

(270) 465-4101 • Fax (270) 789-3625  
(800) 931-4551

May 2, 2011

RECEIVED

Jeff Derouen, Executive Director  
Public Service Commission  
211 Sower Boulevard  
P. O. Box 615  
Frankfort, KY 40602

MAY 03 2011  
PUBLIC SERVICE  
COMMISSION

Dear Mr. Derouen:

Enclosed are an original and ten copies of an Application for Certificate of Public Convenience and Necessity.

Three of the copies of the 2011-2013 Work Plan are final versions of maps and primary analysis and eight copies include only the text and exhibits.

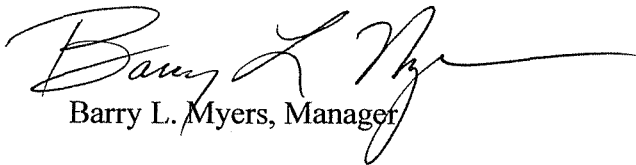
Witnesses available are:

- Exhibit A –Mike Skaggs, Engineer, Taylor County RECC and Representatives of Patterson and Dewar Engineers, Inc.
- Exhibit B –Mike Skaggs, Engineer, Taylor County RECC Representatives of Patterson and Dewar Engineers, Inc.
- Exhibit C –John F. Patterson, Office Manager, Taylor County RECC

One additional copy of the Application is included to be stamped as filed and returned to Taylor County RECC.

Sincerely,

TAYLOR COUNTY RURAL ELECTRIC  
COOPERATIVE CORPORATION

  
Barry L. Myers, Manager

BLM:pwr

Enclosures

COMMONWEALTH OF KENTUCKY  
BEFORE THE PUBLIC SERVICE COMMISSION

RECEIVED

MAY 03 2011

PUBLIC SERVICE  
COMMISSION

IN THE MATTER OF:

APPLICATION OF TAYLOR COUNTY RURAL )  
ELECTRIC COOPERATIVE CORPORATION ) CASE NO. 2011-  
FOR CERTIFICATE OF PUBLIC CONVENIENCE )  
AND NECESSITY )

**APPLICATION FOR CERTIFICATION OF WORK PLAN**

Taylor County Rural Electric Cooperative Corporation, hereinafter called the Applicant, by counsel, respectfully advises the Commission that.

1. The Applicant is Taylor County Rural Electric Cooperative Corporation whose post office address is P.O. Box 100, Campbellsville, Kentucky 42719, and whose Articles of Incorporation, as amended, together with territorial maps showing the area which it serves, are now on file with this Commission, said Articles of Incorporation and amendments thereto have been filed as recently as in Case No. 92-080, that case involving the application of Taylor County RECC for an adjustment of its tariff schedule.

2. That Applicant has adopted a proposed three-year work plan to be undertaken and completed during the period of January 1, 2011, thru December 31, 2013, which work plan requires significant capital outlays which do or may materially affect the existing financial condition of Applicant, and the financing of which work plan will or may materially affect the existing financial condition of Applicant, and the financing of which work plan will or may ultimately result in increased charges to Applicant's customers. Accordingly, Applicant seeks certification, consistent with 807

KAR 5:001 (9)(2) to undertake and complete the subject work plan, same having been prepared by Applicant's consulting engineers and a true copy of that work plan being filed herewith as collective Exhibit A.

3. That the subject work plan consists primarily of ordinary replacement, refurbishing, and upgrading of existing facilities in order that Applicant may continue to provide within its service area for the safe and delivery of electric power to its some 25,456 member-consumers as well as its anticipated new consumers. Such construction as is thus contemplated by the work plan is not undertaken with the intention of seeking to engage in competition with other public utilities, but rather for the purpose of maintaining and upgrading its level of service to its existing customers and to those prospective customers who will apply for service by reason of their location within this Applicant's primary service area.

4. Those activities proposed under the three-year work plan for which approval is sought herein will not require additional franchise agreements to be entered into between Taylor County RECC and any other entity. To the extent that such work plan includes the replacement, repair, or modification of any of the Applicant's facilities within the City of Greensburg, Kentucky, then that will be accomplished consistent with an existing franchise agreement between Taylor County RECC and the City of Greensburg, Taylor County RECC having been authorized by this Commission to seek and bid upon such franchise within that City by Order of March 14, 1989, entered in Case No. 89-052 before this Commission.

5. To the extent that the proposed work plan contemplates the extension of the Applicant's facilities for the purpose of serving anticipated new customers, it is often

necessary that the Applicant locate a pole or some other portion of its facilities within the highway right-of-way, and that activity necessarily entails the procural of any encroachment permit from the Transportation Cabinet of the Commonwealth of Kentucky. However, such permits are routinely granted as a perfunctory matter if and when application for same is made.

6. The subject work plan, Exhibit A, incorporates therein, as Map 1, a depiction of the Applicant's existing facilities; and, as Map 2 the depiction of the Applicant's facilities as they will exist and appear at the time of completion of the subject work plan.

7. The subject three-year work plan does not provide for the construction of any specific buildings or installations not already in existence, and with respect to which a specific projected cost of operation might be assigned. Rather, that work plan entails the general upgrading and maintenance of Applicant's distribution facilities, together with extensions of those line and facilities where indicated. Applicant thus attaches hereto a document entitled "Exhibit C" which sets forth its calculation as to the probable comparative costs of operating its system before and after completion of the subject work plan.

8. The estimated cost of the work plan is \$9,988,367.00, such total being set forth separately in Exhibit B filed herewith, that separate Exhibit making up a part of the work plan itself. Financing for this work plan will be made by an application to the Rural Utilities Service (RUS) for a loan guaranteed by the Federal Financing Bank. The application for such Federal Financing Bank loan will be advanced consistent with further communications with RUS, and as Applicant's need for such loan proceeds arises.



WHEREFORE, Applicant requests of this Commission authority, in the form of a certificate of public convenience and necessity, to carry out and complete the subject three-year work plan, and all proper and appropriate Orders in the premises.

SPRAGENS & HIGDON, P.S.C.  
Attorneys at Law  
15 Court Square - P. O. Box 681  
Lebanon, (270) 692-3141  
Telephone: (270) 692-3141

By

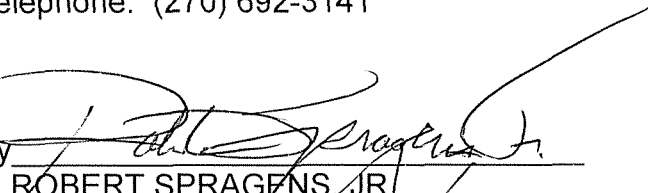
  
ROBERT SPRAGENS, JR.  
Counsel for Taylor County Rural  
Electric Cooperative Corporation

EXHIBIT A

TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION  
P O BOX 100  
CAMPBELLSVILLE, KY 42719

APPLICATION FOR CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY

EXHIBIT A

WITNESS AVAILABLE: Mike Skaggs

The January 1, 2011 - December 31, 2013 Work Plan prepared by Patterson & Dewar Engineers, 850 Center Way, Norcross, Ga. 30071 is filed as Exhibit A Of this application under separate cover.

TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION  
Kentucky 23 Taylor  
Campbellsville, Kentucky

2011-2013 CONSTRUCTION WORK PLAN

Cost Estimate Breakdown For Loan Application and Financial Forecast  
(RUS Form 740c Format)

1. DISTRIBUTION

a. 740c Ref. Code 100: New Line (Excluding Tie-Lines)			Total Cons.	Cons. Per Year	Cost Year A 2011	Cost Year B 2012	Cost Year C 2013
101	Underground	64,084 total lineal feet	198	66	\$259,710	\$267,498	\$275,550
102	Overhead	241,502 total lineal feet	968	323	\$748,391	\$771,001	\$794,257
<b>CODE 100 SUBTOTALS =</b>					<b>\$1,008,101</b>	<b>\$1,038,499</b>	<b>\$1,069,807</b>
<b>TOTAL LOAN CODE 100 COSTS =</b>					<b>\$3,116,407</b>		

b. 740c Ref Code 200: New Construction and Tie-Lines			(See Exhibit F for further details)			Cost Year A 2011	Cost Year B 2012	Cost Year C 2013
RUS Ref. Nos.	Priority Code	Miles	Existing Construction	Proposed Construction	\$/Mile			
None								
<b>CODE 200 SUBTOTALS =</b>						<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>TOTAL LOAN CODE 200 COSTS =</b>						<b>\$0</b>		

c. 740c Ref Code 300: Line Conversions and Changes			(See Exhibit F for further details)			Cost Year A 2011	Cost Year B 2012	Cost Year C 2013
RUS Ref. Nos.	Priority Code	Miles	Existing Construction	Proposed Construction	\$/Mile			
300.01	C	2.30	1ø 4 ACSR	3ø 1/0 ACSR	\$55,000			\$126,500
301.01	B	1.00	1ø 4 ACSR	3ø 1/0 ACSR	\$55,000		\$55,000	
302.01	C	1.00	1ø 4 ACSR	3ø 1/0 ACSR	\$55,000			\$55,000
303.01	C	0.30	1ø 4 ACSR	2ø 1/0 ACSR	\$40,000			\$12,000
303.02	C	0.40	1ø 4 ACSR	2ø 1/0 ACSR	\$40,000			\$16,000
304.01	A	1.25	3ø 1/0 ACSR	3ø 336 ACSR	\$85,000	\$106,250		
305.01	A	3.50	3ø 1/0 ACSR	3ø 336 ACSR	\$85,000	\$297,500		
305.02	A	1.80	1ø 4 ACSR	3ø 1/0 ACSR	\$55,000	\$99,000		
308.01	B	8.50	1ø 4 ACSR	3ø 1/0 ACSR	\$55,000		\$467,500	
308.02	C	1.00	3ø 4 ACSR	3ø 336 ACSR	\$85,000			\$85,000
309.01 *	C	2.60	1ø 4 ACSR	3ø 1/0 ACSR	\$55,000			\$143,000
310.01	A	1.25	3ø 1/0 ACSR	3ø 336 ACSR	\$85,000	\$106,250		
310.02	C	1.40	1ø 4 ACSR	3ø 1/0 ACSR	\$55,000			\$77,000
313.01	A	1.90	3ø 1/0 ACSR	3ø 336 ACSR	\$85,000	\$161,500		
<b>CODE 300 SUBTOTALS =</b>						<b>\$770,500</b>	<b>\$522,500</b>	<b>\$514,500</b>
<b>TOTAL LOAN CODE 300 COSTS =</b>						<b>\$1,807,500</b>		

2011-2013 CONSTRUCTION WORK PLAN

Cost Estimate Breakdown For Loan Application and Financial Forecast  
(RUS Form 740c Format)

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

(See Exhibit G for further details)

RUS Ref. Nos.	Priority Code	Substation	Cost Year A 2011	Cost Year B 2012	Cost Year C 2013
	None				
<b>CODE 400 SUBTOTALS =</b>			\$0	\$0	\$0
<b>TOTAL LOAN CODE 400 COSTS =</b>			\$0		

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

(See Exhibit G for further details)

RUS Ref. Nos.	Priority Code	Substation	Cost Year A 2011	Cost Year B 2012	Cost Year C 2013
	None				
<b>CODE 500 SUBTOTALS =</b>			\$0	\$0	\$0
<b>TOTAL LOAN CODE 500 COSTS =</b>			\$0		

f. 740c Ref Code 600: Miscellaneous Distribution Equipment

RUS Ref. Nos.	Miscellaneous Equipment	Total Units	Units per Year	Costs Year A 2011	Cost Year B 2012	Cost Year C 2013	LOAN TOTAL
601	Underground Transformers	98	33	\$76,956	\$79,266	\$81,642	\$237,864
	Overhead Transformers	1,228	409	\$366,464	\$377,507	\$388,959	\$1,132,930
	AMR Meters	1,404	468	\$84,708	\$87,048	\$89,856	\$261,612
<b>Total Transformers &amp; Meters =</b>				\$528,128	\$543,821	\$560,457	\$1,632,406
602	Service Wires for Increased Capacity	186	62	\$26,796	\$27,588	\$28,424	\$82,808
603	Sectionalizing Equipment (See Exhibit J for breakdown) †			\$110,256	\$113,568	\$116,976	\$340,800
604	Line Regulators (See Exhibit H for Breakdown)			\$92,000	\$92,000	\$92,000	\$276,000
605	Line Capacitors (See Exhibit I for Breakdown)			\$3,000	\$3,000	\$0	\$6,000
606	Pole Replacement	1,342	447	\$577,524	\$594,957	\$612,837	\$1,785,318
608	Aged Conductor Replacement (See Exhibit K)			\$150,000	\$400,000	\$150,000	\$700,000
<b>CODE 600 Totals =</b>				\$1,487,704	\$1,774,934	\$1,560,694	\$4,823,332

g. 740c Ref Code 700: Other Distribution

701	Security Lights	792	264	\$78,012	\$80,376	\$82,740	\$241,128
702	SCADA			\$0	\$0	\$0	\$0
705	AMR System and Equipment			\$0	\$0	\$0	\$0
<b>CODE 700 Totals =</b>				\$78,012	\$80,376	\$82,740	\$241,128
<b>Total Distribution =</b>				\$3,344,317	\$3,416,309	\$3,227,741	\$9,988,367

2011-2013 CONSTRUCTION WORK PLAN

Cost Estimate Breakdown For Loan Application and Financial Forecast  
(RUS Form 740c Format)

BREAKDOWN OF COST ESTIMATES FOR FINANCIAL FORECAST

		Costs Year A 2011	Cost Year B 2012	Cost Year C 2013	Totals
<b>NEW CONSTRUCTION</b>					
100	Line Extensions	\$1,008,101	\$1,038,499	\$1,069,807	\$3,116,407
601	Transformers & Meters	\$528,128	\$543,821	\$560,457	\$1,632,406
701	Security Lights	\$78,012	\$80,376	\$82,740	\$241,128
<b>Total New Construction =</b>		<b>\$1,614,241</b>	<b>\$1,662,696</b>	<b>\$1,713,004</b>	<b>\$4,989,941</b> 50.0%
<b>SYSTEM IMPROVEMENTS</b>					
200	New Tie Lines	\$0	\$0	\$0	\$0
300	Line Conversions and Changes	\$770,500	\$522,500	\$514,500	\$1,807,500
400	New Substations	\$0	\$0	\$0	\$0
500	Substation Changes	\$0	\$0	\$0	\$0
602	Service Wires for Increased Capacity	\$26,796	\$27,588	\$28,424	\$82,808
603	Sectionalizing Equipment	\$110,256	\$113,568	\$116,976	\$340,800
604	Line Regulators	\$92,000	\$92,000	\$92,000	\$276,000
605	Line Capacitors	\$3,000	\$3,000	\$0	\$6,000
606	Poles Replacement	\$577,524	\$594,957	\$612,837	\$1,785,318
608	Aged Conductor Replacement	\$150,000	\$400,000	\$150,000	\$700,000
702	SCADA	\$0	\$0	\$0	\$0
705	AMR System and Equipment	\$0	\$0	\$0	\$0
<b>Total System Improvements =</b>		<b>\$1,730,076</b>	<b>\$1,753,613</b>	<b>\$1,514,737</b>	<b>\$4,998,426</b> 50.0%
<b>Total CWP Costs Subject to Loan Funds =</b>		<b>\$3,344,317</b>	<b>\$3,416,309</b>	<b>\$3,227,741</b>	<b>\$9,988,367</b>

EXHIBIT C

TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION  
P O BOX 100  
CAMPBELLSVILLE, KY 42719

ESTIMATED COST OF OPERATION  
APPLICATION FOR CERTIFICATE OF CONVENIENCE AND NECESSITY  
WITNESS AVAILABLE: John F. Patterson

YEAR	OPERATION AND MAINTENANCE EXPENSE	TOTAL UTILITY PLANT	RATIO OF O & M TO TOTAL PLANT
2010	3,392,129	68,286,917	4.97
2009	3,121,497	65,834,771	4.74
2008	3,015,858	64,263,201	4.69
2007	2,763,460	60,755,306	4.55
2006	2,924,322	54,191,852	5.40

The future cost of Operation and Maintenance is estimated at a ratio to total plant of 5.0. If total plant increases \$9,988,367 as indicated in the work plan operation and maintenance expense would increase \$499,418.

**TAYLOR COUNTY  
RURAL ELECTRIC COOPERATIVE CORPORATION**

**KENTUCKY 23 TAYLOR  
CAMPBELLSVILLE, KENTUCKY**

**CONSTRUCTION WORK PLAN**  
January 1, 2011 – December 31, 2013

February 2011

Patterson & Dewar Engineers, Inc.  
P.O. Box 2808, Norcross, Georgia 30091  
850 Center Way, Norcross, Georgia 30071  
Phone: 770-453-1410 Fax: 770-453-1411

**TAYLOR COUNTY  
RURAL ELECTRIC COOPERATIVE CORPORATION**

**KENTUCKY 23 TAYLOR  
CAMPBELLSVILLE, KENTUCKY**

**CONSTRUCTION WORK PLAN**  
January 1, 2011 – December 31, 2013

**RECEIVED**

**MAY 03 2011**

**PUBLIC SERVICE  
COMMISSION**

February 2011

Patterson & Dewar Engineers, Inc.  
P.O. Box 2808, Norcross, Georgia 30091  
850 Center Way, Norcross, Georgia 30071  
Phone: 770-453-1410 Fax: 770-453-1411



**TAYLOR COUNTY  
RURAL ELECTRIC COOPERATIVE CORPORATION**

**KENTUCKY 23 TAYLOR  
CAMPBELLSVILLE, KENTUCKY**

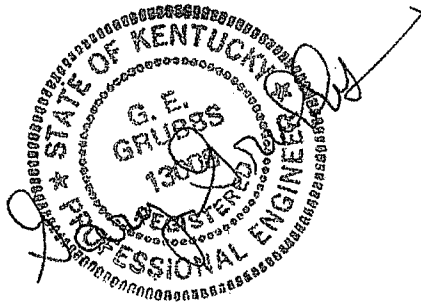
**CONSTRUCTION WORK PLAN (CWP)**  
January 1, 2011 – December 31, 2013

**ENGINEERING CERTIFICATION**

Upon completion of the construction proposed herein, the above indicated electric distribution system can provide adequate and dependable service to approximately 26,298 customers with residential using a monthly average of 1,140 kilowatt-hours per consumer. The peak demand is estimated to be approximately 163,000 kW for the winter of 2013/14.

I certify that this 2011-2013 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.



A handwritten signature in cursive script that reads "Gary Grubbs".

