSR	0	0	2869	177	279	37	16	0.00	0.78	0
OC120887	1616154	1.20	23 1-	REC_50_UNK	0	0	2869	177	279	37	76	0.00	0.78	0
1616155	OC120887	1.28	23 1-	1/0 ACSR	0	0	2738	177	279	37	16	0.07	0.85	14
1616156	1616155	1.33	23 1-	2 ACSR	0	0	2655	177	279	37	21	0.04	0.89	9
1617078	1616156	2.99	11 1-	4 ACSR	0	0	1038	160	155	20	15	1.43	2.32	181
1617056	1617078	3.43	2 1-	4 ACSR	0	0	882	156	111	15	11	0.30	2.62	29
1617999	1617056	3.43	1 1-	Consumer	0	0	882	156	108	14	0	0.00	2.62	0
1617055	1617078	3.52	3 1-	4 ACSR	0	0	855	155	15	2	1	0.02	2.35	0
1616135	1616134	2.21	139 3-	336.4 ACSR	2577	2394	2024	176	1841	83	16	0.51	1.29	610
1617051	1616135	2.48	93 3-	336.4 ACSR	2420	2239	1875	175	1232	55	11	0.10	1.39	78
1617076	1617051	2.87	9 1-	1/0 URD PRI AL	0	0	1654	420	105	14	8	0.09	1.47	5
SW120916-B	1617076	2.87	0 1-	Open	0	0	1654	420	0	0	0	0.00	1.47	0
1617052	1617051	2.53	78 3-	336.4 ACSR	2394	2214	1851	175	1059	48	9	0.01	1.40	11
1617053	1617052	2.58	78 3-	336.4 ACSR	2365	2186	1824	175	1059	48	9	0.02	1.42	12
1617045	1617053	2.69	1 3-	336.4 ACSR	2310	2133	1773	175	20	0	0	0.00	1.42	0
SW120796-B	1617045	2.69	0 3-	Open	2310	2133	1773	175	0	0	0	0.00	1.42	0
1617054	1617053	2.61	75 3-	336.4 ACSR	2352	2173	1810	175	1001	45	9	0.01	1.43	5
1617040	1617054	2.65	43 1-	1/0 ACSR	0	0	1782	175	591	80	35	0.07	1.50	33
1617058	1617040	2.70	43 1-	1/0 URD PRI AL	0	0	1753	433	591	80	47	0.13	1.63	70
1617073	1617058	3.56	40 1-	1/0 URD PRI AL	0	0	1348	394	550	74	44	1.00	2.63	328

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW120919-A	1617073	3.56	0 1-	Open	0	0	1348	394	0	0	0	0.00	2.63	0
1617059	1617058	2.77	3 1-	4/0 URD PRI AL	0	0	1715	430	41	5	2	0.01	1.64	0
1617069	1617059	2.78	3 1-	1/0 URD PRI AL	0	0	1712	430	41	5	3	0.00	1.64	0
SW120917-B	1617069	2.78	0 1-	Open	0	0	1712	430	0	0	0	0.00	1.64	0
1717117	1617054	3.47	32 3-	336.4 ACSR	1975	1808	1461	173	410	18	4	0.06	1.49	13
1617044	1717117	3.54	3 3-	336.4 ACSR	1948	1782	1437	173	64	2	1	0.00	1.49	0
1617057	1617044	3.61	1 1-	1/0 URD PRI AL	0	0	1411	418	23	3	2	0.00	1.49	0
SW120918-B	1617057	3.61	0 1-	Open	0	0	1411	418	0	0	0	0.00	1.49	0
1617075	1617044	3.55	2 1-	1/0 URD PRI AL	0	0	1434	421	41	5	3	0.00	1.49	0
1617068	1717117	3.50	2 1-	1/0 URD PRI AL	0	0	1448	421	32	4	3	0.00	1.49	0
SW120919-B	1617068	3.50	0 1-	Open	0	0	1448	421	0	0	0	0.00	1.49	0
1617049	1616135	2.27	27 3-	1/0 ACSR	2524	2340	1975	175	368	16	7	0.02	1.31	5
1617074	1617049	2.29	0 1-	1/0 URD PRI AL	0	0	1957	440	0	0	0	0.00	1.31	0
SW120916-A	1617074	2.29	0 1-	Open	0	0	1957	440	0	0	0	0.00	1.31	0
1617050	1617049	2.45	27 3-	1/0 ACSR	2368	2185	1834	174	368	16	7	0.05	1.36	14
1617066	1617050	2.61	22 1-	1/0 URD PRI AL	0	0	1738	427	329	44	26	0.20	1.56	55
1617067	1617066	2.70	0 1-	1/0 URD PRI AL	0	0	1689	423	0	0	0	0.00	1.56	0
SW120917-A	1617067	2.70	0 1-	Open	0	0	1689	423	0	0	0	0.00	1.56	0
1617070	1617066	2.90	18 1-	1/0 URD PRI AL	0	0	1584	414	252	34	20	0.25	1.81	50
1617071	1617070	2.91	12 1-	4/0 URD PRI AL	0	0	1578	413	163	22	10	0.01	1.82	0
1617039	1617071	3.09	10 1-	2 ACSR	0	0	1466	170	137	18	10	0.08	1.90	8
1617072	1617039	3.44	6 1-	1/0 URD PRI AL	0	0	1321	391	70	9	6	0.05	1.95	2
SW120918-A	1617072	3.44	0 1-	Open	0	0	1321	391	0	0	0	0.00	1.95	0
CKT 124 total losses:	\$2,679													

SUB 15, CKT 134

NMAD_134	NORTH MADISON	0.00	329 3-	SBS_99_SBS	5406	5587	5643	180	2164	97	0	0.00	0.00	0
1616113	NMAD_134	0.03	329 3-	336.4 ACSR	5335	5474	5521	180	2164	97	18	0.02	0.02	26
1616114	1616113	0.86	329 3-	1/0 ACSR	3291	3113	2808	176	2164	97	42	1.36	1.38	2343
1616115	1616114	1.11	317 3-	4 ACSR	2750	2610	2282	173	2032	92	66	0.90	2.27	1643
1616151	1616115	1.40	16 1-	4 ACSR	0	0	1837	170	102	13	10	0.19	2.46	17
OC120908	1616151	1.40	16 1-	25-H	0	0	1837	170	102	13	56	0.00	2.46	0
1616153	OC120908	2.81	15 1-	4 ACSR	0	0	924	156	102	13	10	0.44	2.90	26
1616152	OC120908	1.47	1 1-	4 ACSR	0	0	1762	169	0	0	0	0.00	2.46	0
1616116	1616115	1.19	300 3-	1/0 ACSR	2654	2519	2189	173	1901	87	38	0.12	2.40	190
1616117	1616116	2.20	300 3-	1/0 ACSR	1837	1744	1441	168	1899	87	38	1.50	3.89	2331
OC120911	1616117	2.20	290 3-	70-L	1837	1744	1441	168	1822	84	121	0.00	3.89	0
1616118	OC120911	2.32	290 3-	1/0 ACSR	1773	1684	1386	167	1822	84	37	0.17	4.06	259
1616127	1616118	2.39	164 3-	1/0 ACSR	1740	1653	1358	167	953	44	19	0.05	4.11	36
1616128	1616127	2.40	155 3-	4 ACSR	1729	1643	1349	167	875	40	29	0.02	4.13	13
1616129	1616128	3.73	97 3-	1/0 ACSR	1248	1188	949	161	579	26	12	0.49	4.62	206
1616087	1616129	3.75	24 1-	4 ACSR	0	0	942	160	133	18	13	0.02	4.63	2
1616088	1616087	3.76	24 1-	2 ACSR	0	0	941	160	133	18	10	0.00	4.64	0
OC120912	1616088	3.76	24 1-	REC_25_UNK	0	0	941	160	133	18	75	0.00	4.64	0
1616089	OC120912	4.00	24 1-	2 ACSR	0	0	883	159	133	18	10	0.14	4.77	16
1616090	1616089	4.16	22 1-	6 ACWC	0	0	839	157	131	18	13	0.09	4.87	9
1616091	1616090	4.49	8 1-	2 ACSR	0	0	777	155	55	7	4	0.06	4.93	2
1615062	1616091	4.61	5 1-	6 ACWC	0	0	750	154	28	3	3	0.01	4.94	0
1615063	1615062	5.05	4 1-	4 ACSR	0	0	668	150	11	1	1	0.02	4.96	0
1615064	1615063	5.11	1 1-	2 ACSR	0	0	660	150	0	0	0	0.00	4.96	0
1616130	1616129	3.98	38 3-	1/0 ACSR	1187	1130	900	159	209	9	4	0.04	4.65	6
1616095	1616130	4.18	6 1-	4 ACSR	0	0	843	158	49	6	5	0.04	4.69	1

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Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LIG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 21 BRIDGEPORT			3553		3642	3808	3826	357	18317					
SUB 21, CKT 114														
BPRT_114+	BRIDGEPORT	0.00	1142 3-	SBS_99_UNK	3642	3808	3826	357	6148	137	0	0.00	0.00	0
1110022+	BPRT_114	0.03	1142 3-	336.4 ACSR	3625	3779	3796	357	6148	137	26	0.01	0.01	55
1109025+	1110022	1.37	1142 3-	3/0 ACSR	2805	2732	2563	347	6147	137	46	1.02	1.03	4846
1109017+	1109025	1.38	0 1-	4 ACSR	0	0	2558	346	0	0	0	0.00	1.03	0
SW401086-A+	1109017	1.38	0 1-	Open	0	0	2558	346	0	0	0	0.00	1.03	0
1109013+	1109025	4.39	1111 3-	3/0 ACSR	1821	1696	1449	324	5953	133	45	2.16	3.19	9980
1209058+	1109013	4.41	904 3-	3/0 ACSR	1817	1692	1446	324	4958	113	38	0.01	3.20	42
1209059+	1209058	4.41	899 3-	1/0 ACSR	1816	1692	1445	324	4939	112	49	0.00	3.20	11
1209048+	1209059	4.41	899 3-	3/0 ACSR	1815	1691	1444	324	4939	112	38	0.00	3.20	11
OC400857+	1209048	4.41	899 3-	REC_70_UNK	1815	1691	1444	324	4939	112	161	0.00	3.20	0
1209050+	OC400857	5.27	899 3-	3/0 ACSR	1648	1524	1284	318	4939	112	38	0.51	3.72	2028
1209056+	1209050	5.28	871 3-	1/0 ACSR	1647	1523	1283	318	4643	106	46	0.00	3.72	20
RG400021+	1209056	5.28	871 3-	219	1647	1523	1283	318	4643	106	49	-3.72	0.00	0
1209057+	RG400021	5.37	871 3-	3/0 ACSR	1630	1506	1267	317	4643	103	34	0.05	0.05	198
1209051+	1209057	5.79	828 3-	3/0 ACSR	1559	1437	1202	314	4420	98	33	0.22	0.28	786
1210114+	1209051	7.14	521 3-	3/0 ACSR	1369	1260	1033	304	2724	60	20	0.42	0.69	867
1210075+	1210114	7.17	50 3-	3/0 ACSR	1366	1257	1030	304	178	3	1	0.00	0.69	0
OC400871+	1210075	7.17	50 3-	REC_99_UNK	1366	1257	1030	304	178	3	0	0.00	0.69	0
1210076+	OC400871	8.28	50 3-	3/0 ACSR	1241	1142	922	297	178	3	1	0.02	0.71	2
1210059+	1210076	9.65	18 1-	4 ACSR	0	0	759	275	64	4	3	0.07	0.78	2
SW400209-A+	1210059	9.65	0 1-	Open	0	0	759	275	0	0	0	0.00	0.78	0
1310114+	1210076	9.49	10 3-	3/0 ACSR	1128	1038	828	289	40	0	0	0.00	0.72	0
SW401081-A+	1310114	9.49	0 3-	Open	1128	1038	828	289	0	0	0	0.00	0.72	0
1210073+	1210114	7.25	390 3-	1/0 ACSR	1353	1245	1019	303	2186	48	21	0.04	0.74	80
OC400868+	1210073	7.25	366 3-	REC_70_UNK	1353	1245	1019	303	2092	46	67	0.00	0.74	0
1210071+	OC400868	8.85	366 3-	1/0 ACSR	1156	1067	853	289	2092	46	20	0.51	1.25	816
1210072+	1210071	8.92	237 3-	4 ACSR	1144	1058	844	288	1423	31	23	0.04	1.29	53
1210078+	1210072	9.41	155 3-	4 ACSR	1068	996	794	281	976	21	16	0.14	1.44	101
1210057+	1210078	9.64	59 1-	2 ACSR	0	0	774	278	377	25	14	0.05	1.49	11
1210058+	1210057	9.83	8 1-	4 ACSR	0	0	754	275	46	3	2	0.01	1.49	0
1210074+	1210072	9.47	70 3-	4 ACSR	1059	988	783	279	362	8	6	0.04	1.34	9
SW400758-A+	1210074	9.47	0 3-	Open	1059	988	783	279	0	0	0	0.00	1.34	0
1209052+	1209051	5.91	298 3-	1/0 ACSR	1538	1415	1183	313	1607	35	16	0.03	0.31	46
OC400862+	1209052	5.91	297 3-	REC_70_UNK	1538	1415	1183	313	1602	35	51	0.00	0.31	0
1209053+	OC400862	6.77	297 3-	1/0 ACSR	1394	1286	1055	305	1602	35	16	0.24	0.55	307
1209063+	1209053	7.02	79 1-	4 ACSR	0	0	1011	300	404	27	19	0.15	0.69	51
OC400863+	1209063	7.02	75 1-	REC_35_UNK	0	0	1011	300	383	25	73	0.00	0.69	0
1209064+	OC400863	9.20	75 1-	4 ACSR	0	0	729	266	383	25	18	0.76	1.45	190
1209065+	1209064	9.50	14 1-	6 ACWC	0	0	701	262	90	6	4	0.03	1.48	2
1209066+	1209065	9.82	5 1-	4 ACSR	0	0	672	258	38	2	2	0.01	1.49	0
1209054+	1209053	8.09	187 3-	1/0 ACSR	1217	1126	905	293	1000	22	10	0.23	0.78	192
1209043+	1209054	8.17	51 1-	2 ACSR	0	0	896	292	278	18	10	0.02	0.80	5
1209044+	1209043	8.45	50 1-	4 ACSR	0	0	859	287	271	18	13	0.10	0.90	23
OC400864+	1209044	8.45	40 1-	35-2E	0	0	859	287	211	14	40	0.00	0.90	0
1209045+	OC400864	10.07	40 1-	4 ACSR	0	0	690	263	211	14	10	0.44	1.34	75
1209046+	1209045	10.29	32 1-	6 ACWC	0	0	671	260	158	10	8	0.04	1.39	6
1209047+	1209046	11.57	22 1-	4 ACSR	0	0	579	244	112	7	5	0.11	1.49	7
1209055+	1209054	8.57	121 3-	1/0 ACSR	1163	1077	860	288	652	14	6	0.06	0.84	30
1209067+	1209055	8.58	116 1-	4 ACSR	0	0	859	288	613	41	29	0.01	0.84	3
1209072+	1209067	9.88	25 1-	4 ACSR	0	0	719	269	86	5	4	0.11	0.95	7

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1309069+	1209072	10.38	8 1-	6 ACWC	0	0	676	262	31	2	1	0.01	0.97	0
1209068+	1209067	8.97	91 1-	4 ACSR	0	0	812	282	526	35	25	0.30	1.14	134
OC400865+	1209068	8.97	85 1-	REC_35_UNK	0	0	812	282	491	32	94	0.00	1.14	0
1209069+	OC400865	11.31	4 85 1-	4 ACSR	0	0	605	250	491	32	24	0.97	2.11	303
1209070+	1209069	11.42	9 1-	6 ACWC	0	0	598	249	72	4	3	0.01	2.12	0
1209071+	1209070	12.19	9 1-	4 ACSR	0	0	551	240	72	4	3	0.04	2.16	2
1209060+	1209057	5.44	43 1-	4 ACSR	0	0	1249	315	222	14	11	0.02	0.08	5
OC400859+	1209060	5.44	43 1-	REC_35_UNK	0	0	1249	315	222	14	42	0.00	0.08	0
1209061+	OC400859	5.81	43 1-	4 ACSR	0	0	1163	309	222	14	11	0.11	0.19	21
1209074+	1209061	5.91	39 1-	1/0 URD PRI AL_	0	0	1150	616	199	13	8	0.02	0.21	3
1209076+	1209074	5.96	36 1-	1/0 URD PRI AL_	0	0	1142	614	186	12	7	0.01	0.22	2
1210116+	1209076	6.06	34 1-	4 ACSR	0	0	1121	305	186	12	9	0.03	0.25	4
SW400759-B+	1210116	6.06	34 1-	Closed	0	0	1121	305	186	12	0	0.00	0.25	0
SW400759-A+	SW400759-B	6.06	34 1-	Closed	0	0	1121	305	186	12	0	0.00	0.25	0
1210109+	SW400759-A	6.20	33 1-	1/0 URD PRI AL_	0	0	1102	599	179	11	7	0.03	0.27	4
SW400760-B+	1210109	6.20	32 1-	Closed	0	0	1102	599	179	11	0	0.00	0.27	0
SW400760-A+	SW400760-B	6.20	32 1-	Closed	0	0	1102	599	179	11	0	0.00	0.27	0
1210097+	SW400760-A	6.25	7 1-	4 ACSR	0	0	1093	302	55	3	3	0.00	0.27	0
1210110+	SW400760-A	6.95	25 1-	1/0 URD PRI AL_	0	0	1013	566	124	8	5	0.05	0.32	3
SW401080-B+	1210110	6.95	0 1-	Open	0	0	1013	566	0	0	0	0.00	0.32	0
1210096+	SW400759-A	6.09	1 1-	4 ACSR	0	0	1115	304	7	0	0	0.00	0.25	0
1209075+	1209074	5.91	0 1-	1/0 URD PRI AL_	0	0	1149	616	0	0	0	0.00	0.21	0
SW401080-A+	1209075	5.91	0 1-	Open	0	0	1149	616	0	0	0	0.00	0.21	0
1209039+	1109013	4.43	113 1-	4 ACSR	0	0	1435	323	515	35	25	0.03	3.22	15
OC400858+	1209039	4.43	112 1-	REC_35_UNK	0	0	1435	323	496	33	97	0.00	3.22	0
1209041+	OC400858	5.11	106 1-	4 ACSR	0	0	1238	310	469	32	23	0.30	3.52	94
1209042+	1209041	5.52	29 1-	2 ACSR	0	0	1159	305	115	7	4	0.02	3.54	2
1209040+	OC400858	4.44	6 1-	4 ACSR	0	0	1433	323	27	1	1	0.00	3.22	0
CKT 114 total losses:	\$21,454													
SUB 21, CKT 124														
BPRT_124+	BRIDGEPORT	0.00	1005 3-	SBS_99_UNK	3642	3808	3826	357	5249	116	0	0.00	0.00	0
1110024+	BPRT_124	0.61	1005 3-	336.4 ACSR	3312	3314	3290	354	5249	116	22	0.21	0.21	808
1110018+	1110024	2.04	958 3-	336.4 ACSR	2723	2627	2464	348	4990	111	21	0.47	0.68	1671
SW400874-B+	1110018	2.04	924 3-	Closed	2723	2627	2464	348	4792	107	0	0.00	0.68	0
SW400874-A+	SW400874-B	2.04	924 3-	Closed	2723	2627	2464	348	4792	107	0	0.00	0.68	0
1110019+	SW400874-A	2.49	924 3-	336.4 ACSR	2580	2472	2284	346	4792	107	20	0.14	0.82	490
1110027+	1110019	2.66	168 3-	1/0 ACSR	2505	2392	2192	345	900	20	9	0.03	0.85	21
OC400965+	1110027	2.66	167 3-	REC_70_UNK	2505	2392	2192	345	895	20	29	0.00	0.85	0
1109026+	OC400965	3.90	167 3-	1/0 ACSR	2050	1917	1681	331	895	20	9	0.20	1.05	146
1109018+	1109026	4.19	91 1-	6 ACWC	0	0	1561	325	516	34	25	0.22	1.27	101
OC400976+	1109018	4.19	86 1-	REC_35_UNK	0	0	1561	325	506	34	97	0.00	1.27	0
1109019+	OC400976	5.17	86 1-	6 ACWC	0	0	1247	307	506	34	24	0.63	1.91	260
1109020+	1109019	5.28	66 1-	2 ACSR	0	0	1224	306	379	25	14	0.04	1.95	13
1109021+	1109020	7.44	62 1-	6 ACWC	0	0	827	272	353	23	17	0.65	2.60	148
1109015+	1109021	7.55	1 1-	6 ACWC	0	0	814	270	9	0	0	0.00	2.60	0
1109016+	1109015	7.59	0 1-	4 ACSR	0	0	809	270	0	0	0	0.00	2.60	0
SW401086-B+	1109016	7.59	0 1-	Open	0	0	809	270	0	0	0	0.00	2.60	0
1109014+	1109021	7.64	7 1-	4 ACSR	0	0	802	269	49	3	2	0.01	2.61	0
1109012+	1109026	4.06	59 3-	1/0 ACSR	2000	1865	1629	330	327	7	3	0.01	1.06	3
1109022+	1109012	6.04	59 1-	6 ACWC	0	0	1056	294	327	21	16	0.48	1.54	95
1009013+	1109022	6.09	1 1-	4 ACSR	0	0	1047	293	9	0	0	0.00	1.54	0

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1009011+	1109022	6.06	0 1-	6 ACWC	0	0	1053	293	0	0	0	0.00	1.54	0
OC400977+	1009011	6.06	0 1-	REC_99_UNK	0	0	1053	293	0	0	0	0.00	1.54	0
1110025+	1110019	2.69	739 3-	336.4 ACSR	2520	2409	2212	346	3816	85	16	0.05	0.88	140
SW400877-B+	1110025	2.69	738 3-	Closed	2520	2409	2212	346	3806	85	0	0.00	0.88	0
SW400877-A+	SW400877-B	2.69	738 3-	Closed	2520	2409	2212	346	3806	85	0	0.00	0.88	0
1010101+	SW400877-A	4.69	738 3-	336.4 ACSR	2042	1915	1676	337	3806	85	16	0.48	1.36	1303
1010053+	1010101	4.91	47 1-	4 ACSR	0	0	1590	332	196	13	9	0.07	1.42	11
OC400958+	1010053	4.91	45 1-	REC_50_UNK	0	0	1590	332	191	12	26	0.00	1.42	0
1010057+	OC400958	4.92	1 1-	4 ACSR	0	0	1587	332	7	0	0	0.00	1.42	0
1010054+	OC400958	5.57	44 1-	4 ACSR	0	0	1370	319	184	12	9	0.15	1.58	23
1010055+	1010054	5.87	33 1-	6 ACWC	0	0	1285	313	131	8	6	0.05	1.63	5
1010056+	1010055	6.86	27 1-	4 ACSR	0	0	1053	296	96	6	5	0.07	1.70	4
SW401085-B+	1010056	6.86	0 1-	Open	0	0	1053	296	0	0	0	0.00	1.70	0
1010065+	1010101	5.16	537 3-	336.4 ACSR	1955	1826	1586	335	2906	65	12	0.09	1.45	192
OC400962+	1010065	5.16	530 3-	REC_100_UNK	1955	1826	1586	335	2846	63	64	0.00	1.45	0
1010066+	OC400962	6.02	530 3-	336.4 ACSR	1811	1684	1442	331	2846	63	12	0.16	1.61	336
1010088+	1010066	7.44	22 1-	4 ACSR	0	0	1092	303	121	8	6	0.13	1.74	9
1010071+	1010066	7.75	495 3-	336.4 ACSR	1580	1456	1221	323	2641	59	11	0.29	1.90	559
1010077+	1010071	7.91	240 3-	336.4 ACSR	1560	1438	1203	322	1292	29	5	0.01	1.91	14
1010080+	1010077	7.93	197 3-	1/0 ACSR	1557	1435	1201	322	1047	23	10	0.00	1.92	3
OC400968+	1010080	7.93	197 3-	REC_50_UNK	1557	1435	1201	322	1047	23	47	0.00	1.92	0
0910023+	OC400968	11.73	197 3-	1/0 ACSR	1073	994	784	286	1047	23	10	0.65	2.57	533
0910002+	0910023	12.70	139 3-	1/0 ACSR	992	920	720	278	791	17	8	0.14	2.70	91
0910004+	0910002	12.75	15 3-	1/0 ACSR	988	916	716	278	79	1	1	0.00	2.70	0
0910010+	0910004	12.78	15 1-	4 ACSR	0	0	713	277	79	5	4	0.00	2.71	0
AU400001	0910010	12.78	14 1-	99 KVA 1PH AUTO	0	0	234	138	70	4	70	0.56	3.27	0
0910011	AU400001	13.59	14 1-	4 ACSR	0	0	224	132	70	9	7	0.18	3.45	8
0910017	0910011	13.66	1 1-	2 ACSR	0	0	223	132	4	0	0	0.00	3.45	0
OC400969+	0910010	12.78	0 1-	REC_99_UNK	0	0	713	277	0	0	0	0.00	2.71	0
0910003+	0910002	13.95	114 3-	1/0 ACSR	902	838	649	268	665	15	7	0.13	2.83	65
0910013+	0910003	13.98	27 2-	1/0 ACSR	0	836	648	268	144	4	2	0.00	2.83	0
0910006+	0910013	14.07	17 1-	6 ACWC	0	0	641	266	109	7	5	0.01	2.85	1
OC400975+	0910006	14.07	16 1-	REC_25_UNK	0	0	641	266	101	6	27	0.00	2.85	0
0910007+	OC400975	15.60	16 1-	6 ACWC	0	0	549	247	101	6	5	0.11	2.96	7
0910014+	0910013	15.23	10 2-	1/0 ACSR	0	764	590	258	34	1	1	0.01	2.84	0
OC400974+	0910014	15.23	0 2-	25-2E	0	764	590	258	0	0	0	0.00	2.84	0
0909004+	OC400974	15.23	0 2-	1/0 ACSR	0	764	590	258	0	0	0	0.00	2.84	0
0910015+	0910003	14.01	47 1-	6 ACWC	0	0	645	267	293	19	14	0.02	2.86	6
OC400972+	0910015	14.01	46 1-	REC_25_UNK	0	0	645	267	283	19	77	0.00	2.86	0
0909007+	OC400972	14.94	46 1-	6 ACWC	0	0	586	255	283	19	14	0.30	3.16	66
0909005+	0909007	15.48	22 1-	4 ACSR	0	0	555	248	157	10	8	0.07	3.23	7
0909003+	0909005	15.56	2 1-	2 ACSR	0	0	551	247	17	1	1	0.00	3.23	0
0910005+	0910023	11.81	0 1-	4 ACSR	0	0	777	285	0	0	0	0.00	2.57	0
1010078+	1010077	7.97	40 3-	336.4 ACSR	1554	1431	1197	322	221	4	1	0.00	1.91	0
1010079+	1010078	9.15	38 3-	4 ACSR	1290	1212	982	300	208	4	3	0.05	1.97	7
1010092+	1010079	9.19	2 1-	4 ACSR	0	0	976	299	3	0	0	0.00	1.97	0
SW400880-B+	1010079	9.15	0 3-	Open	1290	1212	982	300	0	0	0	0.00	1.97	0
1010072+	1010071	7.85	217 3-	3/0 ACSR	1564	1441	1206	322	1163	26	9	0.01	1.91	14
1010073+	1010072	7.85	216 3-	336.4 ACSR	1563	1440	1206	322	1158	26	5	0.00	1.91	0
OC400970+	1010073	7.85	216 3-	REC_99_UNK	1563	1440	1206	322	1158	26	0	0.00	1.91	0
1010074+	OC400970	8.19	216 3-	336.4 ACSR	1525	1404	1166	320	1158	26	5	0.03	1.94	22
1010075+	1010074	8.54	210 3-	3/0 ACSR	1475	1355	1121	318	1139	25	9	0.05	1.99	42

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1010076+	1010075	8.60	186 3-	336.4 ACSR	1468	1349	1115	317	1030	23	4	0.00	1.99	3
1010093+	1010076	8.61	51 1-	4 ACSR	0	0	1114	317	195	13	9	0.00	1.99	0
OC400971+	1010093	8.61	51 1-	35-H	0	0	1114	317	195	13	38	0.00	1.99	0
1010094+	OC400971	9.68	51 1-	4 ACSR	0	0	939	298	195	13	9	0.28	2.27	45
1010095+	1010094	9.72	40 1-	6 ACWC	0	0	934	297	152	10	7	0.01	2.28	0
1010096+	1010095	10.39	39 1-	2 ACSR	0	0	862	289	152	10	6	0.10	2.37	12
0910025+	1010096	11.45	31 1-	6 ACWC	0	0	745	273	132	8	6	0.15	2.53	15
0909002+	0910025	12.65	19 1-	4 ACSR	0	0	642	257	65	4	3	0.06	2.59	2
1010085+	1010076	8.71	135 3-	1/0 ACSR	1452	1333	1101	316	835	18	8	0.02	2.01	11
1009021+	1010085	9.54	133 3-	1/0 ACSR	1332	1227	1000	308	824	18	8	0.12	2.13	82
1009009+	1009021	10.42	114 3-	1/0 ACSR	1224	1130	912	300	542	12	5	0.08	2.21	38
1009012+	1009009	10.47	1 1-	2 ACSR	0	0	907	300	6	0	0	0.00	2.21	0
1009016+	1009009	12.53	55 1-	6 ACWC	0	0	691	268	255	17	12	0.48	2.70	82
1009015+	1009016	12.76	13 1-	4 ACSR	0	0	673	264	56	3	3	0.01	2.71	0
1009014+	1009015	12.83	4 1-	6 ACWC	0	0	667	263	13	0	1	0.00	2.71	0
1009022+	1009009	12.55	42 1-	4 ACSR	0	0	688	267	203	13	10	0.32	2.53	39
OH457+	1009009	11.10	1 3-	1/0 ACSR	1151	1064	853	294	37	0	0	0.00	2.21	0
1009010+	OH457	11.17	1 1-	2 ACSR	0	0	847	294	7	0	0	0.00	2.21	0
SW401088-B+	1009021	9.54	0 1-	Closed	0	0	1000	308	192	13	0	0.00	2.13	0
SW401088-A+	SW401088-B	9.54	0 1-	Closed	0	0	1000	308	192	13	0	0.00	2.13	0
OH496+	SW401088-A	10.78	0 1-	2 ACSR	0	0	862	293	192	13	7	0.12	2.25	13
1010086+	1010085	8.77	2 1-	4 ACSR	0	0	1090	315	11	0	1	0.00	2.01	0
1010082+	1010101	4.83	94 1-	2 ACSR	0	0	1630	335	337	22	13	0.05	1.40	14
OC400959+	1010082	4.83	91 1-	REC_99_UNK	0	0	1630	335	326	21	0	0.00	1.40	0
1010084+	OC400959	4.83	2 1-	4 ACSR	0	0	1628	334	14	0	1	0.00	1.40	0
1009020+	OC400959	6.83	89 1-	2 ACSR	0	0	1149	307	313	21	12	0.31	1.72	57
1110029+	1110024	1.00	46 1-	2 ACSR	0	0	2886	349	246	16	9	0.09	0.30	18
1110030+	1110029	1.00	41 1-	6 ACWC	0	0	2879	348	213	14	10	0.00	0.30	0
OC400957+	1110030	1.00	41 1-	REC_50_UNK	0	0	2879	348	213	14	28	0.00	0.30	0
1110031+	OC400957	2.40	41 1-	6 ACWC	0	0	1751	320	213	14	10	0.27	0.57	38
1110032+	1110031	3.56	16 1-	4 ACSR	0	0	1274	299	54	3	3	0.05	0.62	1
CKT 124 total losses:		\$7,694												
SUB 21, CKT 134														
BPRT_134+	BRIDGEPORT	0.00	443 3-	SBS_99_UNK	3642	3808	3826	357	2211	49	0	0.00	0.00	0
1110020+	BPRT_134	0.06	443 3-	336.4 ACSR	3606	3748	3764	357	2211	49	9	0.01	0.01	15
1110021+	1110020	4.59	443 3-	3/0 ACSR	1781	1656	1410	323	2211	49	16	1.17	1.18	2001
1010067+	1110021	4.86	410 3-	3/0 ACSR	1725	1601	1357	321	2015	45	15	0.07	1.25	108
OC40112+	1010067	4.86	396 3-	100-E	1725	1601	1357	321	1956	43	44	0.00	1.25	0
1010068+	OC40112	6.39	396 3-	3/0 ACSR	1470	1353	1121	310	1956	43	15	0.34	1.59	519
1010059+	1010068	6.43	118 3-	1/0 ACSR	1464	1348	1117	309	737	16	7	0.00	1.60	3
1010060+	1010059	6.48	118 3-	3/0 ACSR	1458	1341	1110	309	737	16	6	0.00	1.60	3
1010061+	1010060	6.58	118 3-	1/0 ACSR	1440	1326	1095	308	737	16	7	0.01	1.61	9
OC401015+	1010061	6.58	117 3-	REC_70_UNK	1440	1326	1095	308	726	16	23	0.00	1.61	0
1010069+	OC401015	8.08	117 3-	1/0 ACSR	1232	1137	916	294	726	16	7	0.19	1.80	112
1011023+	1010069	8.14	99 3-	2/0 ACSR	1225	1131	910	294	640	14	5	0.01	1.81	3
1010100+	1011023	8.25	98 3-	1/0 ACSR	1212	1120	900	293	635	14	6	0.01	1.82	7
1011024+	1010100	8.54	98 1-	336.4 ACSR	0	0	882	292	635	42	8	0.06	1.88	27
1011014+	1011024	8.58	98 1-	3/0 ACSR	0	0	879	291	635	42	14	0.01	1.89	6
OC401022+	1011014	8.58	98 1-	35-2E	0	0	879	291	635	42	123	0.00	1.89	0
1011015+	OC401022	8.60	98 1-	3/0 ACSR	0	0	877	291	635	42	14	0.01	1.90	4
1011019+	1011015	9.78	33 1-	4 ACSR	0	0	744	273	274	18	13	0.24	2.14	39

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1010102+	1011015	9.89	64 1-	4 ACSR	0	0	734	271	352	23	17	0.60	2.49	172
1011018+	1010102	9.94	2 1-	4 ACSR	0	0	729	271	12	0	1	0.00	2.49	0
SW401082-A+	1011018	9.94	0 1-	Open	0	0	729	271	0	0	0	0.00	2.49	0
1011017+	1010102	11.57	48 1-	2 ACSR	0	0	625	255	259	17	10	0.22	2.72	33
1010062+	1010068	8.39	230 3-	3/0 ACSR	1231	1132	914	296	973	21	7	0.23	1.82	176
1010064+	1010062	8.51	208 3-	2 ACSR	1214	1118	900	295	904	20	11	0.03	1.85	24
1010058+	1010064	9.66	137 3-	2 ACSR	1071	995	786	281	572	12	7	0.17	2.02	83
1010089+	1010058	9.66	16 1-	4 ACSR	0	0	785	281	97	6	5	0.00	2.02	0
OC401017+	1010089	9.66	16 1-	REC_50_UNK	0	0	785	281	97	6	13	0.00	2.02	0
1010090+	OC401017	11.33	16 1-	2 ACSR	0	0	664	264	97	6	4	0.09	2.12	6
1011013+	1010090	11.74	2 1-	4 ACSR	0	0	634	259	12	0	1	0.01	2.12	0
1011020+	1011013	11.74	1 1-	1/0 URD PRI AL_	0	0	634	432	12	0	0	0.00	2.12	0
1011012+	1010090	11.58	1 1-	2 ACSR	0	0	650	262	3	0	0	0.00	2.12	0
SW401082-B+	1011012	11.58	0 1-	Open	0	0	650	262	0	0	0	0.00	2.12	0
1010081+	1010058	9.95	104 1-	1/0 ACSR	0	0	766	279	392	26	12	0.08	2.10	25
OC401018+	1010081	9.95	102 1-	REC_50_UNK	0	0	766	279	382	25	52	0.00	2.10	0
0910024+	OC401018	15.36	102 1-	1/0 ACSR	0	0	517	242	382	25	11	0.90	3.00	215
0910012+	0910024	15.36	28 1-	1/0 ACSR	0	0	517	241	94	6	3	0.00	3.00	0
OC401019+	0910012	15.36	28 1-	25-2E	0	0	517	241	94	6	26	0.00	3.00	0
0810004+	OC401019	17.60	28 1-	1/0 ACSR	0	0	455	228	94	6	3	0.10	3.10	6
0810001+	0810004	18.09	3 1-	4 ACSR	0	0	438	224	29	1	1	0.01	3.11	0
0810002+	0810001	18.47	1 1-	2 ACSR	0	0	428	221	10	0	0	0.00	3.11	0
0910008+	0910024	15.95	3 1-	4 ACSR	0	0	490	235	2	0	0	0.00	3.00	0
1010052+	1010064	9.32	71 1-	2 ACSR	0	0	819	285	332	22	12	0.25	2.11	70
OC401016+	1010052	9.32	62 1-	REC_35_UNK	0	0	819	285	284	19	55	0.00	2.11	0
0910022+	OC401016	12.68	62 1-	2 ACSR	0	0	592	252	284	19	11	0.54	2.65	95
0910001+	0910022	14.62	12 1-	6 ACWC	0	0	490	230	36	2	2	0.05	2.70	0
1010063+	1010062	8.45	0 3-	3/0 ACSR	1224	1126	909	296	0	0	0	0.00	1.82	0
SW400880-A+	1010063	8.45	0 3-	Open	1224	1126	909	296	0	0	0	0.00	1.82	0
1010051+	1110021	4.59	0 1-	4 ACSR	0	0	1409	323	0	0	0	0.00	1.18	0
SW401085-A+	1010051	4.59	0 1-	Open	0	0	1409	323	0	0	0	0.00	1.18	0
CKT 134 total losses:	\$3,761													
SUB 21, CKT 144														
BPRT_144+	BRIDGEPORT	0.00	963 3-	SBS_99_UNK	3642	3808	3826	357	4709	104	0	0.00	0.00	0
1110017+	BPRT_144	2.81	963 3-	336.4 ACSR	2486	2369	2124	344	4709	104	20	0.74	0.74	2839
SW401025-B+	1110017	2.81	913 3-	Closed	2486	2369	2124	344	4480	99	0	0.00	0.74	0
SW401025-A+	SW401025-B	2.81	913 3-	Closed	2486	2369	2124	344	4480	99	0	0.00	0.74	0
1210079+	SW401025-A	3.10	913 3-	336.4 ACSR	2403	2283	2026	343	4480	99	19	0.07	0.82	272
1210080+	1210079	3.50	867 3-	336.4 ACSR	2302	2177	1911	341	4213	94	18	0.11	0.92	334
1210081+	1210080	3.96	778 3-	336.4 ACSR	2194	2066	1791	339	3761	84	16	0.10	1.02	249
1210085+	1210081	4.07	255 3-	336.4 ACSR	2169	2040	1763	338	1116	24	5	0.01	1.03	7
1210086+	1210085	4.24	196 3-	336.4 ACSR	2133	2003	1724	337	986	22	4	0.01	1.04	8
OC401076+	1210086	4.24	195 3-	70-E	2133	2003	1724	337	976	21	31	0.00	1.04	0
1210087+	OC401076	4.33	195 3-	336.4 ACSR	2114	1984	1705	337	976	21	4	0.00	1.05	3
1210091+	1210087	5.01	109 3-	4 ACSR	1844	1720	1454	323	505	11	8	0.08	1.12	23
1210105+	1210091	5.06	3 1-	2 ACSR	0	0	1442	322	12	0	0	0.00	1.12	0
1210088+	1210085	4.13	57 3-	336.4 ACSR	2157	2028	1751	338	127	2	1	0.00	1.03	0
OC401079+	1210088	4.13	57 3-	REC_50_UNK	2157	2028	1751	338	127	2	6	0.00	1.03	0
1210089+	OC401079	4.29	57 3-	336.4 ACSR	2121	1992	1712	337	127	2	1	0.00	1.03	0
1210090+	1210089	4.46	4 3-	336.4 ACSR	2088	1958	1678	336	12	0	0	0.00	1.03	0
1210082+	1210081	4.12	257 3-	4 ACSR	2125	1989	1726	335	1619	36	26	0.10	1.12	136