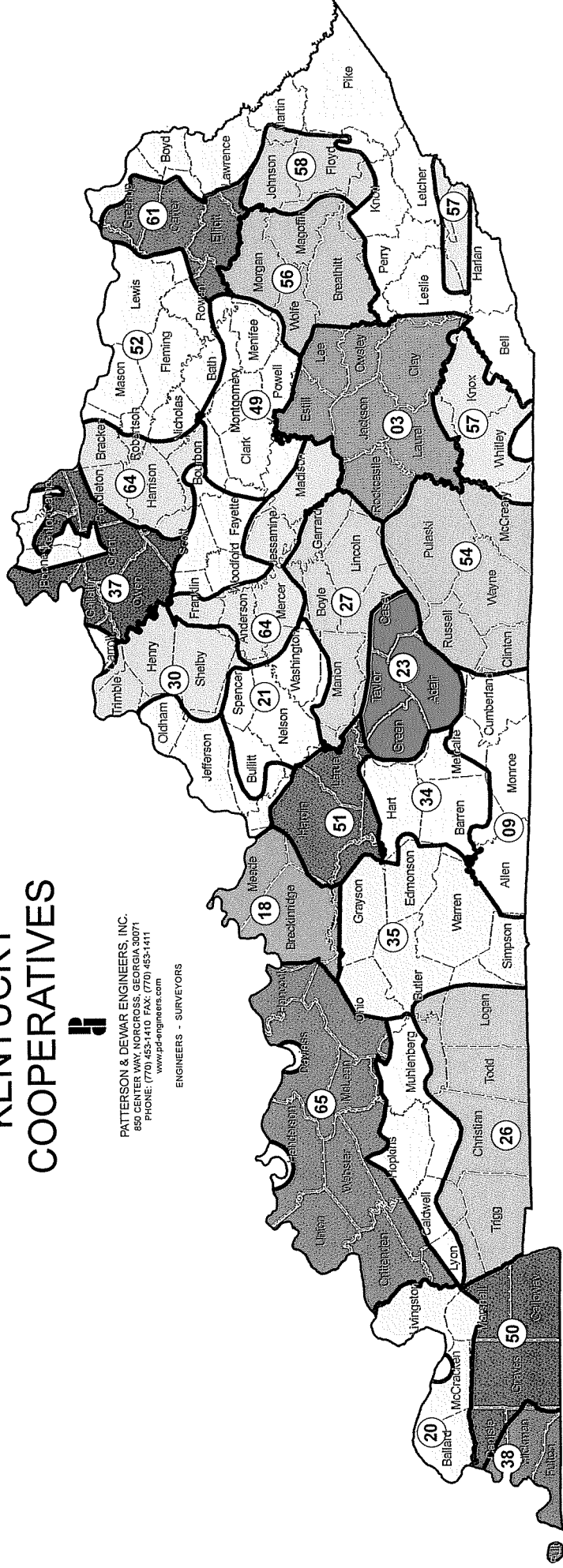
Gary Grubbs  
Kentucky P.E. No. 13008

# KENTUCKY COOPERATIVES



PATTERSON & DEWAR ENGINEERS, INC.  
 650 HENDERSON WAY, SUITE 300, GERRARD, KY 40321  
 PHONE: (770) 453-1410, FAX: (770) 453-1411  
 www.pd-engineers.com

ENGINEERS - SURVEYORS



- 3 Jackson EC - McKee
- 18 Meade County RECC - Brandenburg
- 20 Jackson Purchase EC - Paducah
- 21 Salt River ECC - Bardstown
- 23 Taylor County RECC - Campbellsville
- 26 Pennyrite Electric - Hopkinsville
- 27 Inter-County Energy CC - Danville
- 30 Shelby EC - Shelbyville
- 34 Farmers RECC - Glasgow
- 35 Warren RECC - Bowling Green
- 37 Owen EC - Owenton
- 38 Hickman-Fulton RECC - Hickman
- 49 Clark EC - Winchester
- 50 West Kentucky RECC - Mayfield
- 51 Nolin RECC - Elizabethtown
- 52 Fleming-Mason EC - Flemingsburg
- 54 South Kentucky RECC - Somerset
- 56 Licking Valley RECC - West Liberty
- 57 Cumberland Valley Electric - Gray
- 58 Big Sandy RECC - Paintsville
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(For copy of RUS Form 740c, future CWP amendments, etc.)

**APPENDICES**

- APPENDIX 1** .....Primary Analysis – Existing January 2010 System
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- APPENDIX 3** .....Primary Analysis – Future Winter 2013/14 System After Improvements

**MAPS**

- MAP 1** .....Circuit Diagram – Existing January 2010 System
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**TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION**  
**Kentucky 23 Taylor**  
**Campbellsville, Kentucky**

**2011-2013 CONSTRUCTION WORK PLAN (CWP)**

**February 2011**

**I. EXECUTIVE SUMMARY**

**A. Purpose, Results and General Basis of Study**

This report documents the January 2010 system engineering analysis and summarizes the proposed construction for Taylor County Rural Electric Cooperative Corporation's (TCRECC) electric distribution system for the three-year period of January 1, 2011 through December 31, 2013.

The proposed construction program is to be financed by the Rural Utilities Service (RUS) 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 TCRECC distribution system can provide adequate and dependable service to approximately 26,300 consumers with the residential consumers using an average of 1,140 kWh per month.

The 2013 projected number of consumers and total peak system load were taken directly from the Cooperative's 2010 Load Forecast Report (LF) as approved by RUS. The 20% probability winter extreme highest kW demand was used for the loading conditions for the next three years. This loading level was agreed to by TCRECC management and the RUS General Field Representative (GFR).

A review of TCRECC's 2011 Long Range System Study (LRSS), finds the load projections and recommendations to be adequate for the three-year planning period. This CWP was completed in conjunction with the LRSS.

Load projections indicate that no new substations or delivery points are required for the CWP period.

The cooperative's Operations and Maintenance Survey (Review Rating Summary - RUS Form 300), was completed on October 6, 2009. Several maintenance items were identified for improvements but no recommendations requiring capital funds were listed. A reduction in the number of idle services is encouraged.

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 January 2010 conditions. The existing base system model has also been grown to the projected winter 2013/14 loading to develop a future system model. The projected future loading is in agreement with the currently approved 2010 LF. The basis of the system analysis is the RUS guidelines and TCRECC's system design and operating criteria.

The analyses indicated above utilized the WindMil software package by Milsoft Utility Solutions, and the results were used as the basis for determining the capital needs for TCRECC's electric distribution system.

## B. Service Area, Distribution System and Power Supply

The corporate office of Taylor County Rural Electric Cooperative Corporation is located in Campbellsville. The cooperative provides electric service to a portion of the central most part of Kentucky. The service area encompasses generally the rural areas around the small towns of Campbellsville, Columbia, and Greensburg. TCRECC provides electric service to rural homes, farms, villages, and small commercial and industrial consumers in Adair, Casey, Green and Taylor Counties.

The area generally consists of significant rolling hills, some rocky, rough terrain and with grazing lands along small streams and tributaries. The chief sources of income are from general farming, timber and paper products, dairy operations, nurseries and varied small industries. Steady growth is being experienced around the small cities and towns with modest growth in the remaining rural areas.

The following data was taken, or derived, from Taylor County Rural Electric Cooperative Corporation's December 2009 RUS Form 7:

Number of Consumers (Avg)	=	25,285
KWh Purchased	=	537,279,486
KWh Sold	=	523,226,755
KWh Used by Company	=	414,512
KWh Unaccounted for	=	13,638,219
KWh losses (%)	=	2.54%
Max. NCP kW Demand	=	150,793
Total Utility Plant	=	\$65,834,771
Miles of Distribution	=	3,183
Consumers per Mile	=	7.94
Annual Load Factor	=	40.7%

Service is provided to TCRECC members through 15 delivery points.

TCRECC'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 TCRECC and other cooperatives located in the central and eastern half of Kentucky.

TCRECC takes delivery from EKPC at the distribution voltage of 7,200/12,470 volts with no long-term plans for needing the higher 14,400/24,940-volt system.

## C. System Organization and Operation

TCRECC's headquarters as mentioned earlier, is located in Campbellsville, Kentucky, near the geographic center of the system. All engineering and management decisions come through this office. The system is operated and maintained under the leadership of an engineer and construction superintendent. Additional support staff of technicians, administrators, and aides compliments the system operations.

TCRECC utilizes contractor construction crews for mainly large system improvement type projects.

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

#### 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; or DEF – Deferred. Many of the projects were completed. See Exhibit C for more details.

TCRECC currently has approximately 98 miles of old copper conductor 1-phase primary lines on their system. This work plan recommends replacing approximately 15% (15 miles) of the copper lines over the CWP period.

#### E. Summary of Construction Program and Costs

The costs of the recommended construction program over the next three years have been projected as follows:

2011	\$3,344,317
2012	\$3,416,309
<u>2013</u>	<u>\$3,227,741</u>
Total	\$9,988,367

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

2005	\$2,720,306
2006	\$2,662,664
2007	\$6,627,381
2008	\$5,108,684
2009	\$3,046,982

This data mentioned above was taken from TCRECC's five previous year-end RUS Form 7, Part E 1(b). 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 further breakdown of the construction program cost is summarized as follows:

	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>Totals</u>
New Construction	= \$1,614,241	\$1,662,696	\$1,713,004	\$4,989,941
System Improvements	= <u>\$1,730,076</u>	<u>\$1,753,613</u>	<u>\$1,514,737</u>	<u>\$4,998,426</u>
CWP Totals	= \$3,344,317	\$3,416,309	\$3,227,741	\$9,988,367

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 50 percent of the total capital is for new construction, leaving approximately 50% for system improvements.



## II. BASIS OF STUDY AND PROPOSED CONSTRUCTION

### A. Design and Operational Criteria

Exhibit L presents TCRECC's System Design Guidelines (SDG). On August 31, 2010, the Kentucky RUS General Field Representative reviewed and concurred with TCRECC's criteria. The proposed construction as outlined in this 2011-2013 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 of a specific criterion. Such occurrences are considered only temporary and not for long term operations.

### 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 an 18-month period ending May 31, 2010.

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. 2010 Load Forecast

The 2010 Load Forecast Report was approved by TCRECC's Board in 2010. The report was prepared by EKPC in cooperation with Taylor County RECC's management and staff. The report utilized statistical models to forecast future energy and demand requirements. EKPC provided the economic, demographic, and weather information. Taylor County 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 2010-2030. A 0.8% per year growth in energy sales was projected for the period. Winter and summer peak kW demands were projected to grow approximately 0.8% per year. The system annual load factor was expected to remain at the 44% level. 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 loading conditions.

## **2. 2011 Long Range System Study (LRSS)**

Patterson & Dewar Engineers, Inc. completed a LRSS for Taylor County RECC's distribution system in February 2011. The system configuration and the loads for the January 2010 form the basis for the LRSS.

The LRSS used a projected load of 250 MW for the winter of 2035/36 in order to stress the system. The preferred plan included six new substations – Bloyd's Crossroads, Cantown, Log Church, Pierce, Saloma 2, and Sparksville. No new substations are required for this CWP period. However, the Pierce substation will be required in the next CWP covered by Load Level 2 (2014-16) in order to unload the McKinney's Corner substation. Load Level 3 covers the time period between 2017 and 2020, and the new Cantown substation is projected during this time period in order to unload the Phil substation and maintain adequate voltage levels on the distribution system. The remainder of the new substations will be added during the Load Level 4 period of 2021 through 2029. Load Level 5 covers the time period through 2035, and no new substations are projected for service.

Because of the abundance of 69 kV transmission line and the reasonable costs to build new delivery points, the TCRECC service voltage will remain 7.2 / 12.47 kV over the study period.

The LRSS also recommends TCRECC standardize on three-phase line construction using primarily 1/0 ACSR, 336 kcmil and 477 kcmil ACSR conductor sizes. Construction using 4/0 ACSR conductor is uneconomical and should be avoided. Exhibit N provides a summary of the current Economical Conductor Analysis that agrees with the recommendations of the LRSS.

In summary, the LRSS is valid for the next 3 years including system improvements necessary to satisfy current and projected system needs through the year 2013. Recommendations incorporated in this CWP are in compliance with the current LRSS.

## **3. 2009 Operations and Maintenance Survey (RUS Form 300)**

In October 2009, TCRECC personnel met with the RUS GFR and conducted a review of TCRECC'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 and maintenance, and engineering programs were found to be satisfactory with no major capital items identified or recommended.

One item was noted on the O&M Survey which requires corrective action. The number of idle services is incorrect and needs to be verified for correctness according to billing records.

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

- Cable TV attachments need to be monitored continuously for compliance with the NESC.
- Telephone poles left standing after pole replacement should be removed.
- Overall physical condition of distribution line right-of-way (by field checking).

## **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 2000 through 2009 and for the projected years of 2010 through 2030. The projected and historical customer count and kW demand comes from the most recent EKPC Load Forecast for TCRECC. The projected net distribution plant is derived from the most recent Long Range System Study.

The distribution system exhibits a growth in peak demand from 94,800 kW in 2000 to 154,562 kW in the winter 2008/2009. This represents approximately a 5.6 percent per year growth rate. In 2001, the winter peak was 114,800 kW, which would be a 3.8 percent annual growth rate.

The system is experiencing an annual 1.6 percent growth in consumers. There were 21,895 consumers in 2000, increasing to 25,285 in 2009. The projection for 2013 is 26,298 total consumers. This growth rate is expected to continue for the long range.

The annual total distribution non-coincident peak (NCP) load factor was 39.7 percent for 2009. TCRECC's distribution load factor has ranged from a low of 39.7 percent to a high of 51.3 percent over the past ten years depending on the severity of the summer and winter peaks. A load factor of approximately 44% was used in the load forecast to approximate the future probable loads.

The annual system losses were 2.54 percent for 2009 and 5.96 percent in 2008. EKPC projects losses of 5.4 percent for the TCRECC system. The 2008 total energy sales for TCRECC were 516,067,791 kWh. With 3,169 miles of distribution line in 2008, the 1,000 kWh billed per mile per year ratio calculates to be 162.8. According to REA Bulletin 45-4, the acceptable loss for this ratio is approximately 8.3 percent. TCRECC's losses in recent years have averaged 6.0%, which is well within the RUS established guidelines.

### **2. Special Loads**

No special loads were considered in this Work Plan.

### **3. Substation Load Data**

Exhibit O, pages 1 through 3, summarizes the substation loading and capacities for both existing and projected system peak conditions, with and without 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.

The Taylor County RECC System Design Guidelines, 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 upgrading. This criterion also matches EKPC's policy. Currently none of TCRECC's substations are loaded over this level.

Adequate and reasonable power factor levels are currently being maintained on all substations on TCRECC'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 January 2010 non-coincident winter distribution peak for TCRECC was 135,154 kW. The corresponding peak kWh consumer billing data was used to develop the base system model for the winter 2009/10 conditions. During January 2010 the system served approximately 25,315 consumers.

Appendix 1 presents the primary analysis for the existing January 2010 system. This computer model was validated by comparing line voltage readings taken in the field. Exhibit U compares the field readings with the calculated computer model values. The average difference between the values was 2.4 percent, which is excellent for system modeling and planning.

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 TCRECC's primary electric system illustrates the loading and voltage conditions of the January 2010 system. The map also displays the CWP system recommended improvements.

Appendix 2 is a primary analysis of the existing system configuration with the projected 2013/14 peak winter loading 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.

Appendix 3 is a primary analysis of the future 2013/14 winter system after completion of the recommended 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. See Exhibits H and I for a full listing of voltage regulator and capacitor recommendations.

#### **5. System Outages and Reliability**

Taylor County RECC 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.

From the 2009 Form 7, the five year consumer outage average is 415.31 minutes (6.92 hours) per consumer per year, which is well above RUS's guideline of 5.0 hours per consumer per year. For 2009, 1067.23 outage minutes per consumer were attributed to a major storm. Excluding this major storm, the five year average is 201.86 minutes (3.36 hours) per consumer per year.

### III. REQUIRED CONSTRUCTION ITEMS

#### A. Service to New Consumers

During the 18 month period ending May 31, 2010, TCRECC added 99 underground services and 484 overhead services for new consumers. The average line extension cost for each new service is approximately \$4,054 for underground and \$2,388 for overhead services. It is estimated that 198 new underground and 969 new 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 \$3,116,407 in capital will be required to construct the new lines. This calculates to be an average of \$1,038,802 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 50 percent of the capital required for this work plan is estimated to be for new consumer services.

#### B. Service Changes to Existing Customers

For the 18 month period ending May 31, 2010, TCRECC increased the service wire capacity of 66 consumers. On this basis TCRECC is expected to upgrade 132 services during the next three years. The average cost for each service upgrade is approximately \$627. The capital requirement for the CWP period is \$82,808.

#### 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 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 existing system Milsoft model and considering the load growth estimates of the projected winter 2013/14 system, the distribution line system improvements are as follows. The three year CWP distribution line construction estimate is \$1,807,500 including line conversions and changes. No new tie-lines are recommended or required.

Each recommendation of the CWP has been carefully reviewed with the TCRECC engineering 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:

XYZ.ZZ	=	Construction Item Number
X	=	RUS Reference Prefix (2 for tie lines; 3 for line conversions)
YY	=	TCRECC 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 Q also summarizes the justification for each project.

**D. Substation and Meter Point Additions and Changes**

The System Design Guidelines establish 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 the McKinney Corner substation will be at 95% of its power transformer rating with winter 2013/14 loads. The new Pierce substation, projected for the next work plan period, will address this. If the load growth occurs sooner in the McKinney Corner area forcing the need for a capacity upgrade, then construction of the new Pierce substation should occur sooner. The addition of the Pierce substation will prevent expensive distribution conductor upgrades and will help service reliability and voltage for the area.

**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.

TCRECC is encouraged to enforce their 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, TCRECC 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 TCRECC. A total of two capacitor banks with a cost of \$6,000 is included in this CWP.

All capacitor recommendations are based on the WindMil software and input from the engineering staff at TCRECC. 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 will be performed shortly after the completion of this CWP. EKPC provided TCRECC 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.

The preliminary estimate for RUS Code 603, sectionalizing equipment, is \$340,800 for the CWP period. This is based on the 18 month historical spending on sectionalizing equipment. A new sectionalizing study will be commenced shortly after the completion of this CWP, and the cost and equipment updates will be further detailed.

## **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.

Exhibit H itemizes the location of the new regulators, and TCRECC is encouraged to add the regulators only as system problems are field measured and verified. The cost estimate for voltage regulators is \$276,000 over the three year CWP period (average annual cost of \$92,000).

## **H. Pole Replacements**

The physical condition of TCRECC's electric plant is satisfactory according to work order inspections by Patterson & Dewar Engineers, Inc. Tremendous 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.

Taylor County's distribution system consists of approximately 53,200 wood poles system wide (3,131 miles of overhead line at approximately 17 poles per mile average). RUS recommends an annual inspection of at least 10 percent of a system's total poles. Taylor County should therefore have a pole inspection program that includes approximately 5,320 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 1,341 pole change-outs for a total cost of \$1,785,318 for the CWP period. The average cost per pole is approximately \$1,331.

## **I. Other Distribution Items**

TCRECC has approximately 98 miles of old 1-phase copper lines remaining. Since 1994, TCRECC set the objective of replacing all the existing old 1-phase copper lines. Exhibit K summarizes the locations of the line replacement.

A total of \$450,000 has been allocated in this CWP under code 608 for the old copper conductor change-out. This represents approximately 15 miles of line.

Also in Exhibit K is a project for the Forest Hills subdivision underground primary rehabilitation. The cable will be treated with the CableCure procedure. Where this is unsuccessful, the cable will be replaced with 1/0 aluminum underground. The projected cost for this project is \$250,000, and it is listed under code 608.

## CONCLUSION

The recommendations set forth in this construction work plan will enable Taylor County Rural Electric Cooperative Corporation to serve the projected 2013-2014 peak winter conditions. The construction recommendations are in accordance with RUS prescribed guidelines and other economic criteria established by TCRECC's Long Range System Study, and related power supply studies. Any questions or comments regarding this report should be directed to the engineering staff of Taylor County RECC or Patterson & Dewar Engineers, Inc.