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 22 NINEVAH			1463		5895	6095	6116	180	8087					
SUB 22, CKT 104														
NINV_104	NINEVAH	0.00	349 3-	SBS_99_UNK	5895	6095	6116	180	2075	91 0	0.00	0.00	0.00	0
1311044	NINV_104	1.07	349 3-	336.4 ACSR	3747	3549	3171	178	2075	91 17	0.51	0.51	854	0
1311049	1311044	1.09	55 2-	1/0 ACSR	0	3498	3120	178	252	17 7	0.01	0.52	2	0
SW400002-B	1311049	1.09	55 2-	Closed	0	3498	3120	178	252	17 0	0.00	0.52	0	0
SW400002-A	SW400002-B	1.09	55 2-	Closed	0	3498	3120	178	252	17 0	0.00	0.52	0	0
1311050	SW400002-A	1.72	55 2-	1/0 ACSR	0	2537	2191	174	252	17 7	0.19	0.71	34	0
1311033	1311050	1.72	38 1-	4 ACSR	0	0	2183	174	143	19 14	0.01	0.72	0	0
OC400059	1311033	1.72	38 1-	REC_50_UNK	0	0	2183	174	143	19 39	0.00	0.72	0	0
1311034	OC400059	3.70	38 1-	2 ACSR	0	0	990	161	143	19 11	0.61	1.32	48	0
1311117	1311034	5.21	0 1-	6 ACWC	0	0	634	148	0	0 0	0.00	1.32	0	0
1312001	1311117	7.21	0 1-	2 ACSR	0	0	461	137	0	0 0	0.00	1.32	0	0
1311058	1311050	1.72	13 1-	4 ACSR	0	0	2183	174	52	7 5	0.00	0.71	0	0
OC400060	1311058	1.72	13 1-	REC_50_UNK	0	0	2183	174	52	7 14	0.00	0.71	0	0
1311059	OC400060	2.43	13 1-	4 ACSR	0	0	1426	167	52	7 5	0.11	0.83	3	0
1311045	1311044	1.82	289 3-	336.4 ACSR	2965	2758	2354	176	1765	78 15	0.29	0.80	428	0
1311040	1311045	2.52	261 3-	336.4 ACSR	2481	2284	1898	175	1532	68 13	0.21	1.02	298	0
1311062	1311040	3.02	206 3-	336.4 ACSR	2224	2036	1659	174	1172	52 10	0.09	1.11	118	0
1311046	1311062	3.16	175 3-	336.4 ACSR	2162	1979	1606	174	1048	46 9	0.02	1.13	29	0
1311041	1311046	3.25	6 3-	4 ACSR	2072	1907	1535	173	59	2 2	0.01	1.14	0	0
1311032	1311041	3.28	1 1-	4 ACSR	0	0	1514	172	0	0 0	0.00	1.14	0	0
1311047	1311046	3.26	169 3-	336.4 ACSR	2118	1939	1568	173	989	44 8	0.02	1.15	19	0
OC400056	1311047	3.26	169 3-	REC_70_UNK	2118	1939	1568	173	988	44 63	0.00	1.15	0	0
1311048	OC400056	6.73	169 3-	336.4 ACSR	1248	1141	873	166	988	44 8	0.38	1.53	500	0
1411151	1311048	6.86	19 1-	4 ACSR	0	0	846	165	111	15 11	0.08	1.61	7	0
OC400050	1411151	6.86	17 1-	35-H	0	0	846	165	95	13 37	0.00	1.61	0	0
1411152	OC400050	7.52	17 1-	4 ACSR	0	0	715	158	95	13 9	0.20	1.81	11	0
1411120	1311048	6.81	104 3-	336.4 ACSR	1237	1130	864	166	599	27 5	0.01	1.54	5	0
SW400006-B	1411120	6.81	102 3-	Closed	1237	1130	864	166	558	25 0	0.00	1.54	0	0
SW400006-A	SW400006-B	6.81	102 3-	Closed	1237	1130	864	166	558	25 0	0.00	1.54	0	0
1411116	SW400006-A	6.92	102 3-	336.4 ACSR	1220	1116	852	166	558	25 5	0.02	1.56	7	0
1411126	1411116	6.97	37 1-	4 ACSR	0	0	842	165	237	32 23	0.07	1.63	13	0
OC400051	1411126	6.97	36 1-	50-H	0	0	842	165	233	31 64	0.00	1.63	0	0
1411127	OC400051	7.45	36 1-	4 ACSR	0	0	748	161	233	31 23	0.69	2.32	140	0
1411137	1411127	7.52	29 1-	4 ACSR	0	0	734	160	194	26 19	0.09	2.41	14	0
1411138	1411137	7.64	28 1-	6 ACWC	0	0	714	159	178	24 18	0.13	2.53	20	0
1411133	1411138	7.64	27 1-	2 ACSR	0	0	713	159	178	24 14	0.00	2.54	0	0
OC400052	1411133	7.64	27 1-	REC_25_UNK	0	0	713	159	178	24 98	0.00	2.54	0	0
1411135	OC400052	7.77	25 1-	2 ACSR	0	0	697	158	149	20 11	0.07	2.61	8	0
1411139	1411135	8.72	22 1-	6 ACWC	0	0	567	149	108	14 11	0.38	2.99	27	0
1311051	1411139	9.02	2 1-	2 ACSR	0	0	541	148	22	2 2	0.01	3.01	0	0
1411134	OC400052	7.71	2 1-	2 ACSR	0	0	704	158	28	3 2	0.00	2.54	0	0
1411128	1411127	8.81	6 1-	4 ACSR	0	0	552	148	38	5 4	0.16	2.48	4	0
1411117	1411116	7.64	65 3-	336.4 ACSR	1127	1030	782	164	322	14 3	0.06	1.62	10	0
SW400009-B	1411117	7.64	46 3-	Closed	1127	1030	782	164	191	8 0	0.00	1.62	0	0
SW400009-A	SW400009-B	7.64	46 3-	Closed	1127	1030	782	164	191	8 0	0.00	1.62	0	0
1411118	SW400009-A	7.74	46 3-	336.4 ACSR	1115	1019	774	164	191	8 2	0.01	1.62	0	0
1411129	1411118	7.74	46 1-	4 ACSR	0	0	773	164	191	26 19	0.01	1.63	0	0
OC400053	1411129	7.74	46 1-	REC_35_UNK	0	0	773	164	191	26 75	0.00	1.63	0	0
1411130	OC400053	8.15	46 1-	4 ACSR	0	0	704	160	191	26 19	0.45	2.09	73	0
1411136	1411130	9.25	42 1-	4 ACSR	0	0	558	150	151	20 15	0.52	2.61	46	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW400401-A	1411136	9.25	0 1-	Open	0	0	558	150	0	0	0.00	2.61	0	
1411131	1411130	8.15	2 1-	4 ACSR	0	0	703	160	18	2	2	0.00	2.09	0
SW400010-B	1411131	8.15	2 1-	Closed	0	0	703	160	18	2	0	0.00	2.09	0
SW400010-A	SW400010-B	8.15	2 1-	Closed	0	0	703	160	18	2	0	0.00	2.09	0
1411132	SW400010-A	8.16	2 1-	4 ACSR	0	0	702	160	18	2	2	0.00	2.09	0
1411119	1411118	8.17	0 3-	336.4 ACSR	1067	975	738	163	0	0	0	0.00	1.62	0
SW400003-A	1411119	8.17	0 3-	Open	1067	975	738	163	0	0	0	0.00	1.62	0
NEWCAP-4P7C09D5	1311048	6.73	0 3-	Capacitor	1248	1141	873	166	0	-14	0	0.00	1.53	0
1310090	1311040	2.54	35 1-	2 ACSR	0	0	1882	175	264	35	20	0.02	1.04	4
1310091	1310090	2.55	34 1-	4 ACSR	0	0	1876	175	261	35	25	0.01	1.04	2
OC400057	1310091	2.55	34 1-	REC_50_UNK	0	0	1876	175	261	35	71	0.00	1.04	0
1310094	OC400057	2.59	11 1-	4 ACSR	0	0	1836	174	77	10	8	0.01	1.05	0
1310092	OC400057	2.67	23 1-	4 ACSR	0	0	1757	173	183	24	18	0.10	1.14	13
1310093	1310092	2.82	9 1-	2 ACSR	0	0	1649	172	77	10	6	0.02	1.17	0
1311054	1311045	1.83	16 1-	4 ACSR	0	0	2345	176	136	18	13	0.00	0.81	0
OC400058	1311054	1.83	16 1-	50-L	0	0	2345	176	136	18	37	0.00	0.81	0
1311055	OC400058	1.90	16 1-	4 ACSR	0	0	2242	175	136	18	13	0.06	0.86	7
1311056	1311055	2.04	16 1-	2 ACSR	0	0	2072	174	136	18	10	0.07	0.93	7
1311057	1311056	2.49	9 1-	4 ACSR	0	0	1586	170	86	11	8	0.18	1.11	11
1311052	1311057	2.57	4 1-	2 ACSR	0	0	1532	169	42	5	3	0.01	1.13	0
1311053	1311052	2.87	4 1-	4 ACSR	0	0	1316	166	42	5	4	0.06	1.18	2
1311060	1311053	2.90	1 1-	1/0 URD PRI AL	0	0	1305	384	21	2	2	0.00	1.19	0
CKT 104 total losses:	\$2,764													
SUB 22, CKT 114														
NINV_114	NINEVAH	0.00	67 3-	SBS_99_UNK	5895	6095	6116	180	708	31	0	0.00	0.00	0
1310115	NINV_114	3.31	67 3-	336.4 ACSR	2094	1911	1499	173	708	31	6	0.62	0.62	264
SW400063-B	1310115	3.31	31 3-	Closed	2094	1911	1499	173	532	24	0	0.00	0.62	0
SW400063-A	SW400063-B	3.31	31 3-	Closed	2094	1911	1499	173	532	24	0	0.00	0.62	0
1310070	SW400063-A	4.80	31 3-	336.4 ACSR	1617	1465	1116	170	532	24	5	0.22	0.85	75
1310062	1310070	4.85	9 3-	336.4 ACSR	1606	1455	1107	169	192	8	2	0.00	0.85	0
1310063	1310062	4.85	9 3-	1/0 ACSR	1604	1453	1106	169	192	8	4	0.00	0.85	0
OC400099	1310063	4.85	9 3-	50-L	1604	1453	1106	169	192	8	17	0.00	0.85	0
1310064	OC400099	5.30	9 3-	1/0 ACSR	1449	1320	998	167	192	8	4	0.03	0.88	3
1310071	1310070	4.85	13 3-	336.4 ACSR	1606	1455	1107	169	271	12	2	0.00	0.85	0
1310061	1310071	5.64	11 3-	1/0 ACSR	1347	1232	928	166	270	12	5	0.08	0.93	12
CKT 114 total losses:	\$354													
SUB 22, CKT 134														
NINV_134	NINEVAH	0.00	1003 3-	SBS_99_UNK	5895	6095	6116	180	5122	230	0	0.00	0.00	0
XFMR24+	NINV_134	0.00	1003 3-	5000kVA AUTO	1297	1316	1318	346	5122	230	100	1.04	1.04	0
1311035+	XFMR24	1.20	1003 3-	336.4 ACSR	1214	1204	1182	339	5122	115	22	0.41	1.46	1479
1311037+	1311035	1.65	545 3-	336.4 ACSR	1185	1171	1138	337	3012	68	13	0.10	1.56	203
1211048+	1311037	2.27	351 3-	336.4 ACSR	1147	1129	1082	334	1771	40	8	0.08	1.64	92
OC400196+	1211048	2.27	336 3-	REC_99_UNK	1147	1129	1082	334	1633	37	0	0.00	1.64	0
1210115+	OC400196	5.46	336 3-	336.4 ACSR	985	949	861	316	1633	37	7	0.27	1.91	229
1210093+	1210115	5.50	108 3-	336.4 ACSR	983	947	859	316	575	13	2	0.00	1.91	0
OC400204+	1210093	5.50	108 3-	REC_99_UNK	983	947	859	316	575	13	0	0.00	1.91	0
1210094+	OC400204	6.52	108 3-	336.4 ACSR	940	901	808	311	575	13	2	0.04	1.95	16
1210070+	1210094	6.97	37 1-	4 ACSR	0	0	771	303	271	18	13	0.10	2.05	15
1210095+	1210094	7.21	67 3-	336.4 ACSR	913	872	777	308	279	6	1	0.01	1.96	2
1210106+	1210095	7.70	36 1-	4 ACSR	0	0	740	299	116	7	6	0.04	2.01	3

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1210092+	1210115	5.49	0 3-	4 ACSR	982	946	858	316	0	0	0	0.00	1.91	0
SW400758-B+	1210092	5.49	0 3-	Open	982	946	858	316	0	0	0	0.00	1.91	0
1311038+	1311037	1.84	179 3-	2 ACSR	1168	1152	1112	334	1175	26	15	0.07	1.62	67
OC400191+	1311038	1.84	178 3-	REC_99_UNK	1168	1152	1112	334	1164	26	0	0.00	1.62	0
1211047+	OC400191	3.05	178 3-	2 ACSR	1063	1029	961	316	1164	26	15	0.39	2.01	378
SW400104-B+	1211047	3.05	154 3-	Closed	1063	1029	961	316	1011	23	0	0.00	2.01	0
SW400104-A+	SW400104-B	3.05	154 3-	Closed	1063	1029	961	316	1011	23	0	0.00	2.01	0
1211035+	SW400104-A	3.59	154 3-	2 ACSR	1018	978	903	309	1011	23	13	0.16	2.17	139
1211036+	1211035	3.96	152 3-	1/0 ACSR	991	949	872	305	988	22	10	0.07	2.24	60
1211037+	1211036	4.40	137 3-	1/0 ACSR	961	917	836	301	913	20	9	0.08	2.32	57
1211043+	1211037	4.61	33 1-	6 ACWC	0	0	815	297	219	15	11	0.07	2.39	13
1211042+	1211043	4.71	31 1-	4 ACSR	0	0	805	295	202	13	10	0.02	2.42	3
1211041+	1211042	5.15	12 1-	6 ACWC	0	0	764	288	104	7	5	0.04	2.45	2
1211038+	1211037	5.50	99 3-	1/0 ACSR	892	843	756	291	665	15	7	0.12	2.44	60
OC400193+	1211038	5.50	64 3-	REC_99_UNK	892	843	756	291	452	10	0	0.00	2.44	0
1211040+	OC400193	5.61	64 3-	1/0 ACSR	885	836	749	290	452	10	5	0.01	2.45	3
1211029+	1211040	6.08	50 1-	6 ACWC	0	0	711	282	357	24	18	0.23	2.68	67
1211030+	1211029	6.82	34 1-	4 ACSR	0	0	655	271	279	19	14	0.29	2.98	66
1211031+	1211030	6.89	28 1-	6 ACWC	0	0	650	270	219	15	11	0.02	3.00	4
1211032+	1211031	6.93	28 1-	4 ACSR	0	0	647	269	219	15	11	0.01	3.01	2
1211033+	1211032	7.09	22 1-	6 ACWC	0	0	637	267	181	12	9	0.03	3.05	4
1211034+	1211033	7.71	10 1-	4 ACSR	0	0	597	259	89	6	4	0.04	3.09	2
1211044+	1211036	4.11	15 1-	1/0 URD PRI AL	0	0	862	567	74	5	3	0.01	2.26	0
1211026+	1211044	4.39	15 1-	6 ACWC	0	0	833	298	74	5	4	0.03	2.28	2
1211027+	1211026	4.39	13 1-	4 ACSR	0	0	833	298	58	3	3	0.00	2.29	0
OC400192+	1211027	4.39	13 1-	REC_99_UNK	0	0	833	298	58	3	0	0.00	2.29	0
1211023+	OC400192	4.61	13 1-	4 ACSR	0	0	811	295	58	3	3	0.02	2.30	0
1211024+	1211023	5.02	12 1-	6 ACWC	0	0	771	288	56	3	3	0.03	2.33	1
1211028+	1211024	5.32	2 1-	4 ACSR	0	0	744	283	10	0	0	0.00	2.34	0
1211025+	1211024	5.23	7 1-	6 ACWC	0	0	752	284	22	1	1	0.00	2.34	0
1311036+	1311035	1.55	411 3-	4/0 ACSR	1186	1174	1143	337	1851	42	12	0.07	1.53	91
1310065+	1311036	2.46	390 3-	3/0 ACSR	1116	1095	1045	329	1724	39	13	0.21	1.73	262
OC400199+	1310065	2.46	380 3-	REC_50_UNK	1116	1095	1045	329	1605	36	73	0.00	1.73	0
1310066+	OC400199	2.89	380 3-	3/0 ACSR	1085	1061	1005	326	1605	36	12	0.09	1.83	112
1310107+	1310066	2.93	59 1-	2 ACSR	0	0	1001	326	433	29	17	0.01	1.84	5
SW400208-A+	1310107	2.93	56 1-	Closed	0	0	1001	326	391	26	0	0.00	1.84	0
SW400208-B+	SW400208-A	2.93	56 1-	Closed	0	0	1001	326	391	26	0	0.00	1.84	0
1310104+	SW400208-B	3.12	56 1-	2 ACSR	0	0	980	323	391	26	15	0.07	1.91	20
1310105+	1310104	3.31	38 1-	2 ACSR	0	0	960	320	275	18	10	0.04	1.95	9
1310106+	1310105	3.54	19 1-	1/0 ACSR	0	0	939	318	158	10	5	0.01	1.97	0
1310067+	1310066	3.57	318 3-	3/0 ACSR	1040	1011	946	321	1159	26	9	0.10	1.92	81
1310102+	1310067	3.89	66 1-	4 ACSR	0	0	910	314	259	17	13	0.11	2.03	22
1310103+	1310102	4.38	44 1-	2 ACSR	0	0	865	308	178	12	7	0.05	2.08	5
1310068+	1310067	4.02	218 3-	3/0 ACSR	1011	980	911	317	718	16	5	0.03	1.96	16
1310060+	1310068	4.65	67 1-	4 ACSR	0	0	845	305	408	27	20	0.38	2.33	128
OC400200+	1310060	4.65	61 1-	REC_50_UNK	0	0	845	305	355	24	49	0.00	2.33	0
1210064+	OC400200	4.69	61 1-	4 ACSR	0	0	841	305	355	24	17	0.02	2.36	8
1210069+	1210064	4.85	7 1-	4 ACSR	0	0	826	302	44	3	2	0.01	2.36	0
SW400209-B+	1210069	4.85	0 1-	Open	0	0	826	302	0	0	0	0.00	2.36	0
1210065+	1210064	5.31	54 1-	4 ACSR	0	0	782	294	310	21	15	0.23	2.59	52
1210067+	1210065	6.48	15 1-	6 ACWC	0	0	684	275	117	8	6	0.11	2.70	8
1210068+	1210067	6.50	1 1-	2 ACSR	0	0	683	275	6	0	0	0.00	2.70	0

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Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 23 SINAI			2158		5564	5843	5898	180	11923					
SUB 23, CKT 104														
SINI_104	SINAI	0.00	213 3-	SBS_99_UNK	5564	5843	5898	180	1083	48 0	0.00	0.00	0.00	0
1409052	SINI_104	4.82	213 3-	336.4 ACSR	1588	1439	1106	170	1083	48 9	1.18	1.18	1.18	725
1409071	1409052	4.82	83 3-	4 ACSR	1585	1437	1104	169	472	21 15	0.00	1.19	1.19	2
OC400537	1409071	4.82	83 3-	REC_50_UNK	1585	1437	1104	169	472	21 43	0.00	1.19	1.19	0
1409072	OC400537	6.79	83 3-	4 ACSR	864	832	632	151	472	21 15	1.36	2.55	2.55	514
1409074	1409072	8.96	60 3-	4 ACSR	545	537	415	134	304	13 10	0.67	3.22	3.22	133
1509077	1409074	9.04	3 2-	4 ACSR	0	530	410	134	41	2 2	0.01	3.23	3.23	0
1509089	1509077	9.04	2 1-	4 ACSR	0	0	410	133	30	4 3	0.00	3.23	3.23	0
1409073	1409072	6.88	0 3-	1/0 ACSR	853	821	623	150	0	0 0	0.00	2.55	2.55	0
SW400741-B	1409073	6.88	0 3-	Open	853	821	623	150	0	0 0	0.00	2.55	2.55	0
1409066	1409052	4.95	15 3-	336.4 ACSR	1557	1412	1082	169	109	4 1	0.00	1.19	1.19	0
OC400557	1409066	4.95	14 3-	REC_99_UNK	1557	1412	1082	169	108	4 0	0.00	1.19	1.19	0
1409067	OC400557	6.60	14 3-	336.4 ACSR	1252	1134	848	166	108	4 1	0.03	1.21	1.21	1
CKT 104 total losses:		\$1,375												
SUB 23, CKT 114														
SINI_114	SINAI	0.00	808 3-	SBS_99_UNK	5564	5843	5898	180	4375	195 0	0.00	0.00	0.00	0
1409053	SINI_114	0.93	808 3-	336.4 ACSR	3789	3626	3323	178	4375	195 37	1.11	1.11	1.11	3375
1409054	1409053	1.63	700 3-	336.4 ACSR	3033	2842	2479	177	3828	172 32	0.72	1.83	1.83	1981
1409064	1409054	2.03	515 3-	1/0 ACSR	2582	2388	2027	175	3111	140 61	0.91	2.74	2.74	2425
1509103	1409064	2.32	422 3-	1/0 ACSR	2317	2144	1782	173	2522	114 50	0.53	3.27	3.27	1157
1509070	1509103	3.49	409 3-	1/0 ACSR	1626	1512	1193	167	2440	113 49	2.26	5.53	4544	4544
1509071	1509070	4.16	348 3-	1/0 ACSR	1382	1289	1001	164	2038	96 42	1.09	6.62	1853	1853
RG400015	1509071	4.16	333 3-	219	1382	1289	1001	164	1949	92 42	-6.62	0.00	0.00	0
1509068	RG400015	4.72	333 3-	1/0 ACSR	1224	1144	879	161	1949	87 38	0.85	0.85	1337	1337
1509081	1509068	4.73	18 1-	4 ACSR	0	0	878	161	110	14 11	0.00	0.86	0.86	0
OC400619	1509081	4.73	18 1-	REC_35_UNK	0	0	878	161	110	14 43	0.00	0.86	0.86	0
1509082	OC400619	4.73	18 1-	4 ACSR	0	0	877	161	110	14 11	0.00	0.86	0.86	0
1509083	1509082	5.95	18 1-	6 ACWC	0	0	634	150	110	14 11	0.50	1.36	36	36
1509096	1509083	6.34	5 1-	4 ACSR	0	0	580	147	28	3 3	0.03	1.40	0	0
1509069	1509068	5.09	313 3-	1/0 ACSR	1140	1067	816	159	1791	81 35	0.50	1.35	716	716
OC400622	1509069	5.09	307 3-	REC_70_UNK	1140	1067	816	159	1715	77 111	0.00	1.35	0	0
1509072	OC400622	5.45	307 3-	1/0 ACSR	1068	1000	762	158	1715	77 34	0.46	1.81	631	631
1509073	1509072	6.22	202 3-	1/0 ACSR	939	881	666	154	1185	54 23	0.71	2.51	678	678
1509084	1509073	6.24	64 3-	1/0 ACSR	937	879	664	154	292	13 6	0.00	2.52	0	0
1509097	1509084	6.24	64 3-	1/0 ACSR	936	878	663	154	292	13 6	0.00	2.52	0	0
OC400624	1509097	6.24	64 3-	no ocr	936	878	663	154	292	13 13	0.00	2.52	0	0
1508068	OC400624	7.98	64 3-	1/0 ACSR	736	694	523	147	292	13 6	0.29	2.80	56	56
1508060	1508068	9.10	21 1-	6 ACWC	0	0	431	138	100	13 10	0.36	3.16	21	21
1508061	1508060	9.19	1 1-	4 ACSR	0	0	425	137	4	0 0	0.00	3.16	0	0
1508058	1508068	8.08	4 1-	6 ACWC	0	0	512	146	28	3 3	0.01	2.82	0	0
1508059	1508058	9.55	3 1-	4 ACSR	0	0	401	135	16	2 2	0.07	2.89	0	0
1509074	1509073	7.86	129 3-	1/0 ACSR	747	703	530	147	834	38 17	0.99	3.51	653	653
OC450325	1509074	7.86	108 3-	REC_35_UNK	747	703	530	147	702	32 93	0.00	3.51	0	0
1508038	OC450325	7.93	108 3-	1/0 ACSR	741	698	526	147	702	32 14	0.03	3.54	20	20
1608024	1508038	8.22	59 3-	1/0 ACSR	714	674	507	146	401	18 8	0.09	3.63	30	30
1608014	1608024	8.31	11 1-	6 ACWC	0	0	499	145	64	8 6	0.03	3.67	2	2
1608023	1608014	9.12	10 1-	8 ACWC	0	0	418	136	60	8 8	0.22	3.89	8	8
1608018	1608024	9.34	44 3-	1/0 ACSR	630	595	448	141	311	14 6	0.26	3.89	65	65
1608011	1608018	9.62	36 3-	1/0 ACSR	612	578	435	140	275	12 6	0.05	3.95	12	12

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1608012	1608011	10.15	28 1-	4 ACSR	0	0	402	136	213	29	21	0.55	4.50	89
1608013	1608012	10.35	13 1-	6 ACWC	0	0	390	135	121	16	12	0.15	4.65	16
1608015	1608013	10.60	10 1-	4 ACSR	0	0	376	133	110	15	11	0.13	4.77	11
1609058	1608015	12.31	5 1-	4 ACSR	0	0	303	122	52	7	5	0.28	5.06	9
1608016	1608015	10.65	1 1-	4 ACSR	0	0	374	133	5	0	1	0.00	4.78	0
1608022	1508038	8.25	48 3-	1/0 ACSR	712	672	506	146	296	13	6	0.07	3.61	16
OC400626	1608022	8.25	43 3-	no ocr	712	672	506	146	248	11	15	0.00	3.61	0
1609057	OC400626	9.32	43 3-	1/0 ACSR	631	597	449	141	248	11	5	0.16	3.77	28
1609042	1609057	9.61	19 1-	4 ACSR	0	0	428	139	129	17	13	0.15	3.92	13
1609043	1609042	10.52	3 1-	8 ACWC	0	0	360	130	34	4	5	0.14	4.06	3
1509087	1509072	5.53	85 1-	4 ACSR	0	0	745	157	388	53	38	0.20	2.01	65
OC400623	1509087	5.53	82 1-	REC_99_UNK	0	0	745	157	369	50	0	0.00	2.01	0
1509085	OC400623	6.50	82 1-	4 ACSR	0	0	589	148	369	50	36	2.08	4.08	642
1509094	1509085	7.48	20 1-	4 ACSR	0	0	484	141	100	13	10	0.45	4.53	33
1509095	1509094	8.48	10 1-	6 ACWC	0	0	409	134	45	6	5	0.14	4.67	4
1509086	1509085	7.85	49 1-	4 ACSR	0	0	453	138	216	30	21	1.40	5.48	228
1509090	1509086	8.30	17 1-	4 ACSR	0	0	420	135	85	11	9	0.18	5.66	12
1509091	1509090	8.37	7 1-	6 ACWC	0	0	415	134	42	5	4	0.02	5.68	0
1509092	1509091	8.51	7 1-	4 ACSR	0	0	406	133	42	5	4	0.03	5.71	0
1509093	1509092	8.63	5 1-	2 ACSR	0	0	400	133	21	3	2	0.01	5.72	0
1509088	1509086	9.74	10 1-	6 ACWC	0	0	341	126	28	3	3	0.17	5.65	3
1509060	1509070	3.49	53 1-	4 ACSR	0	0	1191	167	318	44	32	0.01	5.55	3
OC400618	1509060	3.49	53 1-	REC_35_UNK	0	0	1191	167	318	44	128	0.00	5.55	0
1509061	OC400618	4.12	53 1-	4 ACSR	0	0	943	161	318	44	32	1.20	6.75	331
1509062	1509061	5.41	49 1-	2 ACSR	0	0	699	153	279	39	22	1.35	8.10	297
1509065	1509062	5.86	11 1-	4 ACSR	0	0	624	149	77	11	8	0.23	8.33	16
1509066	1509065	7.03	10 1-	2 ACSR	0	0	514	142	77	11	6	0.20	8.53	9
SW400747-B	1509066	7.03	0 1-	Open	0	0	514	142	0	0	0	0.00	8.53	0
1509063	1509062	5.96	21 1-	6 ACWC	0	0	611	148	115	16	12	0.29	8.39	25
1509064	1509063	6.75	11 1-	4 ACSR	0	0	516	142	50	7	5	0.13	8.52	4
SW400746-B	1509064	6.75	0 1-	Open	0	0	516	142	0	0	0	0.00	8.52	0
CA400006	1509103	2.32	0 3-	Capacitor	2317	2144	1782	173	0	-14	0	0.00	3.27	0
1409043	1409064	2.04	92 1-	1/0 ACSR	0	0	2022	174	564	77	34	0.01	2.75	4
OC400616	1409043	2.04	92 1-	REC_50_UNK	0	0	2022	174	564	77	156	0.00	2.75	0
1409042	OC400616	2.67	92 1-	1/0 ACSR	0	0	1574	171	564	77	34	1.05	3.80	456
SW400558-B	1409042	2.67	90 1-	Closed	0	0	1574	171	523	72	0	0.00	3.80	0
SW400558-A	SW400558-B	2.67	90 1-	Closed	0	0	1574	171	523	72	0	0.00	3.80	0
1509050	SW400558-A	3.50	90 1-	1/0 ACSR	0	0	1212	167	523	72	32	1.21	5.01	475
1509051	1509050	4.03	74 1-	1/0 ACSR	0	0	1055	165	425	59	26	0.64	5.65	208
1509053	1509051	4.29	68 1-	1/0 ACSR	0	0	993	164	356	50	22	0.28	5.92	79
1509059	1509053	4.29	0 1-	4 ACSR	0	0	991	164	0	0	0	0.00	5.92	0
SW400746-A	1509059	4.29	0 1-	Open	0	0	991	164	0	0	0	0.00	5.92	0
1509054	1509053	4.35	67 1-	1/0 ACSR	0	0	978	163	344	48	21	0.07	5.99	18
OC400617	1509054	4.35	64 1-	REC_99_UNK	0	0	978	163	312	44	0	0.00	5.99	0
1509055	OC400617	5.20	64 1-	1/0 ACSR	0	0	820	159	312	44	19	0.63	6.62	136
1509057	1509055	5.69	35 1-	4 ACSR	0	0	717	155	169	23	17	0.41	7.03	53
1509058	1509057	6.86	19 1-	6 ACWC	0	0	548	145	91	13	9	0.34	7.37	19
1509056	1509055	5.21	0 1-	2 ACSR	0	0	819	159	0	0	0	0.00	6.62	0
SW400747-A	1509056	5.21	0 1-	Open	0	0	819	159	0	0	0	0.00	6.62	0
1509052	1509051	4.48	0 1-	4 ACSR	0	0	904	160	0	0	0	0.00	5.65	0
1409061	1409054	1.85	167 3-	1/0 ACSR	2771	2575	2211	175	578	26	11	0.10	1.93	46
OC400615	1409061	1.85	164 3-	REC_70_UNK	2771	2575	2211	175	563	25	37	0.00	1.93	0

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 Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1409062	OC400615	3.50	164 3-	1/0 ACSR	1620	1507	1189	167	563	25	11	0.63	2.56	270
1409063	1409062	3.51	0 3-	1/0 ACSR	1618	1505	1187	167	0	0	0	0.00	2.56	0
SW400741-A	1409063	3.51	0 3-	Open	1618	1505	1187	167	0	0	0	0.00	2.56	0
1409080	1409062	5.09	146 2-	1/0 ACSR	0	1051	815	159	419	28	13	0.54	3.10	132
1409079	1409080	5.82	37 1-	4 ACSR	0	0	671	153	74	10	7	0.17	3.27	7
1409077	1409053	0.93	89 1-	4 ACSR	0	0	3306	178	427	58	42	0.02	1.13	6
OC400611	1409077	0.93	89 1-	REC_70_UNK	0	0	3306	178	427	58	83	0.00	1.13	0
1409078	OC400611	2.39	89 1-	2 ACSR	0	0	1442	167	427	58	32	2.45	3.57	823
1509078	1409078	2.65	78 1-	2 ACSR	0	0	1306	166	351	48	27	0.38	3.95	112
1508067	1509078	4.23	76 1-	2 ACSR	0	0	815	155	336	46	26	1.92	5.87	487
1508042	1508067	4.44	8 1-	4 ACSR	0	0	766	154	28	3	3	0.03	5.90	0
1508043	1508042	5.06	6 1-	6 ACWC	0	0	649	148	18	2	2	0.06	5.96	0
1508044	1508043	5.21	2 1-	4 ACSR	0	0	624	147	15	2	2	0.01	5.97	0
1508039	1508067	4.64	43 1-	2 ACSR	0	0	743	153	189	26	15	0.30	6.17	46
OC400612	1508039	4.64	35 1-	REC_35_UNK	0	0	743	153	149	21	60	0.00	6.17	0
1508040	OC400612	6.46	35 1-	2 ACSR	0	0	531	143	149	21	12	0.70	6.86	65
1508041	1508040	7.21	6 1-	4 ACSR	0	0	460	137	25	3	2	0.06	6.92	0
CKT 114	total losses:	\$24,899												
SUB 23, CKT 124														
SINI_124	SINI_124	0.00	351 3-	SBS_99_UNK	5564	5843	5898	180	1799	81	0	0.00	0.00	0
1409049	SINI_124	1.10	351 3-	3/0 ACSR	3162	2984	2609	176	1799	81	27	1.02	1.02	1326
1408073	1409049	1.11	22 1-	4 ACSR	0	0	2597	176	178	24	17	0.01	1.02	0
OC400650	1408073	1.11	22 1-	REC_99_UNK	0	0	2597	176	178	24	0	0.00	1.02	0
1408074	OC400650	1.31	22 1-	4 ACSR	0	0	2222	173	178	24	17	0.21	1.23	32
1408075	1408074	1.44	20 1-	2 ACSR	0	0	2064	173	160	21	12	0.09	1.32	12
1408076	1408075	2.68	20 1-	6 ACWC	0	0	1066	160	160	21	16	0.87	2.19	98
1408077	1408076	2.99	5 1-	4 ACSR	0	0	948	157	70	9	7	0.10	2.29	5
1408078	1408077	3.05	1 1-	2 ACSR	0	0	930	157	34	4	3	0.00	2.29	0
1408047	1409049	2.93	311 3-	3/0 ACSR	1794	1650	1326	169	1466	66	22	1.37	2.39	1464
OC400653	1408047	2.93	285 3-	REC_70_UNK	1794	1650	1326	169	1313	60	86	0.00	2.39	0
1508035	OC400653	3.32	285 3-	3/0 ACSR	1641	1510	1200	168	1313	60	20	0.27	2.65	260
1508054	1508035	3.51	22 1-	4 ACSR	0	0	1113	166	191	26	19	0.21	2.87	34
OC400654	1508054	3.51	21 1-	REC_99_UNK	0	0	1113	166	166	22	0	0.00	2.87	0
1508055	OC400654	3.69	21 1-	4 ACSR	0	0	1044	164	166	22	16	0.13	3.00	16
1508056	1508055	4.86	11 1-	6 ACWC	0	0	724	153	81	11	8	0.35	3.35	19
1408087	1508056	4.99	2 1-	4 ACSR	0	0	699	152	17	2	2	0.01	3.36	0
1508036	1508035	4.90	255 3-	3/0 ACSR	1218	1122	865	162	1031	47	16	0.80	3.45	597
1508047	1508036	4.94	79 1-	4 ACSR	0	0	856	162	319	44	32	0.08	3.53	21
OC400655	1508047	4.94	79 1-	REC_99_UNK	0	0	856	162	319	44	0	0.00	3.53	0
1508048	OC400655	5.26	79 1-	4 ACSR	0	0	783	159	319	44	32	0.62	4.15	173
1508049	1508048	5.32	75 1-	2 ACSR	0	0	772	158	301	41	23	0.08	4.23	21
1508050	1508049	6.09	71 1-	4 ACSR	0	0	636	151	301	41	30	1.36	5.59	347
1508051	1508050	6.16	62 1-	4 ACSR	0	0	626	151	255	35	26	0.11	5.70	26
1408100	1508051	7.79	62 1-	6 ACWC	0	0	454	138	255	35	26	1.69	7.39	297
1507007	1408100	8.26	12 1-	4 ACSR	0	0	420	135	74	10	8	0.19	7.59	12
1507008	1507007	8.98	9 1-	6 ACWC	0	0	376	130	55	7	6	0.13	7.71	4
SW400748-B	1507008	8.98	0 1-	Open	0	0	376	130	0	0	0	0.00	7.71	0
1508037	1508036	5.69	129 3-	3/0 ACSR	1079	994	760	160	530	24	8	0.20	3.65	77
1508033	1508037	5.99	70 1-	4 ACSR	0	0	704	157	278	38	28	0.52	4.17	125
OC400657	1508033	5.99	68 1-	REC_35_UNK	0	0	704	157	260	36	104	0.00	4.17	0
1508034	OC400657	10.21	68 1-	4 ACSR	0	0	333	125	260	36	26	3.45	7.62	533

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1508062	1508037	5.76	39 1-	4 ACSR	0	0	746	159	144	20	14	0.06	3.72	8
OC400656	1508062	5.76	39 1-	REC_35_UNK	0	0	746	159	144	20	57	0.00	3.72	0
1508063	OC400656	5.79	39 1-	4 ACSR	0	0	740	159	144	20	14	0.03	3.75	4
1508064	1508063	8.80	39 1-	6 ACWC	0	0	409	134	144	20	14	1.45	5.19	128
1507010	1508064	8.94	1 1-	4 ACSR	0	0	400	133	11	1	1	0.00	5.20	0
1507009	1508064	8.87	0 1-	6 ACWC	0	0	405	134	0	0	0	0.00	5.19	0
SW400748-A	1507009	8.87	0 1-	Open	0	0	405	134	0	0	0	0.00	5.19	0
CKT 124 total losses:		\$5,639												
SUB 23, CKT 134														
SINI_134	SINI	0.00	499 3-	SBS_99_UNK	5564	5843	5898	180	3141	140	0	0.00	0.00	0
1408099	SINI_134	2.47	499 3-	336.4 ACSR	2450	2260	1840	175	3141	140	26	2.07	2.07	4520
1408054	1408099	3.17	467 3-	336.4 ACSR	2108	1930	1535	173	2866	129	24	0.53	2.60	1120
OC400697	1408054	3.17	457 3-	REC_100_UNK	2108	1930	1535	173	2780	126	126	0.00	2.60	0
1408055	OC400697	5.22	457 3-	336.4 ACSR	1497	1362	1052	169	2780	126	24	1.46	4.06	3065
1408086	1408055	5.23	15 1-	4 ACSR	0	0	1050	169	64	8	6	0.00	4.06	0
SW400749-A	1408086	5.23	15 1-	Closed	0	0	1050	169	64	8	0	0.00	4.06	0
SW400749-B	SW400749-A	5.23	15 1-	Closed	0	0	1050	169	64	8	0	0.00	4.06	0
1408101	SW400749-B	6.35	15 1-	4 ACSR	0	0	756	158	64	8	6	0.22	4.29	9
1408056	1408055	7.28	425 3-	336.4 ACSR	1158	1055	798	165	2586	118	22	1.32	5.38	2708
RG400018	1408056	7.28	412 3-	219	1158	1055	798	165	2459	113	52	-5.38	0.00	0
1408057	RG400018	7.47	412 3-	336.4 ACSR	1135	1034	782	164	2459	108	21	0.10	0.10	202
1408069	1408057	7.83	65 3-	1/0 ACSR	1069	977	736	162	465	20	9	0.13	0.23	47
OC400698	1408069	7.83	60 3-	no ocr	1069	977	736	162	444	19	13	0.00	0.23	0
1408070	OC400698	7.99	60 3-	1/0 ACSR	1041	953	717	162	444	19	9	0.05	0.29	20
1408071	1408070	8.58	17 1-	8 ACWC	0	0	611	154	230	31	31	1.20	1.48	245
1408072	1408071	9.53	17 1-	6 ACWC	0	0	508	146	228	31	22	1.03	2.51	176
OH486	1408072	10.29	3 1-	6 ACWC	0	0	445	140	129	17	13	0.40	2.91	35
1407038	OH486	10.64	3 1-	4 ACSR	0	0	421	137	43	5	4	0.05	2.96	0
SW400752-B	1408070	7.99	40 1-	Closed	0	0	717	162	200	27	0	0.00	0.29	0
SW400752-A	SW400752-B	7.99	40 1-	Closed	0	0	717	162	200	27	0	0.00	0.29	0
1408063	SW400752-A	8.42	40 1-	6 ACSR	0	0	653	157	200	27	19	0.46	0.74	73
1408064	1408063	9.17	10 1-	6 ACWC	0	0	561	151	80	10	8	0.21	0.95	10
1408065	1408064	9.36	1 1-	4 ACSR	0	0	541	149	12	1	1	0.01	0.96	0
1408062	1408063	9.70	23 1-	6 ACWC	0	0	509	146	71	9	7	0.27	1.02	11
1408058	1408057	7.47	325 3-	1/0 ACSR	1134	1033	781	164	1864	82	36	0.01	0.11	12
SW400661-B	1408058	7.47	325 3-	Closed	1134	1033	781	164	1864	82	0	0.00	0.11	0
SW400661-A	SW400661-B	7.47	325 3-	Closed	1134	1033	781	164	1864	82	0	0.00	0.11	0
1408059	SW400661-A	7.57	325 3-	336.4 ACSR	1122	1023	772	164	1864	82	16	0.04	0.15	62
1408060	1408059	7.64	325 3-	336.4 ACSR	1114	1015	766	164	1864	82	16	0.03	0.18	49
1407040	1408060	9.84	322 3-	336.4 ACSR	903	824	614	159	1863	82	16	0.85	1.03	1370
1407030	1407040	10.22	204 3-	336.4 ACSR	875	798	594	158	1221	54	10	0.08	1.11	103
1407028	1407030	11.23	201 3-	336.4 ACSR	807	736	546	156	1157	52	10	0.33	1.44	245
1407024	1407028	11.42	39 1-	2 ACSR	0	0	532	155	238	32	18	0.19	1.63	39
OC400704	1407024	11.42	39 1-	REC_99_UNK	0	0	532	155	238	32	0	0.00	1.63	0
1407025	OC400704	11.51	39 1-	2 ACSR	0	0	525	154	238	32	18	0.09	1.72	17
1407020	1407025	11.82	37 1-	4 ACSR	0	0	500	151	212	28	21	0.32	2.04	51
1407021	1407020	12.66	22 1-	6 ACWC	0	0	440	144	127	17	12	0.39	2.43	32
1407022	1407021	13.17	5 1-	4 ACSR	0	0	408	140	27	3	3	0.04	2.47	0
1407029	1407028	11.29	136 3-	336.4 ACSR	804	733	544	156	784	35	7	0.01	1.45	7
OC400703	1407029	11.29	136 3-	REC_50_UNK	804	733	544	156	784	35	71	0.00	1.45	0
1407026	OC400703	13.54	136 3-	2 ACSR	598	558	410	142	784	35	20	1.81	3.26	1145