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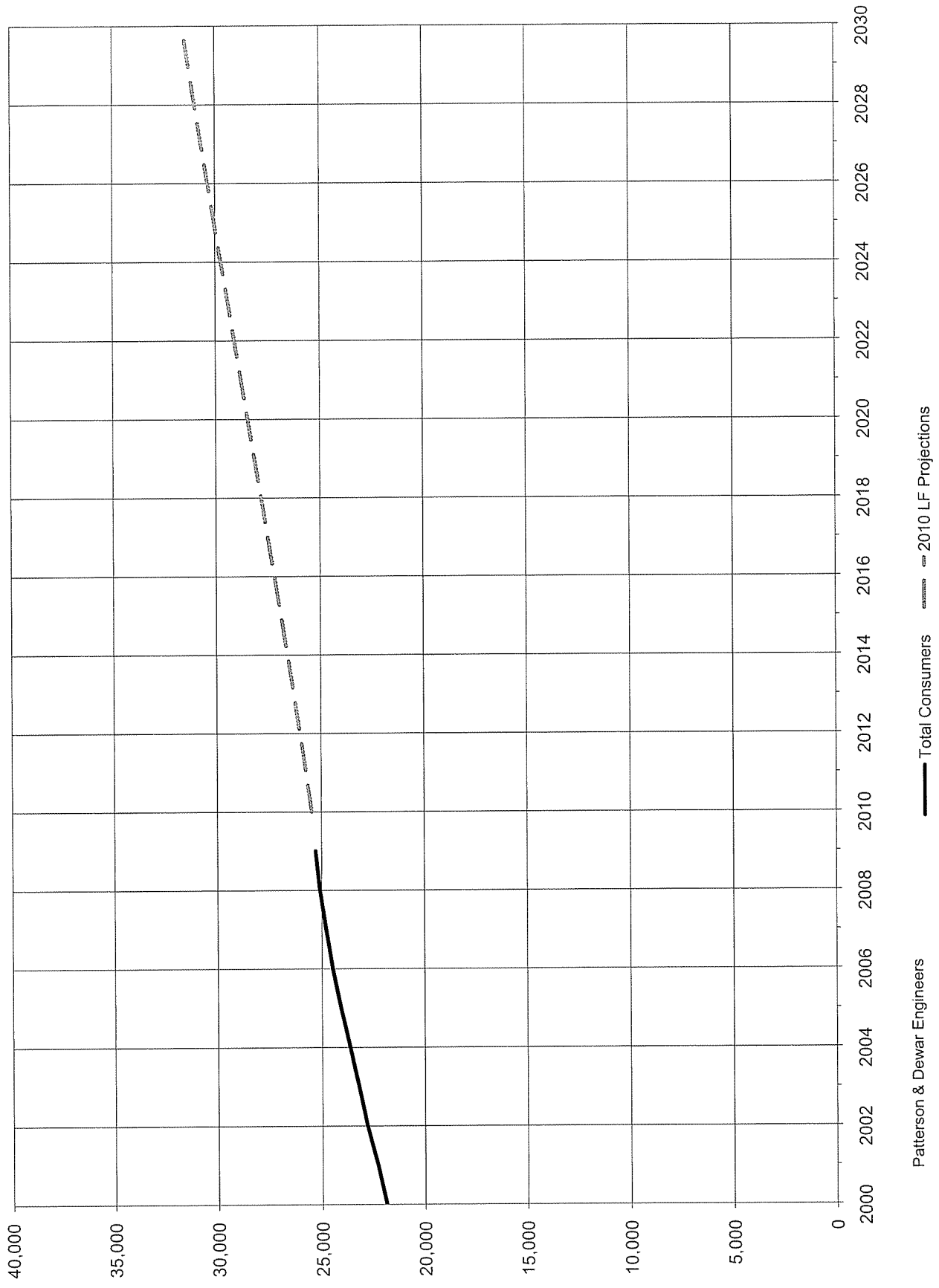
**TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION**  
**Kentucky 23 Taylor**  
**Campbellsville, Kentucky**

**SYSTEM STATISTICAL DATA \***

Year	Total Consumers		kWh per Consumer Residential (Monthly Average)		Net Distribution Plant (millions of dollars)		Annual System Losses Total System		Annual System Losses Distribution Only +		Annual Load Factor Total System		Annual Load Factor Distribution Only +		Total Non-Coincident Peak Demand			
	Actual	Projected	Actual	Projected	Actual	Projected**	Actual	Projected	Actual	Projected	Actual	Projected	Actual	Projected	Historical Peak Demand	Summer Extreme 20%	Winter Normal Weather	Winter Extreme 10%
2000	21,895	1,058	37.27	6.86%	6.86%	37.27	37.27	46.2%	46.2%	46.2%	46.2%	94,800	120,964	150,030	164,121			
2001	22,317	1,130	39.49	4.92%	4.92%	39.49	39.49	46.7%	46.7%	46.7%	46.7%	114,800	121,670	150,470	165,080			
2002	22,827	1,111	41.33	5.74%	5.74%	41.33	41.33	51.3%	51.3%	51.3%	51.3%	110,400	122,747	152,550	166,942			
2003	23,231	1,132	43.23	4.71%	4.71%	43.23	43.23	45.5%	45.5%	45.5%	45.5%	128,100	129,040	160,720	175,919			
2004	23,646	1,114	45.66	4.72%	4.72%	45.66	45.66	48.2%	48.2%	48.2%	48.2%	127,400	130,590	162,860	178,226			
2005	24,089	1,140	48.08	5.37%	5.37%	48.08	48.08	48.7%	48.7%	48.7%	48.7%	127,565	133,480	166,020	181,555			
2006	24,483	1,114	50.40	4.88%	4.88%	50.40	50.40	48.9%	48.9%	48.9%	48.9%	123,047	135,350	168,620	184,324			
2007	24,792	1,151	56.39	5.37%	5.37%	56.39	56.39	47.2%	47.2%	47.2%	47.2%	137,928	136,780	170,330	186,203			
2008	25,078	1,130	60.58	5.96%	5.96%	60.58	60.58	44.3%	44.3%	44.3%	44.3%	141,570	138,449	172,490	188,532			
2009	25,285	1,144	62.23	2.54%	2.54%	62.23	62.23	39.7%	39.7%	39.7%	39.7%	154,562	139,779	174,130	190,339			
2010																		
2011	25,456	1,152	64.79	5.40%	5.40%	64.79	64.79	44.3%	44.3%	44.3%	44.3%	135,154	141,778	176,730	193,108			
2012	25,727	1,153	67.55	5.40%	5.40%	67.55	67.55	44.4%	44.4%	44.4%	44.4%		143,518	178,980	195,524			
2013	26,008	1,150	70.61	5.40%	5.40%	70.61	70.61	44.2%	44.2%	44.2%	44.2%		145,117	181,110	197,820			
2014	26,298	1,140	73.53	5.40%	5.40%	73.53	73.53	44.2%	44.2%	44.2%	44.2%		146,195	182,350	199,226			
2015	26,595	1,136	77.50	5.40%	5.40%	77.50	77.50	44.1%	44.1%	44.1%	44.1%		148,162	184,760	201,798			
2016	26,898	1,130	81.60	5.40%	5.40%	81.60	81.60	44.1%	44.1%	44.1%	44.1%		149,939	187,090	204,286			
2017	27,205	1,128	85.86	5.40%	5.40%	85.86	85.86	44.1%	44.1%	44.1%	44.1%							
2018	27,517	1,124	89.79	5.40%	5.40%	89.79	89.79	44.1%	44.1%	44.1%	44.1%							
2019	27,832	1,126	93.87	5.40%	5.40%	93.87	93.87	44.1%	44.1%	44.1%	44.1%							
2020	28,148	1,128	98.09	5.40%	5.40%	98.09	98.09	44.1%	44.1%	44.1%	44.1%							
2021	28,467	1,128	102.46	5.40%	5.40%	102.46	102.46	44.4%	44.4%	44.4%	44.4%							
2022	28,784	1,129	106.20	5.40%	5.40%	106.20	106.20	44.2%	44.2%	44.2%	44.2%							
2023	29,101	1,128	110.07	5.40%	5.40%	110.07	110.07	44.2%	44.2%	44.2%	44.2%							
2024	29,417	1,131	114.08	5.40%	5.40%	114.08	114.08	44.2%	44.2%	44.2%	44.2%							
2025	29,733	1,134	118.24	5.40%	5.40%	118.24	118.24	44.3%	44.3%	44.3%	44.3%							
2026	30,046	1,136	122.55	5.40%	5.40%	122.55	122.55	44.2%	44.2%	44.2%	44.2%							
2027	30,359	1,140	127.02	5.40%	5.40%	127.02	127.02	44.2%	44.2%	44.2%	44.2%							
2028	30,669	1,143	131.65	5.40%	5.40%	131.65	131.65	44.3%	44.3%	44.3%	44.3%							
2029	30,975	1,143	136.44	5.40%	5.40%	136.44	136.44	44.2%	44.2%	44.2%	44.2%							
2030	31,273	1,144	141.41	5.40%	5.40%	141.41	141.41	44.2%	44.2%	44.2%	44.2%							
2030	31,564	1,150	147.72	5.40%	5.40%	147.72	147.72	44.2%	44.2%	44.2%	44.2%							

\* Projections are taken from the 2010 Load Forecast  
\*\* Projections are taken from 2011 Long Range System Study.  
+ Excludes the direct served load TGP - Saloma.

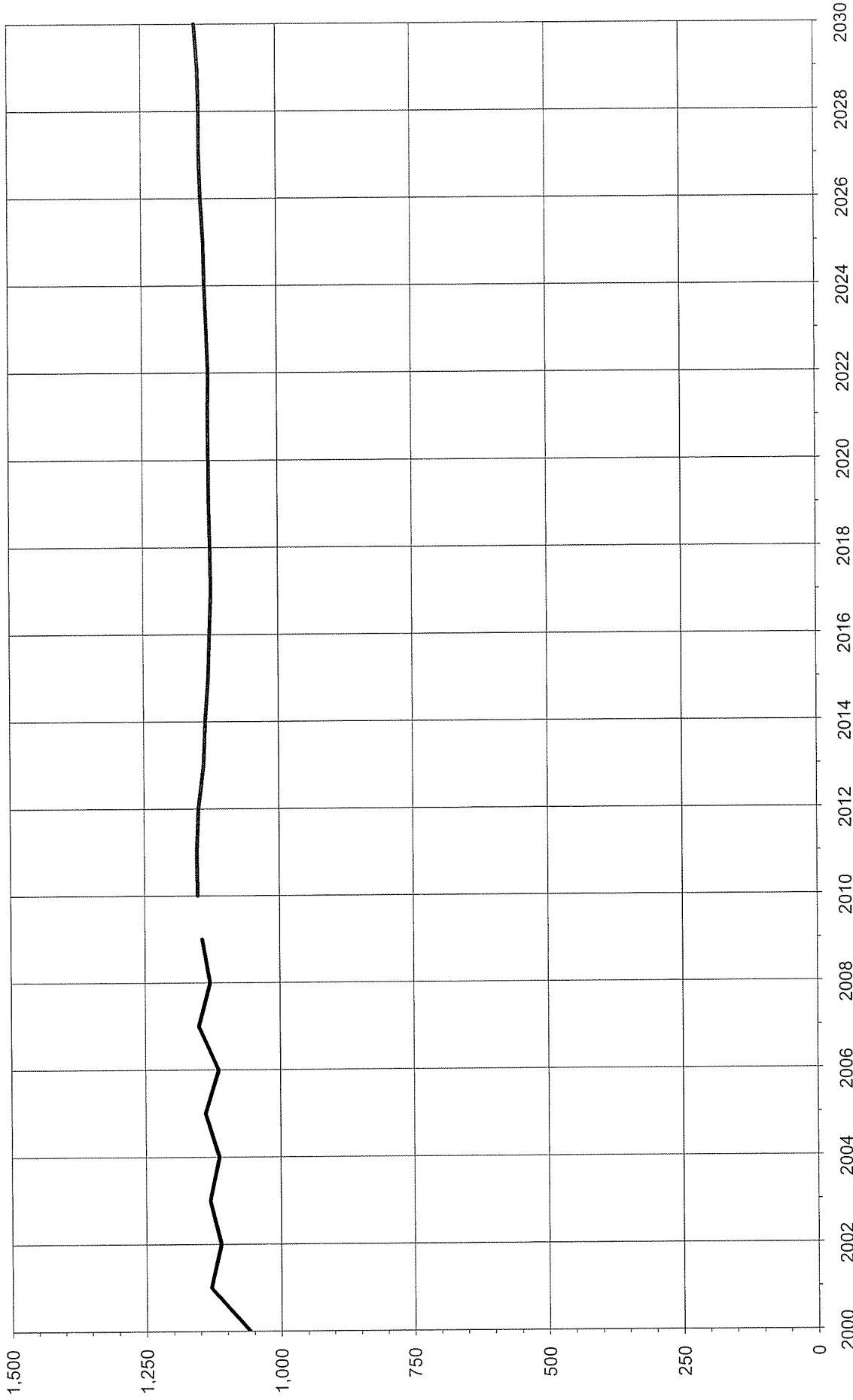
**Taylor County Rural Electric Cooperative Corporation**  
**Kentucky 23 Taylor**  
**Total Consumers**



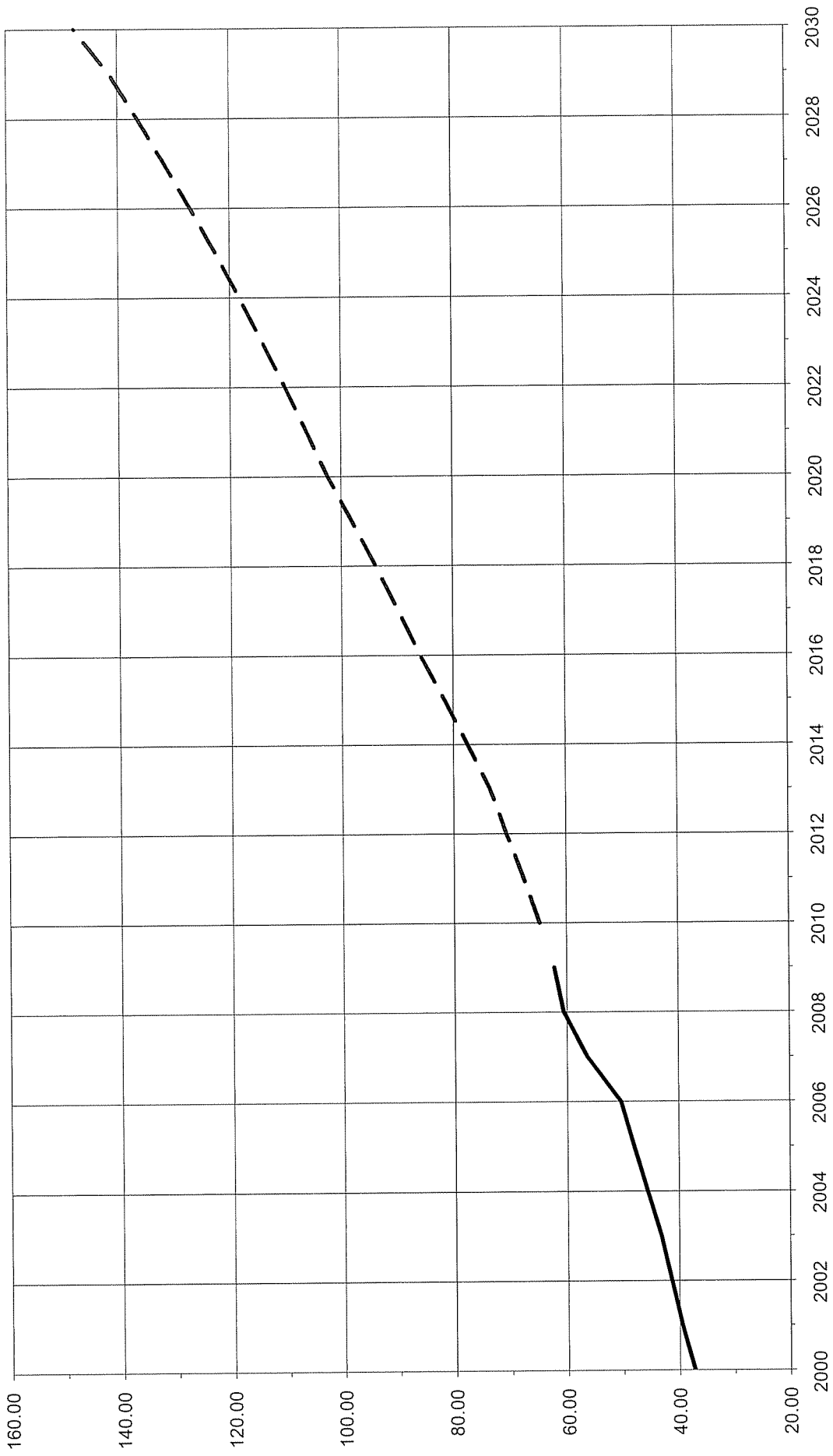
Patterson & Dewar Engineers

— Total Consumers    - - - - 2010 LF Projections

**Taylor County Rural Electric Cooperative Corporation**  
 Kentucky 23 Taylor  
 Residential kWh per Cons. (Monthly Average)



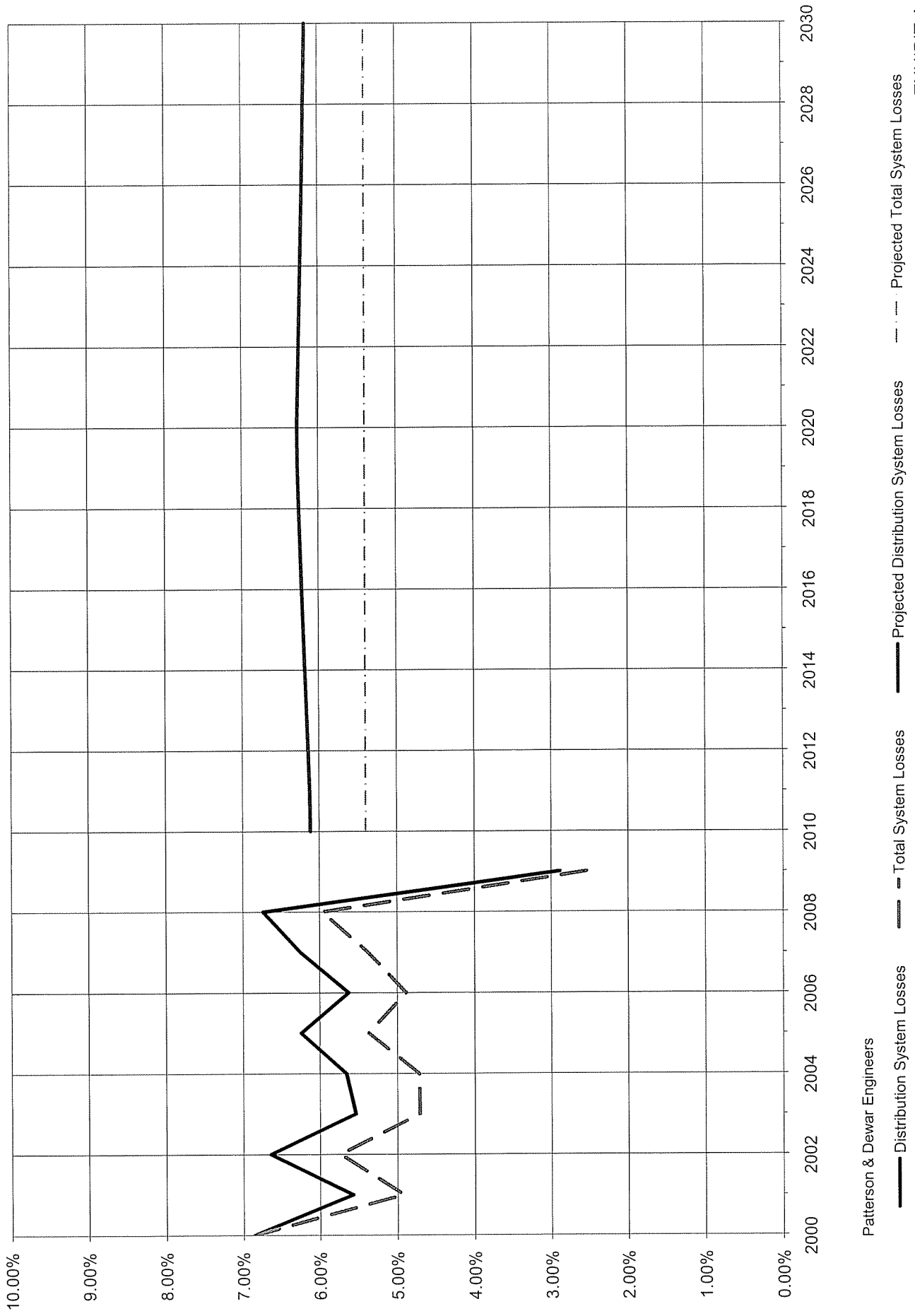
**Taylor County Rural Electric Cooperative Corporation**  
**Kentucky 23 Taylor**  
**Net Distribution Plant Investment**