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1407023	1407026	14.78	8 1-	4 ACSR	0	0	349	133	78	10	8	0.30	3.56	14
1407027	1407026	14.03	88 3-	2 ACSR	565	529	389	140	513	23	13	0.26	3.53	111
1407034	1407027	14.04	61 1-	4 ACSR	0	0	389	140	312	43	31	0.01	3.54	3
OC400705	1407034	14.04	61 1-	REC_25_UNK	0	0	389	140	312	43	173	0.00	3.54	0
1407035	OC400705	14.34	61 1-	4 ACSR	0	0	374	137	312	43	31	0.50	4.04	125
1407036	1407035	14.95	49 1-	2 ACSR	0	0	351	134	219	30	17	0.37	4.41	53
1407037	1407036	15.16	23 1-	4 ACSR	0	0	342	133	61	8	6	0.04	4.45	1
1307011	1407027	15.39	13 1-	2 ACSR	0	0	339	133	86	11	7	0.25	3.78	12
CA400009	1407030	10.22	0 3-	Capacitor	875	798	594	158	0	-14	0	0.00	1.11	0
1407033	1407040	9.86	92 3-	1/0 ACSR	901	821	613	159	517	23	10	0.01	1.04	4
OC400699	1407033	9.86	92 3-	no ocr	901	821	613	159	517	23	16	0.00	1.04	0
1307012	OC400699	11.52	92 3-	1/0 ACSR	732	674	500	151	517	23	10	0.55	1.60	209
1307005	1307012	11.74	47 1-	6 ACWC	0	0	482	149	303	41	30	0.38	1.97	94
OC400700	1307005	11.74	41 1-	REC_25_UNK	0	0	482	149	251	34	137	0.00	1.97	0
1307006	OC400700	13.88	41 1-	6 ACWC	0	0	356	133	251	34	25	1.64	3.61	240
1307007	1307006	14.26	1 1-	2 ACSR	0	0	343	131	0	0	0	0.00	3.61	0
1307008	1307012	12.46	6 1-	6 ACWC	0	0	432	143	44	6	4	0.13	1.73	4
1308014	1307008	12.94	1 1-	2 ACSR	0	0	409	141	2	0	0	0.00	1.73	0
1408085	1408099	2.53	8 1-	6 ACWC	0	0	1787	174	76	10	7	0.02	2.09	1
OC400694	1408085	2.53	7 1-	REC_50_UNK	0	0	1787	174	64	8	17	0.00	2.09	0
1408083	OC400694	3.33	7 1-	6 ACWC	0	0	1215	166	64	8	6	0.21	2.30	9
1408084	1408083	3.58	1 1-	4 ACSR	0	0	1096	163	21	2	2	0.02	2.31	0
CKT 134 total losses:		\$16,253												
SUB 23, CKT 144														
SINI_144	SINI	0.00	287 3-	SBS_99_UNK	5564	5843	5898	180	1525	68	0	0.00	0.00	0
1409050	SINI_144	1.53	287 3-	2 ACSR	2132	2048	1728	169	1525	68	38	2.63	2.63	3406
1409081	1409050	1.60	29 1-	6 ACWC	0	0	1653	168	151	20	15	0.07	2.70	9
OC400731	1409081	1.60	29 1-	REC_70_UNK	0	0	1653	168	151	20	30	0.00	2.70	0
1408102	OC400731	3.13	29 1-	6 ACWC	0	0	840	154	151	20	15	0.91	3.61	92
1408089	1408102	3.31	5 1-	4 ACSR	0	0	792	152	43	5	4	0.04	3.65	1
1408090	1408089	3.71	4 1-	2 ACSR	0	0	725	150	27	3	2	0.02	3.67	0
1409047	1409050	2.42	247 3-	2 ACSR	1506	1458	1191	163	1274	58	32	1.26	3.89	1350
1408098	1409047	3.49	48 3-	2 ACSR	1109	1079	866	156	216	9	6	0.26	4.15	49
1408051	1408098	3.50	47 3-	4 ACSR	1106	1077	865	156	194	9	6	0.00	4.15	0
OC400738	1408051	3.50	47 3-	50-H	1106	1077	865	156	194	9	18	0.00	4.15	0
1408052	OC400738	3.57	47 3-	4 ACSR	1081	1053	846	155	194	9	6	0.02	4.18	4
1408053	1408052	3.60	47 3-	2 ACSR	1071	1044	838	155	194	9	5	0.01	4.19	2
1309070	1408053	5.98	44 1-	6 ACWC	0	0	473	137	177	24	18	1.30	5.49	137
1408068	1408053	4.49	3 1-	4 ACSR	0	0	649	148	17	2	2	0.05	4.23	0
SW400753-B	1408068	4.49	0 1-	Open	0	0	649	148	0	0	0	0.00	4.23	0
1408097	1409047	2.95	162 3-	3/0 ACSR	1362	1313	1058	161	881	40	14	0.25	4.14	169
OC400734	1408097	2.95	159 3-	REC_50_UNK	1362	1313	1058	161	860	39	80	0.00	4.14	0
1408048	OC400734	3.57	159 3-	3/0 ACSR	1225	1175	923	159	860	39	13	0.28	4.42	188
1408066	1408048	3.87	4 1-	6 ACWC	0	0	835	156	25	3	2	0.02	4.45	0
1408067	1408066	4.09	0 1-	4 ACSR	0	0	781	154	0	0	0	0.00	4.45	0
SW400753-A	1408067	4.09	0 1-	Open	0	0	781	154	0	0	0	0.00	4.45	0
1408049	1408048	4.68	152 3-	3/0 ACSR	1037	989	764	155	806	37	13	0.46	4.89	281
1408082	1408049	4.68	12 1-	6 ACWC	0	0	763	155	91	12	9	0.00	4.89	0
OC400735	1408082	4.68	12 1-	REC_99_UNK	0	0	763	155	91	12	0	0.00	4.89	0
1408080	OC400735	5.09	10 1-	6 ACWC	0	0	685	152	77	10	8	0.16	5.05	9
1408081	1408080	5.44	7 1-	2 ACSR	0	0	639	150	46	6	4	0.04	5.08	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS									
SUB 24 VAN_ARSDELL													2272				5524	5962	5914	179	14776		
SUB 24, CKT 104																							
VANA_104	VAN_ARSDELL	0.00	0 3-	SBS_99_UNK	5524	5962	5914	179	0	0	0	0.00	0.00	0									
1510072	VANA_104	0.01	0 3-	3/0 ACSR	5489	5899	5852	179	0	0	0	0.00	0.00	0									
1510073	1510072	0.03	0 3-	3/0 ACSR	5413	5763	5720	179	0	0	0	0.00	0.00	0									
1510098	1510073	0.03	0 3-	1/0 URD PRI AL	5407	5754	5713	474	0	0	0	0.00	0.00	0									
SW450002-B	1510073	0.03	0 3-	Open	5413	5763	5720	179	0	0	0	0.00	0.00	0									
SW450287-B	1510072	0.01	0 3-	Open	5489	5899	5852	179	0	0	0	0.00	0.00	0									
CKT 104 total losses:		\$0																					
SUB 24, CKT 114																							
VANA_114	VAN_ARSDELL	0.00	772 3-	SBS_99_UNK	5524	5962	5914	179	4955	224	0	0.00	0.00	0									
1510065	VANA_114	0.02	772 3-	336.4 ACSR	5467	5862	5812	179	4955	224	42	0.03	0.03	102									
1510060	1510065	0.03	0 3-	336.4 ACSR	5448	5831	5780	179	0	0	0	0.00	0.03	0									
SW450287-A	1510060	0.03	0 3-	Open	5448	5831	5780	179	0	0	0	0.00	0.03	0									
1511095	1510065	1.97	772 3-	336.4 ACSR	2741	2532	2135	175	4954	224	42	2.91	2.94	9273									
1511078	1511095	4.14	732 3-	336.4 ACSR	1753	1601	1246	171	4594	211	40	2.93	5.87	9220									
REG491	1511078	4.14	712 3-	219	1753	1601	1246	171	4372	205	94	-5.87	0.00	0									
1611037	REG491	4.94	282 3-	3/0 ACSR	1482	1355	1039	168	1900	85	28	0.76	0.76	1103									
OC450110	1611037	4.94	273 3-	70-L	1482	1355	1039	168	1839	82	118	0.00	0.76	0									
1611038	OC450110	6.59	273 3-	3/0 ACSR	1121	1027	772	162	1839	82	28	1.35	2.12	1777									
1611039	1611038	6.82	214 3-	1/0 ACSR	1076	987	740	161	1376	62	27	0.25	2.37	288									
1611026	1611039	6.96	27 1-	2 ACSR	0	0	720	160	148	20	11	0.08	2.45	9									
OC450104	1611026	6.96	24 1-	35-H	0	0	720	160	124	16	48	0.00	2.45	0									
1611027	OC450104	8.05	24 1-	2 ACSR	0	0	594	153	124	16	9	0.28	2.72	20									
1611040	1611039	8.15	187 3-	1/0 ACSR	876	809	599	154	1226	55	24	1.20	3.57	1214									
1611045	1611040	8.15	52 3-	1/0 ACSR	875	809	599	154	317	14	6	0.00	3.57	0									
OC450103	1611045	8.15	52 3-	no ocr	875	809	599	154	317	14	10	0.00	3.57	0									
1611046	OC450103	11.74	52 3-	1/0 ACSR	577	540	400	139	317	14	6	0.44	4.00	79									
1611041	1611040	8.70	118 3-	1/0 ACSR	812	752	555	152	822	37	16	0.34	3.90	230									
1611031	1611041	8.71	107 3-	1/0 ACSR	811	751	555	152	759	34	15	0.00	3.91	2									
OC450102	1611031	8.71	107 3-	REC_50_UNK	811	751	555	152	759	34	47	0.00	3.91	0									
1711063	OC450102	8.88	107 3-	1/0 ACSR	794	735	543	151	759	34	15	0.10	4.00	64									
1711031	1711063	9.09	16 1-	4 ACSR	0	0	522	149	119	16	12	0.14	4.15	14									
1711032	1711031	9.62	13 1-	6 ACWC	0	0	476	145	93	12	9	0.20	4.35	13									
1711033	1711032	10.45	5 1-	4 ACSR	0	0	417	138	32	4	3	0.08	4.43	2									
1711034	1711063	8.95	91 3-	1/0 ACSR	787	729	538	151	640	29	13	0.03	4.04	19									
1711047	1711034	10.54	91 3-	1/0 ACSR	653	608	449	144	639	29	13	0.43	4.47	168									
1711048	1711047	11.03	11 1-	6 ACWC	0	0	417	140	71	9	7	0.11	4.58	5									
1611042	REG491	5.13	430 3-	336.4 ACSR	1506	1373	1048	169	2472	110	21	0.67	0.67	1128									
1611043	1611042	5.45	148 3-	1/0 ACSR	1402	1282	975	167	926	41	18	0.22	0.89	169									
OC450113	1611043	5.45	143 3-	70-L	1402	1282	975	167	891	40	57	0.00	0.89	0									
1611044	OC450113	8.02	143 3-	1/0 ACSR	891	830	621	155	891	40	17	1.30	2.19	808									
1612037	1611044	8.46	57 3-	4 ACSR	808	759	568	151	285	12	9	0.22	2.41	56									
1612033	1612037	8.56	10 3-	4 ACSR	790	744	557	150	54	2	2	0.01	2.42	0									
1612039	1612033	8.57	8 1-	4 ACSR	0	0	557	150	44	5	4	0.00	2.42	0									
OC450105	1612039	8.57	8 1-	REC_50_UNK	0	0	557	150	44	5	12	0.00	2.42	0									
1612040	OC450105	8.96	8 1-	4 ACSR	0	0	516	147	44	5	4	0.05	2.47	1									
1612041	1612040	9.74	1 1-	6 ACWC	0	0	451	141	0	0	0	0.00	2.47	0									
1612029	1612033	8.64	2 1-	4 ACSR	0	0	549	149	10	1	1	0.00	2.42	0									
1612034	1612037	8.47	45 3-	1/0 ACSR	807	758	568	151	226	10	4	0.00	2.41	0									
OC450107	1612034	8.47	45 3-	REC_50_UNK	807	758	568	151	226	10	21	0.00	2.41	0									

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1612035	OC450107	8.53	45 3-	1/0 ACSR	800	752	563	151	226	10	4	0.01	2.42	2
1612031	1612035	9.71	44 3-	1/0 ACSR	691	651	484	146	225	10	4	0.19	2.61	35
1612032	1612031	10.16	2 3-	1/0 ACSR	658	619	460	144	10	0	0	0.00	2.61	0
1612054	1612032	13.12	0 1-	2 ACSR	0	0	331	129	0	0	0	0.00	2.61	0
1612055	1612054	13.94	0 1-	6 ACWC	0	0	301	124	0	0	0	0.00	2.61	0
1613083	1612055	15.02	0 1-	2 ACSR	0	0	275	119	0	0	0	0.00	2.61	0
1612053	1612032	10.98	0 3-	1/0 ACSR	603	569	421	140	7	0	0	0.00	2.61	0
1612045	1612053	10.98	0 3-	1/0 URD PRI AL	603	568	421	255	0	0	0	0.00	2.61	0
SW450008-A	1612045	10.98	0 3-	Closed	603	568	421	255	0	0	0	0.00	2.61	0
SW450008-B	SW450008-A	10.98	0 3-	Closed	603	568	421	255	0	0	0	0.00	2.61	0
1612046	SW450008-B	11.09	0 3-	1/0 URD PRI AL	597	563	418	254	0	0	0	0.00	2.61	0
1612025	1612031	9.72	36 1-	4 ACSR	0	0	484	145	190	25	19	0.01	2.62	0
OC450118	1612025	9.72	36 1-	REC_25_UNK	0	0	484	145	190	25	104	0.00	2.62	0
1612026	OC450118	9.88	36 1-	4 ACSR	0	0	471	144	190	25	19	0.18	2.79	29
1612027	1612026	11.27	33 1-	6 ACWC	0	0	381	134	173	23	17	0.72	3.51	74
1612024	1611044	8.03	20 1-	4 ACSR	0	0	621	155	165	22	16	0.01	2.19	0
SW450288-A	1612024	8.03	20 1-	Closed	0	0	621	155	165	22	0	0.00	2.19	0
SW450288-B	SW450288-A	8.03	20 1-	Closed	0	0	621	155	165	22	0	0.00	2.19	0
1612050	SW450288-B	8.22	20 1-	4 ACSR	0	0	597	153	165	22	16	0.18	2.38	26
1611029	1612050	8.64	2 1-	4 ACSR	0	0	549	149	6	0	1	0.01	2.38	0
1611028	1612050	9.09	16 1-	4 ACSR	0	0	505	146	148	20	14	0.39	2.77	34
1611033	1611042	5.22	265 3-	336.4 ACSR	1487	1355	1033	168	1427	64	12	0.04	0.70	35
1611034	1611033	5.27	208 3-	3/0 ACSR	1472	1342	1022	168	1120	50	17	0.03	0.73	26
OC450116	1611034	5.27	208 3-	70-L	1472	1342	1022	168	1120	50	72	0.00	0.73	0
1611035	OC450116	5.50	208 3-	3/0 ACSR	1411	1287	977	167	1120	50	17	0.13	0.86	107
1612052	1611035	7.00	201 3-	3/0 ACSR	1103	1009	754	162	1062	47	16	0.75	1.60	582
1612030	1612052	9.51	164 3-	3/0 ACSR	806	739	544	153	837	37	13	0.99	2.59	613
1512034	1612030	9.98	137 3-	1/0 ACSR	760	699	514	151	696	31	14	0.25	2.84	146
OC450121	1512034	9.98	133 3-	REC_50_UNK	760	699	514	151	686	31	63	0.00	2.84	0
1512035	OC450121	10.63	133 3-	1/0 ACSR	704	649	478	148	686	31	14	0.33	3.17	188
1512029	1512035	10.64	27 1-	1/0 ACSR	0	0	478	148	185	25	11	0.00	3.17	0
OC450122	1512029	10.64	27 1-	REC_25_UNK	0	0	478	148	185	25	101	0.00	3.17	0
1512030	OC450122	11.73	27 1-	1/0 ACSR	0	0	426	144	185	25	11	0.30	3.48	32
1512031	1512030	11.78	3 1-	1/0 ACSR	0	0	424	143	8	1	0	0.00	3.48	0
1512032	1512031	11.84	2 1-	1/0 ACSR	0	0	422	143	4	0	0	0.00	3.48	0
1612051	1512035	13.24	101 3-	1/0 ACSR	542	504	371	138	462	21	9	0.58	3.75	171
1612036	1612051	13.35	26 3-	1/0 ACSR	537	500	368	137	110	5	2	0.01	3.75	0
1612038	1612036	14.80	24 1-	6 ACWC	0	0	310	127	98	13	10	0.43	4.19	25
1612044	1612051	13.54	3 1-	4 ACSR	0	0	357	135	8	1	1	0.01	3.75	0
1612042	1612052	7.19	9 1-	4 ACSR	0	0	720	160	45	6	4	0.03	1.64	0
1612043	1612042	8.10	6 1-	2 ACSR	0	0	612	154	10	1	1	0.02	1.65	0
1611024	1611033	5.23	55 1-	1/0 ACSR	0	0	1030	168	285	38	17	0.01	0.71	2
OC450117	1611024	5.23	55 1-	REC_35_UNK	0	0	1030	168	285	38	110	0.00	0.71	0
1511094	OC450117	7.33	55 1-	1/0 ACSR	0	0	693	158	285	38	17	0.96	1.68	158
1511054	1511094	8.19	15 1-	1/0 ACSR	0	0	609	154	39	5	2	0.07	1.74	2
1511055	1511054	8.29	5 1-	1/0 ACSR	0	0	601	154	15	2	1	0.00	1.75	0
1511052	1511095	1.98	16 1-	4 ACSR	0	0	2128	175	109	14	11	0.00	2.94	0
OC450100	1511052	1.98	16 1-	50-L	0	0	2128	175	109	14	30	0.00	2.94	0
1511053	OC450100	2.04	16 1-	4 ACSR	0	0	2040	175	109	14	11	0.04	2.99	4
1511050	1511053	3.28	15 1-	6 ACWC	0	0	1092	162	102	13	10	0.42	3.40	27
1511051	1511050	3.42	1 1-	4 ACSR	0	0	1031	161	10	1	1	0.00	3.41	0

CKT 114 total losses: \$28,082

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LIG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 24, CKT 124														
VANA_124	VAN_ARSDELL	0.00	523 3-	SBS_99_UNK	5524	5962	5914	179	3897	173	0	0.00	0.00	0
1610083	VANA_124	2.26	523 3-	3/0 ACSR	2112	1958	1614	171	3897	173	58	4.18	4.18	12680
1610049	1610083	3.38	474 3-	3/0 ACSR	1605	1485	1180	167	3502	160	54	1.90	6.08	5606
1610050	1610049	3.43	466 3-	1/0 ACSR	1585	1467	1164	167	3418	159	69	0.13	6.21	387
RG450006	1610050	3.43	466 3-	219	1585	1467	1164	167	3415	159	73	-6.21	0.00	0
1610051	RG450006	3.43	466 3-	1/0 ACSR	1584	1467	1164	167	3415	151	66	0.00	0.00	8
1610052	1610051	4.07	466 3-	3/0 ACSR	1393	1289	1009	165	3415	151	50	1.00	1.00	2792
1610073	1610052	4.14	23 1-	4 ACSR	0	0	986	164	168	22	16	0.07	1.07	10
OC450196	1610073	4.14	23 1-	50-H	0	0	986	164	168	22	45	0.00	1.07	0
1610074	OC450196	4.17	23 1-	4 ACSR	0	0	976	164	168	22	16	0.03	1.10	4
1610075	1610074	5.23	22 1-	6 ACWC	0	0	715	154	162	21	16	0.51	1.61	48
1610076	1610075	5.79	0 1-	8 ACWC	0	0	597	147	0	0	0	0.00	1.61	0
1610056	1610052	5.46	425 3-	3/0 ACSR	1106	1023	785	160	3086	137	46	1.87	2.88	4860
1610054	1610056	5.76	293 3-	2 ACSR	1037	963	735	158	2107	95	53	0.69	3.56	1353
SW450125-A	1610054	5.76	290 3-	Closed	1037	963	735	158	2074	94	0	0.00	3.56	0
SW450125-B	SW450125-A	5.76	290 3-	Closed	1037	963	735	158	2074	94	0	0.00	3.56	0
1610055	SW450125-B	6.74	290 3-	2 ACSR	858	807	608	152	2074	94	52	2.05	5.62	3915
1710043	1610055	6.75	20 1-	4 ACSR	0	0	607	152	134	18	13	0.00	5.62	0
SW450296-A	1710043	6.75	20 1-	Closed	0	0	607	152	134	18	0	0.00	5.62	0
SW450296-B	SW450296-A	6.75	20 1-	Closed	0	0	607	152	134	18	0	0.00	5.62	0
1710040	SW450296-B	6.83	20 1-	4 ACSR	0	0	597	151	134	18	13	0.07	5.69	8
1710039	1710040	7.43	20 1-	4 ACSR	0	0	528	146	134	18	13	0.25	5.94	20
1710051	1610055	7.47	241 3-	2 ACSR	758	717	538	147	1701	78	44	1.28	6.90	2110
1710052	1710051	8.53	212 3-	2 ACSR	646	615	460	141	1508	70	39	1.61	8.50	2395
RG450009	1710052	8.53	191 3-	219	646	615	460	141	1346	63	29	-8.50	0.00	0
1711064	RG450009	8.57	191 3-	2 ACSR	643	612	458	141	1346	59	33	0.05	0.05	66
1711046	1711064	9.80	22 3-	3/0 ACSR	581	553	413	138	137	6	2	0.04	0.09	3
SW450126-B	1711046	9.80	0 3-	Open	581	553	413	138	0	0	0	0.00	0.09	0
1710077	1711064	9.02	168 3-	4 ACSR	592	567	426	138	1194	53	38	0.83	0.88	966
OC450202	1710077	9.02	165 3-	REC_50_UNK	592	567	426	138	1162	52	104	0.00	0.88	0
1710054	OC450202	10.77	165 3-	4 ACSR	448	436	332	126	1162	52	37	3.41	4.29	3465
1710061	1710054	10.77	48 3-	1/0 ACSR	448	436	332	126	273	12	5	0.00	4.29	0
OC450203	1710061	10.77	48 3-	no ocr	448	436	332	126	273	12	12	0.00	4.29	0
1710062	OC450203	11.58	48 3-	1/0 ACSR	422	411	312	124	273	12	5	0.16	4.45	35
1710078	1710062	12.56	21 1-	4 ACSR	0	0	279	118	151	20	15	0.45	4.90	41
1711049	1710062	12.46	15 1-	4 ACSR	0	0	282	119	81	11	8	0.22	4.66	11
1710055	1710054	10.91	102 3-	4 ACSR	439	428	326	125	760	35	25	0.18	4.46	114
1710063	1710055	11.58	80 3-	1/0 ACSR	418	407	310	123	566	26	11	0.27	4.73	124
1710064	1710063	11.66	66 3-	1/0 ACSR	416	405	308	123	472	21	10	0.03	4.76	10
1710065	1710064	11.74	65 3-	1/0 ACSR	414	403	307	123	465	21	9	0.03	4.79	11
SW450297-A	1710065	11.74	57 1-	Closed	0	0	307	123	399	55	0	0.00	4.79	0
SW450297-B	SW450297-A	11.74	57 1-	Closed	0	0	307	123	399	55	0	0.00	4.79	0
1710072	SW450297-B	11.94	57 1-	4 ACSR	0	0	300	122	399	55	40	0.46	5.25	162
1710070	1710072	12.04	24 1-	4 ACSR	0	0	296	121	169	23	17	0.10	5.35	15
1710071	1710070	13.14	23 1-	6 ACWC	0	0	263	115	160	22	16	0.54	5.90	53
1710069	1710072	13.22	29 1-	4 ACSR	0	0	261	115	192	26	19	0.77	6.02	89
NEWCAP1710077	1710077	9.02	0 3-	Capacitor	592	567	426	138	0	-14	0	0.00	0.88	0
1710045	1710051	7.48	10 1-	4 ACSR	0	0	538	147	78	10	8	0.00	6.90	0
OC450199	1710045	7.48	10 1-	REC_25_UNK	0	0	538	147	78	10	44	0.00	6.90	0
1710046	OC450199	7.88	10 1-	4 ACSR	0	0	498	144	78	10	8	0.19	7.08	13
1610082	1710046	8.19	8 1-	6 ACWC	0	0	471	142	69	9	7	0.10	7.19	6

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1610044	1610082	8.64	5 1-	8 ACWC	0	0	427	137	37	5	5	0.10	7.29	3
1610043	1610044	8.80	2 1-	4 ACSR	0	0	416	136	12	1	1	0.01	7.30	0
1610045	1610056	5.54	49 3-	1/0 ACSR	1090	1008	773	160	360	16	7	0.02	2.90	7
OC450197	1610045	5.54	48 3-	REC_50_UNK	1090	1008	773	160	346	15	11	0.00	2.90	0
1610046	OC450197	6.58	48 3-	1/0 ACSR	920	856	652	155	346	15	7	0.23	3.13	62
1610040	1610046	6.61	29 1-	4 ACSR	0	0	648	155	225	30	22	0.04	3.18	8
OC450198	1610040	6.61	27 1-	REC_25_UNK	0	0	648	155	219	30	120	0.00	3.18	0
1610041	OC450198	8.33	27 1-	4 ACSR	0	0	461	140	219	30	21	1.16	4.34	152
1610042	1610041	8.42	1 1-	2 ACSR	0	0	456	140	2	0	0	0.00	4.34	0
1610047	1610046	6.91	4 1-	4 ACSR	0	0	606	152	23	3	2	0.02	3.16	0
1610057	1610056	6.82	57 3-	4 ACSR	778	743	568	148	395	18	13	0.92	3.80	326
1610053	1610057	6.86	51 3-	4 ACSR	771	737	564	148	363	16	12	0.02	3.82	8
1610069	1610053	6.97	2 1-	6 ACWC	0	0	550	147	0	0	0	0.00	3.82	0
SW450295-B	1610069	6.97	0 1-	Open	0	0	550	147	0	0	0	0.00	3.82	0
1710076	1610053	7.18	26 1-	4 ACSR	0	0	528	145	177	24	17	0.35	4.17	55
OC450286	1710076	7.18	25 1-	35-H	0	0	528	145	172	23	68	0.00	4.17	0
1710038	OC450286	7.87	25 1-	4 ACSR	0	0	464	140	172	23	17	0.36	4.54	37
1710050	1610053	8.63	23 3-	4 ACSR	542	529	409	134	186	8	6	0.30	4.12	34
1610065	1610083	2.32	11 1-	4 ACSR	0	0	1564	171	58	7	6	0.02	4.20	0
1610066	1610065	2.32	11 1-	6 ACWC	0	0	1559	171	58	7	6	0.00	4.20	0
OC450195	1610066	2.32	11 1-	REC_99_UNK	0	0	1559	171	58	7	0	0.00	4.20	0
1610067	OC450195	3.58	11 1-	6 ACWC	0	0	920	158	58	7	6	0.27	4.47	10
1610068	1610067	3.61	2 1-	2 ACSR	0	0	911	158	12	1	1	0.00	4.47	0
CKT 124 total losses:		\$42,082												
SUB 24, CKT 134														
VANA_134	VAN_ARSDPELL	0.00	549 3-	SBS_99_UNK	5524	5962	5914	179	3366	151	0	0.00	0.00	0
1510075	VANA_134	1.18	549 3-	3/0 ACSR	3026	2833	2498	175	3366	151	50	2.04	2.04	5212
1510058	1510075	1.32	270 3-	1/0 ACSR	2842	2660	2317	175	1651	75	33	0.18	2.22	244
OC450229	1510058	1.32	268 3-	REC_100_UNK	2842	2660	2317	175	1634	74	74	0.00	2.22	0
1510059	OC450229	2.46	268 3-	1/0 ACSR	1871	1757	1441	169	1634	74	32	1.43	3.64	1933
1510093	1510059	3.03	22 1-	4 ACSR	0	0	1117	163	185	25	18	0.58	4.22	90
OC450233	1510093	3.03	17 1-	35-H	0	0	1117	163	149	20	59	0.00	4.22	0
1510094	OC450233	3.06	17 1-	4 ACSR	0	0	1101	163	149	20	15	0.03	4.25	4
1510096	1510094	3.27	2 1-	4 ACSR	0	0	1015	161	16	2	2	0.01	4.26	0
SW450294-B	1510096	3.27	0 1-	Open	0	0	1015	161	0	0	0	0.00	4.26	0
1510095	1510094	4.02	13 1-	4 ACSR	0	0	787	154	115	15	11	0.34	4.59	23
1510077	1510059	3.66	238 3-	1/0 ACSR	1369	1292	1030	163	1393	64	28	1.24	4.88	1436
1510091	1510077	3.74	28 1-	4 ACSR	0	0	1001	162	127	17	13	0.06	4.95	7
OC450234	1510091	3.74	28 1-	50-H	0	0	1001	162	127	17	35	0.00	4.95	0
1510092	OC450234	5.39	28 1-	4 ACSR	0	0	619	148	127	17	13	0.65	5.60	50
1510078	1510077	5.15	199 3-	1/0 ACSR	1022	968	758	157	1160	53	23	1.22	6.10	1132
1510069	1510078	5.24	125 3-	1/0 ACSR	1006	953	745	156	720	33	15	0.05	6.15	33
OC450236	1510069	5.24	125 3-	50-H	1006	953	745	156	719	33	67	0.00	6.15	0
1510070	OC450236	6.59	125 3-	1/0 ACSR	819	776	598	150	719	33	15	0.70	6.85	416
1510071	1510070	6.66	107 3-	1/0 ACSR	812	769	592	150	602	28	12	0.03	6.89	16
1510088	1510071	6.66	44 3-	1/0 ACSR	811	769	591	150	276	13	6	0.00	6.89	0
SW450225-A	1510088	6.66	44 3-	Closed	811	769	591	150	276	13	0	0.00	6.89	0
SW450225-B	SW450225-A	6.66	44 3-	Closed	811	769	591	150	276	13	0	0.00	6.89	0
1510089	SW450225-B	6.91	44 3-	1/0 ACSR	785	744	572	149	276	13	6	0.05	6.84	12
1510090	1510089	8.39	43 3-	1/0 ACSR	657	624	477	143	264	12	5	0.25	7.19	50
1410070	1510090	8.78	24 3-	1/0 ACSR	630	598	457	141	163	7	3	0.04	7.23	6

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 Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1410071	1410070	9.71	17 1-	4 ACSR	0	0	395	135	128	18	13	0.48	7.71	42
1410072	1410071	10.01	3 1-	2 ACSR	0	0	382	133	34	4	3	0.02	7.73	0
SW400406-B	1410070	8.78	0 1-	Open	0	0	457	141	0	0	0	0.00	7.23	0
1510083	1510071	6.66	60 1-	1/0 ACSR	0	0	591	150	305	43	19	0.01	6.89	1
SW450226-A	1510083	6.66	60 1-	Closed	0	0	591	150	305	43	0	0.00	6.89	0
SW450226-B	SW450226-A	6.66	60 1-	Closed	0	0	591	150	305	43	0	0.00	6.89	0
1510084	SW450226-B	9.69	60 1-	1/0 ACSR	0	0	416	138	305	43	19	1.38	8.27	237
1510067	1510078	6.10	39 3-	4 ACSR	794	765	599	148	202	9	7	0.31	6.41	53
1510062	1510067	6.16	16 2-	4 ACSR	0	755	591	148	70	4	4	0.01	6.42	0
1510063	1510062	6.16	16 2-	1/0 ACSR	0	755	591	148	70	4	2	0.00	6.42	0
OC450238	1510063	6.16	16 2-	35-H	0	755	591	148	70	4	14	0.00	6.42	0
1509105	OC450238	8.23	16 2-	1/0 ACSR	0	585	454	140	70	4	2	0.10	6.52	4
1509075	1509105	8.54	1 2-	4 ACSR	0	555	431	137	2	0	0	0.00	6.52	0
SW450291-B	1509075	8.54	0 2-	Open	0	555	431	137	0	0	0	0.00	6.52	0
1510068	1510067	6.69	14 3-	4 ACSR	694	674	528	144	80	3	3	0.08	6.49	6
1509104	1510068	7.52	12 1-	4 ACSR	0	0	452	137	71	9	7	0.20	6.68	9
1509080	1509104	7.57	1 1-	2 ACSR	0	0	449	137	4	0	0	0.00	6.68	0
1510076	1510075	1.34	276 3-	3/0 ACSR	2836	2648	2302	175	1644	74	25	0.14	2.18	185
OC450232	1510076	1.34	276 3-	REC_70_UNK	2836	2648	2302	175	1642	74	107	0.00	2.18	0
1510079	OC450232	2.36	276 3-	3/0 ACSR	2050	1900	1559	171	1642	74	25	0.85	3.03	1070
1610072	1510079	2.45	0 1-	4 ACSR	0	0	1495	170	0	0	0	0.00	3.03	0
SW450293-A	1610072	2.45	0 1-	Open	0	0	1495	170	0	0	0	0.00	3.03	0
1510102	1510079	2.60	264 3-	3/0 ACSR	1924	1782	1448	170	1550	70	24	0.19	3.22	234
1610086	1510102	2.68	9 1-	8 ACWC	0	0	1388	169	50	6	7	0.02	3.24	0
1610071	1610086	2.84	1 1-	6 ACWC	0	0	1289	167	5	0	1	0.00	3.24	0
SW450293-B	1610071	2.84	0 1-	Open	0	0	1289	167	0	0	0	0.00	3.24	0
1510056	1510102	2.93	252 3-	3/0 ACSR	1775	1643	1321	169	1480	67	23	0.25	3.47	286
1610084	1510056	5.01	246 3-	3/0 ACSR	1187	1097	846	162	1432	65	22	1.28	4.75	1295
1609038	1610084	5.50	86 2-	4 ACSR	0	962	741	157	491	34	24	0.66	5.41	284
1609033	1609038	5.59	55 1-	4 ACSR	0	0	722	156	318	44	32	0.19	5.60	55
1609029	1609033	5.60	31 1-	4 ACSR	0	0	721	156	178	24	18	0.01	5.61	0
OC450241	1609029	5.60	31 1-	35-H	0	0	721	156	178	24	71	0.00	5.61	0
1609030	OC450241	6.49	31 1-	4 ACSR	0	0	585	148	178	24	18	0.73	6.33	97
1609032	1609030	8.10	15 1-	6 ACWC	0	0	432	136	84	11	8	0.42	6.75	22
1609031	1609033	5.60	21 1-	4 ACSR	0	0	721	156	130	18	13	0.00	5.60	0
OC450242	1609031	5.60	21 1-	35-H	0	0	721	156	130	18	52	0.00	5.60	0
1609028	OC450242	7.35	21 1-	4 ACSR	0	0	491	141	130	18	13	1.00	6.60	95
1609047	1609028	7.85	10 1-	6 ACWC	0	0	450	138	52	7	5	0.11	6.71	4
1609044	1609047	8.10	2 1-	4 ACSR	0	0	432	136	18	2	2	0.01	6.73	0
1609039	1609038	5.60	23 2-	4 ACSR	0	935	721	156	120	8	6	0.04	5.45	4
1609053	1609039	5.71	2 1-	4 ACSR	0	0	701	155	17	2	2	0.01	5.45	0
1609054	1609053	5.89	1 1-	2 ACSR	0	0	677	154	10	1	1	0.00	5.46	0
1609040	1609039	5.70	20 2-	4 ACSR	0	912	703	155	98	6	5	0.03	5.47	2
OC450240	1609040	5.70	20 2-	50-L	0	912	703	155	98	6	14	0.00	5.47	0
1509106	OC450240	6.64	20 2-	4 ACSR	0	729	566	147	98	6	5	0.23	5.70	18
1509076	1509106	6.95	1 2-	4 ACSR	0	683	531	145	2	0	0	0.00	5.70	0
SW450291-A	1509076	6.95	0 2-	Open	0	683	531	145	0	0	0	0.00	5.70	0
1509067	1509106	7.67	14 1-	4 ACSR	0	0	464	139	66	9	7	0.25	5.95	11
1510052	1509067	7.73	2 1-	2 ACSR	0	0	460	139	12	1	1	0.00	5.95	0
1510097	1510052	7.74	2 1-	1/0 URD PRI AL	0	0	460	256	12	1	1	0.00	5.95	0
1609036	1610084	5.06	82 2-	4 ACSR	0	1081	833	161	444	30	22	0.07	4.82	29
OC450244	1609036	5.06	82 2-	REC_50_UNK	0	1081	833	161	444	30	62	0.00	4.82	0

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1609037	OC450244	7.33	82 2-	4 ACSR	0	633	494	142	444	30	22	2.53	7.35	936
1609034	1609037	7.88	19 1-	4 ACSR	0		447	138	96	13	10	0.17	7.52	10
OC450246	1609034	7.88	0 1-	25-H	0	0	447	138	0	0	0	0.00	7.52	0
1609045	1609037	7.33	42 1-	4 ACSR	0	0	493	142	222	31	23	0.01	7.36	2
OC450245	1609045	7.33	42 1-	REC_35_UNK	0	0	493	142	222	31	90	0.00	7.36	0
1609046	OC450245	9.40	42 1-	4 ACSR	0	0	354	127	222	31	23	1.45	8.81	198
1510085	1510056	2.94	0 1-	4 ACSR	0	0	1318	169	0	0	0	0.00	3.47	0
SW450294-A	1510085	2.94	0 1-	Open	0	0	1318	169	0	0	0	0.00	3.47	0
CKT 134 total losses:		\$15,853												
SUB 24, CKT 144														
VANA_144	VAN_ARSDELL	0.00	428 3-	SBS_99_UNK	5524	5962	5914	179	2558	115	0	0.00	0.00	0
1510074	VANA_144	2.67	428 3-	3/0 ACSR	1891	1751	1420	170	2558	115	39	3.61	3.61	6825
OC450271	1510074	2.67	413 3-	REC_100_UNK	1891	1751	1420	170	2428	112	112	0.00	3.61	0
1610058	OC450271	4.73	413 3-	3/0 ACSR	1243	1149	890	163	2428	112	37	2.68	6.29	5075
RG450013	1610058	4.73	412 3-	219	1243	1149	890	163	2384	112	51	-6.29	0.00	0
1610059	RG450013	6.13	412 3-	3/0 ACSR	1007	931	709	158	2384	106	36	1.69	1.69	3084
1610061	1610059	6.48	108 3-	1/0 ACSR	952	882	671	156	725	32	14	0.19	1.88	110
OC450272	1610061	6.48	101 3-	no ocr	952	882	671	156	672	30	20	0.00	1.88	0
1610062	OC450272	6.65	101 3-	1/0 ACSR	927	860	653	155	672	30	13	0.09	1.96	48
1610063	1610062	8.19	98 3-	1/0 ACSR	752	701	530	149	636	28	13	0.61	2.57	286
1609049	1610063	8.21	68 3-	1/0 ACSR	750	700	529	149	404	18	8	0.01	2.58	2
OC450273	1609049	8.21	68 3-	no ocr	750	700	529	149	404	18	18	0.00	2.58	0
1609050	OC450273	8.29	68 3-	1/0 ACSR	742	693	523	148	404	18	8	0.03	2.60	9
1610085	1609050	11.73	61 3-	1/0 ACSR	521	490	369	135	361	16	7	0.48	3.08	100
1610064	1610085	11.84	2 1-	4 ACSR	0	0	363	134	9	1	1	0.00	3.09	0
1609051	1609050	8.86	7 1-	1/0 ACSR	0	0	489	146	44	5	3	0.04	2.64	0
1609048	1610063	8.25	1 1-	6 ACWC	0	0	524	148	2	0	0	0.00	2.57	0
1610070	1610059	7.34	15 1-	6 ACWC	0	0	545	147	80	10	8	0.29	1.98	14
SW450295-A	1610070	7.34	0 1-	Open	0	0	545	147	0	0	0	0.00	1.98	0
1610060	1610059	7.35	284 3-	3/0 ACSR	863	798	602	154	1518	68	23	0.93	2.62	1084
1710049	1610060	7.42	2 3-	4 ACSR	850	788	594	153	12	0	0	0.00	2.62	0
OC450276	1710049	7.42	0 3-	50-H	850	788	594	153	0	0	0	0.00	2.62	0
1710056	1610060	7.36	268 3-	3/0 ACSR	863	798	602	154	1417	64	22	0.00	2.62	5
1710057	1710056	7.40	268 3-	3/0 ACSR	858	794	598	153	1417	64	22	0.03	2.66	36
1710058	1710057	8.27	268 3-	4 ACSR	714	673	507	146	1416	64	46	2.10	4.76	2664
RG450017	1710058	8.27	254 3-	219	714	673	507	146	1304	60	28	-4.76	0.00	0
1710059	RG450017	8.37	254 3-	4 ACSR	699	660	497	145	1304	58	42	0.24	0.24	278
1710047	1710059	8.49	55 3-	4 ACSR	683	645	487	144	315	14	10	0.07	0.31	19
OC450279	1710047	8.49	55 3-	35-H	683	645	487	144	314	14	40	0.00	0.31	0
1710048	OC450279	9.15	55 3-	4 ACSR	603	576	436	139	314	14	10	0.35	0.66	99
1710037	1710048	9.61	16 1-	4 ACSR	0	0	405	136	94	12	9	0.22	0.88	16
OC450281	1710037	9.61	13 1-	REC_25_UNK	0	0	405	136	63	8	34	0.00	0.88	0
1710042	OC450281	11.02	1 1-	4 ACSR	0	0	333	126	11	1	1	0.05	0.92	0
1710041	OC450281	9.66	12 1-	4 ACSR	0	0	402	135	53	7	5	0.01	0.89	0
1710066	1710048	10.94	36 1-	4 ACSR	0	0	336	127	210	28	20	1.19	1.85	149
1710068	1710066	10.95	0 1-	4 ACSR	0	0	336	127	0	0	0	0.00	1.85	0
OC450280	1710068	10.95	0 1-	REC_25_UNK	0	0	336	127	0	0	0	0.00	1.85	0
1710067	1710066	10.96	1 1-	2 ACSR	0	0	336	127	10	1	1	0.00	1.85	0
1709038	1710059	9.17	198 3-	4 ACSR	601	574	434	139	985	44	31	1.32	1.56	1141
1709023	1709038	9.64	133 3-	4 ACSR	554	532	403	136	680	30	22	0.49	2.05	270
1709019	1709023	9.69	48 1-	4 ACSR	0	0	401	135	258	35	25	0.07	2.12	16