Patterson & Dewar Engineers

— Net Distribution Plant    - - - 2011 LRSS Projections

**Taylor County Rural Electric Cooperative Corporation**  
**Kentucky 23 Taylor**  
**Annual System Losses**



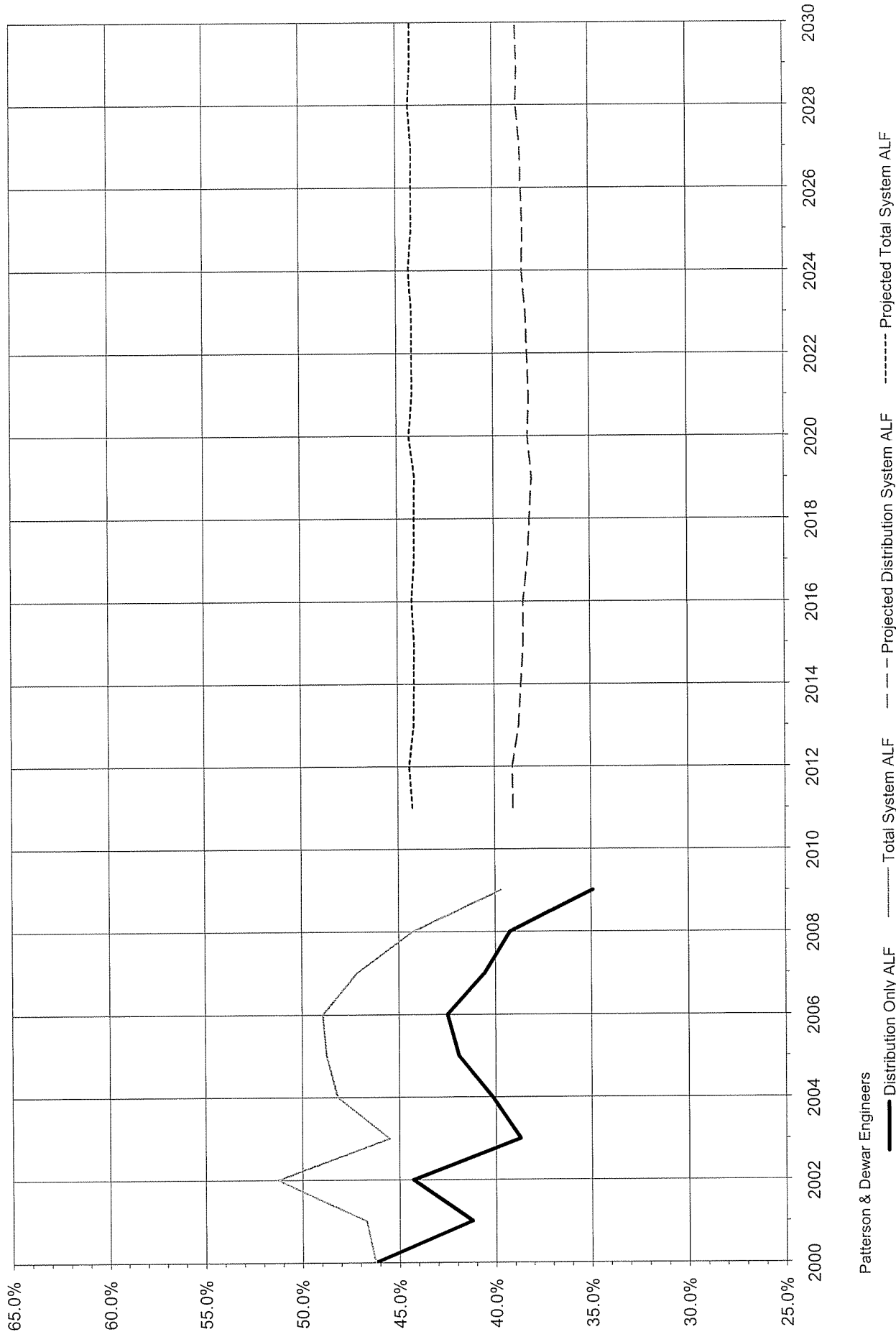
Patterson & Dewar Engineers

Distribution System Losses    
  Total System Losses    
  Projected Total System Losses

# Taylor County Rural Electric Cooperative Corporation

## Kentucky 23 Taylor

### Annual Load Factor

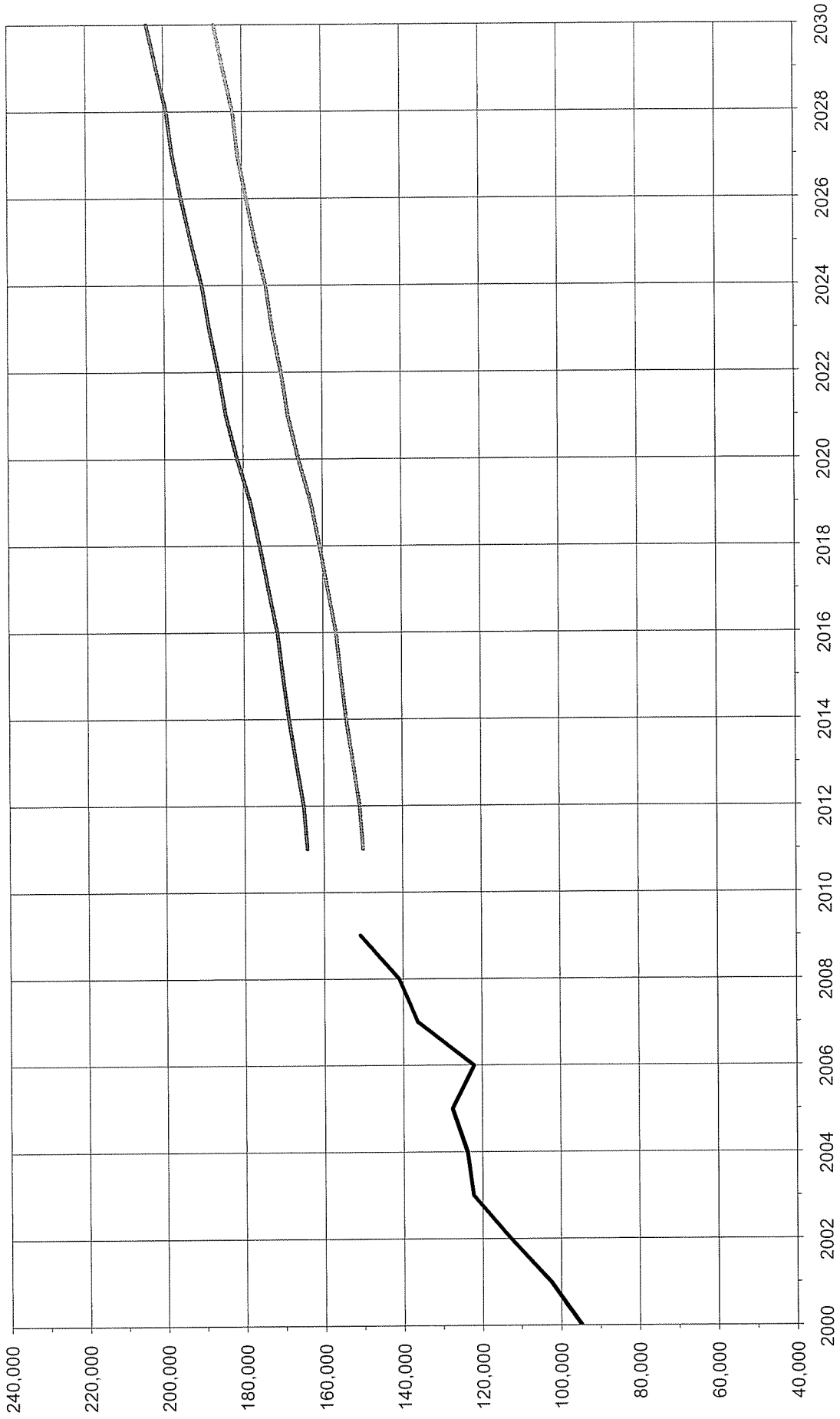




# Taylor County Rural Electric Cooperative Corporation

Kentucky 23 Taylor

Total Non-Coincident Peak kW - Winter



Patterson & Dewar Engineers

— Historical NCP

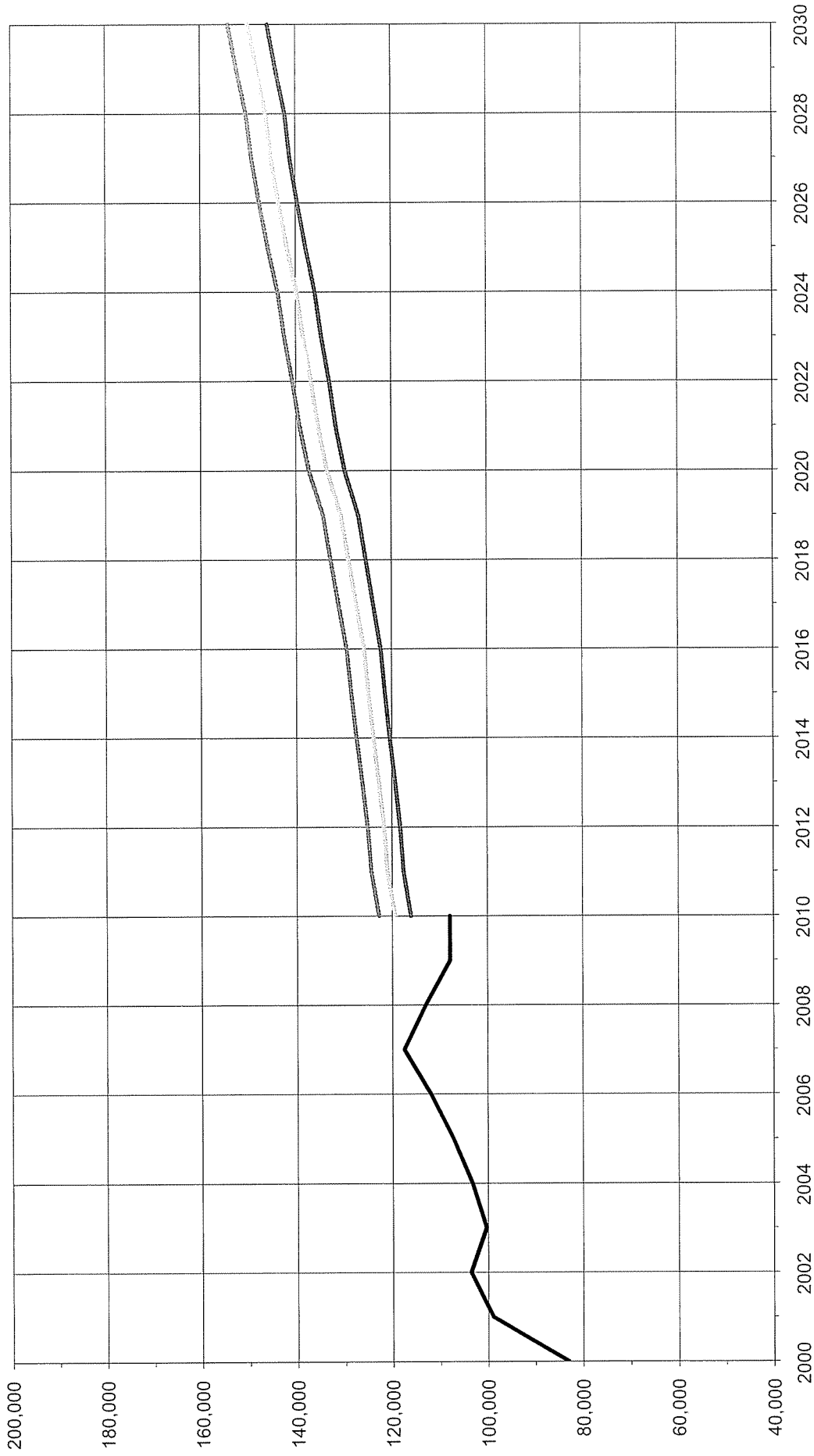
..... 2010 LF Normal

- - - - - 2010 LF 10% Probability

# Taylor County Rural Electric Cooperative Corporation

Kentucky 23 Taylor

Total Non-Coincident Peak kW - Summer



**TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION**  
**Kentucky 23 Taylor**  
**Campbellsville, Kentucky**

**2011-2013 CONSTRUCTION WORK PLAN**  
**Historical Cost Data Ending May 31, 2010**

DISTRIBUTION	<u>18 Months Ending 5/31/10</u>	<u>Estimated For 2011</u>	<u>Estimated For 2012</u>	<u>Estimated For 2013</u>
<b>100 - NEW SERVICES</b>				
101 - Underground				
Number Services	99	66	66	66
Total Lineal Feet	32,042	21,361	21,361	21,361
Average Feet Per Service	324	324	324	324
Total Cost	\$371,013	\$259,710	\$267,498	\$275,550
Average Cost Per Service	\$3,748	\$3,935	\$4,053	\$4,175
102 - Overhead				
Number Services	484	323	323	323
Total Lineal Feet	120,751	80,584	80,584	80,584
Average Feet Per Service	249	249	249	249
Total Cost	\$1,067,962	\$748,391	\$771,001	\$794,257
Average Cost Per Service	\$2,207	\$2,317	\$2,387	\$2,459

**200 - NEW CONSTRUCTION AND TIE LINES - (none)**

**300 - LINE CONVERSIONS & CHANGES**

RUS Code	Construction Type	Total Cost	Mileage	Cost Per Mile
301.10	3ø 1/0 ACSR	\$64,632	1.40	\$46,166
303.17	3ø 1/0 ACSR	\$71,172	1.69	\$42,114
305.04	3ø 1/0 ACSR	\$107,419	2.41	\$44,572
305.07	3ø 1/0 ACSR	\$171,078	3.74	\$45,743
308.02	3ø 1/0 ACSR	\$98,402	2.33	\$42,233
308.03	3ø 1/0 ACSR	\$76,676	1.58	\$48,529
309.02	3ø 1/0 ACSR	\$115,314	2.94	\$39,222
	Conversion to 3ø 1/0 ACSR Average =			\$43,797
301.09	3ø 336 ACSR	\$71,589	0.71	\$100,830
312.01	3ø 336 ACSR	\$56,821	1.15	\$49,410
307.02	3ø 336 ACSR	\$254,217	3.32	\$76,571
313.01	3ø 336 ACSR	\$49,952	0.58	\$86,124
	Conversion to 3ø 336 ACSR Average =			\$75,101

**TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION**  
 Kentucky 23 Taylor  
 Campbellsville, Kentucky

**2011-2013 CONSTRUCTION WORK PLAN**  
 Historical Cost Data Ending May 31, 2010

DISTRIBUTION	<u>18 Months Ending 5/31/10</u>	<u>Estimated For 2011</u>	<u>Estimated For 2012</u>	<u>Estimated For 2013</u>
<b>600 - MISCELLANEOUS DISTRIBUTION EQUIPMENT</b>				
601 - Transformers and Meters				
Underground				
Number of Transformers	49	33	33	33
Total Cost of Transformers	\$108,821	\$76,956	\$79,266	\$81,642
Average Cost of Trans.	\$2,221	\$2,332	\$2,402	\$2,474
Overhead				
Number of Transformers	614	409	409	409
Total Cost of Transformers	\$523,856	\$366,464	\$377,507	\$388,959
Average Cost of Trans.	\$853	\$896	\$923	\$951
Number of Meters	702	468	468	468
Total Cost of Meters	\$121,125	\$84,708	\$87,048	\$89,856
Average Cost of Meters	\$173	\$181	\$186	\$192
602 - Service Wires for Increased Capacity				
Number Work Orders	66	44	44	44
Total Cost	\$38,280	\$26,796	\$27,588	\$28,424
Average Cost	\$580	\$609	\$627	\$646
603 - Sectionalizing Equipment				
Number Work Orders	36	24	24	24
Total Cost	\$157,500	\$110,256	\$113,568	\$116,976
Average Cost	\$4,375	\$4,594	\$4,732	\$4,874
604 - Line Regulators				
Number Work Orders	0			
Total Cost	\$0	See Exh H	See Exh H	See Exh H
Average Cost	\$0			
605 - Capacitors				
Number Work Orders	0			
Total Cost	\$0	See Exh I	See Exh I	See Exh I
Average Cost	\$0			

TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION  
Kentucky 23 Taylor  
Campbellsville, Kentucky

**2011-2013 CONSTRUCTION WORK PLAN**  
**Historical Cost Data Ending May 31, 2010**

	<u>18 Months Ending 5/31/10</u>	<u>Estimated For 2011</u>	<u>Estimated For 2012</u>	<u>Estimated For 2013</u>
<b>606 - Pole Replacement</b>				
Number of Poles Replaced	671	447	447	447
Total Cost	\$825,694	\$577,524	\$594,957	\$612,837
Average Cost per Pole	\$1,231	\$1,292	\$1,331	\$1,371
<b>608 - Conductor Replacement</b>				
Number Miles of Line	0			
Total Cost	\$0	See Exh K	See Exh K	See Exh K
Average Cost per Mile	\$0			
<b>700 - OTHER DISTRIBUTION</b>				
<b>701 - Security Lights</b>				
Number Work Orders	296	197	197	197
Total Cost	\$111,443	\$78,012	\$80,376	\$82,740
Average Cost	\$377	\$396	\$408	\$420
<b>702 - SCADA Equipment</b>				
Number of Work Orders				
Total Cost				
Average Cost per Work Order				

**TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION**  
**Kentucky 23 Taylor**  
**Campbellsville, Kentucky**

**2011-2013 CONSTRUCTION WORK PLAN**

**Status of Previous CWP Projects**

Status Legend

COM = Completed      NP = No Progress  
 DEL = Deleted        CPC = Complete Pending Close-out  
 IP = In Progress

Previous CWP Construction Item No.	<u>Line Section Locations</u>	<u>Construction Description</u>	<u>CWP Costs</u>	<u>Actual Cost</u>	<u>% Actual to CWP Costs</u>	<u>Status</u>
<b>New Construction and Tie Lines (Code 200 Items)</b>						
	None					
<b>Line Conversions and Changes (Code 300 Items)</b>						
301.09	08-048 Tap	3ø 4 ACSR - 3ø 336 ACSR	\$44,000	\$71,589	-	NP
301.10	08-164 Tap	1ø 4 ACSR - 3ø 1/0 ACSR	\$31,020	\$64,632	-	NP
301.11	07-108	1ø 4 ACSR - 3ø 1/0 ACSR	\$50,760		-	NP
301.12	-	New Sub - 3ø 477 ACSR	\$60,000	\$6,482	11%	COM
302.01	06-045 & 06-048	1ø 4 ACSR - 3ø 1/0 ACSR	\$90,240		-	COM
303.13	EKPC 69kV T/L ROW	69kV T/L - 477 ACSR DC	\$51,000		-	NP
303.14	22-012	3ø 1/0 ACSR - 3ø 336 ACSR	\$71,500	\$56,821	79%	COM
303.15	22-101 -- 22-067	3ø 3/0 ACSR - 3ø 477ACSR (DC)	\$34,000		-	NP
303.16	16-023	1ø 4 ACSR - 2ø 1/0 ACSR	\$17,600		-	COM
303.17	23-011	1ø 4 ACSR - 3ø 1/0 ACSR	\$56,400	\$71,172	126%	COM
304.09	18-010 & 18-019	3ø 3/0 ACSR - 3ø 336 ACSR DC	\$82,000	\$99,456	121%	COM
304.10	11-009	1ø 6 CU - 3ø 1/0 ACSR	\$67,680		-	NP
305.03	07-034 & 07-035	3ø 3/0 ACSR DC - 3ø 477 ACSR DC	\$51,000		-	NP
305.04	06-004 & 06-029	1ø 4 ACSR - 3ø 1/0 ACSR	\$70,500	\$107,419	152%	COM
305.05	07-001	3ø 3/0 ACSR - 3ø 477ACSR	\$89,700		-	COM

**TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION**  
**Kentucky 23 Taylor**  
**Campbellsville, Kentucky**

**2011-2013 CONSTRUCTION WORK PLAN**

**Status of Previous CWP Projects**

<u>Previous CWP Construction Item No.</u>	<u>Line Section Locations</u>	<u>Construction Description</u>	<u>CWP Costs</u>	<u>Actual Cost</u>	<u>% Actual to CWP Costs</u>	<u>Status</u>
305.06	EKPC 69kV T/L ROW	69kV T/L - 477 ACSR DC	\$110,400	\$65,284	59%	COM
305.07	01-013 -- 01-017	1Ø 6 CU & 1Ø 4 ACSR - 3Ø 1/0 ACSR	\$104,340	\$171,078	164%	COM
307.02	03-073 -- 03-034	3Ø 4 ACSR - 3Ø 336 ACSR	\$148,500	\$254,217	171%	COM
308.02	04-019	1Ø & 2Ø 4 ACSR - 3Ø 1/0 ACSR	\$73,320	\$98,402	134%	COM
308.03	09-040	1Ø 4 ACSR - 3Ø 1/0 ACSR	\$50,760	\$76,676	151%	COM
309.02	15-029 -- 15-078	1Ø 4 ACSR - 3Ø 1/0 ACSR	\$93,060	\$115,314	124%	COM
311.05	22-075 & 22-032	3Ø 4 ACSR - 3Ø 336 ACSR	\$88,000		-	COM
312.02	10-048 -- 16-039	1Ø 6 CU & 1Ø 4 ACSR	\$500,500	\$251,354	50%	COM
313.01	08-019 -- 08-940	3Ø 1/0 ACSR - 3Ø 336 ACSR	\$49,500	\$49,952	101%	COM
315.00	-	New Sub - 3Ø 477 ACSR	\$80,000	\$89,851	112%	COM

**New Substations (Code 400 Items)**

None

**Substation Changes and Modifications (Code 500 Items)**

None

TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION  
Kentucky 23 Taylor  
Campbellsville, Kentucky