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Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 26	CLAY_LICK		1660		5202	5546	5529	179	10899					
SUB 26	CKT 114													
	CLIC_114	CLAY_LICK	0.00	57 3-	SBS_99_UNK	5202	5546	5529	179	423	18 0	0.00	0.00	0
	1511076	CLIC_114	0.09	57 3-	336.4 ACSR	4988	5196	5164	179	423	18 4	0.01	0.01	3
	1511077	1511076	2.01	57 3-	3/0 ACSR	2242	2075	1743	172	423	18 6	0.37	0.38	114
	1510053	1511077	2.67	28 3-	3/0 ACSR	1871	1729	1411	170	272	12 4	0.08	0.46	17
	1510054	1510053	2.86	16 3-	3/0 ACSR	1788	1652	1339	169	169	7 3	0.01	0.48	2
	1510055	1510054	3.23	3 3-	3/0 ACSR	1643	1517	1216	168	30	1 0	0.00	0.48	0
	SW450002-A	1510055	3.23	0 3-	Open	1643	1517	1216	168	0	0 0	0.00	0.48	0
	1511096	1510054	4.04	10 1-	4 ACSR	0	0	860	158	112	15 11	0.39	0.87	26
	1510080	1510053	3.79	7 1-	6 ACWC	0	0	911	159	55	7 5	0.18	0.65	6
	1510050	1511077	2.66	13 1-	4 ACSR	0	0	1256	166	72	9 7	0.22	0.60	12
	1510051	1510050	3.17	8 1-	6 ACWC	0	0	1019	161	42	5 4	0.06	0.67	2
	CKT 114 total losses:	\$182												
SUB 26	CKT 124													
	CLIC_124	CLAY_LICK	0.00	631 3-	SBS_99_UNK	5202	5546	5529	179	4010	177 0	0.00	0.00	0
	1511074	CLIC_124	0.11	631 3-	336.4 ACSR	4934	5113	5076	179	4010	177 34	0.12	0.12	353
	1511069	1511074	0.34	631 3-	3/0 ACSR	4354	4288	4182	178	4007	177 59	0.42	0.54	1375
	1511070	1511069	0.37	630 3-	3/0 ACSR	4272	4185	4066	178	3987	179 60	0.07	0.61	224
	1511063	1511070	0.43	454 3-	3/0 ACSR	4152	4037	3898	178	2951	133 44	0.08	0.70	190
	OC400291	1511063	0.43	454 3-	REC_100_UNK	4152	4037	3898	178	2950	133 133	0.00	0.70	0
	1511064	OC400291	0.78	454 3-	3/0 ACSR	3503	3339	3067	177	2950	133 44	0.53	1.23	1178
	1511065	1511064	1.35	429 3-	1/0 ACSR	2695	2518	2184	174	2795	126 55	1.17	2.40	2620
	1511066	1511065	3.46	322 3-	1/0 ACSR	1403	1316	1034	163	2170	99 43	3.21	5.61	5436
	1511084	1511066	4.10	46 1-	4 ACSR	0	0	834	157	266	37 27	1.06	6.67	254
	SW400403-A	1511084	4.10	44 1-	Closed	0	0	834	157	261	36 0	0.00	6.67	0
	SW400403-B	SW400403-A	4.10	44 1-	Closed	0	0	834	157	261	36 0	0.00	6.67	0
	1511083	SW400403-B	5.34	11 1-	4 ACSR	0	0	599	147	53	7 5	0.21	6.87	7
	1511082	SW400403-B	4.53	33 1-	4 ACSR	0	0	736	153	208	29 21	0.57	7.23	108
	1511081	1511082	5.10	33 1-	2 ACSR	0	0	615	150	207	29 16	0.44	7.67	74
	SW400227-A	1511081	5.10	23 1-	Closed	0	0	656	150	150	21 0	0.00	7.67	0
	SW400227-B	SW400227-A	5.10	23 1-	Closed	0	0	656	150	150	21 0	0.00	7.67	0
	1512038	SW400227-B	6.08	23 1-	2 ACSR	0	0	552	145	150	21 12	0.32	7.99	29
	1511059	1511066	3.53	210 3-	1/0 ACSR	1380	1294	1015	163	1437	67 29	0.08	5.69	101
	RG400003	1511059	3.53	210 3-	219	1380	1294	1015	163	1436	67 31	-5.69	0.00	0
	1511060	RG400003	4.04	210 3-	1/0 ACSR	1237	1162	902	161	1436	64 28	0.53	0.53	618
	SW400223-B	1511060	4.04	190 3-	Closed	1237	1162	902	161	1358	60 0	0.00	0.53	0
	SW400223-A	SW400223-B	4.04	190 3-	Closed	1237	1162	902	161	1358	60 0	0.00	0.53	0
	1511071	SW400223-A	5.25	190 3-	1/0 ACSR	990	932	712	155	1358	60 27	1.21	1.74	1331
	1511072	1511071	5.33	146 3-	1/0 ACSR	977	920	702	155	1067	48 21	0.07	1.81	58
	OC400284	1511072	5.33	146 3-	50-H	977	920	702	155	1067	48 97	0.00	1.81	0
	1512041	OC400284	7.44	146 3-	1/0 ACSR	726	685	515	146	1067	48 21	1.42	3.23	1123
	OC400286	1512041	7.44	105 3-	35-H	726	685	515	146	690	31 90	0.00	3.23	0
	1512033	OC400286	7.48	105 3-	1/0 ACSR	722	682	512	145	690	31 14	0.01	3.24	7
	1512028	1512033	7.57	64 3-	1/0 ACSR	715	675	507	145	359	16 7	0.02	3.27	7
	1512020	1512028	9.39	64 3-	1/0 ACSR	586	555	417	138	358	16 7	0.38	3.65	96
	1512022	1512020	9.82	36 3-	1/0 ACSR	563	533	400	137	178	8 4	0.05	3.70	8
	1512025	1512022	9.82	19 1-	6 ACWC	0	0	400	137	82	11 8	0.00	3.70	0
	OC400288	1512025	9.82	19 1-	REC_35_UNK	0	0	400	137	82	11 32	0.00	3.70	0
	1512027	OC400288	9.83	1 1-	4 ACSR	0	0	399	136	10	1 1	0.00	3.70	0
	1512026	OC400288	11.14	18 1-	6 ACWC	0	0	334	128	73	10 7	0.29	3.99	13

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1512023	1512022	9.82	12 1-	6 ACWC	0	0	400	137	62	8	6	0.00	3.70	0
OC400287	1512023	9.82	12 1-	REC_35_UNK	0	0	400	137	62	8	25	0.00	3.70	0
1512024	OC400287	11.52	12 1-	6 ACWC	0	0	319	125	62	8	6	0.32	4.02	12
1512021	1512020	9.84	1 1-	6 ACWC	0	0	390	135	3	0	0	0.00	3.65	0
1511079	1511071	5.25	29 1-	2 ACSR	0	0	711	155	202	27	15	0.00	1.75	0
OC400281	1511079	5.25	29 1-	REC_50_UNK	0	0	711	155	202	27	55	0.00	1.75	0
1512042	OC400281	5.97	29 1-	2 ACSR	0	0	621	151	202	27	15	0.51	2.26	78
1512037	1512042	7.11	22 1-	4 ACSR	0	0	491	141	137	18	13	0.48	2.73	38
1511046	1511065	1.53	70 1-	4 ACSR	0	0	1932	172	352	48	34	0.39	2.79	120
OC400280	1511046	1.53	69 1-	50-H	0	0	1932	172	348	47	95	0.00	2.79	0
1511047	OC400280	2.11	69 1-	4 ACSR	0	0	1380	166	348	47	34	1.12	3.91	326
1511048	1511047	2.39	49 1-	4 ACSR	0	0	1208	163	233	32	23	0.39	4.30	81
1511049	1511048	4.27	46 1-	4 ACSR	0	0	642	147	203	28	20	1.18	5.48	144
1511090	1511048	2.51	1 1-	1/0 URD PRI AL	0	0	1166	367	22	3	2	0.01	4.31	0
SW400402-A	1511090	2.51	0 1-	Open	0	0	1166	367	0	0	0	0.00	4.31	0
1511089	1511047	2.70	7 1-	1/0 URD PRI AL	0	0	1155	365	50	6	4	0.06	3.97	2
SW400402-B	1511089	2.70	0 1-	Open	0	0	1155	365	0	0	0	0.00	3.97	0
1511061	1511070	0.47	176 3-	4 ACSR	3968	3849	3668	177	1034	46	33	0.17	0.78	154
OC400275	1511061	0.47	170 3-	REC_70_UNK	3968	3849	3668	177	984	44	63	0.00	0.78	0
1511062	OC400275	1.87	170 3-	4 ACSR	1536	1520	1277	163	984	44	32	2.03	2.81	1610
1511087	1511062	1.88	95 3-	1/0 ACSR	1534	1518	1275	163	522	23	10	0.00	2.82	0
OC400276	1511087	1.88	95 3-	no ocr	1534	1518	1275	163	522	23	23	0.00	2.82	0
1411160	OC400276	2.42	95 3-	1/0 ACSR	1346	1326	1098	160	522	23	10	0.19	3.00	75
SW400224-B	1411160	2.42	70 3-	Closed	1346	1326	1098	160	379	17	0	0.00	3.00	0
SW400224-A	SW400224-B	2.42	70 3-	Closed	1346	1326	1098	160	379	17	0	0.00	3.00	0
1411145	SW400224-A	4.12	70 3-	1/0 ACSR	971	950	764	153	379	17	8	0.40	3.40	113
OH461	1411145	5.55	19 1-	2 ACSR	0	0	577	145	235	32	18	1.06	4.46	178
1411148	OH461	5.72	2 1-	6 ACWC	0	0	556	144	15	2	1	0.01	4.47	0
1411146	OH461	5.72	17 1-	2 ACSR	0	0	561	144	99	13	8	0.07	4.53	6
OC400279	1411146	5.72	17 1-	REC_25_UNK	0	0	561	144	99	13	55	0.00	4.53	0
1411147	OC400279	6.53	17 1-	2 ACSR	0	0	494	140	99	13	8	0.17	4.71	10
1511057	1511062	1.88	20 2-	4 ACSR	0	1516	1273	163	136	9	7	0.00	2.82	0
OC400278	1511057	1.88	20 2-	REC_35_UNK	0	1516	1273	163	136	9	27	0.00	2.82	0
1511058	OC400278	2.70	20 2-	4 ACSR	0	1083	903	155	136	9	7	0.23	3.04	22
SW400226-B	1511058	2.70	9 2-	Closed	0	1083	903	155	57	3	0	0.00	3.04	0
SW400226-A	SW400226-B	2.70	9 2-	Closed	0	1083	903	155	57	3	0	0.00	3.04	0
1511056	SW400226-A	3.18	9 2-	4 ACSR	0	927	771	151	57	3	3	0.04	3.08	1
CA400012	1511069	0.34	0 3-	Capacitor	4354	4288	4182	178	0	-14	0	0.00	0.54	0
CKT 124 total losses: \$18,280														
SUB 26, CKT 134														
CLIC_134	CLAY_LICK	0.00	365 3-	SBS_99_UNK	5202	5546	5529	179	2071	91	0	0.00	0.00	0
1411158	CLIC_134	3.97	365 3-	336.4 ACSR	1773	1617	1272	171	2071	91	17	1.76	1.76	3055
1411085	1411158	4.10	31 1-	4 ACSR	0	0	1211	170	243	33	24	0.19	1.95	41
OC400337	1411085	4.10	31 1-	REC_99_UNK	0	0	1211	170	243	33	0	0.00	1.95	0
1411086	OC400337	5.03	31 1-	4 ACSR	0	0	878	160	243	33	24	1.14	3.09	217
1411078	1411086	5.46	18 1-	2 ACSR	0	0	793	158	160	21	12	0.24	3.33	30
1411079	1411078	6.46	13 1-	4 ACSR	0	0	614	149	109	15	11	0.37	3.70	25
1411080	1411079	6.59	1 1-	2 ACSR	0	0	600	148	11	1	1	0.00	3.70	0
1411106	1411158	4.27	314 3-	336.4 ACSR	1689	1539	1202	170	1677	74	14	0.10	1.86	163
1411108	1411106	4.47	314 3-	336.4 ACSR	1637	1491	1159	170	1676	74	14	0.07	1.92	108
1411109	1411108	5.29	308 3-	1/0 ACSR	1359	1246	949	166	1655	74	32	0.88	2.80	1376

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW400294-B	1411109	5.29	303 3-	Closed	1359	1246	949	166	1613	72	0	0.00	2.80	0
SW400294-A	SW400294-B	5.29	303 3-	Closed	1359	1246	949	166	1613	72	0	0.00	2.80	0
1411110	SW400294-A	6.02	303 3-	1/0 ACSR	1176	1083	816	162	1613	72	32	0.76	3.56	1174
1411090	1411110	6.48	294 3-	1/0 ACSR	1082	1000	749	160	1567	71	31	0.47	4.03	722
1411093	1411090	6.75	285 3-	1/0 ACSR	1033	956	715	159	1561	71	31	0.28	4.31	431
1411094	1411093	6.80	285 3-	1/0 ACSR	1025	949	710	158	1557	71	31	0.06	4.36	74
1411096	1411094	7.08	169 3-	1/0 ACSR	980	907	677	157	732	33	15	0.16	4.52	100
OC400340	1411096	7.08	169 3-	REC_50_UNK	980	907	677	157	731	33	68	0.00	4.52	0
1411113	OC400340	8.12	169 3-	1/0 ACSR	840	781	579	152	731	33	15	0.52	5.04	300
1411115	1411113	10.35	76 3-	1/0 ACSR	641	600	441	143	291	13	6	0.33	5.38	64
1411081	1411115	10.36	20 1-	6 ACWC	0	0	440	143	90	12	9	0.00	5.38	0
SW400295-B	1411081	10.36	20 1-	Closed	0	0	440	143	90	12	0	0.00	5.38	0
SW400295-A	SW400295-B	10.36	20 1-	Closed	0	0	440	143	90	12	0	0.00	5.38	0
1411082	SW400295-A	11.46	20 1-	6 ACWC	0	0	375	134	90	12	9	0.34	5.72	19
1411083	1411082	11.48	2 1-	4 ACSR	0	0	374	134	9	1	1	0.00	5.72	0
1411084	1411083	11.71	1 1-	6 ACWC	0	0	363	133	6	0	1	0.00	5.72	0
1412018	1411113	8.25	52 3-	1/0 ACSR	825	768	569	152	265	12	5	0.03	5.07	6
OC400346	1412018	8.25	49 3-	35-H	825	768	569	152	242	11	32	0.00	5.07	0
1412010	OC400346	8.35	49 3-	1/0 ACSR	814	758	562	151	242	11	5	0.02	5.09	4
1412009	1412010	8.35	3 3-	1/0 ACSR	814	757	561	151	27	1	1	0.00	5.09	0
1412016	1412009	8.36	1 1-	1/0 URD PRI AL	0	0	561	299	16	2	1	0.00	5.09	0
1412011	1412010	8.35	43 3-	1/0 ACSR	814	757	561	151	189	8	4	0.00	5.09	0
1412012	1412011	9.49	43 2-	1/0 ACSR	0	656	489	146	189	13	6	0.17	5.26	19
1412015	1412012	10.27	7 1-	1/0 ACSR	0	0	449	143	32	4	2	0.04	5.29	0
1411111	1411094	7.20	116 3-	1/0 ACSR	961	891	664	157	824	38	17	0.25	4.62	175
1411092	1411111	7.26	2 1-	6 ACWC	0	0	655	156	9	1	1	0.00	4.62	0
1411112	1411111	7.27	109 3-	1/0 ACSR	951	881	657	156	784	36	16	0.04	4.66	29
OC400343	1411112	7.27	109 3-	REC_35_UNK	951	881	657	156	783	36	104	0.00	4.66	0
1411095	OC400343	9.64	109 3-	1/0 ACSR	694	649	483	146	783	36	16	0.85	5.51	414
1412013	1411095	10.35	14 1-	6 ACWC	0	0	431	140	138	19	14	0.51	6.01	56
1412014	1412013	10.82	9 1-	4 ACSR	0	0	401	137	92	12	9	0.14	6.15	8
CA400015	1411093	6.75	0 3-	Capacitor	1033	956	715	159	0	-14	0	0.00	4.31	0
1411107	1411106	4.29	0 3-	336.4 ACSR	1683	1533	1197	170	0	0	0	0.00	1.86	0
SW400003-B	1411107	4.29	0 3-	Open	1683	1533	1197	170	0	0	0	0.00	1.86	0
CKT 134 total losses:		\$8,610												
SUB 26, CKT 144														
CLIC_144	CLAY_LICK	0.00	607 3-	SBS_99_UNK	5202	5546	5529	179	4395	195	0	0.00	0.00	0
1511067	CLIC_144	1.14	607 3-	336.4 ACSR	3361	3184	2905	177	4395	195	37	1.25	1.25	3987
1411157	1511067	2.75	490 3-	336.4 ACSR	2227	2062	1727	174	3449	154	29	1.31	2.56	3473
1411097	1411157	3.13	445 3-	1/0 ACSR	1980	1833	1503	172	3138	141	62	0.82	3.38	2256
1411098	1411097	3.25	438 3-	1/0 ACSR	1912	1771	1444	172	2970	136	59	0.27	3.65	682
1411104	1411098	3.29	259 3-	1/0 ACSR	1887	1749	1423	171	1778	81	36	0.06	3.72	92
OC400391	1411104	3.29	259 3-	REC_70_UNK	1887	1749	1423	171	1777	81	117	0.00	3.72	0
1411105	OC400391	3.85	259 3-	1/0 ACSR	1625	1508	1201	168	1777	81	36	0.73	4.44	1061
1410041	1411105	4.64	215 3-	1/0 ACSR	1348	1255	979	165	1406	65	28	0.86	5.30	1020
1410061	1410041	4.73	41 1-	4 ACSR	0	0	950	164	216	30	22	0.12	5.43	24
1410062	1410061	4.74	41 1-	6 ACWC	0	0	948	164	216	30	22	0.01	5.43	2
OC400397	1410062	4.74	41 1-	REC_35_UNK	0	0	948	164	216	30	86	0.00	5.43	0
1410063	OC400397	4.95	41 1-	6 ACWC	0	0	888	162	216	30	22	0.26	5.70	50
1410064	1410063	5.07	37 1-	4 ACSR	0	0	856	160	191	26	19	0.13	5.83	22
1410065	1410064	5.67	28 1-	6 ACWC	0	0	724	155	157	22	16	0.44	6.27	52

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1410066	1410065	5.80	15 1-	4 ACSR	0	0	701	154	78	10	8	0.06	6.33	4
1410067	1410066	6.14	14 1-	2 ACSR	0	0	655	152	78	10	6	0.06	6.39	3
1410068	1410067	6.27	2 1-	4 ACSR	0	0	635	151	10	1	1	0.00	6.40	0
1410042	1410041	5.05	166 3-	1/0 ACSR	1238	1154	892	162	1141	53	23	0.37	5.67	361
1410043	1410042	5.18	162 3-	1/0 ACSR	1206	1125	868	162	1103	51	22	0.11	5.78	107
OC400395	1410043	5.18	161 3-	REC_35_UNK	1206	1125	868	162	1094	51	146	0.00	5.78	0
1410044	OC400395	5.52	161 3-	1/0 ACSR	1131	1056	811	160	1094	51	22	0.28	6.06	260
1410049	1410044	7.60	62 3-	1/0 ACSR	814	766	582	151	406	19	8	0.48	6.55	138
1410055	1410049	7.86	25 1-	4 ACSR	0	0	553	149	144	20	15	0.23	6.78	31
OC400396	1410055	7.86	25 1-	REC_25_UNK	0	0	553	149	144	20	82	0.00	6.78	0
1410056	OC400396	9.96	25 1-	4 ACSR	0	0	387	133	144	20	15	0.95	7.73	84
1410050	1410049	7.79	4 1-	4 ACSR	0	0	561	149	35	5	4	0.04	6.59	1
1410051	1410050	8.15	4 1-	6 ACWC	0	0	524	146	35	5	4	0.05	6.64	1
1410054	1410051	8.30	2 1-	4 ACSR	0	0	509	145	10	1	1	0.00	6.64	0
1410046	1410044	5.65	92 2-	1/0 ACSR	0	1031	791	160	623	43	19	0.11	6.18	59
1410059	1410046	6.57	31 1-	6 ACWC	0	0	630	151	198	27	20	0.95	7.12	152
1510104	1410059	7.26	19 1-	4 ACSR	0	0	542	146	132	18	13	0.29	7.41	23
1410047	1410046	7.36	61 2-	1/0 ACSR	0	780	595	152	424	29	13	0.70	6.88	202
1410038	1410047	7.77	20 1-	6 ACWC	0	0	548	148	138	19	14	0.34	7.21	41
1410039	1410038	8.38	18 1-	4 ACSR	0	0	488	143	126	17	13	0.42	7.63	43
1410040	1410039	9.50	12 1-	6 ACWC	0	0	406	135	87	12	9	0.31	7.94	16
1410048	1410047	7.43	6 2-	1/0 ACSR	0	772	589	151	35	2	1	0.00	6.88	0
1410058	1410048	7.82	6 1-	4 ACSR	0	0	545	148	35	4	4	0.04	6.92	0
SW400406-A	1410058	7.82	0 1-	Open	0	0	545	148	0	0	0	0.00	6.92	0
1410037	1410042	5.31	3 1-	4 ACSR	0	0	827	160	35	4	4	0.03	5.70	0
1410052	1411105	3.85	29 1-	4 ACSR	0	0	1198	168	192	26	19	0.01	4.45	0
OC400392	1410052	3.85	29 1-	REC_35_UNK	0	0	1198	168	192	26	76	0.00	4.45	0
1411159	OC400392	4.23	29 1-	4 ACSR	0	0	1041	165	192	26	19	0.33	4.78	47
1410080	1411159	5.15	18 1-	4 ACSR	0	0	775	156	90	12	9	0.26	5.04	14
1411099	1411098	3.62	178 3-	1/0 ACSR	1725	1602	1290	170	1182	54	24	0.31	3.96	289
OC400400	1411099	3.62	159 3-	REC_50_UNK	1725	1602	1290	170	965	44	89	0.00	3.96	0
1411100	OC400400	3.73	159 3-	1/0 ACSR	1675	1556	1250	169	965	44	19	0.08	4.04	68
1411101	1411100	4.39	137 3-	1/0 ACSR	1427	1331	1055	166	821	37	16	0.36	4.40	225
1411102	1411101	4.60	48 3-	1/0 ACSR	1362	1272	1004	165	378	17	8	0.06	4.46	19
1411103	1411102	4.76	6 3-	1/0 ACSR	1314	1228	967	164	21	0	0	0.00	4.46	0
1411144	1411103	4.85	4 1-	4 ACSR	0	0	940	163	8	1	1	0.00	4.46	0
SW400401-B	1411103	4.76	0 1-	Open	0	0	967	164	0	0	0	0.00	4.46	0
1411087	1411102	4.81	36 1-	4 ACSR	0	0	935	163	326	45	32	0.37	4.83	100
1411089	1411087	5.24	11 1-	4 ACSR	0	0	821	159	119	16	12	0.16	4.99	11
1411088	1411087	5.17	14 1-	4 ACSR	0	0	838	159	118	16	12	0.13	4.96	9
1411141	1411101	4.76	35 1-	4 ACSR	0	0	931	162	202	28	20	0.43	4.83	75
1410082	1411141	5.77	21 1-	4 ACSR	0	0	694	153	113	15	11	0.36	5.19	24
1410081	1411141	5.46	9 1-	4 ACSR	0	0	753	156	61	8	6	0.13	4.97	5
1411121	1411100	3.74	19 1-	4 ACSR	0	0	1247	169	136	18	13	0.00	4.05	0
SW400408-A	1411121	3.74	19 1-	Closed	0	0	1247	169	136	18	0	0.00	4.05	0
SW400408-B	SW400408-A	3.74	19 1-	Closed	0	0	1247	169	136	18	0	0.00	4.05	0
1411123	SW400408-B	4.26	19 1-	4 ACSR	0	0	1021	164	136	18	13	0.22	4.27	18
CA400018	1411097	3.13	0 3-	Capacitor	1980	1833	1503	172	0	-14	0	0.00	3.38	0
1511085	1511067	1.33	81 3-	1/0 ACSR	3080	2903	2599	176	613	27	12	0.09	1.34	45
OC400388	1511085	1.33	80 3-	no ocr	3080	2903	2599	176	608	27	18	0.00	1.34	0
1510103	OC400388	3.14	80 3-	1/0 ACSR	1647	1550	1263	167	608	27	12	0.46	1.80	162
1510086	1510103	3.27	5 1-	6 ACWC	0	0	1196	166	60	8	6	0.04	1.84	2

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES CONS	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 27	CHAPLIN		1		25395	26479	26577	180	1399					
SUB 27,	CKT 114													
	CHAP_114	CHAPLIN 0.00	1 3-	SBS_99_UNK	25395	26479	26577	180	1399	67	0	0.00	0.00	0
	1507006	CHAP_114 0.01	1 3-	336.4 ACSR	25069	25955	26025	180	1399	67	13	0.00	0.00	3
	1507999	1507006 0.01	1 3-	Consumer	25069	25955	26025	180	1399	67	0	0.00	0.00	0
CKT 114	total losses:	\$3												
SUB 27	total losses:	\$3												

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LIG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 31	BRACKEN_COUNTY		1764		5611	5860	5894	180	6664					
SUB 31,	CKT 104													
BRAK_104	BRACKEN_COUNTY	0.00	644 3-	SBS_99_UNK	5611	5860	5894	180	2445	109	0	0.00	0.00	0
0419042	BRAK_104	0.17	644 3-	336.4 ACSR	5165	5187	5163	179	2445	109	21	0.12	0.12	199
0419037	0419042	0.19	59 1-	4 ACSR	0	0	5027	179	202	27	19	0.03	0.15	5
OC145075	0419037	0.19	59 1-	REC_70_UNK	0	0	5027	179	202	27	39	0.00	0.15	0
0418053	OC145075	2.74	59 1-	4 ACSR	0	0	872	154	202	27	19	2.02	2.16	274
0418028	0418053	2.79	1 1-	2 ACSR	0	0	861	154	13	1	1	0.00	2.17	0
0418029	0418053	3.78	23 1-	6 ACWC	0	0	643	146	50	6	5	0.23	2.39	8
0318041	0418029	5.95	14 1-	4 ACSR	0	0	413	130	23	3	2	0.15	2.54	2
0319041	0419042	0.96	582 3-	336.4 ACSR	3763	3583	3205	178	2222	99	19	0.49	0.61	752
0319029	0319041	1.02	446 3-	3/0 ACSR	3664	3480	3093	178	1613	72	24	0.05	0.66	60
0318042	0319029	2.48	446 3-	336.4 ACSR	2444	2251	1831	175	1612	72	14	0.63	1.29	687
0318025	0318042	4.83	327 3-	4 ACSR	933	916	721	152	1107	49	36	4.09	5.38	3795
0318028	0318025	4.87	133 3-	4 ACSR	920	904	712	151	401	18	13	0.04	5.42	13
OC145066	0318028	4.87	133 3-	REC_70_UNK	920	904	712	151	401	18	27	0.00	5.42	0
0318029	OC145066	5.48	133 3-	4 ACSR	781	773	610	146	401	18	13	0.42	5.83	149
0318030	0318029	5.71	108 3-	4 ACSR	739	732	579	145	306	14	10	0.13	5.96	36
0318031	0318030	7.56	85 3-	4 ACSR	511	512	407	131	219	10	7	0.52	6.47	85
0317010	0318031	8.73	44 1-	4 ACSR	0	0	343	124	73	10	7	0.27	6.74	12
0317008	0318031	8.05	6 3-	4 ACSR	473	474	377	128	12	0	0	0.01	6.48	0
SW145797-A	0317008	8.05	0 3-	Open	473	474	377	128	0	0	0	0.00	6.48	0
0318035	0318030	5.82	22 1-	4 ACSR	0	0	565	144	82	11	8	0.06	6.01	4
OC145072	0318035	5.82	22 1-	REC_50_UNK	0	0	565	144	82	11	23	0.00	6.01	0
0318036	OC145072	6.12	22 1-	4 ACSR	0	0	529	141	82	11	8	0.15	6.17	11
0318037	0318036	8.10	21 1-	6 ACWC	0	0	376	128	77	10	8	0.53	6.69	26
0317004	0318037	8.28	2 1-	4 ACSR	0	0	366	127	9	1	1	0.01	6.70	0
0318033	0318029	5.53	16 1-	6 ACWC	0	0	602	146	46	6	5	0.02	5.85	0
OC145071	0318033	5.53	16 1-	REC_25_UNK	0	0	602	146	46	6	26	0.00	5.85	0
0318034	OC145071	7.52	16 1-	6 ACWC	0	0	412	132	46	6	5	0.28	6.13	8
0318026	0318025	5.37	123 3-	1/0 ACSR	860	842	658	149	436	20	9	0.18	5.56	69
OC145069	0318026	5.37	123 3-	REC_50_UNK	860	842	658	149	436	20	41	0.00	5.56	0
0318027	OC145069	8.20	123 3-	1/0 ACSR	610	592	452	138	436	20	9	0.70	6.27	217
0218007	0318027	8.33	41 1-	4 ACSR	0	0	441	137	103	14	10	0.08	6.35	8
OC145070	0218007	8.33	40 1-	REC_25_UNK	0	0	441	137	96	13	54	0.00	6.35	0
0218008	OC145070	8.84	40 1-	4 ACSR	0	0	406	134	96	13	10	0.28	6.63	23
0218006	0218008	10.67	33 1-	6 ACWC	0	0	316	122	78	10	8	0.48	7.11	23
0219009	0218006	10.84	6 1-	4 ACSR	0	0	310	121	6	0	1	0.00	7.11	0
0218005	0318027	8.65	20 1-	4 ACSR	0	0	419	135	94	13	9	0.13	6.40	8
0318024	0318042	2.77	86 3-	1/0 ACSR	2213	2023	1633	173	348	15	7	0.07	1.36	20
0318020	0318024	2.89	76 2-	2 ACSR	0	0	1937	1555	297	20	11	0.07	1.43	17
0318023	0318020	2.96	2 1-	4 ACSR	0	0	1499	171	4	0	0	0.00	1.43	0
0318021	0318020	2.89	74 2-	2 ACSR	0	1933	1552	172	293	19	11	0.00	1.43	0
OC145063	0318021	2.89	74 2-	REC_99_UNK	0	1933	1552	172	293	19	0	0.00	1.43	0
0319040	OC145063	4.35	74 2-	2 ACSR	0	1223	960	162	293	19	11	0.47	1.91	85
0319019	0319040	5.72	21 1-	6 ACWC	0	0	648	150	46	6	4	0.19	2.09	5
0319027	0319041	1.75	131 3-	1/0 ACSR	2627	2429	2036	174	578	25	11	0.29	0.91	127
OC147018	0319027	1.75	95 3-	REC_35_UNK	2627	2429	2036	174	413	18	53	0.00	0.91	0
0319028	OC147018	1.80	95 3-	1/0 ACSR	2567	2374	1981	173	413	18	8	0.02	0.92	6
0319036	0319028	4.38	50 1-	4 ACSR	0	0	683	149	236	31	23	2.22	3.14	337
0319043	0319036	5.20	9 1-	6 ACWC	0	0	561	143	49	6	5	0.12	3.26	4
0319044	0319028	4.17	44 1-	4 ACSR	0	0	723	151	169	22	16	1.21	2.13	119

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
CKT 104 total losses:		\$7,194												
SUB 31, CTK 114														
BRAK_114	BRACKEN_COUNTY	0.00	1120 3-	SBS_99_UNK	5611	5860	5894	180	4219	187	0	0.00	0.00	0
0419044	BRAK_114	0.23	1120 3-	336.4 ACSR	5033	5007	4961	179	4219	187	35	0.25	0.25	779
0419051	0419044	0.27	57 1-	4 ACSR	0	0	4740	179	235	31	23	0.05	0.31	11
0419052	0419051	0.40	57 1-	2 ACSR	0	0	4151	178	235	31	18	0.12	0.43	24
0419053	0419052	0.42	56 1-	4 ACSR	0	0	4049	178	229	30	22	0.03	0.46	6
OC145166	0419053	0.42	55 1-	REC_100_UNK	0	0	4049	178	221	29	30	0.00	0.46	0
0419054	OC145166	1.08	55 1-	4 ACSR	0	0	2097	170	221	29	21	0.73	1.19	124
0418038	0419054	1.19	38 1-	2 ACSR	0	0	1968	170	144	19	11	0.06	1.25	7
0418039	0418038	1.45	36 1-	4 ACSR	0	0	1652	167	131	17	13	0.20	1.45	23
0418043	0418039	3.46	25 1-	4 ACSR	0	0	717	149	97	13	9	0.82	2.27	56
0418044	0418043	3.87	7 1-	2 ACSR	0	0	659	147	38	5	3	0.03	2.30	0
0418040	0418039	2.43	9 1-	4 ACSR	0	0	1012	158	32	4	3	0.09	1.54	2
0419045	0419044	1.28	1060 3-	336.4 ACSR	3388	3197	2841	177	3972	176	33	1.04	1.30	3051
0419047	0419045	1.43	551 3-	336.4 ACSR	3229	3035	2669	177	2117	94	18	0.08	1.37	135
0419048	0419047	1.44	551 3-	1/0 ACSR	3221	3026	2660	177	2116	94	41	0.01	1.38	16
OC145169	0419048	1.44	551 3-	REC_100_UNK	3221	3026	2660	177	2115	94	94	0.00	1.38	0
0419049	OC145169	3.28	551 3-	1/0 ACSR	1683	1566	1238	168	2115	94	41	2.58	3.96	4843
0419065	0419049	3.29	52 1-	4 ACSR	0	0	1235	167	178	24	18	0.01	3.97	0
OC145191	0419065	3.29	52 1-	REC_99_UNK	0	0	1235	167	178	24	0	0.00	3.97	0
0419066	OC145191	3.50	52 1-	4 ACSR	0	0	1134	165	178	24	18	0.22	4.19	35
0419067	0419066	4.35	51 1-	2 ACSR	0	0	891	160	168	23	13	0.57	4.76	80
0419068	0419067	5.37	40 1-	4 ACSR	0	0	666	151	147	20	15	0.91	5.67	119
0419070	0419068	5.99	25 1-	4 ACSR	0	0	575	145	92	12	9	0.31	5.99	24
0419071	0419070	6.72	19 1-	6 ACWC	0	0	496	140	69	9	7	0.29	6.28	17
0419072	0419071	8.06	16 1-	4 ACSR	0	0	393	131	60	8	6	0.25	6.53	9
0419069	0419068	7.15	11 1-	4 ACSR	0	0	457	137	47	6	5	0.26	5.94	8
0319042	0419049	5.05	464 3-	1/0 ACSR	1131	1059	808	159	1772	80	35	2.05	6.02	3421
0319020	0319042	5.20	446 3-	1/0 ACSR	1100	1031	785	158	1654	77	34	0.19	6.21	274
REG499	0319020	5.20	441 3-	100	1100	1031	785	158	1642	77	77	-6.21	0.00	0
0319034	REG499	5.71	6 1-	6 ACSR	0	0	687	154	32	4	3	0.07	0.07	2
0319035	0319034	6.04	1 1-	4 ACWC	0	0	635	151	15	1	1	0.01	0.09	0
0319021	REG499	5.57	435 3-	1/0 ACSR	1031	967	734	157	1610	71	31	0.44	0.44	586
0319025	0319021	5.69	216 3-	1/0 ACSR	1010	947	718	156	928	41	18	0.08	0.53	64
OC145172	0319025	5.69	208 3-	REC_50_UNK	1010	947	718	156	886	39	79	0.00	0.53	0
0319026	OC145172	7.51	208 3-	1/0 ACSR	773	728	544	148	886	39	17	1.05	1.58	699
0320026	0319026	7.61	55 1-	4 ACSR	0	0	534	147	209	28	20	0.12	1.69	20
OC145173	0320026	7.61	44 1-	REC_99_UNK	0	0	534	147	173	23	0	0.00	1.69	0
0320024	OC145173	7.95	44 1-	4 ACSR	0	0	500	144	173	23	17	0.31	2.00	43
0320025	0320024	7.99	31 1-	2 ACSR	0	0	497	144	123	16	9	0.02	2.02	2
0320022	0320025	8.23	27 1-	4 ACSR	0	0	476	142	114	15	11	0.14	2.16	13
0320023	0320022	9.76	19 1-	6 ACWC	0	0	375	131	79	10	8	0.36	2.53	17
0320019	0319026	7.55	87 2-	2 ACSR	0	723	541	148	431	29	16	0.04	1.61	13
0320020	0320019	7.58	87 2-	4 ACSR	0	717	537	147	431	29	21	0.04	1.65	17
0420010	0320020	7.99	85 2-	2 ACSR	0	673	505	145	425	28	16	0.31	1.96	107
0420007	0420010	8.00	57 1-	4 ACSR	0	0	505	145	293	39	28	0.01	1.97	3
OC145174	0420007	8.00	57 1-	REC_70_UNK	0	0	505	145	293	39	57	0.00	1.97	0
0320028	OC145174	9.06	57 1-	4 ACSR	0	0	421	137	293	39	28	0.94	2.91	162
0420005	0420010	8.00	22 1-	4 ACSR	0	0	505	145	76	10	7	0.00	1.96	0
OC145175	0420005	8.00	22 1-	REC_70_UNK	0	0	505	145	76	10	15	0.00	1.96	0

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
0420006	OC145175	9.00	22 1-	4 ACSR	0	0	425	137	76	10	7	0.29	2.26	15
0320016	0420006	9.58	12 1-	2 ACSR	0	0	397	135	20	2	1	0.03	2.29	0
0320017	0320016	10.15	4 1-	4 ACSR	0	0	365	131	6	0	1	0.01	2.30	0
0320018	0320017	10.52	0 1-	6 ACWC	0	0	347	128	0	0	0	0.00	2.30	0
0319022	0319021	5.72	213 3-	1/0 ACSR	1006	943	715	156	666	29	13	0.07	0.52	40
0319031	0319022	5.81	12 1-	6 ACWC	0	0	698	155	35	4	3	0.02	0.54	0
OC145176	0319031	5.81	12 1-	REC_35_UNK	0	0	698	155	35	4	13	0.00	0.54	0
0319032	OC145176	8.16	12 1-	6 ACWC	0	0	434	136	35	4	3	0.24	0.78	5
0319033	0319032	8.39	0 1-	4 ACSR	0	0	418	135	0	0	0	0.00	0.78	0
0319023	0319022	5.95	199 3-	1/0 ACSR	969	909	687	155	620	27	12	0.11	0.62	54
OC145179	0319023	5.95	195 3-	REC_70_UNK	969	909	687	155	607	27	39	0.00	0.62	0
0319024	OC145179	9.11	195 3-	1/0 ACSR	640	603	448	141	607	27	12	1.29	1.91	599
OC146965	0319024	9.11	156 3-	REC_50_UNK	640	603	448	141	466	21	42	0.00	1.91	0
0219008	OC146965	9.29	156 3-	1/0 ACSR	628	592	440	141	466	21	9	0.06	1.97	23
0219010	0219008	10.94	111 3-	1/0 ACSR	535	505	376	135	325	14	6	0.20	2.17	37
0219006	0219008	9.76	35 1-	2 ACSR	0	0	415	138	107	14	8	0.16	2.13	13
0219007	0219006	10.80	12 1-	6 ACWC	0	0	358	131	58	7	6	0.27	2.40	11
0320014	0219007	11.19	8 1-	2 ACSR	0	0	344	129	28	3	2	0.04	2.43	0
0320015	0320014	12.54	5 1-	6 ACWC	0	0	293	121	15	2	1	0.06	2.50	0
CA145002	0319042	5.05	0 3-	Capacitor	1131	1059	808	159	0	-13	0	0.00	6.02	0
0419039	0419045	1.59	467 3-	336.4 ACSR	3082	2886	2515	177	1628	73	14	0.15	1.44	165
OC145184	0419039	1.59	464 3-	REC_70_UNK	3082	2886	2515	177	1617	73	105	0.00	1.44	0
0419040	OC145184	2.75	464 3-	336.4 ACSR	2308	2123	1766	174	1617	73	14	0.52	1.97	579
0419041	0419040	3.89	377 3-	4 ACSR	1382	1330	1055	163	1285	58	42	2.52	4.49	2889
RG145002	0419041	3.89	353 3-	219	1382	1330	1055	163	1185	54	25	-4.49	0.00	0
0418054	RG145002	5.13	353 3-	4 ACSR	907	892	707	151	1185	52	38	2.44	2.44	2495
0418033	0418054	3.30	326 3-	2 ACSR	878	864	684	150	1042	47	26	0.20	2.63	180
0418031	0418033	5.66	325 3-	4 ACSR	798	788	624	147	1033	47	34	0.65	3.29	611
0418036	0418031	6.53	199 3-	1/0 ACSR	714	702	551	144	609	27	12	0.40	3.69	200
OH495	0418036	7.28	150 3-	1/0 ACSR	655	642	500	141	486	22	10	0.27	3.96	109
OC145189	OH495	7.28	150 3-	REC_35_UNK	655	642	500	141	449	20	59	0.00	3.96	0
0418037	OC145189	7.43	150 3-	1/0 ACSR	645	632	491	140	449	20	9	0.05	4.01	19
0418047	0418037	9.07	79 1-	4 ACSR	0	0	374	129	252	34	25	2.33	6.33	492
0418048	0418047	9.19	59 1-	2 ACSR	0	0	369	129	202	28	16	0.10	6.43	18
0418049	0418048	9.70	59 1-	4 ACSR	0	0	344	125	201	28	20	0.43	6.86	61
0418050	0418049	10.43	15 1-	2 ACSR	0	0	320	122	65	9	5	0.13	6.99	6
0417108	0418050	10.76	4 1-	4 ACSR	0	0	307	121	20	2	2	0.02	7.01	0
0418026	0418037	9.73	69 1-	4 ACSR	0	0	341	125	191	26	19	1.49	5.50	178
0418027	0418026	11.85	13 1-	2 ACSR	0	0	281	117	19	2	1	0.09	5.58	0
0417059	0418027	12.20	2 1-	4 ACSR	0	0	271	115	0	0	0	0.00	5.58	0
0418042	0418036	7.87	26 1-	4 ACSR	0	0	428	134	79	10	8	0.53	4.21	33
0418041	0418042	8.67	13 1-	2 ACSR	0	0	389	130	49	6	4	0.08	4.30	2
0418032	0418031	5.71	116 3-	2 ACSR	791	781	619	147	387	17	10	0.02	3.31	8
0418034	0418032	6.38	116 3-	4 ACSR	676	671	533	142	387	17	13	0.42	3.73	138
0518056	0418034	8.21	57 3-	4 ACSR	482	483	385	129	211	9	7	0.35	4.07	45
SW145888-A	0518056	8.21	0 3-	Open	482	483	385	129	0	0	0	0.00	4.07	0
0418045	0418034	6.38	35 1-	6 ACWC	0	0	532	142	96	13	9	0.00	3.73	0
OC145186	0418045	6.38	35 1-	REC_25_UNK	0	0	532	142	96	13	53	0.00	3.73	0
0518057	OC145186	8.88	35 1-	6 ACWC	0	0	351	125	96	13	9	0.76	4.49	45
0519003	0518057	8.95	6 1-	4 ACSR	0	0	347	125	4	0	0	0.00	4.50	0
0519004	0519003	9.84	6 1-	2 ACSR	0	0	318	121	4	0	0	0.01	4.50	0
0419055	0419040	3.14	71 1-	4 ACSR	0	0	1455	170	246	33	24	0.54	2.51	111

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LIG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 32	COLEMANSVILLE		2518		5193	5425	5486	180	7344					
SUB 32,	CKT 104													
COLE104	COLEMANSVILLE	0.00	817 3-	SBS_99_UNK	5193	5425	5486	180	2297	101 0	0.00	0.00	0.00	0
0616050	COLE104	0.05	817 3-	336.4 ACSR	5070	5215	5266	180	2297	101 19	0.03	0.03	0.03	52
0616051	0616050	0.76	817 3-	3/0 ACSR	3531	3398	3074	177	2297	101 34	0.71	0.74	1418	
0616052	0616051	1.22	796 3-	3/0 ACSR	2923	2757	2397	175	2247	99 33	0.45	1.19	898	
0616053	0616052	2.96	667 3-	3/0 ACSR	1752	1609	1300	169	1945	86 29	1.41	2.60	2534	
0616038	0616053	3.04	378 3-	1/0 ACSR	1717	1578	1271	169	1086	49 21	0.05	2.65	57	
OC145236	0616038	3.04	378 3-	REC_70_UNK	1717	1578	1271	169	1085	49 70	0.00	2.65	0	
0615048	OC145236	3.95	378 3-	1/0 ACSR	1374	1270	994	164	1085	49 21	0.57	3.22	668	
0515038	0615048	4.94	270 3-	1/0 ACSR	1126	1046	804	159	864	39 17	0.43	3.64	443	
0515017	0515038	6.95	236 3-	1/0 ACSR	819	766	577	150	767	35 15	1.17	4.81	759	
0515018	0515017	7.06	131 3-	1/0 ACSR	807	755	568	150	516	23 10	0.04	4.86	20	
OC145243	0515018	7.06	131 3-	REC_50_UNK	807	755	568	150	516	23 48	0.00	4.86	0	
0515019	OC145243	9.45	131 3-	1/0 ACSR	610	573	426	140	516	23 10	0.80	5.65	315	
0514004	0515019	10.76	57 1-	4 ACSR	0	0	353	131	190	26 19	0.93	6.58	117	
SW145193-B	0514004	10.76	14 1-	Closed	0	0	353	131	37	5 0	0.00	6.58	0	
SW145193-A	SW145193-B	10.76	14 1-	Closed	0	0	353	131	37	5 0	0.00	6.58	0	
0514002	SW145193-A	11.73	14 1-	4 ACSR	0	0	313	124	37	5 4	0.11	6.69	3	
0515020	0515019	11.25	8 3-	2 ACSR	494	468	349	131	153	7 4	0.16	5.82	15	
0515029	0515017	7.14	95 1-	4 ACSR	0	0	555	149	225	31 22	0.26	5.08	53	
OC145240	0515029	7.14	95 1-	REC_50_UNK	0	0	555	149	224	31 63	0.00	5.08	0	
0515027	OC145240	8.22	95 1-	4 ACSR	0	0	455	140	224	31 22	1.45	6.53	288	
0515031	0515027	10.51	47 1-	4 ACSR	0	0	325	125	106	14 11	0.79	7.32	53	
0515032	0515031	10.57	1 1-	2 ACSR	0	0	324	124	5	0 0	0.00	7.32	0	
0515028	0515027	9.79	42 1-	4 ACSR	0	0	358	129	101	14 10	0.60	7.13	41	
0515030	0515028	10.05	5 1-	2 ACSR	0	0	348	128	20	2 2	0.01	7.14	0	
CA145005	0515038	4.94	0 3-	Capacitor	1126	1046	804	159	0	-14 0	0.00	3.64	0	
0615042	0615048	3.96	96 1-	4 ACSR	0	0	992	164	180	24 18	0.01	3.22	0	
OC145244	0615042	3.96	96 1-	REC_99_UNK	0	0	992	164	180	24 0	0.00	3.22	0	
0515039	OC145244	4.57	96 1-	4 ACSR	0	0	817	158	180	24 18	0.58	3.81	85	
0515024	0515039	5.54	76 1-	2 ACSR	0	0	667	152	131	18 10	0.41	4.22	40	
0515025	0515024	7.69	49 1-	4 ACSR	0	0	431	135	72	9 7	0.47	4.69	20	
0616054	0616053	3.01	275 3-	4 ACSR	1717	1581	1274	169	821	37 27	0.07	2.67	54	
OC145239	0616054	3.01	275 3-	REC_70_UNK	1717	1581	1274	169	821	37 53	0.00	2.67	0	
0516032	OC145239	4.58	275 3-	4 ACSR	978	944	742	154	821	37 27	2.29	4.96	1719	
0516022	0516032	4.89	270 3-	4 ACSR	894	868	682	151	793	36 26	0.44	5.40	322	
RG145005	0516022	4.89	263 3-	219	894	868	682	151	771	35 16	-5.40	0.00	0	
0516023	RG145005	6.67	263 3-	4 ACSR	595	587	465	137	771	34 25	2.32	2.32	1575	
0516017	0516023	6.70	236 3-	2 ACSR	592	585	462	137	718	32 18	0.03	2.35	18	
0516027	0516017	7.43	19 1-	4 ACSR	0	0	408	132	90	12 9	0.38	2.73	29	
OC145245	0516027	7.43	17 1-	REC_50_UNK	0	0	408	132	81	11 22	0.00	2.73	0	
0516028	OC145245	9.01	17 1-	4 ACSR	0	0	325	122	81	11 8	0.65	3.38	42	
OH463	0516028	10.67	0 1-	4 ACSR	0	0	268	113	55	7 5	0.28	3.66	9	
0516018	0516017	7.88	214 3-	4 ACSR	483	480	381	129	619	28 20	1.28	3.63	714	
0516019	0516018	9.00	112 3-	1/0 ACSR	443	439	347	126	325	14 6	0.24	3.86	59	
0516026	0516019	10.48	82 1-	4 ACSR	0	0	288	117	225	31 22	1.40	5.27	225	
0515021	0516026	10.94	30 1-	6 ACWC	0	0	274	115	84	11 8	0.22	5.49	16	
0515022	0515021	11.25	22 1-	4 ACSR	0	0	265	113	72	10 7	0.10	5.59	5	
0515023	0515022	11.98	11 1-	2 ACSR	0	0	251	111	31	4 2	0.05	5.63	0	
0516020	0516018	9.24	90 3-	4 ACSR	397	397	316	121	270	12 9	0.56	4.18	124	
0516021	0516020	9.68	3 3-	4 ACSR	376	376	300	119	12	0 0	0.00	4.19	0	

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW145795-A	0516021	9.68	0 3-	Open	376	376	300	119	0	0	0	0.00	4.19	0
0516015	0516020	9.76	58 1-	4 ACSR	0	0	297	118	175	24	17	0.53	4.71	80
OC145246	0516015	9.76	55 1-	REC_35_UNK	0	0	297	118	155	21	61	0.00	4.71	0
0416013	OC145246	14.08	55 1-	4 ACSR	0	0	197	99	155	21	15	2.06	6.77	193
0516024	0516032	4.71	3 1-	6 ACWC	0	0	716	153	13	1	1	0.01	4.97	0
0516025	0516024	4.96	2 1-	4 ACSR	0	0	671	150	11	1	1	0.01	4.98	0
0616035	0616052	1.51	125 1-	4 ACSR	0	0	1965	172	287	38	28	0.50	1.68	124
OC145232	0616035	1.51	125 1-	REC_50_UNK	0	0	1965	172	285	38	78	0.00	1.68	0
0616036	OC145232	1.84	125 1-	4 ACSR	0	0	1603	169	285	38	28	0.56	2.24	137
0616037	0616036	3.70	122 1-	2 ACSR	0	0	860	157	270	36	20	1.82	4.06	385
0615028	0616037	3.83	91 1-	4 ACSR	0	0	826	155	198	27	20	0.15	4.22	27
0615029	0615028	5.04	89 1-	2 ACSR	0	0	639	148	197	27	15	0.98	5.20	166
0615034	0615029	5.22	61 1-	2 ACSR	0	0	617	147	148	20	11	0.12	5.32	15
OC145233	0615034	5.22	61 1-	REC_99_UNK	0	0	617	147	148	20	0	0.00	5.32	0
0615035	OC145233	6.34	61 1-	2 ACSR	0	0	513	141	148	20	11	0.44	5.75	43
0515040	0615035	8.04	15 1-	4 ACSR	0	0	383	130	38	5	4	0.20	5.95	5
0615030	0615029	6.17	19 1-	2 ACSR	0	0	526	142	39	5	3	0.16	5.36	5
0615031	0615030	6.70	12 1-	4 ACSR	0	0	475	138	27	3	3	0.06	5.42	0
0615032	0615031	6.98	3 1-	2 ACSR	0	0	457	137	8	1	1	0.01	5.42	0
0615033	0615032	7.42	3 1-	4 ACSR	0	0	424	134	8	1	1	0.01	5.43	0
SW145384-B	0615030	6.17	0 1-	Open	0	0	526	142	0	0	0	0.00	5.36	0
0616056	0616051	2.84	15 1-	4 ACSR	0	0	921	156	21	2	2	0.13	0.87	2
CKT 104 total losses:		\$13,972												
SUB 32, CKT 114														
COLE_114	COLEMANSVILLE	0.00	501 3-	SBS_99_UNK	5193	5425	5486	180	1367	61	0	0.00	0.00	0
0616040	COLE_114	2.15	501 3-	336.4 ACSR	2562	2382	1974	175	1367	61	12	0.83	0.83	780
0616041	0616040	2.71	461 3-	336.4 ACSR	2259	2084	1689	174	1259	56	11	0.20	1.03	173
0616064	0616041	2.71	0 1-	4 ACSR	0	0	1684	174	0	0	0	0.00	1.03	0
SW145386-A	0616064	2.71	0 1-	Open	0	0	1684	174	0	0	0	0.00	1.03	0
0616042	0616041	3.17	459 3-	336.4 ACSR	2056	1887	1507	173	1250	56	11	0.16	1.20	143
0617052	0616042	3.48	401 3-	336.4 ACSR	1941	1777	1408	172	1130	51	10	0.10	1.29	77
0617028	0617052	3.56	396 3-	336.4 ACSR	1912	1750	1384	172	1118	50	10	0.03	1.32	20
OC145291	0617028	3.56	396 3-	REC_70_UNK	1912	1750	1384	172	1118	50	72	0.00	1.32	0
0617029	OC145291	3.67	396 3-	336.4 ACSR	1876	1716	1355	172	1118	50	10	0.03	1.35	26
0617030	0617029	4.12	396 3-	336.4 ACSR	1736	1582	1243	171	1118	50	10	0.14	1.50	111
0617031	0617030	5.93	389 3-	336.4 ACSR	1339	1218	936	167	1090	49	9	0.55	2.04	418
0617032	0617031	7.91	363 3-	336.4 ACSR	1070	974	736	163	1015	46	9	0.55	2.59	387
0617033	0617032	8.06	158 3-	3/0 ACSR	1048	954	720	163	405	18	6	0.03	2.62	10
OC145296	0617033	8.06	158 3-	REC_35_UNK	1048	954	720	163	405	18	53	0.00	2.62	0
0617034	OC145296	10.58	158 3-	3/0 ACSR	777	711	527	153	405	18	6	0.41	3.03	115
0618088	0617034	12.35	88 3-	3/0 ACSR	657	603	446	148	202	9	3	0.15	3.18	22
0618061	0618088	13.17	10 3-	3/0 ACSR	613	563	417	145	22	1	0	0.01	3.19	0
0618062	0618061	13.44	6 3-	3/0 ACSR	600	551	408	144	15	0	0	0.00	3.19	0
0618063	0618062	13.44	0 3-	1/0 ACSR	599	551	407	144	0	0	0	0.00	3.19	0
SW145249-A	0618063	13.44	0 3-	Open	599	551	407	144	0	0	0	0.00	3.19	0
0618044	0618061	13.55	0 1-	2 ACSR	0	0	399	143	0	0	0	0.00	3.19	0
0618042	0618088	12.57	54 1-	4 ACSR	0	0	432	146	114	15	11	0.16	3.34	16
OC145297	0618042	12.57	51 1-	REC_25_UNK	0	0	432	146	110	15	60	0.00	3.34	0
0618043	OC145297	14.25	51 1-	4 ACSR	0	0	346	133	110	15	11	0.56	3.90	37
0718049	0617034	11.18	11 3-	3/0 ACSR	732	670	497	152	34	1	1	0.01	3.04	0
SW145250-A	0718049	11.18	0 3-	Open	732	670	497	152	0	0	0	0.00	3.04	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
0617044	0617032	8.85	182 2-	4 ACSR	0	800	602	154	543	37	26	1.31	3.90	594
0717034	0617044	12.42	71 1-	4 ACSR	0		337	127	188	25	19	2.06	5.96	232
0617038	0617044	8.90	75 1-	4 ACSR	0		596	154	239	32	24	0.07	3.97	16
OC145293	0617038	8.90	75 1-	REC_35_UNK	0		596	154	239	32	94	0.00	3.97	0
0617039	OC145293	8.96	75 1-	4 ACSR	0		589	153	239	32	24	0.09	4.06	18
0617036	0617039	9.16	72 1-	6 ACWC	0		566	151	224	30	22	0.26	4.31	50
0617035	0617036	9.67	68 1-	4 ACSR	0		514	147	200	27	20	0.58	4.89	98
0717017	0617035	9.97	56 1-	6 ACWC	0		488	145	165	22	16	0.27	5.16	39
0717020	0717017	11.11	20 1-	6 ACWC	0		406	136	56	7	6	0.24	5.40	9
0718065	0717020	11.83	7 1-	4 ACSR	0		365	131	12	1	1	0.03	5.43	0
0717018	0717017	10.20	29 1-	6 ACWC	0		469	143	82	11	8	0.12	5.28	9
0717019	0717018	11.16	29 1-	4 ACSR	0		402	136	82	11	8	0.24	5.53	12
SW145756-A	0717019	11.16	0 1-	Open	0		402	136	0	0	0	0.00	5.53	0
0617027	0617031	6.00	14 1-	2 ACSR	0		920	167	48	6	4	0.01	2.06	0
0617025	0617027	6.01	14 1-	4 ACSR	0		919	167	48	6	5	0.00	2.06	0
OC145292	0617025	6.01	14 1-	REC_25_UNK	0		919	167	48	6	26	0.00	2.06	0
0617026	OC145292	7.31	14 1-	4 ACSR	0		657	154	48	6	5	0.19	2.25	5
0617037	0617030	4.21	1 1-	2 ACSR	0		1211	170	3	0	0	0.00	1.50	0
0616033	0616042	3.50	56 1-	4 ACSR	0		1312	170	114	15	11	0.22	1.41	22
OC145298	0616033	3.50	53 1-	REC_35_UNK	0		1312	170	111	14	43	0.00	1.41	0
0617051	OC145298	5.70	53 1-	4 ACSR	0		641	149	111	14	11	0.73	2.15	48
0616062	0616040	2.45	35 1-	6 ACWC	0		1681	172	96	12	9	0.16	0.99	13
0616063	0616062	3.15	32 1-	4 ACSR	0		1192	165	84	11	8	0.18	1.17	9
SW145386-B	0616063	3.15	0 1-	Open	0		1192	165	0	0	0	0.00	1.17	0
CKT 114 total losses:		\$3,509												
SUB 32, CKT 124														
COLE_124	COLEMANSVILLE	0.00	686 3-	SBS_99_UNK	5193	5425	5486	180	2484	111	0	0.00	0.00	0
0616045	COLE_124	0.01	686 3-	336.4 ACSR	5162	5372	5431	180	2484	111	21	0.01	0.01	16
0616046	0616045	0.07	686 3-	336.4 ACSR	5034	5167	5213	180	2484	111	21	0.04	0.05	68
0616047	0616046	1.95	686 3-	336.4 ACSR	2693	2517	2168	176	2483	111	21	1.38	1.43	2244
0616048	0616047	3.46	603 3-	336.4 ACSR	1947	1785	1467	173	2241	101	19	0.97	2.40	1435
0716039	0616048	3.58	504 3-	336.4 ACSR	1905	1747	1430	173	1897	86	16	0.07	2.47	88
0716066	0716039	3.60	0 1-	2 ACSR	0		1421	173	0	0	0	0.00	2.47	0
0716040	0716039	3.59	504 3-	4 ACSR	1901	1744	1426	173	1896	86	62	0.02	2.49	33
OC145329	0716040	3.59	504 3-	70-L	1901	1744	1426	173	1895	86	124	0.00	2.49	0
0716041	OC145329	4.50	504 3-	336.4 ACSR	1634	1497	1199	171	1895	86	16	0.50	2.99	636
0716042	0716041	5.07	453 3-	336.4 ACSR	1502	1376	1091	170	1709	78	15	0.29	3.28	338
0716044	0716042	5.33	210 3-	1/0 ACSR	1419	1301	1024	168	551	25	11	0.12	3.40	54
OC146966	0716044	5.33	210 3-	REC_35_UNK	1419	1301	1024	168	550	25	73	0.00	3.40	0
0716045	OC146966	5.68	210 3-	1/0 ACSR	1319	1213	945	166	550	25	11	0.15	3.55	67
0717016	0716045	6.76	136 1-	4 ACSR	0		704	156	294	42	30	1.78	5.33	410
0716069	0717016	7.65	11 1-	6 ACWC	0		575	148	24	3	2	0.11	5.44	2
0716034	0716069	7.71	6 1-	4 ACSR	0		568	148	13	1	1	0.01	5.44	0
0716035	0716034	8.03	5 1-	6 ACWC	0		532	145	13	1	1	0.01	5.46	0
0717032	0717016	7.97	94 1-	4 ACSR	0		537	146	167	24	17	0.69	6.02	69
0717033	0716045	7.59	60 1-	4 ACSR	0		581	149	208	28	20	1.21	4.76	151
0716043	0716042	5.13	234 3-	336.4 ACSR	1489	1364	1080	169	1137	52	10	0.02	3.30	16
SW145299-A	0716043	5.13	234 3-	Closed	1489	1364	1080	169	1136	52	0	0.00	3.30	0
SW145299-B	SW145299-A	5.13	234 3-	Closed	1489	1364	1080	169	1136	52	0	0.00	3.30	0
0716049	SW145299-B	5.38	234 3-	336.4 ACSR	1437	1316	1038	169	1136	52	10	0.08	3.38	67
0716048	0716049	5.44	232 3-	336.4 ACSR	1426	1305	1029	169	1116	51	10	0.02	3.40	15

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
0716038	0716048	5.81	30 1-	4 ACSR	0	0	921	165	196	26	19	0.22	3.62	26
0716047	0716048	6.91	201 3-	336.4 ACSR	1189	1088	843	166	911	41	8	0.36	3.76	229
0716046	0716047	7.05	183 3-	336.4 ACSR	1171	1071	828	165	814	37	7	0.03	3.79	18
0716056	0716046	7.15	72 1-	4 ACSR	0	0	808	164	261	36	26	0.16	3.95	36
OC146552	0716056	7.15	70 1-	REC_25_UNK	0	0	808	164	253	35	140	0.00	3.95	0
0716057	OC146552	9.31	70 1-	4 ACSR	0	0	505	145	253	35	25	1.93	5.88	312
0716055	0716057	10.19	7 1-	6 ACWC	0	0	434	138	36	5	4	0.10	5.97	2
0716050	0716046	7.82	100 3-	336.4 ACSR	1079	987	758	164	505	23	4	0.09	3.88	30
0716059	0716050	7.89	39 1-	6 ACWC	0	0	746	163	224	30	22	0.07	3.95	11
0816084	0716059	9.08	15 1-	4 ACSR	0	0	577	152	91	12	9	0.33	4.29	18
0816066	0716050	9.38	27 3-	336.4 ACSR	930	851	646	160	109	5	1	0.02	3.91	1
0716065	0716041	5.63	18 1-	4 ACSR	0	0	829	159	74	10	7	0.25	3.24	11
0716063	0616048	3.51	41 1-	4 ACSR	0	0	1437	172	160	21	16	0.05	2.45	7
OC145326	0716063	3.51	41 1-	REC_99_UNK	0	0	1437	172	160	21	0	0.00	2.45	0
0716064	OC145326	5.78	41 1-	4 ACSR	0	0	669	151	160	21	16	1.10	3.54	104
SW145389-A	0716064	5.78	0 1-	Open	0	0	669	151	0	0	0	0.00	3.54	0
0616057	0616047	2.00	62 1-	4 ACSR	0	0	2096	175	166	22	16	0.05	1.48	7
0616058	0616057	2.01	60 1-	2 ACSR	0	0	2090	175	138	18	10	0.00	1.48	0
OC145325	0616058	2.01	60 1-	REC_50_UNK	0	0	2090	175	138	18	37	0.00	1.48	0
0616059	OC145325	2.04	60 1-	2 ACSR	0	0	2055	175	138	18	10	0.02	1.50	2
0616060	0616059	3.07	60 1-	4 ACSR	0	0	1199	164	138	18	13	0.73	2.23	80
0716053	0616060	3.38	42 1-	4 ACSR	0	0	1052	161	98	13	10	0.14	2.37	10
0716054	0716053	3.80	21 1-	6 ACWC	0	0	904	157	48	6	5	0.09	2.46	3
0716051	0716054	5.23	16 1-	2 ACSR	0	0	655	149	28	3	2	0.08	2.54	1
0616066	0616060	3.64	0 1-	6 ACWC	0	0	957	159	0	0	0	0.00	2.23	0
CKT 124 total losses:	\$6,617													
SUB 32, CKT 134														
COLE_134	COLEMANSVILLE	0.00	514 3-	SBS_99_UNK	5193	5425	5486	180	1196	53	0	0.00	0.00	0
0616049	COLE_134	0.03	514 3-	336.4 ACSR	5121	5301	5356	180	1196	53	10	0.01	0.01	8
0616039	0616049	3.51	514 3-	3/0 ACSR	1551	1426	1134	167	1196	53	18	1.98	1.99	1757
0615037	0616039	3.67	258 3-	1/0 ACSR	1495	1375	1088	166	600	27	12	0.07	2.06	35
OC145378	0615037	3.67	258 3-	REC_70_UNK	1495	1375	1088	166	599	27	39	0.00	2.06	0
0615038	OC145378	5.15	258 3-	1/0 ACSR	1101	1021	784	159	599	27	12	0.66	2.72	324
0715029	0615038	5.79	218 3-	1/0 ACSR	987	917	698	156	515	23	10	0.25	2.96	106
0715031	0715029	5.83	125 3-	1/0 ACSR	981	912	694	156	303	13	6	0.01	2.97	2
OC145383	0715031	5.83	125 3-	REC_70_UNK	981	912	694	156	303	13	20	0.00	2.97	0
0715032	OC145383	7.30	125 3-	1/0 ACSR	791	739	555	149	303	13	6	0.32	3.29	81
0715036	0715032	7.31	20 1-	4 ACSR	0	0	555	149	50	6	5	0.00	3.30	0
OC145380	0715036	7.31	20 1-	REC_35_UNK	0	0	555	149	50	6	19	0.00	3.30	0
0715037	OC145380	8.67	20 1-	4 ACSR	0	0	435	139	50	6	5	0.29	3.58	10
0715034	0715037	9.44	6 1-	2 ACSR	0	0	396	135	19	2	1	0.04	3.62	0
0715035	0715034	9.66	1 1-	4 ACSR	0	0	384	133	4	0	0	0.00	3.62	0
0715033	0715032	8.69	93 3-	1/0 ACSR	669	626	467	143	223	10	4	0.22	3.51	39
0715043	0715033	8.74	71 1-	2 ACSR	0	0	464	143	174	23	13	0.04	3.55	6
OC145379	0715043	8.74	71 1-	REC_25_UNK	0	0	464	143	174	23	96	0.00	3.55	0
0715044	OC145379	12.42	71 1-	2 ACSR	0	0	311	125	174	23	13	1.34	4.89	134
0715025	0715033	8.76	6 1-	2 ACSR	0	0	463	143	15	2	1	0.00	3.52	0
0715026	0715025	9.85	6 1-	4 ACSR	0	0	391	135	15	2	1	0.05	3.57	0
0715030	0715029	8.42	83 3-	1/0 ACSR	689	645	482	145	191	8	4	0.31	3.27	43
0716036	0715030	10.81	15 1-	4 ACSR	0	0	338	128	38	5	4	0.30	3.57	7
0715024	0716036	11.00	2 1-	2 ACSR	0	0	332	127	4	0	0	0.00	3.58	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 33	FOUR_OAKS		2062		4932	5203	5255	180	8217					
SUB 33,	CKT 114													
4OAK_114	FOUR_OAKS	0.00	211 3-	SBS_99_UNK	4932	5203	5255	180	752	33 0	0.00	0.00	0.00	0
0517053	4OAK_114	0.01	211 3-	3/0 ACSR	4906	5159	5211	180	752	33 11	0.00	0.00	0.00	2
0517054	0517053	0.31	211 3-	1/0 ACSR	4102	4057	3911	178	752	33 15	0.18	0.18	0.18	108
0517056	0517054	2.54	176 3-	1/0 ACSR	1684	1576	1272	167	655	29 13	1.08	1.26	1.26	553
OC145791	0517056	2.54	152 3-	REC_99_UNK	1684	1576	1272	167	583	26 0	0.00	1.26	1.26	0
0517057	OC145791	2.57	152 3-	1/0 ACSR	1671	1563	1260	167	583	26 12	0.01	1.27	1.27	6
0517063	0517057	3.00	69 1-	4 ACSR	0	0	1056	162	254	34 25	0.63	1.90	1.90	133
0517064	0517063	3.13	62 1-	2 ACSR	0	0	1017	162	221	30 17	0.11	2.02	2.11	161
0517065	0517064	4.20	59 1-	4 ACSR	0	0	719	152	207	28 20	1.07	3.09	3.09	266
0417105	0517065	5.19	20 1-	4 ACSR	0	0	565	144	74	10 7	0.23	3.32	3.32	10
0417102	0517065	5.31	11 1-	4 ACSR	0	0	550	143	40	5 4	0.14	3.23	3.23	3
0517040	0517057	4.68	74 1-	4 ACSR	0	0	632	148	304	41 30	3.33	4.60	4.60	788
0517041	0517040	5.32	50 1-	2 ACSR	0	0	564	144	203	28 16	0.55	5.15	5.15	92
0517043	0517041	5.50	13 1-	4 ACSR	0	0	542	143	64	9 6	0.07	5.22	5.22	4
SW145774-A	0517043	5.50	11 1-	Closed	0	0	542	143	58	8 0	0.00	5.22	5.22	0
SW145774-B	SW145774-A	5.50	11 1-	Closed	0	0	542	143	58	8 0	0.00	5.22	5.22	0
0517044	SW145774-B	5.59	11 1-	4 ACSR	0	0	533	142	58	8 6	0.01	5.24	5.24	0
0516031	0517041	7.76	34 1-	6 ACSR	0	0	368	127	121	16 12	0.93	6.08	6.07	67
0517085	0517057	3.05	9 1-	2 ACSR	0	0	1077	163	25	3 2	0.04	1.31	1.31	0
0516033	0517085	4.54	6 1-	6 ACWC	0	0	675	150	11	1 1	0.05	1.36	1.36	0
0517071	0517054	0.32	34 1-	2 ACSR	0	0	3890	178	95	12 7	0.00	0.18	0.18	0
OC145788	0517071	0.32	34 1-	REC_99_UNK	0	0	3890	178	95	12 0	0.00	0.18	0.18	0
0517072	OC145788	2.61	34 1-	2 ACSR	0	0	1114	162	95	12 7	0.71	0.89	0.89	47
0517070	0517072	3.01	4 1-	4 ACSR	0	0	952	158	28	3 3	0.03	0.92	0.92	0
0517068	0517072	3.62	9 1-	2 ACSR	0	0	839	156	22	3 2	0.06	0.95	0.95	0
0517069	0517068	3.73	2 1-	4 ACSR	0	0	809	155	6	0 1	0.00	0.95	0.95	0
CKT 114	total losses:	\$2,000												
SUB 33,	CKT 124													
4OAK_124	FOUR_OAKS	0.00	1017 3-	SBS_99_UNK	4932	5203	5255	180	4139	184 0	0.00	0.00	0.00	0
0517047	4OAK_124	0.01	1017 3-	336.4 ACSR	4915	5174	5226	180	4139	184 35	0.01	0.01	0.01	26
0517046	0517047	3.56	956 3-	336.4 ACSR	1875	1717	1369	172	3930	175 33	3.15	3.15	3.15	8143
0417097	0517046	3.61	149 3-	1/0 ACSR	1849	1692	1347	172	463	21 9	0.02	3.17	3.17	7
OC145870	0417097	3.61	149 3-	70-L	1849	1692	1347	172	463	21 31	0.00	3.17	3.17	0
0417098	OC145870	4.74	149 3-	1/0 ACSR	1402	1288	994	166	463	21 9	0.41	3.58	3.58	156
0417065	0417098	5.72	71 3-	1/0 ACSR	1153	1066	815	161	234	10 5	0.17	3.75	3.75	32
0417072	0417065	6.68	43 1-	8 ACWC	0	0	597	149	139	19 19	1.04	4.79	4.79	118
0417073	0417072	6.75	29 1-	4 ACSR	0	0	589	148	94	13 9	0.04	4.83	4.83	3
0417074	0417073	7.17	25 1-	6 ACWC	0	0	540	145	79	11 8	0.20	5.03	5.03	14
0417075	0417074	7.48	21 1-	1/0 ACSR	0	0	519	144	73	10 4	0.06	5.09	5.09	3
0417076	0417075	8.08	15 1-	8 ACWC	0	0	448	137	54	7 8	0.23	5.31	5.31	9
0417060	0417076	8.63	6 1-	2 ACSR	0	0	418	134	27	3 2	0.03	5.35	5.35	0
0417066	0417065	5.84	21 1-	4 ACSR	0	0	788	160	67	9 7	0.05	3.80	3.80	3
0417067	0417066	5.86	21 1-	6 ACWC	0	0	783	160	67	9 7	0.01	3.81	3.81	0
0417068	0417067	5.90	20 1-	4 ACSR	0	0	776	160	55	7 5	0.01	3.82	3.82	0
0417069	0417068	5.91	17 1-	8 ACWC	0	0	774	160	38	5 5	0.00	3.83	3.83	0
OC145881	0417069	5.91	17 1-	REC_99_UNK	0	0	774	160	38	5 0	0.00	3.83	3.83	0
0417070	OC145881	7.00	17 1-	8 ACWC	0	0	553	146	38	5 5	0.19	4.02	4.02	4
0417071	0417070	7.39	1 1-	4 ACSR	0	0	511	142	0	0 0	0.00	4.02	4.02	0
0417109	0417098	4.96	70 1-	4 ACSR	0	0	929	164	212	29 21	0.29	3.87	3.87	54

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
OC145880	0417109	4.96	70 1-	REC_35_UNK	0	0	929	164	212	29	84	0.00	3.87	0
0417110	OC145880	5.47	70 1-	4 ACSR	0	0	798	159	212	29	21	0.67	4.54	124
0417114	0417110	5.95	56 1-	1/0 ACSR	0	0	733	157	178	24	11	0.26	4.80	37
0417115	0417114	7.47	54 1-	4 ACSR	0	0	520	144	173	24	17	0.83	5.63	86
0417111	0417110	5.62	11 1-	4 ACSR	0	0	767	158	21	2	2	0.02	4.56	0
0417112	0417111	5.85	11 1-	6 ACWC	0	0	721	155	21	2	2	0.02	4.58	0
0417113	0417112	5.99	3 1-	4 ACSR	0	0	696	154	6	0	1	0.00	4.58	0
0417080	0517046	3.89	592 3-	336.4 ACSR	1771	1617	1279	171	2289	103	20	0.18	3.34	350
0417085	0417080	4.05	590 3-	336.4 ACSR	1726	1575	1241	171	2284	105	20	0.11	3.45	167
0417078	0417085	4.08	20 2-	2 ACSR	0	1557	1228	171	72	5	3	0.00	3.45	0
0417104	0417078	4.16	9 1-	4 ACSR	0	0	1192	170	46	6	5	0.01	3.46	0
0417086	0417085	4.09	562 3-	336.4 ACSR	1715	1564	1232	171	2185	101	19	0.03	3.47	39
OC145873	0417086	4.09	562 3-	REC_100_UNK	1715	1564	1232	171	2185	101	101	0.00	3.47	0
0417087	OC145873	4.11	562 3-	336.4 ACSR	1708	1557	1226	171	2185	101	19	0.02	3.49	26
0417062	0417087	4.52	86 1-	4 ACSR	0	0	1059	167	398	55	39	0.67	4.16	182
0417063	0417062	4.67	28 1-	2 ACSR	0	0	1017	166	121	16	9	0.06	4.22	5
0417116	0417063	5.07	14 1-	1/0 URD PRI AL	0	0	937	362	59	8	5	0.05	4.27	2
0417064	0417116	5.19	0 1-	4 ACSR	0	0	903	162	0	0	0	0.00	4.27	0
SW145983-B	0417064	5.19	0 1-	Open	0	0	903	162	0	0	0	0.00	4.27	0
0417088	0417087	4.29	472 3-	336.4 ACSR	1659	1512	1185	171	1777	82	16	0.09	3.58	106
0417081	0417088	4.37	408 3-	1/0 ACSR	1629	1482	1163	170	1548	71	31	0.09	3.67	109
0417082	0417081	4.62	349 3-	4 ACSR	1496	1376	1067	168	1370	63	45	0.63	4.29	790
0417083	0417082	5.40	349 3-	4 ACSR	1153	1089	834	160	1363	63	45	1.94	6.24	2453
0417106	0417083	5.47	49 1-	4 ACSR	0	0	817	159	146	20	15	0.07	6.30	9
OC145875	0417106	5.47	49 1-	REC_35_UNK	0	0	817	159	146	20	59	0.00	6.30	0
0416014	OC145875	8.13	49 1-	4 ACSR	0	0	450	137	146	20	15	1.39	7.70	130
0416010	0416014	8.56	5 1-	6 ACWC	0	0	420	134	17	2	2	0.02	7.72	0
0417084	0417083	5.90	299 3-	4 ACSR	990	947	726	155	1196	56	40	-1.10	7.34	1226
RG145018	0417084	5.90	291 3-	219	990	947	726	155	1153	54	25	-7.34	0.00	0
0417089	RG145018	6.51	291 3-	4 ACSR	838	810	623	150	1153	51	37	1.15	1.15	1123
0417092	0417089	6.59	80 3-	4 ACSR	821	795	612	149	408	18	13	0.06	1.21	21
0416007	0417092	6.59	76 3-	6 ACWC	821	795	612	149	403	18	13	0.00	1.21	0
OC145884	0416007	6.59	76 3-	REC_50_UNK	821	795	612	149	403	18	37	0.00	1.21	0
0416008	OC145884	7.42	76 3-	6 ACWC	680	665	514	143	403	18	13	0.53	1.74	181
0416009	0416008	10.51	65 3-	4 ACSR	406	404	318	122	325	14	11	0.90	2.64	177
SW145795-B	0416009	10.51	0 3-	Open	406	404	318	122	0	0	0	0.00	2.64	0
0416006	0417092	6.95	4 1-	4 ACSR	0	0	566	146	5	0	1	0.01	1.21	0
0417093	0417089	6.61	174 3-	4 ACSR	817	791	609	149	546	24	18	0.09	1.25	47
0417094	0417093	6.62	173 3-	6 ACWC	816	790	608	149	545	24	18	0.01	1.25	3
OC145878	0417094	6.62	173 3-	REC_50_UNK	816	790	608	149	545	24	49	0.00	1.25	0
0417090	OC145878	6.93	173 3-	6 ACWC	758	737	569	146	545	24	18	0.28	1.53	130
0417091	0417090	7.83	153 3-	6 ACWC	626	615	477	140	451	20	15	0.69	2.22	278
0417095	0417091	9.22	140 3-	4 ACSR	489	485	379	130	422	19	14	0.95	3.17	341
0417077	0417095	10.42	32 2-	4 ACSR	0	408	322	123	115	7	6	0.20	3.38	14
0417100	0417095	9.24	37 1-	2 ACSR	0	0	378	130	98	13	8	0.01	3.18	0
OC145879	0417100	9.24	37 1-	REC_99_UNK	0	0	378	130	98	13	0	0.00	3.18	0
0317009	OC145879	10.64	37 1-	2 ACSR	0	0	327	124	98	13	8	0.32	3.50	18
0317003	0317009	11.12	5 1-	4 ACSR	0	0	308	121	8	1	1	0.01	3.51	0
0417096	0417095	11.73	36 3-	4 ACSR	350	350	276	115	121	5	4	0.27	3.45	20
SW145797-B	0417096	11.73	0 3-	Open	350	350	276	115	0	0	0	0.00	3.45	0
0417103	0417090	7.02	5 1-	4 ACSR	0	0	557	146	20	2	2	0.01	1.53	0
SW145796-A	0417103	7.02	1 1-	Closed	0	0	557	146	0	0	0	0.00	1.53	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW145796-B	SW145796-A	7.02	1 1-	Closed	0	0	557	146	0	0	0	0.00	1.53	0
0417099	SW145796-B	7.04	1 1-	4 ACSR	0	0	555	145	0	0	0	0.00	1.53	0
0417061	0417082	4.62	0 1-	4 ACSR	0	0	1065	167	0	0	0	0.00	4.29	0
SW145983-A	0417061	4.62	0 1-	Open	0	0	1065	167	0	0	0	0.00	4.29	0
CA145022	0417080	3.89	0 3-	Capacitor	1771	1617	1279	171	0	-14	0	0.00	3.34	0
0517048	0517047	0.50	61 3-	4 ACSR	3230	3138	2921	174	208	9	7	0.16	0.16	26
0517062	0517048	0.51	40 1-	2 ACSR	0	0	2907	174	146	19	11	0.00	0.17	0
OC145874	0517062	0.51	40 1-	REC_50_UNK	0	0	2907	174	146	19	39	0.00	0.17	0
0517060	OC145874	0.90	40 1-	2 ACSR	0	0	2200	171	146	19	11	0.23	0.40	27
0517059	0517060	1.12	2 1-	4 ACSR	0	0	1862	169	10	1	1	0.01	0.41	0
OC415306514	0517059	1.12	0 1-	19192	0	0	1862	169	0	0	0	0.00	0.41	0
0517078	OC415306514	1.13	0 1-	1/0 URD PRI AL	0	0	1855	406	0	0	0	0.00	0.41	0
0517058	0517060	2.90	36 1-	2 ACSR	0	0	961	158	127	17	10	0.54	0.94	38
CKT 124 total losses:		\$16,857												
SUB 33, CKT 134														
40AK_134	FOUR_OAKS	0.00	815 3-	SBS_99_UNK	4932	5203	5255	180	2733	123	0	0.00	0.00	0
0517055	40AK_134	1.18	815 3-	3/0 ACSR	2871	2717	2391	175	2733	123	41	1.74	1.74	3445
0517066	0517055	1.23	43 1-	4 ACSR	0	0	2301	175	130	17	13	0.04	1.78	5
OC145956	0517066	1.23	43 1-	REC_99_UNK	0	0	2301	175	130	17	0	0.00	1.78	0
0517067	OC145956	3.26	43 1-	4 ACSR	0	0	849	155	130	17	13	0.82	2.59	62
0517049	0517055	1.57	747 3-	3/0 ACSR	2503	2339	2010	174	2493	114	38	0.54	2.28	1007
0517074	0517049	1.58	65 1-	4 ACSR	0	0	2003	174	177	24	17	0.01	2.28	0
OC145957	0517074	1.58	65 1-	REC_99_UNK	0	0	2003	174	177	24	0	0.00	2.28	0
0517075	OC145957	2.52	65 1-	4 ACSR	0	0	1209	164	177	24	17	0.99	3.28	149
0517077	0517075	4.25	40 1-	4 ACSR	0	0	672	149	104	14	10	1.11	4.38	101
0518050	0517077	5.96	14 1-	4 ACSR	0	0	463	136	53	7	5	0.28	4.67	9
0517084	0517077	6.40	20 1-	4 ACSR	0	0	428	133	47	6	5	0.32	4.70	9
0518058	0517075	3.24	19 1-	4 ACSR	0	0	912	157	56	7	6	0.19	3.46	8
0518047	0518058	3.30	5 1-	6 ACWC	0	0	893	157	28	3	3	0.01	3.47	0
0518048	0518047	3.52	3 1-	4 ACSR	0	0	830	155	22	3	2	0.02	3.49	0
0517050	0517049	3.45	678 3-	3/0 ACSR	1543	1420	1138	167	2293	105	35	2.34	4.61	4007
0518034	0517050	3.93	402 3-	3/0 ACSR	1405	1293	1025	166	1284	60	20	0.34	4.95	334
0518031	0518034	4.17	342 3-	336.4 ACSR	1360	1251	986	165	1145	53	10	0.09	5.04	69
SW145887-A	0518031	4.17	342 3-	Closed	1360	1251	986	165	1145	53	0	0.00	5.04	0
SW145887-B	SW145887-A	4.17	342 3-	Closed	1360	1251	986	165	1145	53	0	0.00	5.04	0
0518032	SW145887-B	4.46	342 3-	336.4 ACSR	1312	1206	946	164	1145	53	10	0.10	5.14	78
0518029	0518032	4.51	333 3-	3/0 ACSR	1300	1195	936	164	1118	52	17	0.03	5.17	29
0618089	0518029	5.44	333 3-	336.4 ACSR	1165	1070	825	162	1117	52	10	0.32	5.50	245
0618064	0618089	5.69	324 3-	3/0 ACSR	1122	1031	795	161	1089	51	17	0.15	5.64	126
0618065	0618064	6.14	320 3-	336.4 ACSR	1070	983	753	160	1070	50	10	0.15	5.79	111
0618080	0618065	6.17	25 1-	4 ACSR	0	0	748	160	87	12	9	0.02	5.81	1
0618081	0618080	6.18	25 1-	6 ACWC	0	0	748	160	87	12	9	0.00	5.81	0
OC145962	0618081	6.18	25 1-	REC_25_UNK	0	0	748	160	87	12	49	0.00	5.81	0
0618082	OC145962	8.13	25 1-	6 ACWC	0	0	494	143	87	12	9	0.54	6.35	28
0618067	0618065	6.22	288 3-	336.4 ACSR	1062	975	746	160	971	45	9	0.02	5.82	15
0618068	0618067	6.29	269 3-	3/0 ACSR	1052	966	739	160	900	42	14	0.03	5.85	24
0618050	0618068	6.56	264 3-	336.4 ACSR	1024	941	717	160	874	41	8	0.07	5.92	42
0618048	0618050	6.60	23 3-	336.4 ACSR	1020	937	714	159	106	4	1	0.00	5.92	0
0618049	0618048	6.72	23 3-	1/0 ACSR	1001	920	701	159	106	4	2	0.01	5.93	0
OC-2079624629	0618049	6.72	3 3-	_DefaultBayEqui	1001	920	701	159	18	0	0	0.00	5.93	0
0618059	OC-2079624629	7.32	3 3-	1/0 ACSR	914	843	639	156	18	0	0	0.00	5.93	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW145249-B	0618059	7.32	0 3-	Open	914	843	639	156	0	0	0	0.00	5.93	0
0618051	0618050	6.62	226 3-	336.4 ACSR	1019	935	713	159	715	33	6	0.01	5.93	6
OC145965	0618051	6.62	224 3-	REC_99_UNK	1019	935	713	159	714	33	0	0.00	5.93	0
0618052	OC145965	8.40	224 3-	336.4 ACSR	869	797	601	156	714	33	6	0.38	6.31	179
0618053	0618052	8.52	201 3-	336.4 ACSR	860	789	595	156	635	30	6	0.02	6.33	11
0618045	0618053	8.94	2 1-	4 ACSR	0	0	549	152	0	0	0	0.00	6.33	0
0618054	0618053	9.12	199 3-	336.4 ACSR	820	753	566	154	634	30	6	0.12	6.45	51
0618056	0618054	9.93	109 3-	4 ACSR	700	654	490	147	347	16	12	0.53	6.98	172
RG145040	0618056	9.93	107 3-	219	700	654	490	147	343	16	7	-6.98	0.00	0
0618057	RG145040	10.62	107 3-	4 ACSR	618	584	438	142	343	15	11	0.36	0.36	98
0618046	0618057	10.64	82 1-	4 ACSR	0	0	436	141	241	32	23	0.03	0.39	7
OC145967	0618046	10.64	82 1-	REC_35_UNK	0	0	436	141	241	32	93	0.00	0.39	0
0619034	OC145967	12.31	82 1-	4 ACSR	0	0	345	130	241	32	23	2.09	2.48	393
0619019	0619034	13.11	61 1-	6 ACWC	0	0	313	125	167	22	16	0.58	3.06	68
0619018	0619019	16.72	34 1-	6 ACWC	0	0	219	106	64	8	6	0.71	3.77	27
0619020	0619019	13.25	1 1-	4 ACSR	0	0	307	124	3	0	0	0.00	3.06	0
0618058	0618057	10.63	0 3-	1/0 ACSR	618	584	438	142	0	0	0	0.00	0.36	0
SW146123-A	0618058	10.63	0 3-	Open	618	584	438	142	0	0	0	0.00	0.36	0
0518055	0618054	11.91	83 3-	4 ACSR	501	481	363	132	273	12	9	1.15	7.60	260
0518028	0518055	13.31	24 3-	4 ACSR	412	400	305	123	108	5	4	0.14	7.75	10
SW145888-B	0518028	13.31	0 3-	Open	412	400	305	123	0	0	0	0.00	7.75	0
0518026	0518055	11.91	24 1-	4 ACSR	0	0	363	132	61	8	6	0.00	7.61	0
OC145966	0518026	11.91	24 1-	REC_35_UNK	0	0	363	132	61	8	25	0.00	7.61	0
0519006	OC145966	14.72	24 1-	4 ACSR	0	0	262	116	61	8	6	0.56	8.16	21
SW145986-B	0618052	8.40	0 1-	Open	0	0	601	156	0	0	0	0.00	6.31	0
0518035	0518034	4.12	54 1-	4 ACSR	0	0	961	164	125	17	13	0.15	5.10	17
0518036	0518035	4.17	54 1-	2 ACSR	0	0	949	163	125	17	10	0.03	5.13	3
0518041	0518036	4.17	21 1-	2 ACSR	0	0	947	163	48	6	4	0.00	5.13	0
OC145960	0518041	4.17	21 1-	REC_35_UNK	0	0	947	163	48	6	19	0.00	5.13	0
0518044	OC145960	4.31	21 1-	2 ACSR	0	0	914	162	48	6	4	0.03	5.16	0
0518045	0518044	4.91	20 1-	4 ACSR	0	0	765	157	43	6	4	0.10	5.26	3
0518046	0518045	5.28	7 1-	6 ACWC	0	0	695	153	10	1	1	0.02	5.28	0
0518042	0518046	6.06	3 1-	4 ACSR	0	0	578	147	3	0	0	0.02	5.29	0
0518043	0518042	6.95	3 1-	6 ACWC	0	0	484	140	3	0	0	0.01	5.30	0
0518037	0518036	4.17	33 1-	2 ACSR	0	0	947	163	77	10	6	0.00	5.13	0
OC145961	0518037	4.17	33 1-	REC_35_UNK	0	0	947	163	77	10	31	0.00	5.13	0
0518038	OC145961	4.50	33 1-	2 ACSR	0	0	874	161	77	10	6	0.10	5.24	7
0518039	0518038	5.79	30 1-	4 ACSR	0	0	619	149	70	9	7	0.40	5.64	20
0518040	0518039	6.61	9 1-	6 ACWC	0	0	520	143	28	3	3	0.08	5.72	1
0618076	0518040	7.59	2 1-	4 ACSR	0	0	435	136	3	0	0	0.01	5.73	0
SW145986-A	0618076	7.59	0 1-	Open	0	0	435	136	0	0	0	0.00	5.73	0
0517082	0517050	3.53	251 3-	1/0 ACSR	1514	1394	1115	167	914	42	19	0.06	4.67	44
OC146970	0517082	3.53	248 3-	REC_50_UNK	1514	1394	1115	167	904	42	84	0.00	4.67	0
0517051	OC146970	3.62	248 3-	1/0 ACSR	1481	1365	1090	166	904	42	18	0.07	4.74	51
0517052	0517051	4.76	248 3-	3/0 ACSR	1209	1114	870	162	903	42	14	0.55	5.29	381
0517073	0517052	5.98	91 3-	1/0 ACSR	976	906	699	157	354	16	7	0.32	5.62	92
0617046	0517073	5.98	81 1-	2 ACSR	0	0	698	157	301	42	24	0.01	5.62	2
OC145968	0617046	5.98	81 1-	REC_35_UNK	0	0	698	157	301	42	122	0.00	5.62	0
0617047	OC145968	6.75	81 1-	2 ACSR	0	0	607	152	301	42	24	0.99	6.61	252
0617048	0617047	8.95	72 1-	4 ACSR	0	0	407	135	280	39	28	1.98	8.59	336
0517061	0517052	6.97	145 3-	1/0 ACSR	842	785	602	152	503	23	10	0.67	5.96	235
0517083	0517061	7.52	6 1-	4 ACSR	0	0	539	148	28	3	3	0.05	6.01	0