2011-2013 CONSTRUCTION WORK PLAN

Summary of Distribution Cost Estimates

		Cost Year A 2011	Cost Year B 2012	Cost Year C 2013	Total CWP Costs	
<b>740c REF 100: Line Construction for New Services</b>	=	\$1,008,101	\$1,038,499	\$1,069,807	\$3,116,407	
<b>740c REF 200: New Construction and Tie Lines</b>	=	\$0	\$0	\$0	\$0	
<b>740c REF 300: Conversions and Line Changes</b>	=	\$770,500	\$522,500	\$514,500	\$1,807,500	
<b>740c REF 400: New Substations, Switching Stations, Meter Points, etc.</b>	=	\$0	\$0	\$0	\$0	
<b>740c REF 500: Substation and Meter Point Changes</b>	=	\$0	\$0	\$0	\$0	
<b>740c REF 600: Miscellaneous Distribution Equipment</b>						
<b>1. Code 601</b>	<b>Transformers &amp; Meters</b>	=	\$528,128	\$543,821	\$560,457	\$1,632,406
<b>2. Code 602</b>	<b>Sets of Service Wires For Increased Service Capacity</b>	=	\$26,796	\$27,588	\$28,424	\$82,808
<b>3. Code 603</b>	<b>Sectionalizing Equipment</b>	=	\$110,256	\$113,568	\$116,976	\$340,800
<b>4. Code 604</b>	<b>Line Voltage Regulators</b>	=	\$92,000	\$92,000	\$92,000	\$276,000
<b>5. Code 605</b>	<b>Line Capacitors</b>	=	\$3,000	\$3,000	\$0	\$6,000
<b>6. Code 606</b>	<b>Pole Replacement</b>	=	\$577,524	\$594,957	\$612,837	\$1,785,318
<b>7. Code 608</b>	<b>Aged Conductor Replacement</b>	=	\$150,000	\$400,000	\$150,000	\$700,000
<b>740c REF 700: Other Distribution Items</b>						
<b>Code 701 -</b>	<b>Security Lights</b>	=	\$78,012	\$80,376	\$82,740	\$241,128
<b>Code 705 -</b>	<b>AMR System and Equipment</b>	=	\$0	\$0	\$0	\$0
<b>Total CWP Requirements</b>		=	\$3,344,317	\$3,416,309	\$3,227,741	\$9,988,367



TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION  
 Kentucky 23 Taylor  
 Campbellsville, Kentucky

2011-2013 CONSTRUCTION WORK PLAN

Cost Estimate Breakdown For Loan Application and Financial Forecast  
 (RUS Form 740c Format)

1. DISTRIBUTION

			Total Cons.	Cons. Per Year	Cost Year A 2011	Cost Year B 2012	Cost Year C 2013
a. 740c Ref. Code 100: New Line (Excluding Tie-Lines)							
101	Underground	64,084 total lineal feet	198	66	\$259,710	\$267,498	\$275,550
102	Overhead	241,502 total lineal feet	968	323	\$748,391	\$771,001	\$794,257
<b>CODE 100 SUBTOTALS =</b>					\$1,008,101	\$1,038,499	\$1,069,807
<b>TOTAL LOAN CODE 100 COSTS =</b>					<b>\$3,116,407</b>		

b. 740c Ref Code 200: New Construction and Tie-Lines

(See Exhibit F for further details)

RUS Ref. Nos.	Priority Code	Miles	Existing Construction	Proposed Construction	\$/Mile	Cost Year A 2011	Cost Year B 2012	Cost Year C 2013
None								
<b>CODE 200 SUBTOTALS =</b>						\$0	\$0	\$0
<b>TOTAL LOAN CODE 200 COSTS =</b>						<b>\$0</b>		

c. 740c Ref Code 300: Line Conversions and Changes

(See Exhibit F for further details)

RUS Ref. Nos.	Priority Code	Miles	Existing Construction	Proposed Construction	\$/Mile	Cost Year A 2011	Cost Year B 2012	Cost Year C 2013
300.01	C	2.30	1ø 4 ACSR	3ø 1/0 ACSR	\$55,000			\$126,500
301.01	B	1.00	1ø 4 ACSR	3ø 1/0 ACSR	\$55,000		\$55,000	
302.01	C	1.00	1ø 4 ACSR	3ø 1/0 ACSR	\$55,000			\$55,000
303.01	C	0.30	1ø 4 ACSR	2ø 1/0 ACSR	\$40,000			\$12,000
303.02	C	0.40	1ø 4 ACSR	2ø 1/0 ACSR	\$40,000			\$16,000
304.01	A	1.25	3ø 1/0 ACSR	3ø 336 ACSR	\$85,000	\$106,250		
305.01	A	3.50	3ø 1/0 ACSR	3ø 336 ACSR	\$85,000	\$297,500		
305.02	A	1.80	1ø 4 ACSR	3ø 1/0 ACSR	\$55,000	\$99,000		
308.01	B	8.50	1ø 4 ACSR	3ø 1/0 ACSR	\$55,000		\$467,500	
308.02	C	1.00	3ø 4 ACSR	3ø 336 ACSR	\$85,000			\$85,000
309.01 *	C	2.60	1ø 4 ACSR	3ø 1/0 ACSR	\$55,000			\$143,000
310.01	A	1.25	3ø 1/0 ACSR	3ø 336 ACSR	\$85,000	\$106,250		
310.02	C	1.40	1ø 4 ACSR	3ø 1/0 ACSR	\$55,000			\$77,000
313.01	A	1.90	3ø 1/0 ACSR	3ø 336 ACSR	\$85,000	\$161,500		
<b>CODE 300 SUBTOTALS =</b>						\$770,500	\$522,500	\$514,500
<b>TOTAL LOAN CODE 300 COSTS =</b>						<b>\$1,807,500</b>		

2011-2013 CONSTRUCTION WORK PLAN

Cost Estimate Breakdown For Loan Application and Financial Forecast  
(RUS Form 740c Format)

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

(See Exhibit G for further details)

RUS Ref. Nos.	Priority Code	Substation	Cost Year A 2011	Cost Year B 2012	Cost Year C 2013
	None				
<b>CODE 400 SUBTOTALS =</b>			\$0	\$0	\$0
<b>TOTAL LOAN CODE 400 COSTS =</b>			\$0		

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

(See Exhibit G for further details)

RUS Ref. Nos.	Priority Code	Substation	Cost Year A 2011	Cost Year B 2012	Cost Year C 2013
	None				
<b>CODE 500 SUBTOTALS =</b>			\$0	\$0	\$0
<b>TOTAL LOAN CODE 500 COSTS =</b>			\$0		

f. 740c Ref Code 600: Miscellaneous Distribution Equipment

RUS Ref. Nos.	Miscellaneous Equipment	Total Units	Units per Year	Costs Year A 2011	Cost Year B 2012	Cost Year C 2013	LOAN TOTAL
601	Underground Transformers	98	33	\$76,956	\$79,266	\$81,642	\$237,864
	Overhead Transformers	1,228	409	\$366,464	\$377,507	\$388,959	\$1,132,930
	AMR Meters	1,404	468	\$84,708	\$87,048	\$89,856	\$261,612
<b>Total Transformers &amp; Meters =</b>				\$528,128	\$543,821	\$560,457	\$1,632,406
602	Service Wires for Increased Capacity	186	62	\$26,796	\$27,588	\$28,424	\$82,808
603	Sectionalizing Equipment (See Exhibit J for breakdown) †			\$110,256	\$113,568	\$116,976	\$340,800
604	Line Regulators (See Exhibit H for Breakdown)			\$92,000	\$92,000	\$92,000	\$276,000
605	Line Capacitors (See Exhibit I for Breakdown)			\$3,000	\$3,000	\$0	\$6,000
606	Pole Replacement	1,342	447	\$577,524	\$594,957	\$612,837	\$1,785,318
608	Aged Conductor Replacement (See Exhibit K)			\$150,000	\$400,000	\$150,000	\$700,000
<b>CODE 600 Totals =</b>				\$1,487,704	\$1,774,934	\$1,560,694	\$4,823,332

g. 740c Ref Code 700: Other Distribution

701	Security Lights	792	264	\$78,012	\$80,376	\$82,740	\$241,128
702	SCADA			\$0	\$0	\$0	\$0
705	AMR System and Equipment			\$0	\$0	\$0	\$0
<b>CODE 700 Totals =</b>				\$78,012	\$80,376	\$82,740	\$241,128
<b>Total Distribution =</b>				\$3,344,317	\$3,416,309	\$3,227,741	\$9,988,367

**2011-2013 CONSTRUCTION WORK PLAN**

**Cost Estimate Breakdown For Loan Application and Financial Forecast  
(RUS Form 740c Format)**

**BREAKDOWN OF COST ESTIMATES FOR FINANCIAL FORECAST**

		<u>Costs Year A</u> <u>2011</u>	<u>Cost Year B</u> <u>2012</u>	<u>Cost Year C</u> <u>2013</u>	<u>Totals</u>
<b>NEW CONSTRUCTION</b>					
100	Line Extensions	\$1,008,101	\$1,038,499	\$1,069,807	\$3,116,407
601	Transformers & Meters	\$528,128	\$543,821	\$560,457	\$1,632,406
701	Security Lights	\$78,012	\$80,376	\$82,740	\$241,128
<b>Total New Construction =</b>		<u>\$1,614,241</u>	<u>\$1,662,696</u>	<u>\$1,713,004</u>	<u>\$4,989,941</u> 50.0%
<b>SYSTEM IMPROVEMENTS</b>					
200	New Tie Lines	\$0	\$0	\$0	\$0
300	Line Conversions and Changes	\$770,500	\$522,500	\$514,500	\$1,807,500
400	New Substations	\$0	\$0	\$0	\$0
500	Substation Changes	\$0	\$0	\$0	\$0
602	Service Wires for Increased Capacity	\$26,796	\$27,588	\$28,424	\$82,808
603	Sectionalizing Equipment	\$110,256	\$113,568	\$116,976	\$340,800
604	Line Regulators	\$92,000	\$92,000	\$92,000	\$276,000
605	Line Capacitors	\$3,000	\$3,000	\$0	\$6,000
606	Poles Replacement	\$577,524	\$594,957	\$612,837	\$1,785,318
608	Aged Conductor Replacement	\$150,000	\$400,000	\$150,000	\$700,000
702	SCADA	\$0	\$0	\$0	\$0
705	AMR System and Equipment	\$0	\$0	\$0	\$0
<b>Total System Improvements =</b>		<u>\$1,730,076</u>	<u>\$1,753,613</u>	<u>\$1,514,737</u>	<u>\$4,998,426</u> 50.0%
<b>Total CWP Costs Subject to Loan Funds =</b>		<u>\$3,344,317</u>	<u>\$3,416,309</u>	<u>\$3,227,741</u>	<u><u>\$9,988,367</u></u>

**TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION**  
 Kentucky 23 Taylor  
 Campbellsville, Kentucky

**2011-2013 CONSTRUCTION WORK PLAN**  
**Distribution Line Construction Recommendations and Cost Estimates**

DC - Double circuit construction  
 \* - Construction items carried-over from previous work plan.

Construction Justification Codes

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

RUS Ref. No.	Priority Code	Line Sections	Miles	Existing Construction	Proposed Construction	\$/Mile	Cost Year A 2011	Cost Year B 2012	Cost Year C 2013	Construction Justification
<b>Substation 0 - Campbellsville</b>										
300.01	C	08-089 to 07-058	2.3	1ø 4 ACSR	3ø 1/0 ACSR	\$55,000	\$0	\$0	\$126,500	1, 3, 4
Subtotals =							\$0	\$0	\$126,500	
<b>Substation 1 - Mile Lane</b>										
301.01	B	03-013	1.0	1ø 4 ACSR	3ø 1/0 ACSR	\$55,000	\$0	\$55,000	\$0	1, 3, 4
Subtotals =							\$0	\$55,000	\$0	
<b>Substation 2 - Greensburg</b>										
302.01	C	07-020	1.0	1ø 4 ACSR	3ø 1/0 ACSR	\$55,000	\$0	\$0	\$55,000	1, 3, 4
Subtotals =							\$0	\$0	\$55,000	
<b>Substation 3 - Summersville</b>										
303.01	C	01-014	0.3	1ø 4 ACSR	2ø 1/0 ACSR	\$40,000	\$0	\$0	\$12,000	1, 4
303.02	C	01-021	0.4	1ø 4 ACSR	2ø 1/0 ACSR	\$40,000	\$0	\$0	\$16,000	1, 4
Subtotals =							\$0	\$0	\$28,000	
<b>Substation 4 - McKinney Corner</b>										
304.01	A	14-042	1.25	3ø 1/0 ACSR	3ø 336 ACSR	\$85,000	\$106,250	\$0	\$0	2
Subtotals =							\$106,250	\$0	\$0	

**2011-2013 CONSTRUCTION WORK PLAN**  
**Distribution Line Construction Recommendations and Cost Estimates**

RUS Ref. No.	Priority Code	Line Sections	Miles	Existing Construction	Proposed Construction	\$/Mile	Cost Year A 2011	Cost Year B 2012	Cost Year C 2013	Construction Justification
<b>Substation 5 - Coburg</b>										
305.01	A	15-018 to 15-256	3.5	3ø 1/0 ACSR	3ø 336 ACSR	\$85,000	\$297,500			3, 5
305.02	A	15-057 to 15-054	1.8	1ø 4 ACSR	3ø 1/0 ACSR	\$55,000	\$99,000			1, 4, 5
						Subtotals =	\$396,500	\$0	\$0	
<b>Substation 8 - Bass</b>										
308.01	B	10-134 to 05-005; 05-003	8.5	1ø 4 ACSR	3ø 1/0 ACSR	\$55,000		\$467,500		1, 3, 4, 5
308.02	C	10-128	1.0	3ø 4 ACSR	3ø 336 ACSR	\$85,000		\$85,000		5, 10
						Subtotals =	\$0	\$467,500	\$85,000	
<b>Substation 9 - Phil</b>										
309.01 *	C	11-009 to 11-011	2.6	1ø 4 ACSR	3ø 1/0 ACSR	\$55,000		\$143,000		1, 3, 4
						Subtotals =	\$0	\$0	\$143,000	
<b>Substation 10 - West Columbia</b>										
310.01	A	22-034 to 22-091	1.25	3ø 1/0 ACSR	3ø 336 ACSR	\$85,000	\$106,250			2
310.02	C	26-008 to 26-017	1.4	1ø 4 ACSR	3ø 1/0 ACSR	\$55,000		\$77,000		1, 3, 4
						Subtotals =	\$106,250	\$0	\$77,000	
<b>Substation 13 - Garlin</b>										
313.01	A	16-027 to 16-025	1.9	3ø 1/0 ACSR	3ø 336 ACSR	\$85,000	\$161,500			2
						Subtotals =	\$161,500	\$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) =							\$770,500	\$522,500	\$514,500	\$1,807,500
Distribution Line Construction Totals =							\$770,500	\$522,500	\$514,500	\$1,807,500

Cost Year A 2011      Cost Year B 2012      Cost Year C 2013      Totals

**TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION**  
Kentucky 23 Taylor  
Campbellsville, Kentucky

**2011-2013 CONSTRUCTION WORK PLAN**  
**Substation and Meter Point Cost Estimates**

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

**POWER SUPPLIER CHANGES RECOMMENDED**

No changes recommended at this time.

**SUBSTATION AND METER POINT CHANGES (Ref. Code 500):**

**POWER SUPPLIER CHANGES RECOMMENDED**

No changes recommended at this time.

TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION  
 Kentucky 23 Taylor  
 Campbellsville, Kentucky

**2011-2013 CONSTRUCTION WORK PLAN  
 Voltage Regulator Recommendations  
 and Cost Estimates**

A - Seasonal Load                      D - Excessive Voltage Drop  
 B - Overloaded                         E - Unneeded  
 C - Improved Circuit Regulation    F - Switching Capacity

NOTE: All regulators are 7.2kV unless otherwise noted

<u>Substation/Circuit</u>	<u>Line Section</u>	<u>Existing</u>	<u>Recommendations</u>	<u>Projected 2013 Load Current - ASI</u>	<u>Remarks</u>
<b>Substation 0 - Campbellsville</b> (None)					
<b>Substation 1 - Mile Lane</b>					
Circuit 10-3	03-072	-	Add 3-150a	93a	D
Circuit 10-4	R116 02-022	3-100a	Remove	-	E
<b>Substation 2 - Greensburg</b> (None)					
<b>Substation 3 - Summersville</b>					
Circuit 30-4	06-065	3-150a	Replace with 3-328a	199a	B
	07-009	-	Add 3-150a	104a	D
<b>Substation 4 - McKinney Corner</b>					
Circuit 40-1	13-027	-	Add 3-150a	108a	D
Circuit 40-2	14-191	-	Add 3-100a	55a	D
<b>Substation 5 - Coburg</b>					
Circuit 50-1	15-057	-	Add 3-100a	51a	D
<b>Substation 6 - Columbia</b>					
Circuit 60-2	22-048	3-150a	-	128a	-
<b>Substation 7 - Green River Plaza</b> (None)					
<b>Substation 8 - Bass</b>					
Circuit 80-1	10-131	1-100a	Remove - ASI 308.01	-	E
Circuit 80-2	R101 09-027	3-150a	-	68a	-
Circuit 80-3	04-006	-	Add 3-100a	34a	D
<b>Substation 9 - Phil</b>					
Circuit 90-1	11-021	-	Add 3-328a	258a	D
Circuit 90-3	R115 17-030	3-328a	-	203a	-
Circuit 90-5	R110 18-009	3-150a	-	72a	-
<b>Substation 10 - West Columbia</b>					
Circuit 100-2	27-001	3-150a	-	104a	-
Circuit 100-3	22-091	3-150a	-	75a	-

TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION  
 Kentucky 23 Taylor  
 Campbellsville, Kentucky

**2011-2013 CONSTRUCTION WORK PLAN  
 Voltage Regulator Recommendations  
 and Cost Estimates**

A - Seasonal Load                      D - Excessive Voltage Drop  
 B - Overloaded                         E - Unneeded  
 C - Improved Circuit Regulation    F - Switching Capacity

NOTE: All regulators are 7.2kV unless otherwise noted

<u>Substation/Circuit</u>	<u>Line Section</u>	<u>Existing</u>	<u>Recommendations</u>	<u>Projected 2013 Load Current - ASI</u>	<u>Remarks</u>
<b>Substation 11 - Creston</b>					
Circuit 110-1	10-008	1-100a	Remove - ASI 308.01	62a	E
Circuit 110-3	16-032	-	Add 3-150a	69a	C
Circuit 110-3	17-002	-	Add 1-100a	53a	D
<b>Substation 12 - East Campbellsville</b>					
Circuit 120-1	R109 03-047	3-219a	-	93a	-
<b>Substation 13 - Garlin</b>					
Circuit 130-3	R112 23-045	3-219a	-	189a	-
Circuit 130-5	23-003	-	Add 3-219a	118a	D



TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION  
Kentucky 23 Taylor  
Campbellsville, Kentucky

2011-2013 CONSTRUCTION WORK PLAN  
Voltage Regulator Recommendations  
and Cost Estimates

COST SUMMARY

<u>Regulators</u>	<u>Removed</u>	<u>Added</u>	<u>Surplus</u>	<u>Required</u>
100a	5	10	-	5
150a	3	15	3	12
219a	0	3	-	3
328a	0	6	-	6

\* One additional set of regulators (3-150a) is included in the total to allow for general replacement needs.