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 34	LEES_LICK		1899		5509	5975	5947	179	11115					
SUB 34,	CKT 104													
LEES_104	LEES_LICK	0.00	593 3-	SBS_99_UNK	5509	5975	5947	179	3383	150	0	0.00	0.00	0
0916069	LEES_104	1.10	593 3-	3/0 ACSR	3110	2952	2659	176	3383	150	50	1.80	1.80	4787
0916075	0916069	2.28	575 3-	1/0 ACSR	1973	1854	1526	170	3249	146	64	2.75	4.55	7610
0916066	0916075	2.28	14 1-	6 ACWC	0	0	1521	170	48	6	5	0.00	4.55	0
OC146455	0916066	2.28	14 1-	REC_50_UNK	0	0	1521	170	48	6	13	0.00	4.55	0
0916067	OC146455	2.56	14 1-	6 ACWC	0	0	1330	167	48	6	5	0.07	4.62	3
0915104	0916067	3.03	10 1-	4 ACSR	0	0	1084	162	37	5	4	0.07	4.69	2
0915052	0915104	3.59	6 1-	6 ACWC	0	0	883	157	13	1	1	0.03	4.73	0
0915053	0915052	3.74	2 1-	4 ACSR	0	0	840	156	6	0	1	0.00	4.73	0
0816082	0916075	3.13	544 3-	1/0 ACSR	1547	1455	1159	165	3038	139	61	1.91	6.46	5153
0816046	0816082	3.14	61 1-	4 ACSR	0	0	1157	165	323	45	33	0.01	6.47	3
0816049	0816046	4.68	9 1-	4 ACSR	0	0	698	151	28	3	3	0.14	6.61	2
0815036	0816049	4.68	0 1-	UNK	0	0	697	151	0	0	0	0.00	6.61	0
SW146799-A	0815036	4.68	0 1-	Open	0	0	697	151	0	0	0	0.00	6.61	0
0816047	0816046	3.29	52 1-	4 ACSR	0	0	1087	164	294	41	30	0.29	6.76	76
OC146456	0816047	3.29	49 1-	REC_35_UNK	0	0	1087	164	288	40	116	0.00	6.76	0
0816048	OC146456	5.00	49 1-	4 ACSR	0	0	642	149	288	40	29	1.55	8.30	272
0815063	0816082	3.47	478 3-	1/0 ACSR	1424	1340	1059	164	2658	123	54	0.66	7.12	1600
RG145030	0815063	3.47	473 3-	219	1424	1340	1059	164	2631	123	56	-7.12	0.00	0
0815040	RG145030	4.27	473 3-	1/0 ACSR	1198	1129	877	160	2631	116	51	1.44	1.44	3280
0815041	0815040	5.13	464 3-	1/0 ACSR	1022	964	741	156	2533	113	49	1.50	2.94	3356
0815039	0815041	5.27	333 3-	1/0 ACSR	998	941	722	155	1716	77	34	0.16	3.10	262
OC146464	0815039	5.27	331 3-	REC_100_UNK	998	941	722	155	1699	76	77	0.00	3.10	0
0815043	OC146464	7.23	331 3-	1/0 ACSR	751	710	536	147	1699	76	33	2.09	5.19	3284
0815037	0815043	7.41	110 3-	1/0 ACSR	735	695	524	146	534	24	11	0.07	5.27	33
0815056	0815037	7.41	74 1-	4 ACSR	0	0	523	146	378	52	38	0.01	5.28	5
OC146465	0815056	7.41	74 1-	REC_50_UNK	0	0	523	146	378	52	106	0.00	5.28	0
0914002	OC146465	12.15	74 1-	4 ACSR	0	0	269	115	378	52	38	5.59	10.87	1277
0815032	0815037	7.41	35 1-	4 ACSR	0	0	523	146	148	20	15	0.01	5.27	0
OC146466	0815032	7.41	35 1-	REC_50_UNK	0	0	523	146	148	20	41	0.00	5.27	0
0815033	OC146466	7.57	35 1-	4 ACSR	0	0	508	145	148	20	15	0.14	5.41	19
0815034	0815033	9.06	35 1-	6 ACWC	0	0	397	134	148	20	15	0.99	6.40	109
0815035	0815034	9.25	16 1-	4 ACSR	0	0	386	133	66	9	7	0.08	6.48	5
0915064	0815035	9.45	15 1-	6 ACWC	0	0	375	131	66	9	7	0.06	6.55	3
0915065	0915064	10.62	9 1-	4 ACSR	0	0	321	124	37	5	4	0.14	6.68	3
0815044	0815043	9.34	186 3-	1/0 ACSR	593	561	419	138	966	44	20	1.17	6.37	1284
0814023	0815044	9.38	1 1-	4 ACSR	0	0	417	138	3	0	0	0.00	6.37	0
0814017	0815044	9.37	181 3-	1/0 ACSR	591	560	418	138	923	43	19	0.02	6.39	16
OC146469	0814017	9.37	181 3-	REC_35_UNK	591	560	418	138	923	43	124	0.00	6.39	0
0814018	OC146469	9.61	181 3-	1/0 ACSR	577	547	408	137	923	43	19	0.17	6.56	133
0814016	0814018	10.21	110 3-	1/0 ACSR	546	517	385	135	487	22	10	0.23	6.79	97
0814013	0814016	11.09	53 1-	4 ACSR	0	0	342	129	291	41	29	1.59	8.38	419
0814014	0814013	11.31	49 1-	2 ACSR	0	0	334	128	275	39	22	0.25	8.63	60
0714002	0814014	11.88	46 1-	4 ACSR	0	0	312	125	248	35	25	0.62	9.25	113
0715027	0714002	12.06	19 1-	2 ACSR	0	0	307	124	93	13	7	0.07	9.32	5
0715028	0715027	13.79	16 1-	4 ACSR	0	0	255	114	80	11	8	0.45	9.77	22
0814019	0814016	10.68	56 1-	2 ACSR	0	0	366	133	195	27	15	0.37	7.16	61
0814020	0814019	12.43	46 1-	4 ACSR	0	0	295	122	169	24	17	1.55	8.70	211
0814021	0814020	12.54	24 1-	6 ACWC	0	0	291	121	107	15	11	0.06	8.76	5
0814022	0814021	14.32	16 1-	4 ACSR	0	0	243	112	69	9	7	0.39	9.15	17

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
0815064	0814018	10.43	62 3-	1/0 ACSR	535	507	378	134	362	17 7	0.17	6.73	45	
0815054	0815064	10.55	25 3-	1/0 ACSR	529	502	374	134	174	8 4	0.02	6.75	2	
OC146470	0815054	10.55	25 1-	REC_35_UNK	0	0	374	134	174	24 70	0.00	6.75	0	
0815055	OC146470	12.79	25 1-	2 ACSR	0	0	301	124	174	24 14	0.87	7.61	91	
0815058	0815055	12.80	1 1-	1/0 URD PRI AL	0	0	301	203	5	0 0	0.00	7.61	0	
NEWCAP-3E6EA1E3	0815044	9.34	0 3-	Capacitor	593	561	419	138	0	-13 0	0.00	6.37	0	
0815042	0815041	5.19	113 3-	1/0 ACSR	1011	954	732	156	733	33 15	0.04	2.98	23	
OC146459	0815042	5.19	113 3-	REC_70_UNK	1011	954	732	156	733	33 48	0.00	2.98	0	
0815038	OC146459	6.73	113 3-	1/0 ACSR	803	758	574	149	733	33 15	0.74	3.71	412	
0815053	0815038	7.72	78 3-	1/0 ACSR	708	670	507	145	516	23 10	0.26	3.98	90	
0815049	0815053	7.72	16 1-	6 ACWC	0	0	506	145	108	14 11	0.00	3.98	0	
OC146460	0815049	7.72	16 1-	REC_35_UNK	0	0	506	145	108	14 42	0.00	3.98	0	
0815050	OC146460	9.08	16 1-	6 ACWC	0	0	404	135	108	14 11	0.59	4.57	44	
0815051	0815050	9.76	5 1-	4 ACSR	0	0	365	130	35	4 3	0.07	4.64	2	
0815047	0815053	7.73	12 1-	4 ACSR	0	0	506	145	68	9 7	0.00	3.98	0	
OC146461	0815047	7.73	12 1-	REC_25_UNK	0	0	506	145	68	9 38	0.00	3.98	0	
0815048	OC146461	9.53	12 1-	4 ACSR	0	0	377	132	68	9 7	0.38	4.36	15	
0815052	0815040	4.27	0 1-	4 ACSR	0	0	876	160	0	0 0	0.00	1.44	0	
SW146801-A	0815052	4.27	0 1-	Open	0	0	876	160	0	0 0	0.00	1.44	0	
CKT 104 total losses:		\$34,311												
SUB 34, CKT 114														
LEES_114	LEES_LICK	0.00	470 3-	SBS_99_UNK	5509	5975	5947	179	2593	116 0	0.00	0.00	0	
0916085	LEES_114	1.10	470 3-	3/0 ACSR	3110	2952	2659	176	2593	116 39	1.46	1.46	2810	
0816081	0916085	3.17	449 3-	336.4 ACSR	1931	1784	1440	171	2434	110 21	1.36	2.82	2162	
0816056	0816081	5.18	337 3-	336.4 ACSR	1410	1293	995	167	1750	80 15	0.93	3.75	1080	
0816063	0816056	5.59	21 3-	336.4 ACSR	1337	1226	939	166	122	5 1	0.01	3.76	1	
OC146551	0816063	5.59	20 3-	REC_50_UNK	1337	1226	939	166	115	5 11	0.00	3.76	0	
0816064	OC146551	5.79	20 3-	336.4 ACSR	1303	1195	914	166	115	5 1	0.01	3.77	0	
0816065	0816064	6.48	16 3-	2ACWC	1152	1061	796	162	78	3 1	0.02	3.79	0	
SW145557-B	0816065	6.48	0 3-	Open	1152	1061	796	162	0	0 0	0.00	3.79	0	
0816057	0816056	5.67	274 3-	1/0 ACSR	1276	1174	895	165	1311	60 26	0.49	4.23	535	
OC146557	0816057	5.67	270 3-	REC_70_UNK	1276	1174	895	165	1280	59 85	0.00	4.23	0	
0816058	OC146557	6.73	270 3-	1/0 ACSR	1049	971	729	159	1280	59 26	1.04	5.28	1118	
0816062	0816058	6.81	38 3-	1/0 ACSR	1035	958	719	159	199	9 4	0.01	5.29	2	
0816039	0816062	8.39	35 1-	4 ACSR	0	0	513	145	184	25 18	0.90	6.19	100	
0815031	0816039	8.48	0 1-	UNK	0	0	508	145	0	0 0	0.00	6.19	0	
SW146799-B	0815031	8.48	0 1-	Open	0	0	508	145	0	0 0	0.00	6.19	0	
0816060	0816058	7.20	220 3-	1/0 ACSR	972	901	674	157	1015	47 21	0.37	5.65	325	
0816040	0816060	7.44	47 1-	4 ACSR	0	0	638	155	244	34 24	0.37	6.02	82	
0816042	0816040	7.52	39 1-	6 ACWC	0	0	629	154	197	27 20	0.08	6.10	15	
OC146558	0816042	7.52	38 1-	REC_35_UNK	0	0	629	154	185	25 74	0.00	6.10	0	
0816043	OC146558	7.84	38 1-	6 ACWC	0	0	588	151	185	25 19	0.35	6.46	58	
0816044	0816043	8.29	31 1-	4 ACSR	0	0	537	148	168	23 17	0.44	6.90	64	
0815062	0816044	10.16	25 1-	6 ACWC	0	0	392	134	141	20 14	0.88	7.77	78	
0815030	0815062	10.27	2 1-	4 ACSR	0	0	386	133	9	1 1	0.00	7.78	0	
0816041	0816040	7.87	8 1-	4 ACSR	0	0	583	151	47	6 5	0.06	6.08	2	
0816061	0816060	8.70	171 3-	1/0 ACSR	785	731	541	150	763	35 16	0.83	6.48	520	
0715046	0816061	10.61	102 3-	1/0 ACSR	629	589	437	142	469	22 10	0.51	6.99	169	
0715038	0715046	10.64	49 1-	6 ACWC	0	0	435	142	206	29 21	0.03	7.02	6	
0715042	0715038	11.29	14 1-	6 ACWC	0	0	395	137	71	10 7	0.14	7.16	6	
0715039	0715038	10.64	35 1-	4 ACSR	0	0	435	142	135	19 14	0.00	7.03	0	

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
OC146554	0715039	10.64	35 1-	REC_35_UNK	0	0	435	142	135	19	55	0.00	7.03	0
0715040	OC146554	12.12	35 1-	4 ACSR	0	0	353	131	135	19	14	0.82	7.84	78
0715041	0715040	13.37	18 1-	6 ACWC	0	0	303	124	41	5	4	0.16	8.00	4
0816072	0816061	8.71	42 1-	4 ACSR	0	0	541	150	173	24	17	0.01	6.49	0
OC146553	0816072	8.71	42 1-	REC_25_UNK	0	0	541	150	173	24	98	0.00	6.49	0
0716070	OC146553	12.01	42 1-	4 ACSR	0	0	326	126	173	24	17	1.80	8.29	190
0816050	0816081	3.26	57 2-	4 ACSR	0	1722	1384	170	309	21	15	0.07	2.89	20
OC146548	0816050	3.26	46 2-	REC_35_UNK	0	1722	1384	170	270	18	53	0.00	2.89	0
0816051	OC146548	4.06	46 2-	4 ACSR	0	1264	1003	162	270	18	13	0.49	3.39	104
0816070	0816051	4.29	7 1-	4 ACSR	0	0	927	160	51	7	5	0.05	3.44	2
0816071	0816070	4.85	3 1-	8 ACWC	0	0	737	153	21	2	3	0.05	3.49	0
0816052	0816051	4.70	17 2-	4 ACSR	0	1022	812	156	107	7	5	0.12	3.50	9
0816069	0816052	4.92	4 1-	4 ACSR	0	0	762	154	23	3	2	0.02	3.52	0
SW146798-B	0816069	4.92	0 1-	Open	0	0	762	154	0	0	0	0.00	3.52	0
CKT 114 total losses:		\$9,540												
SUB 34, CKT 124														
LEES_124	LEES_LICK	0.00	139 3-	SBS_99_UNK	5509	5975	5947	179	762	34	0	0.00	0.00	0
0916088	LEES_124	0.15	139 3-	336.4 ACSR	5112	5288	5233	179	762	34	6	0.03	0.03	17
0916054	0916088	0.23	59 1-	4 ACSR	0	0	4757	178	320	42	31	0.14	0.17	37
0916055	0916054	0.23	58 1-	2 ACSR	0	0	4726	178	308	41	23	0.01	0.18	2
OC146583	0916055	0.23	58 1-	REC_35_UNK	0	0	4726	178	308	41	118	0.00	0.18	0
0916057	OC146583	0.24	54 1-	4 ACSR	0	0	4705	178	296	39	28	0.01	0.18	1
0916058	0916057	1.45	47 1-	2 ACSR	0	0	1831	169	257	34	19	0.93	1.12	165
0916059	0916058	1.71	23 1-	4 ACSR	0	0	1555	167	117	15	11	0.17	1.29	17
0916060	0916059	1.83	16 1-	8 ACWC	0	0	1417	165	105	14	14	0.10	1.39	8
0916061	0916060	2.13	13 1-	4 ACSR	0	0	1222	162	72	9	7	0.09	1.48	5
0916062	0916061	2.62	6 1-	8 ACWC	0	0	927	156	33	4	4	0.07	1.55	1
0916056	OC146583	0.33	4 1-	2 ACSR	0	0	4249	178	12	1	1	0.00	0.18	0
0916070	0916088	1.75	74 3-	336.4 ACSR	2901	2688	2304	176	436	19	4	0.13	0.16	31
0916089	0916070	1.76	19 1-	4 ACSR	0	0	2295	176	116	15	11	0.00	0.16	0
0916071	0916070	2.96	5 3-	336.4 ACSR	2178	1996	1612	173	34	1	0	0.01	0.17	0
0916072	0916071	3.01	0 3-	336.4 ACSR	2158	1977	1595	173	0	0	0	0.00	0.17	0
SW146561-B	0916072	3.01	0 3-	Open	2158	1977	1595	173	0	0	0	0.00	0.17	0
SW146376-B	0916071	2.96	0 1-	Open	0	0	1612	173	0	0	0	0.00	0.17	0
CKT 124 total losses:		\$284												
SUB 34, CKT 134														
LEES_134	LEES_LICK	0.00	682 3-	SBS_99_UNK	5509	5975	5947	179	4270	190	0	0.00	0.00	0
0916073	LEES_134	0.39	682 3-	336.4 ACSR	4595	4594	4463	179	4270	190	36	0.46	0.46	1381
0916086	0916073	0.74	33 3-	336.4 ACSR	4006	3862	3621	178	148	6	1	0.01	0.47	0
0916068	0916086	2.08	19 3-	336.4 ACSR	2661	2479	2121	175	65	2	1	0.01	0.49	0
0916074	0916073	2.03	643 3-	336.4 ACSR	2698	2520	2169	176	4083	182	35	1.78	2.24	5128
0915077	0916074	2.40	617 3-	3/0 ACSR	2388	2219	1868	174	3870	175	58	0.71	2.96	2225
OC146963	0915077	2.40	613 3-	REC_99_RPF	2388	2219	1868	174	3811	173	0	0.00	2.96	0
0915078	OC146963	3.48	613 3-	3/0 ACSR	1784	1649	1328	170	3811	173	58	2.01	4.96	6253
REG469	0915078	3.48	597 3-	219	1784	1649	1328	170	3675	169	77	-4.96	0.00	0
0915070	REG469	4.74	531 3-	1/0 ACSR	1316	1223	950	164	3315	146	64	2.94	2.94	8351
0915089	0915070	4.80	26 1-	4 ACSR	0	0	932	163	121	16	12	0.04	2.99	5
OC146662	0915089	4.80	26 1-	REC_99_UNK	0	0	932	163	121	16	0	0.00	2.99	0
0915090	OC146662	6.52	26 1-	4 ACSR	0	0	591	148	121	16	12	0.66	3.65	48
0915091	0915090	6.65	1 1-	2 ACSR	0	0	578	147	5	0	0	0.00	3.65	0

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Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
0915071	0915070	5.46	496 3-	1/0 ACSR	1141	1063	816	160	3081	139 61	1.57	4.52	4294	
0915082	0915071	5.49	57 3-	1/0 ACSR	1136	1059	812	160	429	19 9	0.01	4.52	3	
0915100	0915082	5.49	57 1-	4 ACSR	0	0	811	160	429	59 43	0.01	4.54	6	
OC146663	0915100	5.49	57 1-	REC_99_UNK	0	0	811	160	429	59 0	0.00	4.54	0	
0915101	OC146663	6.91	57 1-	4 ACSR	0	0	573	148	429	59 43	2.71	7.25	850	
1015134	0915101	7.26	23 1-	6 ACWC	0	0	534	145	183	25 19	0.35	7.60	55	
1015123	1015134	8.08	18 1-	4 ACSR	0	0	458	139	143	20 15	0.37	7.97	33	
0915072	0915071	6.19	429 3-	1/0 ACSR	1005	938	714	157	2577	119 52	1.41	5.92	3009	
RG145044	0915072	6.19	400 3-	219	1005	938	714	157	2347	110 50	-5.92	0.00	0	
0915073	RG145044	6.25	400 3-	1/0 ACSR	995	929	706	157	2347	104 46	0.11	0.11	211	
0915074	0915073	6.43	366 3-	1/0 ACSR	966	902	685	156	2187	97 43	0.30	0.41	540	
0915079	0915074	6.51	132 3-	1/0 ACSR	953	891	675	155	693	31 13	0.04	0.45	24	
0915080	0915079	6.95	105 3-	1/0 ACSR	892	835	630	153	574	25 11	0.17	0.63	79	
OC146979	0915080	6.95	97 3-	REC_99_UNK	892	835	630	153	497	22 0	0.00	0.63	0	
0915081	OC146979	8.26	97 3-	1/0 ACSR	747	701	525	148	497	22 10	0.34	0.97	112	
0915087	0915081	10.45	37 1-	4 ACSR	0	0	368	131	195	26 19	1.29	2.26	148	
0915088	0915087	10.54	1 1-	2 ACSR	0	0	365	131	1	0 0	0.00	2.26	0	
0915062	0915079	7.31	25 1-	8 ACWC	0	0	539	146	117	15 16	0.51	0.96	40	
0915063	0915062	7.60	5 1-	4 ACSR	0	0	509	143	29	3 3	0.03	0.99	0	
0915075	0915074	6.47	227 3-	1/0 ACSR	961	898	681	156	1471	65 29	0.04	0.45	45	
OC146669	0915075	6.47	227 3-	REC_70_UNK	961	898	681	156	1471	65 94	0.00	0.45	0	
0915076	OC146669	7.77	227 3-	1/0 ACSR	796	746	560	150	1471	65 29	1.28	1.72	1432	
1015089	0915076	9.65	130 3-	1/0 ACSR	637	599	445	142	853	38 17	0.95	2.68	580	
1015112	1015089	9.65	50 1-	4 ACSR	0	0	445	142	278	38 27	0.01	2.69	2	
OC146670	1015112	9.65	50 1-	REC_99_UNK	0	0	445	142	278	38 0	0.00	2.69	0	
1015113	OC146670	10.76	50 1-	4 ACSR	0	0	377	134	278	38 27	1.80	4.48	430	
1014004	1015113	11.00	2 1-	4 ACSR	0	0	365	132	20	2 2	0.02	4.50	0	
1014003	1015113	12.76	41 1-	4 ACSR	0	0	294	121	231	32 23	1.43	5.92	198	
1015108	1015089	9.69	9 1-	4 ACSR	0	0	442	142	54	7 5	0.01	2.69	0	
1015109	1015108	9.97	8 1-	8 ACWC	0	0	418	139	45	6 6	0.10	2.79	4	
1015111	1015109	10.45	4 1-	4 ACSR	0	0	389	135	30	4 3	0.04	2.84	0	
1015110	1015109	10.53	3 1-	8 ACWC	0	0	375	133	10	1 1	0.03	2.82	0	
1015090	1015089	9.67	12 3-	1/0 ACSR	635	597	444	142	144	6 3	0.00	2.68	0	
1015091	1015090	10.34	12 3-	336.4 ACSR	612	574	425	141	144	6 1	0.02	2.70	2	
1015093	1015091	10.70	1 3-	336.4 ACSR	599	562	416	140	7	0 0	0.00	2.70	0	
1015129	1015093	10.90	1 3-	1/0 URD PRI AL	588	552	410	251	7	0 0	0.00	2.70	0	
SW146800-B	1015129	10.90	0 3-	Open	588	552	410	251	0	0 0	0.00	2.70	0	
1015092	1015091	10.41	8 3-	336.4 ACSR	609	572	423	140	111	5 1	0.00	2.70	0	
1015130	1015092	10.66	8 3-	1/0 URD PRI AL	595	559	416	252	111	5 3	0.01	2.72	0	
SW146800-A	1015130	10.66	0 3-	Open	595	559	416	252	0	0 0	0.00	2.72	0	
1015073	0915076	8.80	41 1-	4 ACSR	0	0	463	141	261	35 25	0.81	2.54	125	
0915095	0915073	6.29	31 1-	8 ACWC	0	0	698	156	142	18 19	0.05	0.16	6	
OC146664	0915095	6.29	31 1-	REC_99_UNK	0	0	698	156	142	18 0	0.00	0.16	0	
0915097	OC146664	6.83	31 1-	8 ACWC	0	0	593	149	142	18 19	0.50	0.66	53	
0915098	0915097	7.44	15 1-	6 ACWC	0	0	523	144	69	9 7	0.16	0.83	8	
0915099	0915098	7.70	4 1-	4 ACSR	0	0	498	142	22	2 2	0.02	0.84	0	
NEWCAP-419842BC	0915071	5.46	0 3-	Capacitor	1141	1063	816	160	0	-14 0	0.00	4.52	0	
0915069	REG469	3.58	66 3-	4 ACSR	1712	1590	1274	169	360	16 11	0.06	0.06	20	
0915086	0915069	3.61	34 1-	8 ACWC	0	0	1254	169	149	19 20	0.04	0.10	5	
OC146659	0915086	3.61	34 1-	REC_99_UNK	0	0	1254	169	149	19 0	0.00	0.10	0	
0915084	OC146659	4.31	34 1-	8 ACWC	0	0	897	159	149	19 20	0.66	0.77	72	
0915085	0915084	6.11	18 1-	4 ACSR	0	0	555	143	68	9 7	0.40	1.17	17	

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES CONS	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
0815046	0915085	6.27	2 1-	4 ACSR	0	0	536	142	6	0	1	0.00	1.17	0
0815045	0915085	6.25	1 1-	4 ACSR	0	0	539	142	0	0	0	0.00	1.17	0
SW146801-B	0815045	6.25	0 1-	Open	0	0	539	142	0	0	0	0.00	1.17	0
0915054	0915069	3.63	32 1-	4 ACSR	0	0	1249	169	211	28	20	0.06	0.12	11
OC146660	0915054	3.63	32 1-	REC_50_UNK	0	0	1249	169	211	28	56	0.00	0.12	0
0915055	OC146660	3.75	32 1-	4 ACSR	0	0	1191	167	211	28	20	0.15	0.27	27
0915056	0915055	4.02	31 1-	8 ACWC	0	0	1044	163	210	28	28	0.50	0.77	93
0915057	0915056	4.73	31 1-	8 ACWC	0	0	767	154	209	28	28	1.10	1.87	184
0915058	0915057	4.87	19 1-	4 ACSR	0	0	737	153	140	19	14	0.11	1.98	13
0915059	0915058	5.56	18 1-	8 ACWC	0	0	582	144	127	17	17	0.60	2.58	59
0915060	0915059	5.57	11 1-	4 ACSR	0	0	582	144	68	9	7	0.00	2.59	0
OC146661	0915060	5.57	11 1-	REC_99_UNK	0	0	582	144	68	9	0	0.00	2.59	0
0915061	OC146661	7.13	11 1-	4 ACSR	0	0	429	133	68	9	7	0.32	2.91	13
CKT 134 total losses:	\$36,194													
SUB 34, CKT 144														
LEES_144	LEES_LICK	0.00	15 3-	SBS_99_UNK	5509	5975	5947	179	107	4	0	0.00	0.00	0
0916087	LEES_144	2.03	15 3-	336.4 ACSR	2699	2521	2170	176	107	4	1	0.03	0.03	2
0915083	0916087	2.08	0 3-	3/0 ACSR	2650	2473	2122	175	0	0	0	0.00	0.03	0
CKT 144 total losses:	\$2													
SUB 34 total losses:	\$80,331													

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Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 35	CYNTHIANA		2703		5117	5504	5604	180	12564					
SUB 35, CKT 104														
CYNT_104	CYNTHIANA	0.00	0 3-	SBS_99_UNK	5117	5504	5604	180	0	0	0	0.00	0.00	0
0817082	CYNT_104	0.00	0 3-	3/0 ACSR	5105	5481	5582	180	0	0	0	0.00	0.00	0
SW145393-A	0817082	0.00	0 3-	Closed	5105	5481	5582	180	0	0	0	0.00	0.00	0
SW145393-B	SW145393-A	0.00	0 3-	Closed	5105	5481	5582	180	0	0	0	0.00	0.00	0
0817083	SW145393-B	0.13	0 3-	4/0 ACSR	4769	4876	4967	179	0	0	0	0.00	0.00	0
SW145005-B	0817083	0.13	0 3-	Open	4769	4876	4967	179	0	0	0	0.00	0.00	0
CKT 104 total losses:		\$0												
SUB 35, CKT 114														
CYNT_114	CYNTHIANA	0.00	1193 3-	SBS_99_UNK	5117	5504	5604	180	5088	231	0	0.00	0.00	0
0817076	CYNT_114	0.01	1193 3-	336.4 ACSR	5096	5462	5562	180	5088	231	44	0.01	0.01	48
SW145394-A	0817076	0.01	1193 3-	Closed	5096	5462	5562	180	5088	231	0	0.00	0.01	0
SW145394-B	SW145394-A	0.01	1193 3-	Closed	5096	5462	5562	180	5088	231	0	0.00	0.01	0
0817077	SW145394-B	0.11	1193 3-	336.4 ACSR	4873	5055	5142	179	5088	231	44	0.16	0.18	520
SW145400-B	0817077	0.11	1193 3-	Closed	4873	5055	5142	179	5083	231	0	0.00	0.18	0
SW145400-A	SW145400-B	0.11	1193 3-	Closed	4873	5055	5142	179	5083	231	0	0.00	0.18	0
0817104	SW145400-A	1.05	1193 3-	336.4 ACSR	3434	3296	2980	178	5083	231	44	1.44	1.62	4570
0817107	0817104	1.12	661 3-	3/0 ACSR	3335	3190	2863	177	2828	127	43	0.10	1.72	225
OC145524	0817107	1.12	661 3-	REC_100_UNK	3335	3190	2863	177	2826	127	128	0.00	1.72	0
0817108	OC145524	1.84	661 3-	3/0 ACSR	2559	2391	2036	175	2826	127	43	0.98	2.69	2175
0817123	0817108	1.98	23 1-	4 ACSR	0	0	1874	173	78	11	8	0.07	2.76	5
OC145525	0817123	1.98	21 1-	REC_99_UNK	0	0	1874	173	76	10	0	0.00	2.76	0
0818070	OC145525	2.62	21 1-	4 ACSR	0	0	1324	166	76	10	8	0.30	3.06	19
0818071	0818070	2.86	14 1-	6 ACWC	0	0	1188	164	64	9	7	0.07	3.13	3
0818072	0818071	3.30	6 1-	4 ACSR	0	0	996	160	24	3	2	0.04	3.17	0
0817090	0817108	2.26	606 3-	3/0 ACSR	2243	2076	1734	173	2573	116	39	0.50	3.19	1046
0817092	0817090	3.42	577 3-	3/0 ACSR	1672	1534	1234	169	2115	95	32	1.04	4.23	1899
0818079	0817092	3.50	76 1-	4 ACSR	0	0	1198	168	225	32	23	0.11	4.35	23
OC145526	0818079	3.50	76 1-	REC_50_UNK	0	0	1198	168	224	32	65	0.00	4.35	0
0818080	OC145526	5.98	76 1-	4 ACSR	0	0	574	146	224	32	23	2.01	6.36	275
0718082	0818080	6.23	3 1-	4 ACSR	0	0	544	144	11	1	1	0.01	6.36	0
SW145758-A	0718082	6.23	0 1-	Open	0	0	544	144	0	0	0	0.00	6.36	0
0718081	0818080	6.77	2 1-	4 ACSR	0	0	488	139	3	0	0	0.01	6.36	0
0818060	0817092	3.96	462 3-	3/0 ACSR	1495	1372	1088	167	1669	76	25	0.35	4.58	577
0718085	0818060	5.08	445 3-	3/0 ACSR	1221	1122	871	163	1573	72	24	0.86	5.44	1074
OC145529	0718085	5.08	411 3-	REC_100_UNK	1221	1122	871	163	1427	66	66	0.00	5.44	0
0718057	OC145529	5.14	411 3-	3/0 ACSR	1209	1110	861	163	1427	66	22	0.04	5.49	54
RG145038	0718057	5.14	410 3-	219	1209	1110	861	163	1425	66	30	-5.49	0.00	0
0718047	RG145038	5.83	410 3-	3/0 ACSR	1087	999	768	160	1425	63	21	0.46	0.46	526
0718043	0718047	5.92	49 1-	4 ACSR	0	0	752	160	162	22	16	0.09	0.55	13
OC145530	0718043	5.92	48 1-	REC_35_UNK	0	0	752	160	162	22	65	0.00	0.55	0
0718044	OC145530	7.84	48 1-	4 ACSR	0	0	496	143	162	22	16	1.04	1.60	98
0718042	0718044	7.95	1 1-	2 ACSR	0	0	488	142	4	0	0	0.00	1.60	0
0718048	0718047	6.87	350 3-	3/0 ACSR	945	869	661	157	1215	53	18	0.55	1.01	552
0718056	0718048	7.16	124 3-	3/0 ACSR	911	838	636	156	437	20	7	0.07	1.08	21
0718060	0718056	7.79	110 3-	1/0 ACSR	834	770	582	153	381	17	8	0.20	1.29	60
0718076	0718060	7.94	84 1-	4 ACSR	0	0	566	152	261	36	26	0.25	1.54	57
OC145534	0718076	7.94	83 1-	REC_25_UNK	0	0	566	152	255	36	144	0.00	1.54	0
0718077	OC145534	10.19	83 1-	4 ACSR	0	0	387	134	255	36	26	3.39	4.93	696
0717028	0718077	10.60	5 1-	4 ACSR	0	0	365	131	15	2	2	0.02	4.95	0

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SW145756-B	0717028	10.60	0 1-	Open	0	0	365	131	0	0	0.00	4.95	0	
0717025	0718077	10.83	13 1-	4 ACSR	0	0	354	130	54	7	6	0.14	5.07	5
0717026	0717025	10.92	3 1-	8 ACWC	0	0	348	129	11	1	2	0.01	5.08	0
0717027	0717026	11.12	3 1-	4 ACSR	0	0	339	128	11	1	1	0.01	5.09	0
0717023	0718077	12.15	49 1-	4 ACSR	0	0	300	122	124	17	13	1.47	6.40	151
OC145535	0717023	12.15	40 1-	REC_15_UNK	0	0	300	122	95	13	93	0.00	6.40	0
0717024	OC145535	15.01	40 1-	4 ACSR	0	0	225	107	95	13	10	0.93	7.33	54
0718061	0718060	9.10	20 3-	1/0 ACSR	707	657	495	147	103	4	2	0.06	1.35	3
SW145250-B	0718061	9.10	0 3-	Open	707	657	495	147	0	0	0	0.00	1.35	0
0718045	0718048	6.97	201 3-	3/0 ACSR	932	858	652	156	690	30	10	0.02	1.03	19
OC145533	0718045	6.97	195 3-	REC_50_UNK	932	858	652	156	673	30	60	0.00	1.03	0
0718046	OC145533	9.85	195 3-	3/0 ACSR	685	631	471	147	673	30	10	0.36	1.40	323
SW145401-B	0718046	9.85	102 3-	Closed	685	631	471	147	361	18	0	0.00	1.40	0
SW145401-A	SW145401-B	9.85	102 3-	Closed	685	631	471	147	361	18	0	0.00	1.40	0
0718058	SW145401-A	9.97	102 3-	3/0 ACSR	677	624	466	146	361	18	6	0.00	1.40	8
0718072	0718058	10.32	22 1-	4 ACSR	0	0	441	144	99	13	10	0.21	1.61	18
0718073	0718072	10.62	19 1-	2 ACSR	0	0	426	142	89	12	7	0.11	1.72	7
0718074	0718073	11.12	14 1-	6 ACWC	0	0	396	138	67	9	7	0.15	1.87	7
0718075	0718074	11.91	8 1-	4 ACSR	0	0	356	133	25	3	3	0.07	1.94	0
0718059	0718058	10.21	79 3-	3/0 ACSR	663	611	455	146	253	15	5	-0.01	1.39	11
0718069	0718059	11.56	24 1-	4 ACSR	0	0	375	135	111	15	11	0.77	2.16	63
0618075	0718069	12.11	10 1-	4 ACSR	0	0	348	132	50	7	5	0.09	2.25	3
SW145760-A	0618075	12.11	0 1-	Open	0	0	348	132	0	0	0	0.00	2.25	0
0618069	0718069	12.16	5 1-	6 ACWC	0	0	347	131	10	1	1	0.02	2.18	0
0618074	0618069	12.70	1 1-	4 ACSR	0	0	324	128	1	0	0	0.00	2.18	0
0718051	0718059	11.40	53 3-	1/0 ACSR	587	544	405	141	141	13	6	-0.10	1.29	70
0718052	0718051	11.78	49 3-	4 ACSR	555	516	384	138	123	13	10	0.01	1.30	55
0718053	0718052	11.91	46 3-	1/0 ACSR	548	511	380	138	119	13	6	-0.01	1.28	8
OC145538	0718053	11.91	46 3-	REC_35_UNK	548	511	380	138	119	13	39	0.00	1.28	0
0718054	OC145538	12.65	46 3-	1/0 ACSR	514	479	357	135	119	13	6	-0.09	1.20	42
0718070	0718054	13.27	16 1-	6 ACWC	0	0	331	131	47	6	5	0.14	1.34	5
0618090	0718070	13.69	9 1-	8 ACWC	0	0	310	127	25	3	3	0.07	1.41	1
0618072	0618090	13.79	5 1-	6 ACWC	0	0	307	126	11	1	1	0.00	1.41	0
0618073	0618072	14.23	1 1-	8 ACWC	0	0	288	122	1	0	0	0.00	1.42	0
0718068	0618073	14.30	1 1-	4 ACSR	0	0	286	122	1	0	0	0.00	1.42	0
0719062	0718054	13.35	15 3-	1/0 ACSR	485	453	336	132	19	14	6	-0.13	1.06	45
CA145011	0719062	13.35	0 3-	Capacitor	485	453	336	132	0	-14	0	0.00	1.06	0
CA145008	0818060	3.96	0 3-	Capacitor	1495	1372	1088	167	0	-14	0	0.00	4.58	0
0817091	0817090	2.38	2 3-	1/0 ACSR	2159	1992	1658	173	222	10	5	0.02	3.22	4
0817132	0817091	2.46	1 3-	1/0 URD PRI AL	2116	1953	1628	420	212	10	6	0.02	3.23	3
0817996	0817132	2.46	1 3-	Consumer	2116	1953	1628	420	212	10	0	0.00	3.23	0
0817105	0817104	1.17	450 3-	336.4 ACSR	3305	3157	2823	177	1854	87	17	0.08	1.70	87
0817131	0817105	1.44	410 3-	500 MCM URD PRI	3192	3055	2744	455	1622	76	20	0.12	1.82	167
0818085	0817131	1.67	410 3-	336.4 ACSR	2984	2834	2500	176	1621	76	14	0.13	1.95	124
OC145541	0818085	1.67	366 3-	REC_70_UNK	2984	2834	2500	176	1484	70	100	0.00	1.95	0
0818062	OC145541	3.23	366 3-	336.4 ACSR	2075	1913	1564	173	1484	70	13	0.78	2.73	651
0818065	0818062	3.33	162 3-	4 ACSR	1987	1824	1491	172	514	24	17	0.10	2.83	48
OC145550	0818065	3.33	162 3-	REC_99_UNK	1987	1824	1491	172	513	24	0	0.00	2.83	0
0818066	OC145550	4.93	162 3-	4 ACSR	1065	1031	812	156	513	24	17	1.47	4.30	676
0818048	0818066	5.90	50 1-	4 ACSR	0	0	625	148	180	25	19	0.92	5.22	125
0818049	0818048	6.03	28 1-	6 ACWC	0	0	607	147	98	14	10	0.07	5.29	6
0818050	0818049	6.07	19 1-	4 ACSR	0	0	602	147	78	11	8	0.02	5.31	1