5 - 100 Amp Regulators @ \$9,000/each = \$45,000

12 - 150 Amp Regulators @ \$10,000/each = \$120,000

3 - 219 Amp Regulators @ \$11,000/each = \$33,000

6 - 328 Amp Regulators @ \$13,000/each = \$78,000

Total = \$276,000

Total per year (3 year period) = \$92,000

TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION

Kentucky 23 Taylor  
Campbellsville, Kentucky

2011-2013 CONSTRUCTION WORK PLAN  
Capacitor Recommendations and Cost Estimates  
RUS Reference Code 605

Substation	Circuit	Line Section	Existing Bank Size	Recommendations
0. Campbellsville	01-2	08-044	300	-
	01-3	08-074	300	-
	01-4	08-051	300	-
	01-5	08-064	300	-
1. Mile Lane	10-1	03-063	300	-
	10-3	03-032	300	-
	10-4	02-018	300	-
	10-6	03-014	150	-
2. Greensburg	20-3	07-052	300	-
	20-4	14-006	300	-
	20-5	14-004	300	-
		14-428	150	-
	20-6	07-097	150	-
3. Summersville	30-1	07-010	150	-
		02-014	150	-
	30-2	06-012	150	-
	30-3	06-021	150	-
	30-4	06-060	150	-
4. McKinney Corner	40-1	13-012	300	-
	40-2	14-057	150	-
	40-3	14-040	150	-
5. Coburg	50-1	15-027	150	-
	50-2	15-192	150	-
	50-3	15-007	-	Add 300 kVAR Switched
	50-4	15-037	150	-
6. Columbia	60-2	23-037	300	-
		28-011	300	-
	60-3	22-021	300	-
	60-5	22-051	300	-
		27-015	-	Add 300 kVAR Switched
	60-6	22-018	300	-
7. Green River Plaza	70-1	08-058	300	-
	70-3	08-148	300	-
		08-129	300	-

**TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION**

Kentucky 23 Taylor  
Campbellsville, Kentucky

**2011-2013 CONSTRUCTION WORK PLAN  
Capacitor Recommendations and Cost Estimates  
RUS Reference Code 605**

<b>Substation</b>	<b>Circuit</b>	<b>Line Section</b>	<b>Existing Bank Size</b>	<b>Recommendations</b>
8. Bass	80-2	09-017	150	-
	80-3	04-022	150	-
		09-007	150	-
9. Phil	90-1	11-019	300	-
		11-031	600	-
	90-2	18-131	300	-
	90-3	17-011	300	-
	90-5	18-006	300	-
		12-005	600	-
10. West Columbia	100-2	22-058	300	-
	100-3	22-032	300	-
11. Creston	110-1	10-044	300	-
		10-019	300	-
	110-2	10-038	300	-
	110-3	10-126	300	-
		16-003	300	-
12. East Campbellsville	120-1	08-018	300	-
		03-043	600	-
	120-3	08-045	300	-
13. Garlin	130-3	16-027	300	-
	130-4	23-002	300	-
		23-019	300	-

**TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION**

Kentucky 23 Taylor  
Campbellsville, Kentucky

**2011-2013 CONSTRUCTION WORK PLAN  
Capacitor Recommendations and Cost Estimates  
RUS Reference Code 605**

**SUMMARY AND COST ESTIMATES**

<u>7.2kV Capacitors</u>	<u>Totals</u>
150 kVAR Banks Installed	0
150 kVAR Banks Removed	0
150 kVAR Banks Required	0
300 kVAR Banks Installed	2
300 kVAR Banks Removed	0
300 kVAR Banks Required	2

2 banks installed x \$3,000 per bank = \$6,000

Note : Capacitors are provided by EKPC.  
\$3,000 per bank is included to cover the cost of cutouts,  
arresters, crossarms, switches, and the labor to install.

**TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION**

Kentucky 23 Taylor  
Campbellsville, Kentucky

**2011-2013 CONSTRUCTION WORK PLAN**  
Sectionalizing Summary and Cost Estimates

TCRECC and P&D will begin a new sectionalizing study shortly after the completion of this CWP.

For the purpose of this work plan, it is estimated that \$340,800 will be needed during the CWP three year period for sectionalizing. This figure is based on the 18 month historical data provided in Exhibit B.

2011	=	\$110,256
2012	=	\$113,568
2013	=	<u>\$116,976</u>
		\$340,800

**TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION**  
**Kentucky 23 Taylor**  
**Campbellsville, Kentucky**

**2011-2013 CONSTRUCTION WORK PLAN**

**Conductor Replacement (RUS Code 608)**

Part 1 - Overhead Copper Conductors

- PLAN:**
1. Replace all single phase (1ph) copper lines that are causing consistent line outages.
  2. Two and three phase (2ph & 3ph) copper lines are to be replaced as needed due to feeder loading conditions.
  3. Lines will be replaced based on circuit reliability and loading conditions.
  4. New single phase lines are built either 4 ACSR or 1/0 ACSR depending on likelihood that line will require three-phase construction in the near future.
  5. Small amounts of old 4 ACSR remain on the system and will be replaced as needed.
  6. Taylor County RECC's goal is to replace approximately 5 miles per year.

**Total Miles of Copper Conductor on System**

<u>No.</u>	<u>Substation</u>	<u>1ph Miles</u>	<u>2ph Miles</u>	<u>3ph Miles</u>
0	Campbellsville	2.0	0.0	1.1
1	Mile Lane	2.8	0.0	0.0
2	Greensburg	8.6	0.0	0.0
3	Summersville	12.2	0.0	0.0
4	McKinney Corner	8.3	0.0	0.0
5	Coburg	8.3	0.0	0.0
6	Columbia	12.2	0.0	0.0
7	Green River Plaza	0.1	0.0	0.0
8	Bass	2.2	0.0	3.5
9	Phil	10.0	0.0	0.0
10	West Columbia	8.1	0.0	0.0
11	Creston	12.6	0.0	1.5
12	East Campbellsville	1.9	0.2	4.4
13	Garlin	8.6	0.0	0.0
Totals =		97.9	0.2	10.5
Previous CWP Totals =		112.9	0.2	11.1
Difference =		15.0	0.0	0.6

Approximately 15.6 miles of copper line were replaced with ACSR during the last work plan period.

**Cost Estimate**

<u>Miles</u>	<u>Construction Type</u>	<u>Cost / Mile</u>	<u>Extended Costs</u>
15.0	1ph Cu to 1ph 4 ACSR or 1/0	\$30,000	\$450,000

**TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION**  
**Kentucky 23 Taylor**  
**Campbellsville, Kentucky**

**2011-2013 CONSTRUCTION WORK PLAN**

**Conductor Replacement**

Part 2 - Underground Cable - Forest Hills Subdivision (Code 608)

The underground primary cable which serves the Forest Hills subdivision has been the source of some reliability problems. The cable has been in place for many years and is in need of rehabilitation or replacement.

The existing cable is #2 underground primary. If any sections cannot be successfully treated with the CableCure procedure, they will be replaced with 1/0 aluminum underground cable.

Substation	Line Sections	Length	Estimated Cost	Year
Green River Plaza	08-009, 08-140, 08-141	1.0 mile	\$250,000	2012

**TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION**  
Kentucky 23 Taylor  
Campbellsville, Kentucky

**2011-2013 CONSTRUCTION WORK PLAN**

**SYSTEM DESIGN GUIDELINES**

Each of the criteria items listed below was reviewed and concurred by the engineering staff at Taylor County RECC and the RUS General Field Representative.

Construction proposed in this construction work plan is required to meet the following minimum standards of adequacy for voltages, thermal loading, safety, and reliability on the system.

- 1) The maximum voltage drop from the substation on primary distribution lines is not to exceed 8 volts unregulated, 16 volts with one set of line voltage regulators, and 24 volts with two sets of line voltage regulators. Ordinarily, lines will be limited to one bank of line regulators.
- 2) The following equipment is not to be thermally loaded by more than the percentage shown on the nameplate.

Power Transformers:	95% summer rating / 95% winter rating
Voltage Regulators:	100% at 10% buck or boost; 160% at 5% boost or buck.
Oil Circuit Reclosers:	100%
Line Fuses:	80%
- 3) Primary conductors are considered for replacement when loaded to 65% of the thermal rating. Major tie lines between substations can be loaded to 100% during emergency situations.
- 4) Poles and crossarms are to be replaced as soon as practicable if found to be physically deteriorated by inspection.
- 5) Conductors are to be replaced if ACSR is found to have a rusted core or if copper has become brittle and dangerous.
- 6) Primary distribution lines are to be rebuilt if they are found to be unsafe or in violation (when constructed) of the National Electrical Safety Code or other applicable code clearances.
- 7) New lines and line conversions are to be built according to the standard primary voltage levels as recommended in the Long Range System Study.
- 8) New primary conductor sizes are to be determined on a case by case basis using the Economic Conductor sizing computer program. A minimum of 1/0 ACSR is to be used on main lines, and a minimum of 4 ACSR is to be used on tap lines.
- 9) 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.
- 10) All new distribution lines are to be designed and built according to RUS standard construction specifications and guidelines.
- 11) A single-phase tap will be considered for multi-phasing if any of the following conditions are present:
  - a) Serves more than 60 meters,
  - b) Load current over 35 – 50 amps,
  - c) Serves an area that is growing.



According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0572-0025. The time required to complete this information collection 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 this collection of information.

UNITED STATES DEPARTMENT OF AGRICULTURE RURAL UTILITIES SERVICE  <b>REVIEW RATING SUMMARY</b>		BORROWER DESIGNATION  KY 23 TAYLOR						
		DATE PREPARED  October 6, 2009						
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						
<b>PART I. TRANSMISSION and DISTRIBUTION FACILITIES</b>								
<b>1. Substations (Transmission and Distribution)</b>		<i>(Rating)</i>	<b>4. Distribution - Underground Cable</b>					
a. Safety, Clearance, Code Compliance		NA	a. Grounding and Corrosion Control					
b. Physical Conditions: Structure, Major Equipment, Appearance		NA	b. Surface Grading, Appearance					
c. Inspection Records - Each Substation		NA	c. Riser Pole: Hazards, Guying, Condition					
d. Oil Spill Prevention		NA						
<b>2. Transmission Lines</b>			<b>5. Distribution Line Equipment: Conditions and Records</b>					
a. Right-of-Way: Clearing, Erosion, Appearance, Intrusions		NA	a. Voltage Regulators					
b. Physical Condition: Structure, Conductor, Guying		NA	b. Sectionalizing Equipment					
c. Inspection Program and Records		NA	c. Distribution Transformers					
			d. Pad Mounted Equipment					
			Safety: Locking, Dead Front, Barriers					
			Appearance: Settlement, Condition					
			Other					
<b>3. Distribution Lines - Overhead</b>			e. Kilowatt-hour and Demand Meter					
a. Inspection Program and Records		3	Reading and Testing					
b. Compliance with Safety Codes:								
Clearances		3						
Foreign Structures		2						
Attachments		2						
c. Observed Physical Condition from Field Checking:								
Right-of-Way		2						
Other								
<b>PART II. OPERATIONS and MAINTENANCE</b>								
<b>6. Line Maintenance and Work Order Procedures</b>		<i>(Rating)</i>	<b>8. Power Quality</b>					
a. Work Planning & Scheduling		3	a. General Freedom from Complaints					
b. Work Backlogs:								
Right-of-Way Maintenance		3						
Poles		3						
Retirement of Idle Services		1						
Other								
<b>7. Service Interruptions</b>			<b>9. Loading and Load Balance</b>					
a. Average Annual Hours Consumer by Cause (Complete for each of the previous 5 years)			a. Distribution Transformer Loading					
PREVIOUS	POWER	MAJOR	SCHEDULED	ALL	TOTAL		b. Load Control Apparatus	
5 YEARS	SUPPLIER	STORM		OTHER			c. Substation and Feeder Loading	
(Year)	a.	b.	c.	d.	e.	<i>(Rating)</i>		
2004	0.35	12.38		8.32	21.03	2		
2005	0.05	0.34	0.04	1.15	1.58	3		
2006	0.12	2.73	0.01	3.01	5.87	2		
2007	0.01	0.59	0.03	1.25	1.88	3		
2008	26.40	140.40		118.80	279.60	2		
b. Emergency Restoration Plan						3		
<b>PART III. ENGINEERING</b>								
<b>11. System Load Conditions and Losses</b>		<i>(Rating)</i>	<b>13. Load Studies and Planning</b>					
a. Annual System Losses		5.29%	3	a. Long Range Engineering Plan				
b. Annual Load Factor		44.5%	3	b. Construction Work Plan				
c. Power Factor at Monthly Peak		95.4%	3	c. Sectionalizing Study				
d. Ratios of Individual Substation Annual Peak kW to kVA			3	d. Load Data for Engineering Studies				
				e. Load Forecasting Data				
<b>12. Voltage Conditions</b>								
a. Voltage Surveys		3						
b. Substation Transformer Output Voltage Spread		3						

**PART IV. OPERATION AND MAINTENANCE BUDGETS**

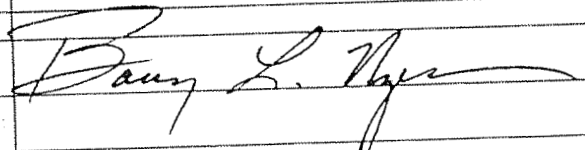
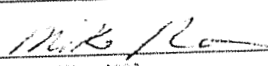
YEAR	For Previous 2 Years		For Present Year	For Future 3 Years		
	2007	2008	2009	2010	2011	2012
	Actual \$ Thousands	Actual \$ Thousands	Budget \$ Thousands	Budget \$ Thousands	Budget \$ Thousands	Budget \$ Thousands
Normal Operation	1,378	1,498	1,543	1,589	1,637	1,686
Normal Maintenance	1,386	1,518	1,564	1,610	1,659	1,709
Additional (Deferred) Maintenance						
<b>Total</b>	<b>2,764</b>	<b>3,016</b>	<b>3,107</b>	<b>3,199</b>	<b>3,296</b>	<b>3,395</b>

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

15. Date Discussed with Board of Directors 11/5/2009 (Date)

**EXPLANATORY NOTES**

ITEM NO.	COMMENTS
3b	Telephone poles left standing close to the electric pole should be removed. Cable TV attachments require constant monitoring and follow-up to ensure code requirements are met.
6a	Idle services reported on the Form 7 are not accurate and should be adjusted by verifying billing records.
7a.	There was a severe ice storm in 2004

RATED BY:		TITLE	DATE
REVIEWED BY:		MANAGER	10/06/09
REVIEWED BY:		RUS GR	10/06/09

October 6, 2009

SUBJECT: OPERATIONS AND MAINTENANCE SURVEY

TO: BARRY MYERS, MANAGER  
TAYLOR COUNTY RECC

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 October 6, 2009.

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. There are several comments and recommendations for further improvements:

There are still numerous telephone poles remaining close to electric poles. The telephone poles should be removed on a timely basis.

A more aggressive right-of-way clearing program is recommended. For example, non-yard trees and trees growing on the transformer pole should be removed, not trimmed. Directional trimming is the modern recommended method of tree trimming.

The report of idle services should be reconciled with billing records and adjusted on the December Form 7.

  
MIKE NORMAN  
RUS FIELD REPRESENTATIVE

TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION  
 Kentucky 23 Taylor  
 Campbellsville, Kentucky

2011-2013 CONSTRUCTION WORK PLAN

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

<p><u>0.00%</u> TOTAL</p> <p><u>5.33%</u></p> <p><u>0.09%</u></p> <p><u>3.00%</u></p> <p><u>0.00%</u></p> <p><u>2.50%</u></p> <p><u>35</u></p> <p><u>7.2</u></p> <p><u>98.00%</u></p> <p><u>6.90%</u></p> <p><u>3.00%</u></p> <p><u>35</u></p> <p><u>\$0.00</u></p> <p><u>0.00%</u></p> <p><u>0.00%</u></p> <p><u>0.000</u></p> <p><u>0.000</u></p> <p><u>0.000</u></p> <p><u>\$0.0632</u></p> <p><u>1.50%</u></p> <p><u>48.00%</u></p>	<p>TOTAL</p> <p>O &amp; M</p> <p>TAX</p> <p>DEP</p> <p>INS</p> <p>INF</p> <p>m</p> <p>KV</p> <p>PF</p> <p>INT</p> <p>LGR</p> <p>ULC</p> <p>\$/KW</p> <p>KWI</p> <p>CF</p> <p>RMO</p> <p>RAT</p> <p>N</p> <p>\$/KWH</p> <p>KWHI</p> <p>LF</p>	<p>Total fixed cost. This is an optional replacement for O &amp; M + TAX + DEP + INS.</p> <p>Operations and Maintenance Expense as a percentage of Average Net Distribution Plant calculated using RUS Bulletin 1724D-101A <b>Electric System Long-Range Planning Guide</b> based on <i>RUS Fixed Charge Calculation Guide</i></p> <p>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</p> <p>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)</p> <p>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.</p> <p>The annual inflation rate.</p> <p>The loan amortization period in years.</p> <p>Line to ground voltage in kV.</p> <p>Peak month power factor.</p> <p>Cost of Capital (Calculated using <i>RUS Fixed Charge Guide</i> ) used for Present Worth Calculation</p> <p>The annual rate of growth projected for the peak demand. (Use latest PRS)</p> <p>Useful Life of Conductor</p> <p>Monthly demand charge in dollars per kW per month. If \$/KW is zero the following dependant inputs will also be zero:</p> <p>Demand charge inflation rate.</p> <p>Coincidence factor - This factor represents the coincidence between the non coincident peak for the line and billing demand.</p> <p>The number of months the metered demand exceeds the minimum billing demand.</p> <p>The annual demand ratchet expressed as a decimal.</p> <p>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.</p> <p>Energy charge in dollars per kWh per month.</p> <p>Energy charge inflation rate.</p> <p>Annual load factor.</p>
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**TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION**  
**Kentucky 23 Taylor**  
**Campbellsville, Kentucky**

**CONDUCTOR LIFE CYCLE ANALYSIS**

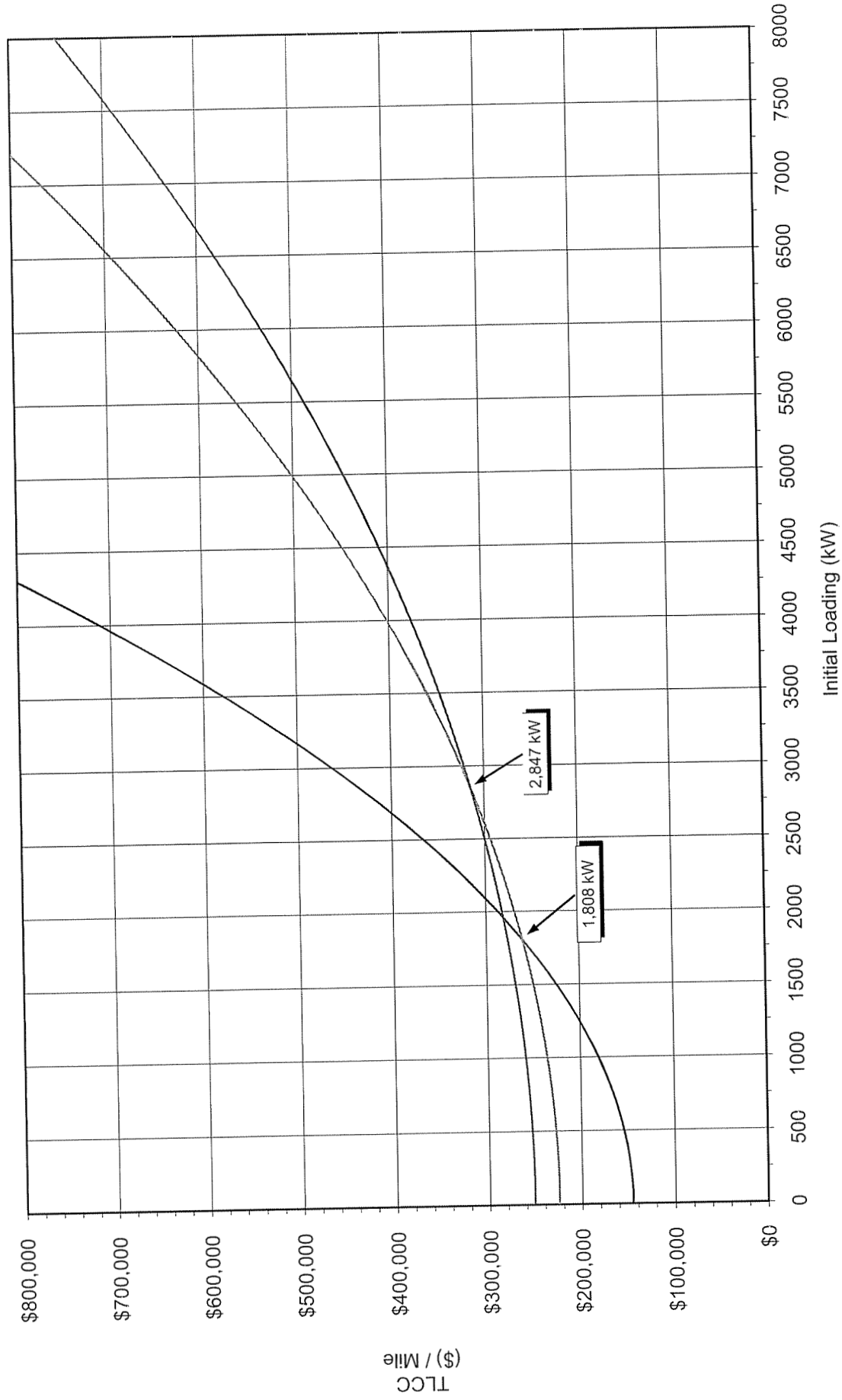
**7.2 kV  
Summary**

	<u>Initial Loading</u>			<u>Future Loading based on a 3.00% LGR for 35 Years</u>		
For loads below	1,808	kW use	1/0 ACSR	5,087	kW	
For loads between	1,808	kW and	2,847 kW use	336 ACSR	5,087	kW
For loads above	2,847	kW and	kW use	477 ACSR	8,011	kW

<u>Conductor</u>	<b>Construction Costs</b>		<u>Conductor Operating Capacity*</u>		
	<u>Cost Per Mile</u>	<u>Ohms Per Mile</u>	50%	100%	
3 Ø 1/0 ACSR	\$55,000	0.888	2,561	5,123	kW
3 Ø 336 ACSR	\$85,000	0.278	5,493	10,986	kW
3 Ø 477 ACSR	\$95,000	0.196	6,837	13,675	kW

\* Operating Capacity is defined as the manufacturer's rating at a maximum recommended continuous operating temperature of 75° C (167° F), with a 25° C (77° F) ambient temperature and a 2 ft./sec wind.