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
0818042	0818050	6.52	18 1-	2 ACSR	0	0	557	144	78	11	6	0.09	5.39	4
0818067	0818066	5.37	83 3-	4 ACSR	931	908	715	152	269	12	9	0.22	4.52	55
OC146967	0818067	5.37	79 3-	REC_99_UNK	931	908	715	152	254	12	0	0.00	4.52	0
0818068	OC146967	5.55	79 3-	4 ACSR	885	865	682	151	254	12	9	0.07	4.59	15
0818044	0818068	7.13	37 1-	4 ACSR	0	0	481	138	156	22	16	0.95	5.54	94
0818045	0818044	7.48	4 1-	8 ACWC	0	0	443	135	21	3	3	0.05	5.60	0
0818046	0818045	7.58	2 1-	4 ACSR	0	0	435	134	11	1	1	0.01	5.60	0
0818047	0818046	7.64	1 1-	2 ACSR	0	0	432	134	4	0	0	0.00	5.60	0
0818055	0818062	3.30	155 3-	336.4 ACSR	2046	1885	1537	173	723	34	6	0.02	2.75	8
0818056	0818055	4.68	155 3-	336.4 ACSR	1615	1472	1173	170	723	34	6	0.33	3.08	131
0818063	0818056	4.75	58 3-	1/0 ACSR	1591	1451	1153	170	330	15	7	0.02	3.10	5
OC145546	0818063	4.75	57 3-	REC_50_UNK	1591	1451	1153	170	315	14	30	0.00	3.10	0
0918039	OC145546	6.84	57 3-	1/0 ACSR	1047	968	735	159	315	14	7	0.29	3.39	49
0918034	0918039	6.84	0 1-	4 ACSR	0	0	734	159	0	0	0	0.00	3.39	0
SW146208-A	0918034	6.84	0 1-	Open	0	0	734	159	0	0	0	0.00	3.39	0
SW145770-B	0918039	6.84	0 1-	Open	0	0	735	159	0	0	0	0.00	3.39	0
0818053	0818056	4.83	56 3-	336.4 ACSR	1579	1441	1144	170	234	11	2	0.01	3.09	2
0818054	0818053	4.95	22 3-	336.4 ACSR	1552	1415	1122	170	106	5	1	0.00	3.10	0
0818057	0818054	5.15	19 3-	336.4 ACSR	1506	1374	1085	169	98	4	1	0.01	3.10	0
0818058	0818057	5.44	4 3-	336.4 ACSR	1447	1320	1038	169	24	1	0	0.00	3.10	0
0818059	0818058	5.46	0 3-	336.4 ACSR	1442	1316	1034	168	0	0	0	0.00	3.10	0
SW145397-A	0818059	5.46	0 3-	Open	1442	1316	1034	168	0	0	0	0.00	3.10	0
0818043	0818057	5.72	10 1-	4 ACSR	0	0	908	163	42	6	4	0.08	3.18	2
0818077	0818053	4.88	34 1-	2 ACSR	0	0	1127	169	128	18	10	0.03	3.12	3
0818074	0818077	5.05	33 1-	4 ACSR	0	0	1063	168	121	17	12	0.13	3.26	14
OC145547	0818074	5.05	30 1-	REC_99_UNK	0	0	1063	168	110	15	0	0.00	3.26	0
0818075	OC145547	6.42	30 1-	4 ACSR	0	0	709	154	110	15	11	0.59	3.85	42
0818076	0818075	6.64	6 1-	4 ACSR	0	0	671	153	19	2	2	0.01	3.86	0
0817134	0817105	1.18	21 1-	1/0 URD PRI AL	0	0	2815	457	110	15	9	0.00	1.70	0
CKT 114 total losses:		\$17,750												
SUB 35, CKT 124														
CYNT_124	CYNTHIANA	0.00	572 3-	SBS_99_UNK	5117	5504	5604	180	3354	149	0	0.00	0.00	0
0817086	CYNT_124	0.01	572 3-	336.4 ACSR	5099	5471	5571	180	3354	149	28	0.01	0.01	17
0817113	0817086	0.01	0 3-	4/0 ACSR	5083	5439	5540	180	0	0	0	0.00	0.01	0
SW145556-A	0817113	0.01	0 3-	Closed	5083	5439	5540	180	0	0	0	0.00	0.01	0
SW145556-B	SW145556-A	0.01	0 3-	Closed	5083	5439	5540	180	0	0	0	0.00	0.01	0
0817087	0817086	0.28	572 3-	336.4 ACSR	4534	4566	4594	179	3354	149	28	0.26	0.26	594
0817119	0817087	0.30	0 3-	4/0 ACSR	4492	4516	4525	179	0	0	0	0.00	0.26	0
SW145000-B	0817119	0.30	0 3-	Open	4492	4516	4525	179	0	0	0	0.00	0.26	0
0817097	0817087	0.89	570 3-	336.4 ACSR	3619	3504	3282	178	3349	149	28	0.57	0.83	1330
0817101	0817097	0.92	563 3-	336.4 ACSR	3583	3465	3236	178	3063	137	26	0.02	0.86	55
0817100	0817101	2.76	488 3-	336.4 ACSR	2218	2051	1696	174	2605	116	22	1.14	2.00	2257
0817103	0817100	2.82	296 3-	336.4 ACSR	2189	2022	1669	174	1513	68	13	0.03	2.02	29
OC145637	0817103	2.82	296 3-	REC_70_UNK	2189	2022	1669	174	1513	68	98	0.00	2.02	0
0817109	OC145637	3.74	296 3-	336.4 ACSR	1839	1683	1350	172	1513	68	13	0.29	2.32	306
0817110	0817109	4.10	186 3-	336.4 ACSR	1731	1580	1256	171	1044	49	9	0.13	2.45	77
0817111	0817110	4.16	130 3-	1/0 ACSR	1708	1557	1237	171	591	28	12	0.03	2.47	13
OC145643	0817111	4.16	130 3-	REC_70_UNK	1708	1557	1237	171	591	28	40	0.00	2.47	0
0817112	OC145643	4.41	130 3-	1/0 ACSR	1603	1463	1153	170	591	28	12	0.10	2.57	38
0817117	0817112	4.49	63 3-	336.4 ACSR	1585	1446	1137	169	287	13	3	0.01	2.58	1
0817118	0817117	5.12	63 3-	1/0 ACSR	1373	1259	973	166	287	13	6	0.10	2.68	18

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
0817124	0817118	5.18	22 1-	2 ACSR	0	0	960	166	88	12	7	0.02	2.71	2
0817125	0817124	5.36	21 1-	4 ACSR	0	0	910	164	86	12	9	0.07	2.78	5
0717021	0817125	5.68	10 1-	2 ACSR	0	0	843	162	39	5	3	0.04	2.83	0
0717022	0717021	6.03	4 1-	4 ACSR	0	0	766	158	18	2	2	0.02	2.85	0
0817115	0817110	4.13	29 3-	336.4 ACSR	1724	1574	1250	171	322	15	3	0.00	2.45	0
0817116	0817115	4.32	28 3-	4 ACSR	1610	1479	1165	169	320	15	11	0.10	2.55	26
OH464	0817116	5.81	0 1-	4 ACSR	0	0	727	155	211	30	21	1.05	3.60	130
CA145016	0817109	3.74	0 3-	Capacitor	1839	1683	1350	172	0	-14	0	0.00	2.32	0
0817078	0817100	2.90	182 3-	336.4 ACSR	2155	1989	1636	174	889	39	8	0.02	2.02	22
0817079	0817078	3.12	182 3-	336.4 ACSR	2063	1900	1555	173	889	39	8	0.03	2.05	26
0817080	0817079	3.12	160 3-	4 ACSR	2059	1895	1551	173	676	30	22	0.01	2.06	4
OC145640	0817080	3.12	160 3-	REC_70_UNK	2059	1895	1551	173	676	30	44	0.00	2.06	0
0817081	OC145640	3.18	160 3-	336.4 ACSR	2037	1874	1532	173	676	30	6	0.00	2.06	4
0817084	0817081	4.01	113 3-	336.4 ACSR	1757	1605	1292	171	519	24	5	0.00	2.06	30
0817085	0817084	4.98	61 3-	336.4 ACSR	1513	1381	1092	169	294	16	3	-0.05	2.01	23
0816053	0817085	5.34	45 3-	336.4 ACSR	1437	1312	1031	169	239	11	2	0.03	2.04	4
0816074	0816053	5.91	29 2-	4 ACSR	0	0	871	163	145	10	7	0.17	2.21	17
0817136	0816074	7.67	14 1-	4 ACSR	0	0	563	147	52	7	5	0.30	2.52	9
0816054	0816053	5.42	12 3-	336.4 ACSR	1422	1298	1019	169	62	2	1	0.00	2.04	0
0816055	0816054	6.02	11 3-	336.4 ACSR	1317	1202	936	167	54	2	0	0.01	2.05	0
SW145557-A	0816055	6.02	0 3-	Open	1317	1202	936	167	0	0	0	0.00	2.05	0
CA145032	0817085	4.98	0 3-	Capacitor	1513	1381	1092	169	0	-14	0	0.00	2.01	0
0817102	0817101	1.25	75 3-	1/0 ACSR	3074	2916	2617	176	458	21	9	0.13	0.99	47
OC145646	0817102	1.25	74 3-	REC_35_UNK	3074	2916	2617	176	456	21	61	0.00	0.99	0
0817099	OC145646	1.79	74 3-	1/0 ACSR	2463	2290	1974	173	456	21	9	0.17	1.16	54
0817068	0817099	2.50	46 1-	4 ACSR	0	0	1329	166	282	39	28	0.66	1.82	108
0817098	0817097	0.93	5 3-	2 ACSR	3539	3416	3181	178	273	12	7	0.01	0.84	3
0817133	0817098	0.94	1 3-	1/0 URD PRI AL	3534	3411	3176	461	215	10	6	0.00	0.85	0
0817995	0817133	0.94	1 3-	Consumer	3534	3411	3176	461	215	10	0	0.00	0.85	0
CKT 124 total losses:		\$5,249												
SUB 35, CKT 134														
CYNT_134	CYNTHIANA	0.00	3 3-	SBS_99_UNK	5117	5504	5604	180	705	32	0	0.00	0.00	0
0817088	CYNT_134	0.01	3 3-	1/0 ACSR	5072	5416	5521	180	705	32	14	0.01	0.01	5
SW145649-B	0817088	0.01	3 3-	Closed	5072	5416	5521	180	705	32	0	0.00	0.01	0
SW145649-A	SW145649-B	0.01	3 3-	Closed	5072	5416	5521	180	705	32	0	0.00	0.01	0
0817089	SW145649-A	0.09	3 3-	1/0 ACSR	4841	5035	5136	179	705	32	14	0.04	0.05	25
SW145652-B	0817089	0.09	3 3-	Closed	4841	5035	5136	179	705	32	0	0.00	0.05	0
SW145652-A	SW145652-B	0.09	3 3-	Closed	4841	5035	5136	179	705	32	0	0.00	0.05	0
0817093	SW145652-A	0.28	3 3-	1/0 ACSR	4296	4319	4304	178	705	32	14	0.12	0.17	65
0817094	0817093	0.93	1 3-	1/0 ACSR	3049	2927	2734	175	478	22	10	0.26	0.44	99
0817997	0817094	0.93	1 3-	Consumer	3049	2927	2734	175	478	22	0	0.00	0.44	0
0817129	0817094	0.93	0 3-	1/0 URD PRI AL	3042	2920	2727	444	0	0	0	0.00	0.44	0
0817128	0817093	0.36	1 3-	1/0 URD PRI AL	4163	4217	4149	463	225	10	6	0.02	0.19	3
0817998	0817128	0.36	1 3-	Consumer	4163	4217	4149	463	225	10	0	0.00	0.19	0
CKT 134 total losses:		\$197												
SUB 35, CKT 154														
CYNT_154	CYNTHIANA	0.00	568 3-	SBS_99_UNK	5117	5504	5604	180	1788	80	0	0.00	0.00	0
0817095	CYNT_154	0.85	568 3-	3/0 ACSR	3344	3225	2931	177	1788	80	27	0.79	0.79	1057
0817130	0817095	0.98	558 3-	1/0 URD PRI AL	3186	3083	2786	448	1762	79	47	0.21	1.00	335
0817096	0817130	2.10	558 3-	3/0 ACSR	2169	2014	1706	172	1759	79	26	1.02	2.02	1371

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LIG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
OC145724	0817096	2.10	548 3-	REC_100_UNK	2169	2014	1706	172	1726	78 78	0.00	2.02	2.02	0
0917034	OC145724	2.33	548 3-	3/0 ACSR	2031	1877	1577	171	1726	78 26	0.21	2.23	2.23	282
0918040	0917034	4.70	528 3-	3/0 ACSR	1237	1139	896	163	1661	75 25	1.91	4.14	2446	
0918022	0918040	5.63	467 3-	3/0 ACSR	1070	986	764	159	1454	66 22	0.68	4.82	808	
0918030	0918022	8.02	17 1-	4 ACSR	0	0	459	139	53	7 5	0.43	5.25	14	
SW145770-A	0918030	8.02	0 1-	Open	0	0	459	139	0	0 0	0.00	5.25	0	
0918023	0918022	5.93	438 3-	3/0 ACSR	1026	945	730	158	1373	63 21	0.20	5.02	234	
RG145012	0918023	5.93	436 3-	219	1026	945	730	158	1359	62 29	-5.02	0.00	0	
0918024	RG145012	6.51	436 3-	3/0 ACSR	950	876	672	156	1359	60 20	0.36	0.36	388	
0918026	0918024	6.58	361 3-	3/0 ACSR	941	868	666	156	1067	47 16	0.03	0.39	29	
0918027	0918026	6.69	357 3-	1/0 ACSR	926	854	654	156	1048	46 20	0.07	0.46	69	
OC145729	0918027	6.69	346 3-	REC_99_UNK	926	854	654	156	1000	44 0	0.00	0.46	0	
0918028	OC145729	7.24	346 3-	1/0 ACSR	855	790	602	153	1000	44 19	0.35	0.81	313	
1018028	0918028	9.83	321 3-	1/0 ACSR	626	584	436	142	916	42 19	1.90	2.71	1298	
1018018	1018028	9.90	266 3-	1/0 ACSR	622	580	433	142	765	36 16	0.04	2.75	27	
1018023	1018018	10.48	19 1-	4 ACSR	0	0	397	137	44	6 4	0.12	2.87	4	
1018024	1018023	11.10	4 1-	6 ACWC	0	0	365	133	16	2 2	0.03	2.90	0	
1018019	1018018	10.64	245 3-	1/0 ACSR	578	539	402	139	709	33 15	0.44	3.19	243	
1018022	1018019	10.64	19 1-	4 ACSR	0	0	401	139	54	7 6	0.00	3.19	0	
OC145730	1018022	10.64	19 1-	REC_99_UNK	0	0	401	139	54	7 0	0.00	3.19	0	
1018025	OC145730	11.90	19 1-	4 ACSR	0	0	339	130	54	7 6	0.29	3.49	11	
1017046	1018025	12.17	7 1-	6 ACWC	0	0	328	128	15	2 2	0.02	3.51	0	
1017038	1017046	12.96	5 1-	4 ACSR	0	0	299	123	12	1 1	0.03	3.54	0	
1018020	1018019	10.84	214 3-	1/0 ACSR	567	529	394	138	593	28 12	0.10	3.29	49	
OC145733	1018020	10.84	213 3-	REC_99_UNK	567	529	394	138	585	27 0	0.00	3.29	0	
1018021	OC145733	11.02	213 3-	1/0 ACSR	558	521	387	137	585	27 12	0.05	3.34	15	
1018014	1018021	11.24	2 1-	4 ACSR	0	0	376	136	0	0 0	0.00	3.34	0	
CA145019	0918028	7.24	0 3-	Capacitor	855	790	602	153	0	-14 0	0.00	0.81	0	
0918025	0918024	7.45	57 3-	4 ACSR	765	721	550	148	204	9 7	0.18	0.53	22	
SW145666-A	0918025	7.45	0 3-	Open	765	721	550	148	0	0 0	0.00	0.53	0	
0918018	0918040	4.70	22 1-	2 ACSR	0	0	894	163	48	6 4	0.00	4.14	0	
OC145726	0918018	4.70	22 1-	REC_99_UNK	0	0	894	163	48	6 0	0.00	4.14	0	
0918019	OC145726	5.23	22 1-	2 ACSR	0	0	792	159	48	6 4	0.09	4.24	3	
0918020	0918019	5.58	15 1-	4 ACSR	0	0	721	156	27	3 3	0.05	4.29	0	
0917058	0918020	6.91	10 1-	2 ACSR	0	0	566	148	16	2 1	0.05	4.34	0	
0917031	0917034	2.34	19 1-	4 ACSR	0	0	1573	171	55	7 6	0.00	2.23	0	
OC145725	0917031	2.34	19 1-	REC_35_UNK	0	0	1573	171	55	7 22	0.00	2.23	0	
0917028	OC145725	3.00	19 1-	4 ACSR	0	0	1153	164	55	7 6	0.12	2.35	4	
0917029	0917028	3.55	0 1-	6 ACWC	0	0	935	159	0	0 0	0.00	2.35	0	

CKT 154 total losses: \$9,022

SUB 35, CKT 164

CYNT_164	CYNTHIANA	0.00	367 3-	SBS_99_UNK	5117	5504	5604	180	1629	76 0	0.00	0.00	0.00	0
0817114	CYNT_164	1.85	367 3-	3/0 ACSR	2328	2165	1841	173	1629	76 25	1.87	1.87	2102	
OC145748	0817114	1.85	364 3-	REC_70_UNK	2328	2165	1841	173	1595	75 108	0.00	1.87	0	
0817120	OC145748	3.62	364 3-	3/0 ACSR	1504	1384	1106	167	1595	75 25	1.59	3.46	1665	
0817121	0817120	5.15	212 3-	3/0 ACSR	1151	1060	824	161	970	46 16	0.92	4.38	635	
0917045	0817121	5.95	3 1-	6 ACWC	0	0	670	154	7	1 1	0.02	4.40	0	
0917046	0917045	6.00	1 1-	4 ACSR	0	0	662	153	0	0 0	0.00	4.40	0	
0917036	0817121	5.66	201 3-	3/0 ACSR	1066	982	758	160	937	45 15	0.30	4.68	202	
0916105	0917036	6.05	46 1-	4 ACSR	0	0	688	156	171	24 18	0.45	5.14	69	
OC145750	0916105	6.05	45 1-	REC_50_UNK	0	0	688	156	170	24 50	0.00	5.14	0	

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 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
0916051	OC145750	8.59	45 1-	4 ACSR	0	0	418	136	170	24	18	1.47	6.61	149
0917037	0917036	6.30	151 3-	3/0 ACSR	976	900	689	157	737	35	12	0.29	4.97	150
0917050	0917037	6.31	0 1-	4 ACSR	0	0	688	157	0	0	0	0.00	4.97	0
SW146377-A	0917050	6.31	0 1-	Open	0	0	688	157	0	0	0	0.00	4.97	0
0917032	0917037	6.42	140 3-	3/0 ACSR	962	886	678	157	681	33	11	0.05	5.02	25
OC145755	0917032	6.42	137 3-	REC_50_UNK	962	886	678	157	669	32	65	0.00	5.02	0
0917033	OC145755	8.01	137 3-	3/0 ACSR	798	736	556	152	669	32	11	0.62	5.64	282
0917038	0917033	8.36	37 1-	4 ACSR	0	0	521	149	104	15	11	0.25	5.89	23
0917043	0917038	8.61	9 1-	4 ACSR	0	0	498	146	11	1	1	0.02	5.90	0
OC145751	0917043	8.61	9 1-	REC_35_UNK	0	0	498	146	11	1	4	0.00	5.90	0
0917044	OC145751	10.84	9 1-	4 ACSR	0	0	353	130	11	1	1	0.08	5.99	0
0917039	0917038	8.56	26 1-	4 ACSR	0	0	502	147	90	13	9	0.11	5.99	8
OC145752	0917039	8.56	20 1-	REC_99_UNK	0	0	502	147	60	8	0	0.00	5.99	0
0917040	OC145752	8.79	20 1-	4 ACSR	0	0	483	145	60	8	6	0.09	6.08	5
0917041	0917040	10.87	19 1-	6 ACWC	0	0	353	130	59	8	6	0.42	6.50	15
0917042	0917041	11.07	1 1-	2 ACSR	0	0	346	129	0	0	0	0.00	6.50	0
0917047	0917033	8.58	75 1-	4 ACSR	0	0	501	147	448	65	47	1.70	7.33	669
0917049	0917047	9.10	5 1-	4 ACSR	0	0	458	143	27	3	3	0.05	7.38	0
0917048	0917047	8.78	63 1-	2 ACSR	0	0	487	146	386	57	32	0.35	7.69	109
0917054	0917048	9.23	23 1-	1/0 URD PRI AL	0	0	464	267	145	21	13	0.15	7.84	14
SW145771-B	0917054	9.23	0 1-	Open	0	0	464	267	0	0	0	0.00	7.84	0
0917053	0917048	9.14	27 1-	1/0 URD PRI AL	0	0	468	269	164	24	14	0.14	7.83	14
SW145771-A	0917053	9.14	0 1-	Open	0	0	468	269	0	0	0	0.00	7.83	0
0817122	0817120	3.68	81 1-	4 ACSR	0	0	1083	166	286	41	29	0.11	3.57	28
OC145749	0817122	3.68	81 1-	REC_50_UNK	0	0	1083	166	286	41	82	0.00	3.57	0
0816083	OC145749	5.19	81 1-	4 ACSR	0	0	684	152	286	41	29	2.07	5.65	426
0816068	0816083	5.36	3 1-	4 ACSR	0	0	655	151	11	1	1	0.01	5.65	0
SW146798-A	0816068	5.36	0 1-	Open	0	0	655	151	0	0	0	0.00	5.65	0
0816067	0816083	7.07	35 1-	4 ACSR	0	0	457	137	111	16	12	0.72	6.37	48

CKT 164 total losses: \$6,638

SUB 35 total losses: \$38,856

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 36 HEADQUARTERS			1794		2421	2693	2672	178	6738					
SUB 36, CKT 104														
HQ_104	HEADQUARTERS	0.00	99 3-	SBS_99_UNK	2421	2693	2672	178	380	16	0	0.00	0.00	0
0920072	HQ_104	3.00	99 3-	336.4 ACSR	1442	1358	1204	172	380	16	3	0.15	0.15	28
CKT 104 total losses:		\$28												
SUB 36, CKT 114														
HQ_114	HEADQUARTERS	0.00	229 3-	SBS_99_UNK	2421	2693	2672	178	1060	47	0	0.00	0.00	0
0919026	HQ_114	2.23	229 3-	336.4 ACSR	1609	1536	1403	173	1060	47	9	0.58	0.58	421
0919018	0919026	3.82	24 1-	6 ACWC	0	0	809	157	154	20	15	0.71	1.29	64
0919011	0919026	5.37	174 3-	4 ACSR	671	662	547	144	732	32	23	3.42	4.00	2035
OC146048	0919011	5.37	115 3-	REC_50_UNK	671	662	547	144	506	23	46	0.00	4.00	0
0919012	OC146048	5.50	115 3-	4 ACSR	654	646	533	143	506	23	17	0.11	4.11	52
0919014	0919012	5.67	105 3-	4 ACSR	631	624	515	142	469	21	15	0.14	4.25	63
RG145049	0919014	5.67	105 3-	219	631	624	515	142	468	21	10	-4.25	0.00	0
0918041	RG145049	8.40	105 3-	4 ACSR	407	407	332	124	468	20	15	1.92	1.92	738
0919025	0918041	11.67	63 2-	4 ACSR	0	284	232	107	270	18	13	1.86	3.79	374
1019030	0919025	11.79	1 1-	4 ACSR	0	0	230	106	7	0	1	0.00	3.79	0
1019037	0919025	11.91	30 2-	4 ACSR	0	278	227	106	124	8	6	0.08	3.86	8
OC146855	1019037	11.91	26 2-	REC_35_UNK	0	278	227	106	106	7	21	0.00	3.86	0
1019036	OC146855	11.92	26 2-	4 ACSR	0	277	227	106	106	7	5	0.00	3.87	0
1019040	1019036	11.93	3 1-	2 ACSR	0	0	227	106	7	0	1	0.00	3.87	0
1019035	1019036	13.07	23 2-	4 ACSR	0	251	206	101	99	6	5	0.22	4.09	16
1019034	1019035	14.34	8 2-	4 ACSR	0	227	187	96	34	2	2	0.06	4.15	1
OH470	0918041	10.04	0 3-	4 ACSR	334	335	273	115	72	3	2	0.10	2.03	4
SW145666-B	OH470	10.04	0 3-	Open	334	335	273	115	0	0	0	0.00	2.03	0
0919016	0919012	6.17	7 1-	4 ACSR	0	0	468	138	29	3	3	0.10	4.21	2
0919017	0919016	6.51	4 1-	6 ACWC	0	0	442	136	20	2	2	0.03	4.24	0
0919015	0919017	6.72	1 1-	2 ACSR	0	0	430	135	9	1	1	0.00	4.24	0
CKT 114 total losses:		\$3,778												
SUB 36, CKT 124														
HQ_124	HEADQUARTERS	0.00	195 3-	SBS_99_UNK	2421	2693	2672	178	783	34	0	0.00	0.00	0
0819058	HQ_124	1.40	195 3-	336.4 ACSR	1842	1824	1740	175	783	34	7	0.28	0.28	156
0819059	0819058	1.86	185 3-	1/0 ACSR	1641	1593	1486	173	731	32	14	0.24	0.52	148
0819060	0819059	4.49	118 3-	1/0 ACSR	979	930	790	160	438	19	8	0.64	1.16	197
0818069	0819060	5.45	5 3-	4 ACSR	850	807	673	156	16	0	0	0.01	1.16	0
SW145397-B	0818069	5.45	0 3-	Open	850	807	673	156	0	0	0	0.00	1.16	0
0818081	0819060	4.74	61 1-	4 ACSR	0	0	740	158	207	27	20	0.29	1.45	53
OC146079	0818081	4.74	59 1-	REC_50_UNK	0	0	740	158	198	26	53	0.00	1.45	0
0918042	OC146079	6.30	59 1-	4 ACSR	0	0	522	144	198	26	19	1.49	2.94	228
0918033	0918042	7.27	16 1-	4 ACSR	0	0	438	137	40	5	4	0.12	3.05	3
SW146208-B	0918033	7.27	0 1-	Open	0	0	438	137	0	0	0	0.00	3.05	0
0918031	0918042	7.82	22 1-	8 ACWC	0	0	371	129	82	11	11	0.58	3.52	30
0918032	0918031	7.87	1 1-	4 ACSR	0	0	368	128	3	0	0	0.00	3.52	0
0819044	0819059	2.05	62 1-	4 ACSR	0	0	1367	171	269	35	26	0.31	0.83	72
OC146078	0819044	2.05	62 1-	REC_35_UNK	0	0	1367	171	268	35	103	0.00	0.83	0
0819045	OC146078	2.79	62 1-	4 ACSR	0	0	1020	163	268	35	26	1.05	1.88	232
0819049	0819045	5.35	44 1-	4 ACSR	0	0	515	141	175	23	17	1.54	3.42	173
0818051	0819049	5.56	7 1-	2 ACSR	0	0	499	140	28	3	2	0.02	3.44	0
0818052	0818051	5.92	3 1-	8 ACWC	0	0	455	136	11	1	2	0.02	3.45	0
0819046	0819045	2.89	8 1-	4 ACSR	0	0	987	162	37	4	4	0.02	1.90	0

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
0819047	0819046	3.14	7 1-	8 ACWC	0	0	882	159	37	4	5	0.04	1.94	0
0819048	0819047	3.19	0 1-	2 ACSR	0	0	872	158	0	0	0	0.00	1.94	0
0819085	0819048	3.19	0 1-	1/0 URD PRI AL	0	0	872	342	0	0	0	0.00	1.94	0
OC-1467920108	0819085	3.19	0 1-	_DefaultBayEqui	0	0	872	342	0	0	0	0.00	1.94	0
0819086	OC-1467920108	3.26	0 1-	1/0 URD PRI AL	0	0	859	340	0	0	0	0.00	1.94	0
CKT 124 total losses:		\$1,292												
SUB 36, CKT 134														
HQ_134	HEADQUARTERS	0.00	494 3-	SBS_99_UNK	2421	2693	2672	178	1902	85	0	0.00	0.00	0
0819064	HQ_134	2.37	494 3-	336.4 ACSR	1577	1501	1363	173	1902	85	16	1.28	1.28	1606
0819065	0819064	2.42	478 3-	1/0 ACSR	1558	1481	1342	173	1785	80	35	0.08	1.35	111
0819066	0819065	3.80	478 3-	336.4 ACSR	1296	1210	1046	170	1784	80	15	0.71	2.06	862
OC146113	0819066	3.00	462 3-	REC_70_UNK	1296	1210	1046	170	1745	79	113	0.00	2.06	0
0819067	OC146113	4.36	462 3-	336.4 ACSR	1212	1128	959	168	1745	79	15	0.28	2.34	337
0819068	0819067	5.91	444 3-	4 ACSR	827	794	644	153	1695	77	55	4.32	6.66	6341
0819084	0819068	6.53	96 1-	4 ACSR	0	0	562	148	317	46	33	1.34	8.00	381
SW145759-B	0819084	6.53	92 1-	Closed	0	0	562	148	302	44	0	0.00	8.00	0
SW145759-A	SW145759-B	6.50	0 1-	Closed	0	0	562	148	0	0	0	0.00	8.00	0
0818078	SW145759-B	8.17	92 1-	4 ACSR	0	0	418	135	302	44	32	1.72	9.72	318
0819069	0819068	6.82	281 3-	4 ACSR	679	659	531	146	1073	50	36	1.76	8.42	1786
RG145050	0819069	6.82	277 3-	219	679	659	531	146	1043	49	23	-8.42	0.00	0
0819070	RG145050	6.82	277 3-	4 ACSR	679	659	530	146	1043	46	33	0.01	0.01	10
SW146974-B	0819070	6.82	277 3-	Closed	679	659	530	146	1043	46	0	0.00	0.01	0
SW146974-A	SW146974-B	6.82	277 3-	Closed	679	659	530	146	1043	46	0	0.00	0.01	0
0819071	SW146974-A	6.85	277 3-	4 ACSR	675	656	528	145	1043	46	33	0.04	0.05	40
RG145042	0819071	6.85	277 3-	219	675	656	528	145	1043	46	21	-0.05	0.00	0
0819072	RG145042	6.85	277 3-	4 ACSR	675	655	527	145	1043	46	33	0.01	0.01	9
SW146976-B	0819072	6.85	277 3-	Closed	675	655	527	145	1043	46	0	0.00	0.01	0
SW146976-A	SW146976-B	6.85	277 3-	Closed	675	655	527	145	1043	46	0	0.00	0.01	0
0819073	SW146976-A	6.87	277 3-	4 ACSR	672	653	526	145	1043	46	33	0.03	0.04	26
0819056	0819073	7.31	234 3-	4 ACSR	617	602	484	142	876	38	28	0.66	0.69	508
0819081	0819056	7.35	19 1-	8 ACWC	0	0	478	141	77	10	10	0.03	0.72	2
0719065	0819081	8.20	18 1-	4 ACSR	0	0	415	135	77	10	7	0.19	0.91	9
0718086	0819056	8.68	208 3-	4 ACSR	489	482	386	132	756	33	24	1.78	2.48	1211
0718063	0718086	9.42	133 3-	4 ACSR	439	434	348	127	458	20	15	0.52	2.99	199
0718071	0718063	9.96	34 1-	2 ACSR	0	0	330	125	104	14	8	0.22	3.21	20
OC146115	0718071	9.96	31 1-	REC_25_UNK	0	0	330	125	96	13	53	0.00	3.21	0
0719049	OC146115	10.79	31 1-	2 ACSR	0	0	305	121	96	13	7	0.22	3.44	15
0719052	0719049	11.52	15 1-	2 ACSR	0	0	286	119	35	4	3	0.08	3.52	2
0719053	0719052	12.27	10 1-	4 ACSR	0	0	264	115	21	2	2	0.06	3.58	0
0719054	0719053	13.05	3 1-	8 ACWC	0	0	238	109	4	0	1	0.01	3.59	0
0719055	0719054	13.30	1 1-	2 ACSR	0	0	234	108	0	0	0	0.00	3.59	0
0719051	0719049	10.80	0 1-	4 ACSR	0	0	305	121	0	0	0	0.00	3.44	0
SW146210-A	0719051	10.80	0 1-	Open	0	0	305	121	0	0	0	0.00	3.44	0
0718062	0718063	11.11	77 3-	4 ACSR	354	353	283	117	239	10	8	0.52	3.51	94
0718064	0718062	11.39	2 3-	4 ACSR	343	342	274	116	4	0	0	0.00	3.52	0
0718066	0718062	11.22	40 1-	4 ACSR	0	0	280	117	106	14	10	0.06	3.58	6
OC146116	0718066	11.22	39 1-	REC_25_UNK	0	0	280	117	93	12	51	0.00	3.58	0
0719064	OC146116	12.93	39 1-	4 ACSR	0	0	235	108	93	12	9	0.54	4.12	32
0719050	0719064	13.27	9 1-	8 ACWC	0	0	226	106	12	1	2	0.04	4.15	0
0719048	0719050	13.89	8 1-	4 ACSR	0	0	214	104	12	1	1	0.02	4.18	0
0718078	0718086	9.17	71 1-	4 ACSR	0	0	360	129	278	37	27	0.71	3.18	161

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LIG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
OC146114	0718078	9.17	49 1-	REC_35_UNK	0	0	360	129	207	28 81	0.00	3.18	0	
0718079	OC146114	10.52	49 1-	4 ACSR	0	0	303	121	207	28 20	1.36	4.55	222	
0718080	0718079	11.48	27 1-	4 ACSR	0	0	272	115	127	17 13	0.40	4.95	33	
0818073	0718080	12.02	2 1-	6 ACWC	0	0	257	113	12	1 1	0.02	4.97	0	
SW145758-B	0718079	10.52	0 1-	Open	0	0	303	121	0	0 0	0.00	4.55	0	
0818086	0819073	7.98	43 1-	8 ACWC	0	0	406	133	166	22 22	0.80	0.84	79	
CKT 134 total losses:		\$14,420												
SUB 36, CKT 144														
HQ_144	HEADQUARTERS	0.00	777 3-	SBS_99_UNK	2421	2693	2672	178	2613	117 0	0.00	0.00	0	
0819074	HQ_144	0.88	777 3-	3/0 ACSR	1913	1895	1839	175	2613	117 39	1.16	1.16	2301	
0819061	0819074	2.96	611 3-	3/0 ACSR	1259	1183	1040	167	2044	92 31	2.16	3.32	3331	
0819062	0819061	3.55	580 3-	3/0 ACSR	1146	1072	924	165	1899	87 29	0.58	3.90	871	
OC146193	0819062	3.55	573 3-	REC_70_UNK	1146	1072	924	165	1866	86 123	0.00	3.90	0	
0820051	OC146193	4.63	573 3-	3/0 ACSR	984	917	769	161	1866	86 29	1.05	4.95	1549	
0820029	0820051	5.40	521 3-	3/0 ACSR	895	832	686	158	1721	79 27	0.68	5.63	928	
RG145027	0820029	5.40	506 3-	219	895	832	686	158	1649	77 35	-5.63	0.00	0	
0819079	RG145027	5.79	506 3-	3/0 ACSR	855	795	651	157	1649	73 25	0.32	0.32	411	
0719063	0819079	8.63	502 3-	3/0 ACSR	645	598	473	148	1639	73 24	2.20	2.52	2753	
0719037	0719063	9.47	410 3-	3/0 ACSR	601	557	437	145	1283	58 19	0.53	3.06	551	
0719040	0719037	9.50	314 3-	336.4 ACSR	600	556	436	145	970	44 8	0.01	3.07	7	
OC146198	0719040	9.50	314 3-	70-L	600	556	436	145	970	44 63	0.00	3.07	0	
0719041	OC146198	10.33	314 3-	336.4 ACSR	573	530	413	143	970	44 8	0.22	3.29	154	
SW146119-B	0719041	10.33	301 3-	Closed	573	530	413	143	940	42 0	0.00	3.29	0	
SW146119-A	SW146119-B	10.33	301 3-	Closed	573	530	413	143	940	42 0	0.00	3.29	0	
0719042	SW146119-A	12.34	301 3-	336.4 ACSR	517	477	366	139	940	42 8	0.50	3.78	343	
0719033	0719042	12.41	32 1-	4 ACSR	0	0	363	139	80	11 8	0.03	3.82	3	
0719034	0719033	13.62	32 1-	6 ACWC	0	0	316	130	80	11 8	0.48	4.30	31	
0719035	0719034	13.95	21 1-	2 ACSR	0	0	307	129	53	7 4	0.07	4.37	3	
0720014	0719035	15.77	20 1-	6 ACWC	0	0	256	118	50	6 5	0.27	4.64	8	
0719043	0719042	13.01	249 3-	336.4 ACSR	500	462	353	138	803	36 7	0.15	3.93	88	
0719044	0719043	13.08	249 3-	3/0 ACSR	498	460	351	138	802	36 12	0.03	3.96	18	
0719045	0719044	13.27	243 3-	336.4 ACSR	493	455	348	137	784	35 7	0.04	4.00	23	
0719032	0719045	13.31	54 1-	4 ACSR	0	0	346	137	160	22 16	0.04	4.04	6	
OC146203	0719032	13.31	54 1-	REC_35_UNK	0	0	346	137	160	22 63	0.00	4.04	0	
0619033	OC146203	15.05	54 1-	4 ACSR	0	0	286	125	160	22 16	1.44	5.48	188	
0619021	0619033	16.20	5 1-	4 ACSR	0	0	256	118	9	1 1	0.03	5.51	0	
0619016	0619033	15.75	33 1-	4 ACSR	0	0	267	121	103	14 10	0.32	5.80	25	
0619017	0619016	17.63	13 1-	2 ACSR	0	0	234	114	48	6 4	0.19	5.99	6	
0620002	0619017	17.98	2 1-	4 ACSR	0	0	227	112	2	0 0	0.00	5.99	0	
0719046	0719045	13.69	171 3-	336.4 ACSR	484	446	340	136	579	26 5	0.06	4.06	28	
0719066	0719046	13.89	3 1-	6 ACWC	0	0	333	135	9	1 1	0.01	4.06	0	
0619022	0719046	13.75	160 3-	336.4 ACSR	483	445	339	136	544	24 5	0.01	4.07	4	
OC146206	0619022	13.75	160 3-	REC_70_UNK	483	445	339	136	544	24 36	0.00	4.07	0	
0619023	OC146206	14.22	160 3-	336.4 ACSR	472	436	331	135	544	24 5	0.07	4.13	26	
0619026	0619023	16.54	137 3-	4 ACSR	365	345	261	120	488	22 16	1.79	5.92	749	
0619028	0619026	17.91	25 1-	4 ACSR	0	0	231	113	105	14 10	0.44	6.36	28	
0619024	0619026	16.84	71 3-	4 ACSR	354	336	254	119	270	12 9	0.14	6.06	35	
SW146122-B	0619024	16.84	67 3-	Closed	354	336	254	119	253	11 0	0.00	6.06	0	
SW146122-A	SW146122-B	16.84	67 3-	Closed	354	336	254	119	253	11 0	0.00	6.06	0	
0619025	SW146122-A	17.39	67 3-	4 ACSR	335	319	242	116	253	11 8	0.25	6.31	60	
0619029	0619025	17.92	55 1-	4 ACSR	0	0	231	113	218	30 22	0.71	7.02	142	

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 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES CONS	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 37 3M			1		4795	5121	5210	180	7093					
SUB 37, CKT 104														
3M_104	3M	0.00	0 3-	SBS_99_UNK	4795	5121	5210	180	0	0	0	0.00	0.00	0
0817074	3M_104	0.08	0 3-	336.4 ACSR	4635	4829	4910	179	0	0	0	0.00	0.00	0
SW145000-A	0817074	0.08	0 3-	Open	4635	4829	4910	179	0	0	0	0.00	0.00	0
CKT 104 total losses:	\$0													
SUB 37, CKT 114														
3M_114	3M	0.00	1 3-	SBS_99_UNK	4795	5121	5210	180	7093	374	0	0.00	0.00	0
0817070	3M_114	0.12	1 3-	336.4 ACSR	4556	4716	4786	179	7093	374	71	0.44	0.44	1662
0817075	0817070	0.22	0 3-	336.4 ACSR	4372	4435	4477	179	0	0	0	0.00	0.44	0
SW145003-A	0817075	0.22	0 3-	Open	4372	4435	4477	179	0	0	0	0.00	0.44	0
0817071	0817070	0.13	1 3-	336.4 ACSR	4546	4699	4768	179	7079	374	71	0.02	0.46	75
SW145004-B	0817071	0.13	1 3-	Closed	4546	4699	4768	179	7078	374	0	0.00	0.46	0
SW145004-A	SW145004-B	0.13	1 3-	Closed	4546	4699	4768	179	7078	374	0	0.00	0.46	0
0817073	SW145004-A	0.23	1 3-	336.4 ACSR	4363	4422	4463	179	7078	374	71	0.37	0.83	1392
0817127	0817073	0.24	1 3-	350 MCM URD PRI	4355	4406	4453	472	7066	374	117	0.03	0.85	180
0817999	0817127	0.24	1 3-	Consumer	4355	4406	4453	472	7064	374	0	0.00	0.85	0
SW145003-B	0817127	0.24	0 3-	Open	4355	4406	4453	472	0	0	0	0.00	0.85	0
0817072	SW145004-A	0.22	0 3-	336.4 ACSR	4385	4454	4498	179	0	0	0	0.00	0.46	0
SW145005-A	0817072	0.22	0 3-	Open	4385	4454	4498	179	0	0	0	0.00	0.46	0
CKT 114 total losses:	\$3,309													
SUB 37 total losses:	\$3,309													