**Taylor County RECC  
Conductor Life Cycle Analysis  
Total Life Cycle Cost - Three Phase 7.2 kV**



1/0 ACSR
  336 ACSR
  477 ACSR

Patterson & Dewar  
Engineers, Inc.

**TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION**  
 Kentucky 23 Taylor  
 Campbellsville, Kentucky

**2011-2013 CONSTRUCTION WORK PLAN**

**Substation Loading - Existing System - January 2010 and August 2010**

No.	Substation Name	Voltage KV	EKPC Capacity			January 2010 Peak			August 2010			
			Base (KVA)	Summer (KVA)	Winter (KVA)	(KW)	Power Factor	% Loading	(KW)	Power Factor	% Loading	
0	Campbellsville #1 #2	69-12.47	14,000	13,620	18,140	6,791	91.4%	41%	6,834	80.6%	62%	
1	Mile Lane	69-12.47	14,000	13,620	18,140	7,697	99.5%	43%	5,864	96.5%	45%	
2	Greensburg	69-12.47	14,000	13,620	18,140	10,057	99.6%	56%	10,256	95.9%	79%	
3	Summersville	69-12.47	11,200	11,070	15,720	8,040	99.8%	51%	7,521	94.5%	72%	
4	McKinney Corner	69-12.47	6,440	6,260	8,340	6,332	99.4%	76%	4,987	96.0%	83%	
5	Coburg **	69-12.47	11,200	11,070	15,720	9,660	98.7%	62%	7,309	93.7%	70%	
6	Columbia	69-12.47	14,000	13,620	18,140	8,859	98.5%	50%	8,083	91.9%	65%	
7	Green River Plaza	69-12.47	11,200	11,070	15,720	6,268	98.8%	40%	8,912	93.7%	86%	
8	Bass	69-12.47	11,200	11,070	15,720	6,800	99.4%	44%	5,024	96.0%	47%	
9	Phil	69-12.47	14,000	13,620	18,140	11,858	98.2%	67%	8,467	91.4%	68%	
10	West Columbia	69-12.47	14,000	13,620	18,140	9,595	98.6%	54%	6,346	95.0%	49%	
11	Creston	69-12.47	11,200	11,070	15,720	9,729	99.9%	62%	6,389	97.8%	59%	
12	East Campbellsville	69-12.47	11,200	11,070	15,720	8,377	99.7%	53%	7,867	96.1%	74%	
13	Garlin	69-12.47	11,200	11,070	15,720	9,441	98.8%	61%	6,248	94.5%	60%	
14	TGP - Saloma	69-12.47				7,029	99.9%		605	82.8%		
						Distribution Only Totals =			128,125	99.1%	107,323	93.6%
						System Totals =			135,154	99.1%	107,928	93.6%

\*\* Coburg -- EKPC scheduled to add fans for June 2011 service.

**TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION**

Kentucky 23 Taylor  
Campbellsville, Kentucky

**2011-2013 CONSTRUCTION WORK PLAN**

**Substation Loading - Winter 2013/14 Peak**

No.	Substation Name	Voltage KV	EKPC Capacity			Existing System			Future System		
			Base (KVA)	Summer (KVA)	Winter (KVA)	(KW)	Power Factor	% Loading	(KW)	Power Factor	% Loading
0	Campbellsville #1 #2	69-12.47	14,000	13,620	18,140	8,281	91.3%	50%	8,255	91.0%	50%
1	Mile Lane	69-12.47	14,000	13,620	18,140	9,354	99.2%	52%	9,470	99.2%	53%
2	Greensburg	69-12.47	14,000	13,620	18,140	12,228	99.4%	68%	12,272	99.3%	68%
3	Summersville	69-12.47	11,200	11,070	15,720	9,771	99.6%	62%	9,656	99.6%	62%
4	McKinney Corner	69-12.47	11,200	11,070	15,720	10,510	99.1%	67%	10,621	99.2%	68%
5	Coburg **	69-12.47	6,440	6,260	8,340	7,695	99.1%	93%	7,864	99.2%	95%
6	Columbia	69-12.47	14,000	13,620	18,140	11,733	98.5%	66%	12,662	98.8%	71%
7	Green River Plaza	69-12.47	14,000	13,620	18,140	10,786	97.8%	61%	10,794	98.3%	61%
8	Bass	69-12.47	11,200	11,070	15,720	7,612	98.2%	49%	7,612	98.2%	49%
9	Phil	69-12.47	11,200	11,070	15,720	8,281	99.2%	53%	8,536	99.2%	55%
10	West Columbia	69-12.47	14,000	13,620	18,140	14,441	97.3%	82%	14,559	97.4%	82%
11	Creston	69-12.47	11,200	11,070	15,720	11,927	98.3%	67%	11,010	98.4%	62%
12	East Campbellsville	69-12.47	11,200	11,070	15,720	11,831	99.7%	75%	11,441	99.8%	73%
13	Garlin	69-12.47	11,200	11,070	15,720	10,199	99.4%	65%	10,370	99.4%	66%
14	TGP - Saloma	69-12.47	11,200	11,070	15,720	11,495	98.4%	74%	11,615	98.4%	75%
			Distribution Only Totals =			156,144	98.3%		156,738	98.4%	
			System Totals =			163,144	98.4%		163,738	98.5%	

\*\* Coburg -- EKPC scheduled to add fans for June 2011 service.



**TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION**

Kentucky 23 Taylor  
Campbellsville, Kentucky

**2011-2013 CONSTRUCTION WORK PLAN**

**Substation Loading - Projected Summer 2013 Loads**

No.	Substation Name	Voltage KV	EKPC Summer Capacity			August 2010			Projected Summer 2013		
			Base (KVA)	Existing (KVA)	Winter (KVA)	(KW)	Power Factor	% Loading	(KW)	Power Factor	% Loading
0	Campbellsville #1 #2	69-12.47	14,000	13,620	18,140	6,834	80.6%	62%	7,370	80.6%	67%
1	Mile Lane	69-12.47	14,000	13,620	18,140	5,864	96.5%	45%	6,324	96.5%	48%
2	Greensburg	69-12.47	14,000	13,620	18,140	10,256	95.9%	79%	11,061	95.9%	85%
3	Summersville	69-12.47	11,200	11,070	15,720	7,521	94.5%	72%	8,112	94.5%	78%
4	McKinney Corner	69-12.47	11,200	11,070	15,720	7,216	95.0%	69%	7,782	95.0%	74%
5	Coburg **	69-12.47	6,440	6,260	8,340	4,987	96.0%	83%	5,378	96.0%	90%
6	Columbia	69-12.47	14,000	13,620	18,140	7,309	93.7%	57%	7,883	93.7%	62%
7	Green River Plaza	69-12.47	14,000	13,620	18,140	8,083	91.9%	65%	8,717	91.9%	70%
8	Bass	69-12.47	11,200	11,070	15,720	8,912	93.7%	86%	9,612	93.7%	93%
9	Phil	69-12.47	11,200	11,070	15,720	5,024	96.0%	47%	5,418	96.0%	51%
10	West Columbia	69-12.47	14,000	13,620	18,140	8,467	91.4%	68%	9,132	91.4%	73%
11	Creston	69-12.47	14,000	13,620	18,140	6,346	95.0%	49%	6,844	95.0%	53%
12	East Campbellsville	69-12.47	11,200	11,070	15,720	6,389	97.8%	59%	6,890	97.8%	64%
13	Garlin	69-12.47	11,200	11,070	15,720	7,867	96.1%	74%	8,484	96.1%	80%
14	TGP - Saloma	69-12.47	11,200	11,070	15,720	6,248	94.5%	60%	6,740	94.5%	64%
						605	82.8%		7,000	85.0%	
						Distribution Only Totals = 107,323			115,747	93.6%	
						System Totals = 107,928			122,747	93.1%	

\*\* Coburg -- EKPC scheduled to add fans for June 2011 service.

TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION  
 Kentucky 23 Taylor  
 Campbellsville, Kentucky

2011-2013 CONSTRUCTION WORK PLAN

Summary of Opens and Closes

LEGEND

ASAP - Change open as soon as possible  
 ASI - Change open after system improvement  
 • - See CWP Maps for general locations

No.	Substation Area	Line Section *		Priority	Sub Load Transfer	Transferred Load (kW)
		Close	Open			
0	Campbellsville	07-057 / 07-056	end of 07-056	ASI 300.01	Yes	+100 kW
		07-058 / 08-088	08-087	ASI 300.01	No	-
1	Mile Lane	-	-	-	-	-
2	Greensburg	07-057 / 07-056	end of 07-056	ASI 300.01	Yes	-100 kW
		07-022 / 07-023	07-051	ASI 302.01	No	-
		07-021 / 07-024	07-024 / 07-101	ASI 302.01	No	-
3	Summersville	01-023 / 01-002	01-002 / 01-024	ASI 303.02	No	-
4	McKinney Corner					
5	Coburg	15-011 / 15-194	15-010 / 15-011	-	No	-
		15-057 / 15-054	22-003	ASI 305.01 & 305.02	Yes	+850 kW
		15-047 / 15-049	split 15-047	-	Yes	+100 kW
6	Columbia	-	-	-	-	-
7	Green River Plaza	-	-	-	-	-
8	Bass	09-019 / 09-020	split 09-019	-	Yes	-75 kW
		05-005 / 10-008	split 10-008	ASI 308.01	Yes	+100 kW
		05-005 / 05-004	10-001	ASI 308.01	No	-
		05-004 / 05-001	04-004	ASI 308.01	No	-
		04-010 / 04-014	split 04-014	-	Yes	-100 kW
		09-042 / 09-040	09-024	-	No	-
9	Phil	11-009 / 11-010	split 11-010	ASI 309.01	No	-
		11-009 / 11-011	12-001	ASI 309.01	No	-
10	West Columbia	15-057 / 15-054	22-003	ASI 305.01 & 305.02	Yes	-850 kW
		22-035 / 22-091	22-036	-	No	-
		26-008 / 26-017	26-003	ASI 310.02	No	-
11	Creston	05-005 / 10-008	split 10-008	ASI 308.01	Yes	-100 kW
12	East Campbellsville	09-019 / 09-020	split 09-019	-	Yes	+75 kW
		04-010 / 04-014	split 04-014	-	Yes	+100 kW
13	Garlin	15-047 / 15-049	split 15-047	-	Yes	-100 kW

**TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION**  
 Kentucky 23 Taylor  
 Campbellsville, Kentucky

**2011-2013 CONSTRUCTION WORK PLAN**

**DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW**

CFR Code and CWP Item Number: 300.01

Estimated Cost: \$126,500

**Description of Proposed Construction**

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

<u>Substation</u>	<u>Line Section</u>	<u>Miles</u>	<u>Existing Phase-Wire</u>	<u>Proposed Phase-Wire</u>
Campbellsville	08-089 to 07-058	2.3	1ø 4 ACSR	3ø 1/0 ACSR

**Reason for Proposed Construction**

The above work is required to relieve an overloaded single phase line. LS 08-089 is projected to carry 61 amps in 2013. 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>
61	4.8	2,219	33	1.0	745

Voltage drops on the circuit extremities will be reduced by 3.8 volts. Kilowatt-hour losses (\$/year) will be reduced by \$1,474.

**Alternate Corrective Plans Investigated**

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

**2011-2013 CONSTRUCTION WORK PLAN**

**DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)**

CFR Code and CWP Item Number: 301.01

Estimated Cost: \$55,000

**Description of Proposed Construction**

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

<u>Substation</u>	<u>Line Section</u>	<u>Miles</u>	<u>Existing Phase-Wire</u>	<u>Proposed Phase-Wire</u>
Mile Lane	03-013	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 03-013 is projected to carry 55 amps in 2013. 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>
55	2.1	1,076	18	0.2	120

Voltage drops on the circuit extremities will be reduced by 1.9 volts. Kilowatt-hour losses (\$/year) will be reduced by \$956.

**Alternate Corrective Plans Investigated**

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

2011-2013 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 302.01

Estimated Cost: \$55,000

**Description of Proposed Construction**

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

<u>Substation</u>	<u>Line Section</u>	<u>Miles</u>	<u>Existing Phase-Wire</u>	<u>Proposed Phase-Wire</u>
Greensburg	07-020	1.0	1ø 4 ACSR	3ø 1/0 ACSR

**Reason for Proposed Construction**

The above work is required to relieve two overloaded single phase line sections. LS 07-020 is projected to carry 41 amps, and LS 07-051 is projected to carry 51 amps. The design criteria recommends that single phase lines should not exceed 35 - 50 amps. When construction is completed, most of the load served by LS 07-051 will be switched to LS 07-020.

**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	6.5	1,837	26	2.9	263

Voltage drops on the circuit extremities will be reduced by 3.6 volts. Kilowatt-hour losses (\$/year) will be reduced by \$1,574.

**Alternate Corrective Plans Investigated**

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

**2011-2013 CONSTRUCTION WORK PLAN**

**DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)**

CFR Code and CWP Item Number: 303.01  
303.02

Estimated Cost: \$12,000  
\$16,000

**Description of Proposed Construction**

303.01: Conversion of 0.3 miles of single phase 4 ACSR conductor with two phase 1/0 ACSR conductor.

303.02: Conversion of 0.4 miles of single phase 4 ACSR conductor with two phase 1/0 ACSR conductor.

Replace poles and equipment as required.

<u>Substation</u>	<u>Project</u>	<u>Line Section</u>	<u>Miles</u>	<u>Existing Phase-Wire</u>	<u>Proposed Phase-Wire</u>
Summersville	303.01	01-014	0.3	1Ø 4 ACSR	2Ø 1/0 ACSR
Summersville	303.01	01-021	0.4	1Ø 4 ACSR	2Ø 1/0 ACSR

**Reason for Proposed Construction**

The above work is required to relieve several overloaded single phase lines. The projects will be done in conjunction with a feed change.

LS 01-014 is projected to carry 74 amps in 2013, and LS 01-003 is projected to carry 53 amps, and LS 01-024 is projected to carry 36 amps. 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	5.6	2,691	44	4.0	1,634

Voltage drops on the circuit extremities will be reduced by 1.6 volts. Kilowatt-hour losses (\$/year) will be reduced by \$1,057. Service reliability will be greatly improved.

**Alternate Corrective Plans Investigated**

Since 1/0 is the minimum conductor used for multiphasing, no other alternatives were reviewed. Three phase construction was considered, but because of the short distance and amount of load, two phase was chosen.

2011-2013 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 304.01

Estimated Cost: \$106,250

**Description of Proposed Construction**

Re-conductor 1.25 miles of three phase 1/0 ACSR conductor with three phase 336 ACSR conductor. Replace poles and equipment as required.

<u>Substation</u>	<u>Line Section</u>	<u>Miles</u>	<u>Existing Phase-Wire</u>	<u>Proposed Phase-Wire</u>
McKinney Corner	14-042	1.25	3Ø 1/0 ACSR	3Ø 336 ACSR

**Reason for Proposed Construction**

The above work is required to unload line section 14-042. The 3Ø 1/0 ACSR is at 64% operating capacity and has an excessive voltage drop.

**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>
148	2.7	11,098	151	0.9	3,621

Voltage drops on the circuit extremities will be reduced by 1.8 volts. Kilowatt-hour losses (\$/year) will be reduced by \$7,477.

**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).

2011-2013 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 305.01

Estimated Cost: \$297,500

**Description of Proposed Construction**

Reconductor 3.5 miles of three phase 1/0 ACSR conductor with three phase 336 ACSR conductor. Replace poles and equipment as required.

<u>Substation</u>	<u>Line Section</u>	<u>Miles</u>	<u>Existing Phase-Wire</u>	<u>Proposed Phase-Wire</u>
Coburg	15-108 to 15-256	3.5	3Ø 1/0 ACSR	3Ø 336 ACSR

**Reason for Proposed Construction**

The above work is required to improve service voltage and reliability in the Milltown area.

This work will be performed in conjunction with project 305.02.

**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>
68	4.4	10,109	129	2.4	7,389

Voltage drops on the circuit extremities will be reduced by 2.0 volts. Kilowatt-hour losses (\$/year) will be reduced by \$2,720. Service reliability for the Milltown area will be greatly improved.

**Alternate Corrective Plans Investigated**

336 ACSR was chosen based on economical conductor loading. See Exhibit N.



2011-2013 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 305.02

Estimated Cost: \$99,000

**Description of Proposed Construction**

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

<u>Substation</u>	<u>Line Section</u>	<u>Miles</u>	<u>Existing Phase-Wire</u>	<u>Proposed Phase-Wire</u>
Coburg	15-057 to 15-054	1.8	1ø 4 ACSR	3ø 1/0 ACSR

**Reason for Proposed Construction**

The above work is required to improve service voltage and reliability in the Milltown area.

This work will be performed in conjunction with project 305.01.

**Results of Proposed Construction**

Service reliability and voltage levels for the Milltown area will be greatly improved.

**Alternate Corrective Plans Investigated**

1/0 ACSR was chosen based on economical conductor loading. See Exhibit N.

## 2011-2013 CONSTRUCTION WORK PLAN

### DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 308.01

Estimated Cost: \$467,500

#### Description of Proposed Construction

Conversion of 8.5 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 Section</u>	<u>Miles</u>	<u>Existing Phase-Wire</u>	<u>Proposed Phase-Wire</u>
Bass	10-134 to 05-005 & 05-003	8.5	1Ø 4 ACSR	3Ø 1/0 ACSR

#### Reason for Proposed Construction

The above work is required to improve the voltage drop in the area. This work, combined with a change in feed, will also unload two very long, overloaded single phase lines. LS 10-134 is projected to carry 84 amps in 2013. LS 10-050 is projected to carry 50 amps in 2013. The design criteria recommends that single phase lines should not exceed 35 - 50 amps.

Voltage drops are very high in this area as well due to the excessive loading and length.

When completed, downline load of LS 10-050 will be moved to the new three phase line.

#### 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>
84	15.6	11,571	61	4.9	7,183

Voltage drops on the circuit extremities will be reduced by 10.7 volts. Kilowatt-hour losses (\$/year) will be reduced by \$4,388. Service reliability for this area will be greatly improved.

#### Alternate Corrective Plans Investigated

1/0 ACSR was chosen based on economical conductor loading. See Exhibit N.

2011-2013 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 308.02

Estimated Cost: \$85,000

**Description of Proposed Construction**

Re-conductor 1.0 miles of three phase 4 ACSR conductor with three phase 336 ACSR conductor. Replace poles and equipment as required.

<u>Substation</u>	<u>Line Section</u>	<u>Miles</u>	<u>Existing Phase-Wire</u>	<u>Proposed Phase-Wire</u>
Bass	10-128	1.0	3ø 4 ACSR	3ø 336 ACSR

**Reason for Proposed Construction**

The above work is required to replace a section of three phase 4 ACSR with 336 ACSR on the main line between two substations. The smaller conductor is not suitable to carry large amounts of load in the event of an outage at one of the substations.

**Results of Proposed Construction**

The primary result of this conductor upgrade is improved service reliability.

**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).

**2011-2013 CONSTRUCTION WORK PLAN**

**DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)**

CFR Code and CWP Item Number: 309.01\*

Estimated Cost: \$143,000

**Description of Proposed Construction**

Conversion of 1.30 miles of single phase 4 ACSR conductor with three phase 1/0 ACSR conductor. Replace poles and equipment as required.

<u>Substation</u>	<u>Line Section</u>	<u>Miles</u>	<u>Existing Phase-Wire</u>	<u>Proposed Phase-Wire</u>
Phil	11-009 to 11-011	2.6	1Ø 4 ACSR	3Ø 1/0 ACSR

**Reason for Proposed Construction**

The above work is required to relieve an overloaded single phase line. LS 14-083 is projected to carry 72 amps in 2013. 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>
72	5.2	3,303	50	3.4	1,456

Voltage drops on the circuit extremities will be reduced by 1.8 volts. Kilowatt-hour losses (\$/year) will be reduced by \$1,847.