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 38 MILLERSBURG			1221		2293	2602	2574	178	4824					
SUB 38, CRT 104														
MILL_104	MILLERSBURG	0.00	380 3-	SBS_99_UNK	2293	2602	2574	178	1229	54 0	0.00	0.00	0.00	0
0920041	MILL_104	0.02	380 3-	336.4 ACSR	2282	2578	2552	178	1229	54 10	0.01	0.01	0.01	7
0920044	0920041	0.02	0 3-	336.4 ACSR	2281	2577	2551	178	0	0 0	0.00	0.01	0.01	0
SW146866-A	0920044	0.02	0 3-	Open	2281	2577	2551	178	0	0 0	0.00	0.01	0.01	0
0920042	0920041	0.84	380 3-	336.4 ACSR	1946	1992	1943	176	1229	54 10	0.27	0.28	0.28	235
1020064	0920042	2.28	350 3-	336.4 ACSR	1538	1480	1359	173	1111	49 9	0.43	0.71	0.71	331
1019031	1020064	2.29	29 1-	4 ACSR	0	0	1356	173	47	6 5	0.00	0.71	0.71	0
SW146958-A	1019031	2.29	29 1-	Closed	0	0	1356	173	47	6 0	0.00	0.71	0.71	0
SW146958-B	SW146958-A	2.29	29 1-	Closed	0	0	1356	173	47	6 0	0.00	0.71	0.71	0
1019027	SW146958-B	2.39	29 1-	4 ACSR	0	0	1304	172	47	6 5	0.03	0.74	0.74	1
1019026	1019027	2.62	1 1-	4 ACSR	0	0	1196	169	1	0 0	0.00	0.74	0.74	0
1019025	1019027	3.37	28 1-	4 ACSR	0	0	919	162	46	6 4	0.20	0.94	0.94	7
1019028	1019025	4.10	6 1-	4 ACSR	0	0	740	155	0	0 0	0.00	0.94	0.94	0
1019029	1019028	4.60	1 1-	6 ACWC	0	0	651	150	0	0 0	0.00	0.94	0.94	0
1019024	1019025	4.66	15 1-	4 ACSR	0	0	641	150	21	2 2	0.08	1.02	1.02	0
OC146853	1019024	4.66	0 1-	REC_25_UNK	0	0	641	150	0	0 0	0.00	1.02	1.02	0
1019023	OC146853	4.73	0 1-	4 ACSR	0	0	630	149	0	0 0	0.00	1.02	1.02	0
1020065	1020064	4.36	311 3-	336.4 ACSR	1181	1105	948	168	997	44 8	0.56	1.27	1.27	392
1020038	1020065	4.45	112 2-	4 ACSR	0	1084	926	167	384	25 18	0.09	1.36	1.36	31
OC146850	1020038	4.45	112 2-	REC_99_UNK	0	1084	926	167	383	25 0	0.00	1.36	1.36	0
1020039	OC146850	5.45	112 2-	4 ACSR	0	857	712	157	383	25 18	1.02	2.38	2.38	337
1020030	1020039	5.45	23 1-	4 ACSR	0	0	711	157	80	10 8	0.00	2.38	2.38	0
OC146851	1020030	5.45	23 1-	REC_99_UNK	0	0	711	157	80	10 0	0.00	2.38	2.38	0
1020031	OC146851	6.94	23 1-	4 ACSR	0	0	515	144	80	10 8	0.36	2.74	2.74	17
1020032	1020031	7.49	2 1-	6 ACWC	0	0	466	140	1	0 0	0.00	2.75	2.75	0
1019046	1020039	7.61	79 2-	4 ACSR	0	557	456	139	261	17 13	1.29	3.67	3.67	262
1019041	1019046	7.62	18 1-	4 ACSR	0	0	455	139	25	3 2	0.00	3.67	3.67	0
OC146852	1019041	7.62	18 1-	REC_15_UNK	0	0	455	139	25	3 23	0.00	3.67	3.67	0
1019042	OC146852	8.21	18 1-	4 ACSR	0	0	413	135	25	3 2	0.05	3.72	3.72	0
1019043	1019042	8.69	14 1-	2 ACSR	0	0	391	133	4	0 0	0.01	3.73	3.73	0
1019044	1019043	10.80	12 1-	4 ACSR	0	0	296	120	3	0 0	0.02	3.74	3.74	0
1019033	1019046	7.92	28 2-	4 ACSR	0	529	433	137	130	8 6	0.10	3.76	3.76	10
1019039	1019033	9.22	20 1-	4 ACSR	0	0	356	128	88	12 9	0.35	4.11	4.11	18
1020041	1020065	4.85	182 3-	336.4 ACSR	1120	1044	885	167	575	25 5	0.08	1.34	1.34	31
1020042	1020041	5.18	153 3-	336.4 ACSR	1083	1008	848	166	506	22 4	0.04	1.39	1.39	16
OC146858	1020042	5.18	153 3-	REC_50_UNK	1083	1008	848	166	506	22 46	0.00	1.39	1.39	0
1020043	OC146858	6.31	153 3-	336.4 ACSR	970	898	739	154	506	22 4	0.13	1.52	1.52	45
1020044	1020043	8.03	115 3-	1/0 ACSR	772	717	570	155	364	16 7	0.42	1.94	1.94	120
1120006	1020044	8.30	75 3-	1/0 ACSR	748	695	550	154	226	10 4	0.04	1.98	1.98	8
OC146862	1120006	8.30	73 3-	REC_25_UNK	748	695	550	154	223	10 40	0.00	1.98	1.98	0
1120007	OC146862	10.15	73 3-	1/0 ACSR	612	571	442	145	223	10 4	0.28	2.26	2.26	48
1121004	1120007	12.85	19 1-	4 ACSR	0	0	310	126	45	6 4	0.37	2.63	2.63	10
1121003	1120007	13.01	39 1-	4 ACSR	0	0	305	125	129	17 12	1.10	3.37	3.37	84
1120010	1020044	8.12	20 1-	4 ACSR	0	0	560	154	61	8 6	0.03	1.97	1.97	2
1020068	1120010	8.28	18 1-	4 ACSR	0	0	544	153	50	6 5	0.05	2.02	2.02	2
OC146859	1020068	8.28	17 1-	REC_25_UNK	0	0	544	153	50	6 27	0.00	2.02	2.02	0
1020056	OC146859	8.92	17 1-	4 ACSR	0	0	488	147	50	6 5	0.16	2.18	2.18	6
1020058	1020056	9.95	3 1-	6 ACWC	0	0	415	139	9	1 1	0.03	2.21	2.21	0
1020057	1020056	9.79	5 1-	4 ACSR	0	0	424	140	25	3 2	0.06	2.25	2.25	0
1020067	1120010	8.29	2 1-	4 ACSR	0	0	543	153	11	1 1	0.01	1.98	1.98	0

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LIG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1020053	1020041	5.38	22 1-	4 ACSR	0	0	774	162	44	5	4	0.07	1.41	2
0920061	0920042	1.27	26 2-	4 ACSR	0	1630	1553	171	102	6	5	0.12	0.40	10
OC146848	0920061	1.27	23 2-	REC_99_UNK	0	1630	1553	171	92	6	0	0.00	0.40	0
0919028	OC146848	2.34	23 2-	4 ACSR	0	1086	977	160	92	6	4	0.22	0.62	16
0919019	0919028	2.44	14 1-	4 ACSR	0	0	946	160	56	7	5	0.03	0.65	0
0919020	0919019	4.69	11 1-	6 ACWC	0	0	522	141	39	5	4	0.26	0.90	6
CKT 104 total losses:		\$2,054												
SUB 38, CKT 114														
MILL_114	MILLERSBURG	0.00	487 3-	SBS_99_UNK	2293	2602	2574	178	1687	75	0	0.00	0.00	0
0920045	MILL_114	0.03	487 3-	336.4 ACSR	2278	2570	2544	178	1687	75	14	0.01	0.01	18
0920047	0920045	0.05	487 3-	336.4 ACSR	2267	2549	2524	178	1687	75	14	0.01	0.03	12
0920048	0920047	0.07	487 3-	336.4 ACSR	2259	2532	2508	178	1687	75	14	0.01	0.03	10
0920049	0920048	0.38	427 3-	336.4 ACSR	2122	2285	2259	177	1436	64	12	0.12	0.16	122
1020066	0920049	2.34	427 3-	336.4 ACSR	1525	1485	1375	173	1435	64	12	0.76	0.92	760
1020047	1020066	2.75	161 3-	4 ACSR	1346	1306	1178	169	547	24	18	0.38	1.30	189
OC146913	1020047	2.75	157 3-	REC_70_UNK	1346	1306	1178	169	539	24	35	0.00	1.30	0
1020050	OC146913	4.18	157 3-	4 ACSR	885	868	740	155	539	24	17	1.30	2.60	613
1020051	1020050	4.70	137 3-	4 ACSR	779	767	648	150	472	21	15	0.41	3.00	171
1020054	1020051	5.05	126 2-	4 ACSR	0	708	596	147	424	29	21	0.43	3.43	164
1020052	1020054	7.04	20 1-	4 ACSR	0	0	409	133	72	9	7	0.44	3.87	19
1020055	1020054	6.88	106 2-	4 ACSR	0	503	420	134	351	24	17	1.63	5.07	480
OC146916	1020055	6.88	90 2-	REC_25_UNK	0	503	420	134	270	18	75	0.00	5.07	0
1021024	OC146916	7.03	90 2-	4 ACSR	0	491	409	133	270	18	13	0.12	5.19	31
1021023	1021024	9.97	29 1-	4 ACSR	0	0	278	115	72	10	7	0.65	5.84	28
1021025	1021024	7.44	61 2-	2 ACSR	0	469	390	131	198	13	8	0.15	5.34	27
1021026	1021025	8.04	57 2-	4 ACSR	0	430	358	127	189	13	9	0.30	5.64	49
1021028	1021026	11.79	43 1-	4 ACSR	0	0	234	107	156	21	16	1.82	7.46	172
1020035	1020050	4.91	6 1-	6 ACWC	0	0	617	149	14	1	1	0.05	2.64	0
1020037	1020035	5.13	0 1-	6 ACWC	0	0	587	147	0	0	0	0.00	2.64	0
SW146960-A	1020037	5.13	0 1-	Open	0	0	587	147	0	0	0	0.00	2.64	0
1020036	1020035	5.33	4 1-	4 ACSR	0	0	562	145	8	1	1	0.01	2.65	0
1020048	1020066	2.48	253 3-	1/0 ACSR	1482	1436	1321	172	826	37	16	0.08	1.00	57
OC146907	1020048	2.48	253 3-	REC_70_UNK	1482	1436	1321	172	826	37	53	0.00	1.00	0
1020049	OC146907	4.29	253 3-	1/0 ACSR	1049	993	848	163	826	37	16	1.08	2.08	726
0920060	1020049	5.21	235 3-	1/0 ACSR	909	858	714	158	755	34	15	0.50	2.58	310
1020033	0920060	6.72	26 1-	6 ACWC	0	0	519	145	113	15	11	0.54	3.12	38
1020034	1020033	6.81	2 1-	6 ACWC	0	0	510	145	8	1	1	0.00	3.12	0
SW146960-B	1020033	6.72	0 1-	Open	0	0	519	145	0	0	0	0.00	3.12	0
1020045	0920060	5.28	189 3-	1/0 ACSR	900	849	706	158	570	25	11	0.03	2.60	14
OC146910	1020045	5.28	189 3-	REC_35_UNK	900	849	706	158	570	25	74	0.00	2.60	0
1020046	OC146910	6.85	189 3-	1/0 ACSR	732	690	557	151	570	25	11	0.54	3.15	230
1021015	1020046	7.04	121 3-	4 ACSR	705	667	537	149	346	15	11	0.12	3.27	38
1021016	1021015	7.11	119 3-	1/0 ACSR	700	662	532	149	346	15	7	0.02	3.28	5
1021017	1021016	9.17	77 3-	1/0 ACSR	565	534	420	140	210	9	4	0.29	3.58	49
1021021	1021017	9.18	57 1-	4 ACSR	0	0	419	140	162	22	16	0.01	3.58	0
OC146914	1021021	9.18	57 1-	REC_25_UNK	0	0	419	140	162	22	89	0.00	3.58	0
1021018	OC146914	10.75	57 1-	4 ACSR	0	0	338	129	162	22	16	1.30	4.89	169
1021022	1021018	11.72	2 1-	4 ACSR	0	0	301	123	11	1	1	0.03	4.92	0
1021020	1021018	14.77	21 1-	4 ACSR	0	0	222	107	63	8	6	0.77	5.66	29
1021019	1021018	12.36	14 1-	4 ACSR	0	0	281	119	34	4	3	0.17	5.06	3
1021027	1021016	8.20	41 1-	4 ACSR	0	0	440	140	134	18	13	0.56	3.84	50

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
0921003	1021027	8.27	8 1-	6 ACWC	0	0	436	140	33	4	3	0.01	3.85	0
0921004	0921003	8.58	4 1-	4 ACSR	0	0	414	137	8	1	1	0.01	3.86	0
SW146959-B	1020049	4.29	0 1-	Open	0	0	848	163	0	0	0	0.00	2.08	0
0920035	0920048	0.08	60 1-	4 ACSR	0	0	2498	177	250	33	24	0.01	0.04	2
OC146917	0920035	0.08	60 1-	35-L	0	0	2498	177	250	33	96	0.00	0.04	0
0920036	OC146917	3.10	60 1-	4 ACSR	0	0	668	148	250	33	24	2.24	2.28	326
SW146959-A	0920036	3.10	0 1-	Open	0	0	668	148	0	0	0	0.00	2.28	0
SW146866-B	0920047	0.05	0 3-	Open	2267	2549	2524	178	0	0	0	0.00	0.03	0
0920046	0920045	0.03	0 3-	336.4 ACSR	2277	2568	2543	178	0	0	0	0.00	0.01	0
SW146865-B	0920046	0.03	0 3-	Open	2277	2568	2543	178	0	0	0	0.00	0.01	0
CKT 114 total losses:		\$4,911												
SUB 38, CKT 124														
MILL_124	MILLERSBURG	0.00	354 3-	SBS_99_UNK	2293	2602	2574	178	1908	85	0	0.00	0.00	0
0920050	MILL_124	0.04	354 3-	336.4 ACSR	2276	2565	2540	178	1908	85	16	0.02	0.02	26
0920039	0920050	0.04	0 3-	336.4 ACSR	2275	2564	2538	178	0	0	0	0.00	0.02	0
SW146865-A	0920039	0.04	0 3-	Open	2275	2564	2538	178	0	0	0	0.00	0.02	0
0920051	0920050	0.41	354 3-	556.1 ACSR	2120	2254	2227	177	1908	85	12	0.14	0.16	160
0920052	0920051	2.19	353 3-	336.4 ACSR	1566	1507	1389	173	1904	85	16	0.90	1.06	1156
0920064	0920052	2.26	15 1-	4 ACSR	0	0	1351	172	137	18	13	0.05	1.11	6
OC146950	0920064	2.26	14 1-	REC_35_UNK	0	0	1351	172	120	16	46	0.00	1.11	0
0920065	OC146950	2.92	14 1-	4 ACSR	0	0	1055	165	120	16	12	0.25	1.36	18
0919027	0920065	3.46	2 1-	6 ACWC	0	0	881	160	5	0	0	0.01	1.36	0
0920053	0920052	2.70	293 3-	3/0 ACSR	1423	1354	1221	171	1570	70	24	0.39	1.45	469
0920054	0920053	2.77	283 3-	4 ACSR	1394	1326	1190	170	1484	66	48	0.19	1.63	252
OC146953	0920054	2.77	283 3-	REC_70_UNK	1394	1326	1190	170	1482	66	96	0.00	1.63	0
0920055	OC146953	3.51	283 3-	4 ACSR	1119	1075	926	163	1482	66	48	1.89	3.53	2508
0920057	0920055	4.24	269 3-	1/0 ACSR	988	945	796	159	1393	63	28	0.77	4.30	913
0920037	0920057	4.66	63 1-	4 ACSR	0	0	711	155	297	41	29	0.76	5.06	203
OC146954	0920037	4.66	61 1-	REC_50_UNK	0	0	711	155	287	39	80	0.00	5.06	0
0820049	OC146954	6.18	61 1-	4 ACSR	0	0	508	143	287	39	29	2.08	7.14	460
0820028	0820049	6.60	17 1-	4 ACSR	0	0	470	140	67	9	7	0.16	7.30	10
0820023	0820028	6.94	14 1-	6 ACWC	0	0	443	137	57	8	6	0.07	7.37	2
0820024	0820023	7.21	3 1-	4 ACSR	0	0	423	135	5	0	1	0.00	7.37	0
0820027	0820049	7.12	16 1-	4 ACSR	0	0	430	136	87	12	9	0.26	7.40	14
0920058	0920057	5.16	199 3-	1/0 ACSR	858	819	675	155	1071	49	21	0.73	5.03	662
0820052	0920058	6.50	177 3-	1/0 ACSR	721	686	553	149	952	44	19	0.90	5.93	700
0820030	0820052	6.89	109 3-	1/0 ACSR	689	656	526	147	681	31	14	0.20	6.14	121
OC146957	0820030	6.89	109 3-	REC_70_UNK	689	656	526	147	680	31	45	0.00	6.14	0
0820031	OC146957	6.89	109 3-	1/0 ACSR	689	655	525	147	680	31	14	0.00	6.14	0
0820032	0820031	7.15	87 3-	1/0 ACSR	669	636	508	146	581	25	11	0.11	6.25	51
0820041	0820032	7.23	23 1-	6 ACWC	0	0	502	146	131	18	13	0.06	6.30	7
0820044	0820041	7.23	0 1-	4 ACSR	0	0	501	146	0	0	0	0.00	6.30	0
SW146961-A	0820044	7.23	0 1-	Open	0	0	501	146	0	0	0	0.00	6.30	0
0820042	0820041	7.28	23 1-	4 ACSR	0	0	497	145	131	18	13	0.04	6.35	5
0920074	0820042	7.35	22 1-	6 ACWC	0	0	491	145	131	18	13	0.05	6.40	7
0920068	0920074	8.26	22 1-	4 ACSR	0	0	422	138	131	18	13	0.37	6.77	30
0920073	0820032	7.29	60 3-	1/0 ACSR	659	626	500	146	394	18	8	0.04	6.29	14
0920067	0920073	7.59	13 1-	4 ACSR	0	0	474	143	79	11	8	0.07	6.36	4
SW146961-B	0920067	7.59	0 1-	Open	0	0	474	143	0	0	0	0.00	6.36	0
0920040	0920073	7.75	46 3-	1/0 ACSR	627	596	473	144	309	14	6	0.05	6.34	10
0820026	0820031	7.32	22 1-	4 ACSR	0	0	486	144	139	19	14	0.18	6.32	16

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Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 39 JACKSONVILLE			1031		5994	6097	6143	180	5116					
SUB 39, CKT 104														
JACK_104	JACKSONVILLE	0.00	189 3-	SBS_99_UNK	5994	6097	6143	180	807	36	0	0.00	0.00	0
1016046	JACK_104	0.01	189 3-	336.4 ACSR	5958	6041	6083	180	807	36	7	0.00	0.00	2
1016056	1016046	0.01	0 3-	336.4 ACSR	5950	6030	6070	180	0	0	0	0.00	0.00	0
SW146213-A	1016056	0.01	0 3-	Open	5950	6030	6070	180	0	0	0	0.00	0.00	0
0916106	1016046	1.13	189 3-	336.4 ACSR	3722	3522	3025	178	807	36	7	0.28	0.28	140
0916077	0916106	1.93	125 3-	336.4 ACSR	2910	2702	2205	176	619	28	5	0.16	0.44	60
0916097	0916077	1.94	44 1-	4 ACSR	0	0	2197	176	231	31	23	0.01	0.45	2
OC146238	0916097	1.94	44 1-	REC_35_UNK	0	0	2197	176	231	31	90	0.00	0.45	0
0916098	OC146238	3.97	44 1-	4 ACSR	0	0	848	156	231	31	23	1.47	1.92	195
SW146377-B	0916098	3.97	0 1-	Open	0	0	848	156	0	0	0	0.00	1.92	0
0916078	0916077	3.00	74 3-	336.4 ACSR	2254	2066	1643	174	367	16	3	0.11	0.55	24
0916079	0916078	3.68	27 3-	336.4 ACSR	1969	1795	1412	172	132	6	1	0.02	0.57	2
0916080	0916079	4.04	8 3-	336.4 ACSR	1844	1677	1313	172	18	0	0	0.00	0.57	0
0916094	0916079	4.01	13 1-	4 ACSR	0	0	1234	169	77	10	8	0.15	0.72	9
0916095	0916094	4.34	11 1-	6 ACWC	0	0	1089	166	66	9	6	0.11	0.83	5
0916096	0916095	4.74	4 1-	4 ACSR	0	0	945	162	39	5	4	0.05	0.88	0
0916063	0916078	3.00	30 1-	4 ACSR	0	0	1639	174	156	21	15	0.00	0.55	0
OC146239	0916063	3.00	30 1-	REC_50_UNK	0	0	1639	174	156	21	43	0.00	0.55	0
0916064	OC146239	3.41	30 1-	4 ACSR	0	0	1357	169	156	21	15	0.37	0.92	46
0916052	0916064	4.29	10 1-	4 ACSR	0	0	957	161	70	9	7	0.19	1.11	8
SW146376-A	0916052	4.29	0 1-	Open	0	0	957	161	0	0	0	0.00	1.11	0
0916065	0916064	4.40	15 1-	4 ACSR	0	0	923	160	60	8	6	0.19	1.11	6
0916090	0916106	1.23	52 1-	4 ACSR	0	0	2781	176	146	19	14	0.09	0.38	12
OC146237	0916090	1.23	52 1-	REC_35_UNK	0	0	2781	176	146	19	57	0.00	0.38	0
0917059	OC146237	2.35	52 1-	4 ACSR	0	0	1335	165	146	19	14	1.02	1.40	128
0917051	0917059	2.91	48 1-	2 ACSR	0	0	1094	161	145	19	11	0.33	1.73	37
1017042	0917051	3.11	42 1-	4 ACSR	0	0	1010	159	119	16	12	0.14	1.87	14
0917060	1017042	5.50	40 1-	4 ACSR	0	0	519	140	110	15	11	0.84	2.71	53
CKT 104 total losses:		\$743												
SUB 39, CKT 114														
JACK_114	JACKSONVILLE	0.00	624 3-	SBS_99_UNK	5994	6097	6143	180	3251	146	0	0.00	0.00	0
1016058	JACK_114	0.01	624 3-	336.4 ACSR	5966	6053	6096	180	3251	146	28	0.01	0.01	19
1016060	1016058	0.98	624 3-	336.4 ACSR	3915	3728	3315	178	3251	146	28	0.93	0.94	2011
1016061	1016060	1.06	621 3-	3/0 ACSR	3776	3584	3159	178	3214	145	48	0.13	1.07	319
1016063	1016061	1.17	27 1-	4 ACSR	0	0	2885	177	85	11	8	0.05	1.12	3
OC146332	1016063	1.17	23 1-	REC_99_UNK	0	0	2885	177	61	8	0	0.00	1.12	0
1016064	OC146332	2.67	23 1-	4 ACSR	0	0	1126	161	61	8	6	0.29	1.41	10
1016049	1016061	1.10	593 3-	3/0 ACSR	3713	3519	3090	178	3123	141	47	0.06	1.13	143
SW146242-A	1016049	1.10	593 3-	Closed	3713	3519	3090	178	3122	141	0	0.00	1.13	0
SW146242-B	SW146242-A	1.10	593 3-	Closed	3713	3519	3090	178	3122	141	0	0.00	1.13	0
1016050	SW146242-B	1.45	593 3-	3/0 ACSR	3194	2990	2549	176	3122	141	47	0.57	1.70	1356
1016062	1016050	1.45	0 1-	6 ACWC	0	0	2539	176	0	0	0	0.00	1.70	0
SW146379-A	1016062	1.45	0 1-	Open	0	0	2539	176	0	0	0	0.00	1.70	0
1017047	1016050	2.11	583 3-	3/0 ACSR	2511	2314	1907	174	3066	139	46	1.05	2.75	2479
1017043	1017047	3.38	17 1-	4 ACSR	0	0	1034	161	48	6	5	0.20	2.95	5
OH468	1017047	3.35	534 3-	3/0 ACSR	1781	1631	1289	169	2939	134	45	1.86	4.61	4260
1017039	OH468	3.36	45 1-	4 ACSR	0	0	1286	169	200	28	20	0.01	4.62	1
OC146319	1017039	3.36	45 1-	REC_99_UNK	0	0	1286	169	200	28	0	0.00	4.62	0
1017040	OC146319	4.11	45 1-	4 ACSR	0	0	968	162	200	28	20	0.62	5.24	83

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Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1017041	1017040	5.84	19 1-	6 ACWC	0	0	597	147	55	7	6	0.31	5.55	10
SW146379-B	1017041	5.84	0 1-	Open	0	0	597	147	0	0	0	0.00	5.55	0
1017031	OH468	3.94	489 3-	3/0 ACSR	1564	1434	1118	167	2596	120	40	0.77	5.39	1633
REG28	1017031	3.94	483 3-	219	1564	1434	1118	167	2551	118	54	-5.39	0.00	0
1017032	REG28	4.11	483 3-	3/0 ACSR	1511	1386	1076	167	2551	113	38	0.21	0.21	427
1017033	1017032	4.41	329 3-	3/0 ACSR	1424	1306	1009	166	1944	86	29	0.27	0.48	419
OC146325	1017033	4.41	306 3-	REC_50_UNK	1424	1306	1009	166	1821	80	162	0.00	0.48	0
1017034	OC146325	4.51	306 3-	3/0 ACSR	1398	1283	990	165	1821	80	27	0.08	0.56	123
1017028	1017034	5.86	306 3-	3/0 ACSR	1117	1026	778	161	1820	83	28	1.36	1.92	1758
1017029	1017028	6.55	283 3-	1/0 ACSR	992	916	692	157	1709	79	34	0.95	2.87	1291
1017030	1017029	6.64	262 3-	3/0 ACSR	980	905	683	157	1605	74	25	0.09	2.96	101
1117036	1017030	6.84	262 3-	1/0 ACSR	950	878	661	156	1604	74	32	0.26	3.22	344
1117046	1117036	6.94	21 1-	4 ACSR	0	0	647	155	113	15	11	0.07	3.29	7
1117032	1117046	8.66	21 1-	4 ACSR	0	0	462	141	113	15	11	1.16	4.45	109
1117033	1117032	9.50	15 1-	4 ACSR	0	0	403	135	96	13	10	0.26	4.71	15
1117037	1117036	6.91	239 3-	1/0 ACSR	940	869	653	156	1483	69	30	0.09	3.31	104
OC146328	1117037	6.91	237 3-	70-L	940	869	653	156	1472	68	98	0.00	3.31	0
1117038	OC146328	7.75	237 3-	1/0 ACSR	834	773	577	152	1472	68	30	0.97	4.28	1130
1117039	1117038	8.27	215 3-	1/0 ACSR	778	722	537	150	1283	60	26	0.56	4.84	596
1117040	1117039	9.53	195 3-	1/0 ACSR	669	624	461	144	1153	54	24	1.19	6.03	1117
1117041	1117040	9.94	150 3-	1/0 ACSR	640	597	441	142	907	43	19	0.31	6.34	231
1117042	1117041	10.07	124 3-	1/0 ACSR	632	589	435	142	787	37	16	0.09	6.42	57
1117044	1117042	10.40	50 2-	1/0 ACSR	0	569	420	141	424	30	13	0.19	6.61	61
1117035	1117044	10.85	29 1-	4 ACSR	0	0	394	137	244	35	25	0.62	7.23	122
1117052	1117035	11.56	19 1-	1/0 URD PRI AL	0	0	370	234	170	24	14	0.27	7.50	29
SW146378-B	1117052	11.56	0 1-	Open	0	0	370	234	0	0	0	0.00	7.50	0
1117034	1117044	10.92	14 1-	4 ACSR	0	0	390	137	99	14	10	0.19	6.80	12
1117051	1117034	10.96	1 1-	1/0 URD PRI AL	0	0	388	242	9	1	1	0.00	6.80	0
SW146378-A	1117051	10.96	0 1-	Open	0	0	388	242	0	0	0	0.00	6.80	0
1117043	1117042	10.24	72 3-	1/0 ACSR	621	579	428	141	357	17	7	0.04	6.46	10
1117027	1117043	10.60	49 1-	4 ACSR	0	0	405	138	178	25	18	0.41	6.87	63
OC146331	1117027	10.60	42 1-	REC_99_UNK	0	0	405	138	160	22	0	0.00	6.87	0
1117031	OC146331	12.27	42 1-	4 ACSR	0	0	324	127	160	22	16	0.88	7.75	85
1117047	1117041	10.39	23 1-	4 ACSR	0	0	412	139	104	14	11	0.24	6.57	19
1117048	1117047	11.28	12 1-	6 ACWC	0	0	364	133	55	7	6	0.16	6.73	5
1117028	1117040	9.65	34 1-	4 ACSR	0	0	453	143	182	26	19	0.13	6.16	22
OC146330	1117028	9.65	34 1-	REC_50_UNK	0	0	453	143	182	26	52	0.00	6.16	0
1117029	OC146330	10.15	34 1-	4 ACSR	0	0	419	139	182	26	19	0.38	6.55	48
1117030	1117029	11.45	15 1-	6 ACWC	0	0	350	130	50	7	5	0.21	6.76	6
1017045	1117039	9.66	20 1-	4 ACSR	0	0	424	139	124	17	13	0.56	5.40	41
1117049	1117038	7.75	10 1-	4 ACSR	0	0	576	152	45	6	4	0.00	4.28	0
OC146329	1117049	7.75	10 1-	REC_99_UNK	0	0	576	152	45	6	0	0.00	4.28	0
1017049	OC146329	8.76	10 1-	4 ACSR	0	0	478	143	45	6	4	0.14	4.43	4
CA145028	1017034	4.51	0 3-	Capacitor	1398	1283	990	165	0	-14	0	0.00	0.56	0
1017035	1017032	4.13	154 3-	1/0 ACSR	1502	1378	1070	167	603	27	12	0.01	0.22	6
OC146321	1017035	4.13	154 3-	REC_50_UNK	1502	1378	1070	167	603	27	37	0.00	0.22	0
1017036	OC146321	6.16	154 3-	1/0 ACSR	1007	937	714	157	603	27	12	0.65	0.88	244
1017037	1017036	7.84	21 2-	4 ACSR	0	646	498	143	57	3	3	0.14	1.02	5
0917052	1017037	7.84	0 1-	4 ACSR	0	0	498	143	0	0	0	0.00	1.02	0
1017023	1017036	6.26	44 1-	4 ACSR	0	0	697	156	140	19	14	0.09	0.96	11
OC146322	1017023	6.26	44 1-	REC_35_UNK	0	0	697	156	140	19	55	0.00	0.96	0
1017027	OC146322	6.27	2 1-	4 ACSR	0	0	696	156	8	1	1	0.00	0.96	0

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 40 OXFORD			630		1964185600	1964185600	1964185600		180	5590				
SUB 40, CKT 104														
OXFD_104	OXFORD	0.00	266 3-	SBS_99_UNK	1964185600	1964185600	1964185600		180	2634	118 0	0.00	0.00	0.00
1015080	OXFD_104	0.10	266 3-	336.4 ACSR	107932	96277	61912	180	2634	118 22	0.08	0.08	133	
1015132	1015080	0.13	266 3-	500 MCM URD	PRI	93214	84015	56939	478	2633	118 31	0.02	0.10	46
1015081	1015132	0.51	266 3-	336.4 ACSR	21116	19246	13530	179	2632	118 22	0.30	0.40	526	
1015082	1015081	1.68	265 3-	1/0 ACSR	4129	3898	2784	173	2620	118 51	2.38	2.78	5064	
OC146785	1015082	1.68	262 3-	70-L	4129	3898	2784	173	2567	117 168	0.00	2.78	0	
1015074	OC146785	1.78	262 3-	1/0 ACSR	3870	3656	2613	173	2567	117 51	0.19	2.97	414	
1015075	1015074	1.85	261 3-	1/0 ACSR	3692	3488	2494	172	2564	117 51	0.15	3.12	319	
1015076	1015075	2.29	261 3-	1/0 ACSR	2901	2745	1966	170	2561	117 51	0.88	4.00	1863	
1016047	1015076	3.11	207 3-	1/0 ACSR	2069	1961	1408	166	2127	98 43	1.34	5.34	2344	
1016081	1016047	4.22	18 3-	1/0 ACSR	1491	1415	1017	161	172	8 3	0.08	5.41	7	
1015085	1016047	3.31	174 3-	1/0 ACSR	1937	1837	1319	165	1799	84 37	0.28	5.62	427	
1015086	1015085	3.54	155 3-	1/0 ACSR	1798	1706	1225	164	1564	73 32	0.29	5.91	393	
1015116	1015086	4.19	10 1-	2 ACSR	0	0	994	160	96	13 7	0.14	6.05	8	
1015087	1015086	4.33	144 3-	1/0 ACSR	1449	1376	989	160	1460	68 30	0.90	6.81	1098	
1115022	1015087	5.59	106 3-	1/0 ACSR	1108	1053	757	155	1113	52 23	1.04	7.85	948	
OC146789	1115022	5.59	89 3-	REC_35_UNK	1108	1053	757	155	934	44 127	0.00	7.85	0	
1115014	OC146789	5.82	89 3-	1/0 ACSR	1062	1009	727	154	934	44 19	0.17	8.02	137	
1115015	1115014	6.44	13 1-	6 ACWC	0	0	622	149	67	9 7	0.13	8.15	5	
1115012	1115014	6.59	72 3-	1/0 ACSR	933	887	642	151	812	38 17	0.48	8.50	331	
1115013	1115012	6.63	48 3-	1/0 ACSR	928	883	639	150	539	25 11	0.01	8.52	7	
1115019	1115013	6.67	48 3-	1/0 URD	PRI AL	922	877	636	303	539	25 15	0.02	8.53	8
1115020	1115019	6.72	30 2-	1/0 URD	PRI AL	0	871	632	302	339	23 14	0.02	8.56	8
1115016	1115020	7.30	30 2-	2 ACSR	0	780	571	147	320	23 13	0.26	8.82	61	
1116003	1115016	7.74	13 1-	2 ACSR	0	0	532	144	123	17 10	0.12	8.94	9	
1116004	1116003	7.87	1 1-	4 ACSR	0	0	518	143	2	0 0	0.00	8.95	0	
1115017	1115012	7.44	13 1-	1/0 URD	PRI AL	0	0	568	285	188	26 16	0.49	9.00	70
1115011	1115017	7.47	6 1-	2 ACSR	0	0	565	146	74	10 6	0.01	9.01	0	
1116006	1115011	8.08	6 1-	1/0 URD	PRI AL	0	0	521	271	74	10 6	0.10	9.11	5
1015115	1015087	5.11	21 1-	1/0 ACSR	0	0	838	157	245	34 15	0.29	7.10	39	
1015072	1015085	4.54	18 1-	2 ACSR	0	0	894	157	219	30 17	0.59	6.20	75	
1016070	1015076	2.37	46 1-	2 ACSR	0	0	1883	170	376	52 29	0.12	4.12	39	
1016071	1016070	2.37	45 1-	4 ACSR	0	0	1876	170	364	50 36	0.01	4.14	4	
OC146786	1016071	2.37	45 1-	REC_99_UNK	0	0	1876	170	364	50 0	0.00	4.14	0	
1016076	OC146786	4.11	44 1-	4 ACSR	0	0	830	153	358	49 35	1.97	6.10	423	
1016078	1016076	4.21	0 1-	4 ACSR	0	0	803	152	0	0 0	0.00	6.10	0	
1016077	1016076	4.30	1 1-	2 ACSR	0	0	792	152	6	0 0	0.00	6.11	0	
1016072	OC146786	2.39	1 1-	2 ACSR	0	0	1857	169	6	0 0	0.00	4.14	0	
CKT 104 total losses:		\$14,811												
SUB 40, CKT 114														
OXFD_114	OXFORD	0.00	173 3-	SBS_99_UNK	1964185600	1964185600	1964185600		180	1140	50 0	0.00	0.00	0.00
1015105	OXFD_114	0.33	173 3-	336.4 ACSR	32162	29158	19856	179	1140	50 10	0.06	0.06	81	
1015106	1015105	1.14	173 3-	336.4 ACSR	9200	8396	5889	178	1139	50 10	0.13	0.19	192	
1015121	1015106	1.20	12 1-	6 ACWC	0	0	5340	177	52	6 5	0.02	0.21	0	
1015122	1015121	1.26	10 1-	4 ACSR	0	0	4792	177	41	5 4	0.01	0.22	0	
1015114	1015122	2.14	6 1-	8 ACWC	0	0	1498	163	26	3 4	0.10	0.32	2	
1015107	1015106	1.24	151 3-	336.4 ACSR	8478	7738	5433	178	1018	45 9	0.01	0.20	19	
1015077	1015107	1.31	148 3-	336.4 ACSR	8010	7312	5138	178	977	43 8	0.01	0.21	13	
1015078	1015077	1.96	148 3-	336.4 ACSR	5360	4897	3453	176	977	43 8	0.06	0.27	96	

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LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
1015079	1015078	2.40	70 3-	3/0 ACSR	4079	3739	2640	175	449	22	8	0.01	0.29	42
0915066	1015079	2.83	65 3-	3/0 ACSR	3306	3037	2147	173	416	18	6	0.08	0.37	25
0915093	0915066	3.08	13 1-	4 ACSR	0	0	1818	171	106	14	10	0.14	0.51	12
0915094	0915093	3.38	11 1-	6 ACWC	0	0	1520	168	86	11	8	0.08	0.59	4
0915067	0915066	3.38	44 3-	3/0 ACSR	2658	2446	1731	171	244	10	4	0.06	0.43	10
0915068	0915067	4.57	12 3-	3/0 ACSR	1862	1717	1217	167	78	3	1	0.02	0.45	0
OC146982	0915068	4.57	0 3-	REC_99_UNK	1862	1717	1217	167	0	0	0	0.00	0.45	0
0915092	0915067	3.94	11 1-	4 ACSR	0	0	1287	166	46	6	4	0.08	0.51	2
0916108	0915067	3.87	7 1-	2 ACSR	0	0	1402	168	57	7	4	0.06	0.49	2
CA145031	1015079	2.40	0 3-	Capacitor	4079	3739	2640	175	0	-14	0	0.00	0.29	0
1016082	1015078	2.29	47 1-	4 ACSR	0	0	2481	173	299	40	29	0.60	0.87	153
OC146790	1016082	2.29	45 1-	REC_50_UNK	0	0	2481	173	291	39	79	0.00	0.87	0
1016073	OC146790	2.54	38 1-	4 ACSR	0	0	2032	170	248	33	24	0.35	1.22	73
1016075	1016073	3.72	24 1-	2 ACSR	0	0	1195	162	151	20	11	0.43	1.65	40
0916092	1016075	3.83	4 1-	6 ACWC	0	0	1138	161	25	3	2	0.02	1.67	0
0916093	0916092	3.98	3 1-	4 ACSR	0	0	1067	160	25	3	2	0.01	1.68	0
1016074	1016073	3.37	9 1-	4 ACSR	0	0	1236	162	71	9	7	0.18	1.40	7
1016069	OC146790	2.30	7 1-	4 ACSR	0	0	2464	173	43	5	4	0.00	0.87	0
CKT 114 total losses:		\$773												
SUB 40, CKT 124														
OXFD_124	OXFORD	0.00	191 3-	SBS_99_UNK196418560019641856001964185600	180	1816	81	0	0.00	0.00				
1015096	OXFD_124	0.34	191 3-	336.4 ACSR	31093	28189	19196	179	1816	81	15	0.18	0.18	217
1015097	1015096	0.83	187 3-	336.4 ACSR	12714	11588	8088	179	1799	80	15	0.25	0.43	304
1015098	1015097	1.14	169 3-	336.4 ACSR	9182	8378	5875	178	1687	75	14	0.16	0.59	177
OC146793	1015098	1.14	164 3-	REC_50_UNK	9182	8378	5875	178	1669	75	150	0.00	0.59	0
1015083	OC146793	1.84	164 3-	336.4 ACSR	5714	5220	3677	177	1669	75	14	0.33	0.92	371
1015084	1015083	2.65	155 3-	336.4 ACSR	3959	3618	2555	175	1607	72	14	0.37	1.29	397
1015100	1015084	2.76	99 3-	336.4 ACSR	3814	3486	2462	175	1009	45	9	0.03	1.32	20
OC146782	1015100	2.76	99 3-	REC_99_UNK	3814	3486	2462	175	1009	45	0	0.00	1.32	0
1015101	OC146782	3.98	99 3-	336.4 ACSR	2643	2416	1709	173	1009	45	9	0.36	1.67	244
1015102	1015101	4.18	95 3-	336.4 ACSR	2514	2298	1623	172	990	44	8	0.06	1.73	39
1015071	1015102	4.20	31 1-	4 ACSR	0	0	1608	172	237	32	23	0.03	1.76	5
1015126	1015071	4.36	31 1-	1/0 URD PRI AL	0	0	1529	412	236	32	19	0.16	1.92	34
1015128	1015126	4.50	3 1-	1/0 URD PRI AL	0	0	1464	406	31	4	2	0.01	1.93	0
SW146803-A	1015128	4.50	0 1-	Open	0	0	1464	406	0	0	0	0.00	1.93	0
1015127	1015126	5.59	27 1-	1/0 URD PRI AL	0	0	1078	364	201	27	16	0.52	2.44	63
SW146803-B	1015127	5.59	0 1-	Open	0	0	1078	364	0	0	0	0.00	2.44	0
1015103	1015102	4.38	63 3-	336.4 ACSR	2398	2191	1544	172	743	33	6	0.04	1.78	22
1015104	1015103	5.13	1 3-	336.4 ACSR	2049	1870	1311	170	0	0	0	0.00	1.78	0
1015070	1015103	4.89	62 1-	2 ACSR	0	0	1278	168	742	101	56	1.56	3.33	962
1015125	1015070	5.25	16 1-	1/0 URD PRI AL	0	0	1163	381	224	30	18	0.17	3.50	23
1015131	1015070	5.99	43 1-	1/0 URD PRI AL	0	0	972	354	479	66	39	1.13	4.46	326
1015094	1015084	3.53	41 3-	1/0 ACSR	2546	2361	1668	171	499	22	10	0.33	1.62	135
1015095	1015094	4.03	33 3-	1/0 ACSR	2100	1957	1385	168	461	20	9	0.13	1.75	40
1015118	1015095	4.57	25 1-	6 ACWC	0	0	1096	163	202	27	20	0.41	2.16	54
1015120	1015118	4.66	7 1-	6 ACWC	0	0	1057	162	50	6	5	0.01	2.17	0
1015119	1015118	4.77	2 1-	4 ACSR	0	0	1013	161	1	0	0	0.00	2.16	0
1015117	1015094	4.85	4 1-	4 ACSR	0	0	923	158	26	3	3	0.10	1.72	2
1015067	1015097	0.87	10 1-	4 ACSR	0	0	7192	178	67	8	6	0.01	0.45	0
1015068	1015067	1.38	7 1-	8 ACWC	0	0	2507	170	37	4	5	0.09	0.53	2
1015069	1015068	1.47	1 1-	4 ACSR	0	0	2294	169	2	0	0	0.00	0.53	0

Title: BLUE GRASS ENERGY COOPERATIVE CORPORATION - KENTUCKY 64 JESSAMINE - NICHOLASVILLE, KENTUCKY
 Case: 2007-2009 CONSTRUCTION WORK PLAN - PROPOSED WINTER 2009/10 SYSTEM AFTER IMPROVEMENTS
 Patterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
OH484	1015097	3.36	0 3-	336.4 ACSR	3129	2861	2022	174	0	0	0	0.00	0.43	0
CKT 124 total losses:		\$3,437												
SUB 40 total losses:		\$19,021												
Total System Losses:		\$1,019,845												