**Alternate Corrective Plans Investigated**

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

\*This project is a carryover from the previous 2006-2008 Construction Work Plan.

**2011-2013 CONSTRUCTION WORK PLAN**

**DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)**

CFR Code and CWP Item Number: 310.01

Estimated Cost: \$106,250

**Description of Proposed Construction**

Reconductor 1.25 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 Section</u>	<u>Miles</u>	<u>Existing Phase-Wire</u>	<u>Proposed Phase-Wire</u>
West Columbia	22-034 to 22-091	1.25	3Ø 1/0 ACSR	3Ø 336 ACSR

**Reason for Proposed Construction**

The above work is required to improve voltage drops and service reliability on this line.

**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>
81	3.9	9,130	85	0.6	1,239

Voltage drops on the circuit extremities will be reduced by 3.3 volts. Kilowatt-hour losses (\$/year) will be reduced by \$7,891.

**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).

2011-2013 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 310.02

Estimated Cost: \$77,000

**Description of Proposed Construction**

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

<u>Substation</u>	<u>Line Section</u>	<u>Miles</u>	<u>Existing Phase-Wire</u>	<u>Proposed Phase-Wire</u>
West Columbia	26-008 to 26-017	1.4	1ø 4 ACSR	3ø 1/0 ACSR

**Reason for Proposed Construction**

The above work is required to relieve two overloaded single phase lines. LS 26-008 is projected to carry 41 amps in 2013, and LS 26-003 is projected to carry 45 amps. The system design criteria recommends that single phase lines should not exceed 35 - 50 amps.

A feed change will also occur switching much of the load served from 26-003 to 26-008.

**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	2.0	1,753	25	0.5	326

Voltage drops on the circuit extremities will be reduced by 1.5 volts. Kilowatt-hour losses (\$/year) will be reduced by \$611.

**Alternate Corrective Plans Investigated**

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

2011-2013 CONSTRUCTION WORK PLAN

DISTRIBUTION LINE CONSTRUCTION PROJECT REVIEW (Continued)

CFR Code and CWP Item Number: 313.01

Estimated Cost: \$161,500

**Description of Proposed Construction**

Re-conductor 1.9 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 Section</u>	<u>Miles</u>	<u>Existing Phase-Wire</u>	<u>Proposed Phase-Wire</u>
Garlin	16-027 to 16-025	1.9	3Ø 1/0 ACSR	3Ø 336 ACSR

**Reason for Proposed Construction**

The above work is required to unload line section 16-027. The 3Ø 1/0 ACSR is at 67% operating capacity. The design criteria recommends conductor loading not to exceed 65% of its operating capacity for winter loading.

**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>
165	2.8	11,503	165	1.0	3,599

Voltage drops on the circuit extremities will be reduced by 1.8 volts. Kilowatt-hour losses (\$/year) will be reduced by \$7,904.

**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).

**TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION**  
**Kentucky 23 Taylor**  
**Campbellsville, Kentucky**

**2011-2013 CONSTRUCTION WORK PLAN**

**LARGE POWER LOADS - January 2010**

Large Power Number	Map Number	Line Section	Account Name	Metered kWh	Metered kW demand	Load Factor
01-999	F04-076	01-008	ALLENDALE BAPTIST CHURCH	3,400	44	10.6
03-992	F12-074	03-050	STONE TERRY JOE AND GERRI	1,760	13	18.5
03-994	F09-035	03-066	SALEM BAPTIST CHURCH	7,600	36	28.9
03-995	F09-089	03-067	FLANAGAN DANNY	5,760	13	60.7
03-996	E11-010	03-042	PALESTINE CHURCH	5,840	48	16.7
03-998	D10-028	03-020	CLAY HILL ENTERPRISES INC	3,460	16	29.6
03-999	E09-095A	03-075	TENNESSEE GAS PIPELINE CO	4,575,742	12,000	52.2
04-997	F14-108	04-022	MANNVILLE SCHOOL	40	3	1.8
04-998	F14-061	09-007	PENNS HAM HOUSE	20,360	46	60.6
04-999	E13-105	04-009	WOODCOX DANNY	2,000	46	6.0
05-999	F18-086	05-005	CENTRAL KY CUSTOM MEATS	25,480	71	49.2
06-999	G04-111	06-056	MILLER ANDREW L	1,161	8	19.9
07-980	I08-147A	07-019	GUDMUNDSSON JON	1,700	44	5.3
07-981	I07-107	07-050	VANARSDALE TOM	9,240	41	30.9
07-984	I07-126	07-050	FELTNER WILLIAM D	9,140	40	31.3
07-985	I07-118	07-050	FELTNER WILLIAM D & BARBARA	2,520	10	34.5
07-986	J06-275	07-065	MCDONALD'S G'BURG 12896	41,760	84	68.1
07-987	J06-271	07-065	FAMILY DOLLAR STORE #02309	4,560	13	48.1
07-988	J06-270	07-065	HOUCHENS MARKET	106,880	183	80.0
07-989	J06-288	07-065	SPLASH INC	7,680	32	32.9
07-990	H05-567	07-030	SANITATION DIST I/GR CO	15,160	40	51.9
07-991	I05-147	06-042	DERKSEN JOHN	9,089	30	41.5
07-994	H05-248	07-033	SUMMERSVILLE FEED MILL	2,080	94	3.0
07-996	H05-121	07-038	UNITED PENTECOSTAL CH CAMP	1,920	6	43.8
07-997	H05-362	07-037	UNITED PENTACOSTAL CH CAMPGR	2,640	13	27.8
07-998	H05-044	07-037	SUMMERSVILLE SCHOOL	1,800	6	41.1
07-999	G05-049	07-001	CEDAR OAK FARMS	3,520	5	96.4
08-076	I10-052	08-076	LIBERTY CUMBERLAND PRES CHURCH	920	25	5.0
08-906	H11-285	08-150	JR FOOD STORES INC	6,400	21	41.7
08-907	H11-016	08-168	BO'S SMOKE SHOP	1,182	4	40.5
08-908	H11-012	08-168	ST ANDREW UNITED METHODIST	3,920	17	31.6
08-909	G11-016	03-055	PENNINGTON TERRY K	7,540	32	32.3
08-910	G11-068	08-020	COMMONWEALTH FERTILIZER CO	2,080	13	21.9
08-911	G11-047	08-119	FORD HENRY E AND BONNIE	192	4	6.6
08-912	G11-097	08-023	MCMAHAN EUGENE	2,480	21	16.2
08-913	G11-112	08-150	MURAKAMI MFG USA INC	380,309	844	61.7
08-915	H11-569	08-150	TENCO MANUFACTURING	1,911	10	26.2
08-916	G11-105	08-150	BARNETT SAMMY AND BRENDA	3,700	23	22.0
08-917	H11-575	08-142	HERITAGE HILLS	0	2	.0
08-918	I12-067	08-078	ROBINSON CREEK BAPTIST CHRCH	1,200	15	11.0
08-921	I12-095B	08-133	EMERALD ISLE MARINA	53,920	131	56.4
08-922	I12-095	08-133	EMERALD ISLE MARINA	17,120	58	40.4
08-923	J11-015B	08-082	GREEN RIVER MARINA LLC	156,600	458	46.8
08-924	J11-015	08-082	KENTUCKY DEPT OF PARKS	2,520	8	43.2
08-925	J11-019	08-082	GREEN RIVER MARINA	94,000	217	59.3
08-926	J11-008	08-079	KENTUCKY DEPT OF PARKS	5,280	15	48.2
08-928	J11-009	08-079	KENTUCKY DEPT OF PARKS	3,600	10	49.3



**TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION**  
**Kentucky 23 Taylor**  
**Campbellsville, Kentucky**

**2011-2013 CONSTRUCTION WORK PLAN**

**LARGE POWER LOADS - January 2010**

Large Power Number	Map Number	Line Section	Account Name	Metered kWh	Metered kW demand	Load Factor
08-929	J11-017	08-079	TIM HORTON CHILDREN'S FONDTN	3,240	13	34.1
08-930	J11-018	08-079	TIM HORTON CHILDREN'S FONDTN	3,160	13	33.3
08-931	I11-163	08-079	TIM HORTON CHILDREN'S FONDTN	7,640	27	38.8
08-932	I11-109	08-077	CAMPBELLSVILLE MUNICIPAL	170,000	229	101.7
08-934	H11-296A	08-041	CENTRAL KY GLASS CO	5,040	18	38.4
08-935	H10-108	08-041	CLASSIC KITCHENS	10,360	58	24.5
08-937	G10-221	08-099	WHOLESALE HARDWOOD	13,920	61	31.3
08-939	G09-062	08-157	MEDCO CENTER OF C-VILLE	88,400	214	56.6
08-940	G10-276	08-159	J P L MANAGEMENT INC	28,280	63	61.5
08-941	G10-709	08-101	BIG LOTS STORES INC	34,300	73	64.4
08-942	G10-246E	08-015	DAWAHARES	14,320	38	51.6
08-943	G10-227B	08-015	TRACTOR SUPPLY COMPANY #416	24,700	51	66.3
08-944	G10-227A	08-015	WAL-MART STORES INC	9,100	21	59.4
08-945	G10-221A	08-099	WHOLESALE HARDWOOD INT	35,600	254	19.2
08-946	G10-697	08-160	LOWE'S HOME CENTERS INC#1770	155,500	338	63.0
08-948	G10-637	08-176	GOODWILL INDUSTRIES OF KY	3,200	10	43.8
08-949	G10-675	08-011	ALEX MONTGOMERY CHEVY	31,560	82	52.7
08-950	G10-706	08-101	CAMPBELLSVILLE PEDDLERS MALL	21,700	58	51.3
08-951	G10-699	08-101	SUPER WASH INC.	3,767	17	30.4
08-952	G10-702	08-127	SPLASH INC	10,920	48	31.2
08-953	G10-684	08-159	KRYSTAL OF CAMPBELLSVILLE	15,320	32	65.6
08-954	G10-696	08-129	HOLIDAY INN EXPRESS	55,360	136	55.8
08-955	G10-277	08-099	CAMPBELLSVILLE TAYLOR COUNTY	13,248	36	50.4
08-956	G10-623	08-129	WAL-MART STORES INC	352,150	785	61.5
08-957	G10-234	08-127	FURNITURE LIQUIDATORS	9,640	30	44.0
08-958	G10-631	08-127	LITTRELL JESSICA	5,280	14	51.7
08-959	G10-632	08-101	GARCIA'S	10,320	33	42.8
08-960	G10-273	08-101	OSBORNE HUMPHRESS REALTY CO	23,400	62	51.7
08-961	G10-293	08-159	HUNSAKER MANAGEMENT CORP	10,800	31	47.7
08-962	G10-233	08-015	KROGER CO	161,760	274	80.9
08-963	G10-252	08-015	PENNEY J C 2449-7	24,000	58	56.7
08-964	G10-227	08-015	GOODY'S FAMILY CLOTHING	4,200	17	33.8
08-965	G10-202	08-101	COCA COLA BOTTLING CO	18,960	73	35.6
08-966	G10-235	08-012	JAM CO RESTAURANT INC	18,680	31	82.5
08-967	G10-223	08-176	HOUCHEM INDUSTRIES INC	73,840	121	83.6
08-968	G10-245	08-013	NEWCOMB OIL CO	20,440	38	73.7
08-969	G10-249	08-014	SPLASH INC	4,440	17	35.8
08-970	G10-635	08-096	SONIC RESTAURANT INC	16,800	35	65.8
08-971	G10-286	08-015	PONDEROSA	31,480	98	44.0
08-972	G10-674	08-127	T C B COMPANY LTD LLC	18,160	55	45.2
08-973	G10-691	08-128	CAMPBELLSVILLE WATER WK	131,800	297	60.8
08-974	G10-203	08-057	BIBLE BAPTIST CHURCH	2,080	18	15.8
08-975	H10-001	08-060	TAYLOR COUNTY BROADCASTING	17,943	29	84.8
08-976	G10-646	08-057	PHILLIPS LANES	37,840	80	64.8
08-977	H10-325	08-058	J B INC	2,563	16	21.9
08-978	H10-074	08-120	WOODLAWN CHRISTIAN CH	4,440	17	35.8
08-979	H10-328	08-060	CITY LINE LLC	15,618	45	47.5

**TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION**  
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**2011-2013 CONSTRUCTION WORK PLAN**

**LARGE POWER LOADS - January 2010**

Large Power Number	Map Number	Line Section	Account Name	Metered kWh	Metered kW demand	Load Factor
08-980	H10-340	08-061	J & D AUTO ELECTRIC	6,840	49	19.1
08-981	H10-585	08-137	AMAZON COM INC	1,808,468	2,567	96.5
08-982	H10-586	08-137	AMAZON COM INC	10,900	20	74.7
08-983	H10-539	08-051	DRIFTWOOD INC	4,618	16	39.5
08-984	H10-592	08-049	CORNERSTONE TRAVEL PLAZA	16,600	43	52.9
08-985	H10-594	08-165	COX INTERIOR SUPPLY INC	4,160	20	28.5
08-987	H10-599	08-094	COX INTERIOR SUPPLY INC	1,242,000	3,845	44.2
08-989	H10-549A	08-048	MOORMAN MFG CO	7,000	48	20.0
08-993	I10-112	08-076	GREEN RIVER MEMORIAL BAPTIST	2,940	30	13.4
08-994	I09-034	08-071	MCLEAN JOHN	11,360	36	43.2
08-996	H09-464	14-069	IMI SOUTH LLC	4,800	37	17.8
08-998	G09-004	03-066	CAMPBELLSVILLE COUNTRY CLUB	13,220	32	56.6
09-998	G14-088	09-046	FARMER GATE CO	13,200	71	25.5
10-988	I20-103	10-041	WHITE SHANNON	11,080	47	32.3
10-990	I19-078	10-037	VAUGHN CHESTER AND DEBIE	16,600	57	39.9
10-991	J19-210	10-051	BURKE GARRY L	26,800	57	64.4
10-992	J19-042	10-053	PHILLIPS ELEMENTARY SCHOOL	10,300	39	36.2
10-995	I17-035	10-028	ST BERNARD CHURCH & SCHOOL	3,680	83	6.1
10-996	I17-088	10-127	TARTER BROS	14,760	31	65.2
10-997	I17-106	10-127	TARTER BROTHERS	14,880	65	31.4
10-998	H18-044	10-129	COLUMBIA GULF TRANS CO	100,800	200	69.0
10-999	H18-068	10-027	WOLFORD & WETHINGTON	25,760	214	16.5
11-998	J22-072	11-019	FLOYD GATE CO	1,760	17	14.2
11-999	I21-063	11-002	EAST CASEY CO WATER DISTRICT	17,120	30	78.2
13-997	M03-088	13-025	PIERCE SCHOOL	1,800	12	20.5
13-998	K03-054A	13-002	BISHOP CABINET SHOP INC	9,320	69	18.5
14-977	K06-084C	14-086	JANE TODD CRAWFORD MEM HOSP	1,400	5	38.4
14-978	K06-084A	14-086	JANE TODD CRAWFORD MEM HOSP	37,360	77	66.5
14-979	K06-533A	14-006	CITY OF GREENSBURG	37,200	89	57.3
14-980	K06-531B	07-073	RITE AID STORE	13,200	25	72.3
14-981	K06-131B	14-002	ALUMINUM FABRICATORS	3,880	24	22.1
14-982	K06-084	14-086	JANE TODD CRAWFORD MEM HOSP	53,360	88	83.1
14-983	K06-615	14-086	JANE TODD CRAWFORD MEM HOSP	6,460	24	36.9
14-984	K06-505	14-006	TOPPS SAFETY APPAREL INC	14,880	66	30.9
14-986	K06-022	07-073	SPRING MOTEL	160	2	11.0
14-987	K06-576	14-005	GIVENS DAVID AND EVELYN	7,120	27	36.1
14-989	K06-065	14-009	NALLY & GIBSON QUARRIES	21,760	52	57.3
14-992	K06-616	14-009	NALLY & GIBSON QUARRIES	36,000	439	11.2
14-993	K06-549	14-006	BEVERLY ENTERPRISES INC	116,320	272	58.6
14-994	K06-620	14-008	MRI MANAGEMENT LLC	4,480	12	51.1
14-995	N07-061	14-055	BROWN MELVIN JR AND MARILYN	6,453	26	34.0
14-997	L08-073	14-096	GIVENS DAVID AND EVELYN	1,120	50	3.1
14-998	L07-022	14-024	BETHLEHEM BAPTIST CHURCH	3,540	31	15.6
14-999	N05-114	14-062	GREEN-TAYLOR WATER DISTRICT	5,878	18	44.7
15-990	N12-071	15-045	PYLES RANDALL D	2,447	7	47.9
15-991	K11-005	15-006	U S ARMY CORPS OF ENGINEERS	11,920	58	28.2
15-992	N12-080	15-045	TRINITY UNITED METHODIST CH	3,040	19	21.9

**TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION**  
**Kentucky 23 Taylor**  
**Campbellsville, Kentucky**

**2011-2013 CONSTRUCTION WORK PLAN**

**LARGE POWER LOADS - January 2010**

Large Power Number	Map Number	Line Section	Account Name	Metered kWh	Metered kW demand	Load Factor
15-993	L12-082B	15-009	OLD CRAFTSMAN FURNITURE SHOP	5,785	33	24.0
15-995	L11-093	15-194	ADANTA TAYLOR CLINIC	8,480	37	31.4
15-997	L11-111	15-012	TACKETT AMOS	8,939	24	51.0
15-998	M11-132	15-037	THE DAVIDSON COMPANIES	1,440	3	65.8
15-999	M11-160	15-037	SPECTRUM CARE ACADEMY	10,580	38	38.1
16-990	N14-169	16-036	BROWN JAMES LEO	1,140	13	12.0
16-991	N15-089	16-031	WESTERN KY UNIVERSITY	25,023	38	90.2
16-992	K15-119	15-061	KNIFLEY GRADE CENTER	9,960	47	29.0
16-994	K13-001B	15-007	HOLMES BEND BOAT DOCK	20,400	46	60.8
16-997	K13-001	15-007	HOLMES BEND BOAT DOCK COOP	6,920	19	49.9
16-999	L13-004	15-007	U S ARMY CORPS OF ENGINEERS	0	19	.0
17-989	L20-158	17-008	GARRETT JAMES A III	3,100	25	17.0
17-990	M20-123	17-025	TARTER GATE CO INC	31,400	264	16.3
17-991	M20-031	17-025	TARTER BROS	86,400	626	18.9
17-992	L20-173	17-036	TARTER GATE CO	117,600	797	20.2
17-993	L20-051	17-036	TARTER GATE CO INC	50,240	317	21.7
17-994	L20-174	17-036	TARTER GATE CO	227,200	984	31.6
17-995	L20-156	17-010	TARTER BROS GATE CO INC.	15,200	138	15.1
17-996	L20-110	17-010	TARTER GATE CO	17,800	59	41.3
17-997	M20-120	17-036	TARTER GATE CO	43,800	294	20.4
17-998	L19-060	17-014	LEE VERNON	13,120	176	10.2
18-994	L21-077	18-018	MARTIN TIM	2,700	21	17.6
18-995	K21-036A	18-002	FLOYD GATE CO	8,480	35	33.2
18-996	K21-031A	11-021	GALILEAN HOME MINISTRIES	17,680	62	39.1
18-997	K21-049	18-002	JOHNSON GATE CO	800	14	7.8
18-998	K21-046	18-002	FLOYD GATE CO	2,240	18	17.0
18-999	K21-031	11-021	GALILEAN HOME MINISTRIES	11,260	30	51.4
21-999	O07-017	21-040	PICKETT CHAPEL CHURCH	3,720	67	7.6
22-973	R10-110	22-081	NORTHEASTERN PROD CORP	5,200	97	7.3
22-974	R10-090A	22-081	NORTHEASTERN PRODUCTS CORP	16,080	34	64.8
22-975	R10-090	22-081	NORTHEASTERN PRODUCTS CORP	41,920	207	27.7
22-976	Q12-047	22-045	FAIRPLAY MEAT PROCESSING	12,320	39	43.3
22-979	P12-175	22-016	HI TEMP GRAPHICS INC	11,360	61	25.5
22-980	P12-166	22-068	MCCAMMISH MFG	3,300	38	11.9
22-981	P12-164	22-069	KENTUCKY DEPT JUVENILE JUSTC	111,600	204	74.9
22-982	P12-151	22-016	B & W LUMBER CO	30,080	279	14.8
22-983	P12-139	22-016	WHITE JOEY	6,700	31	29.6
22-984	P12-090	22-018	IMO INDUSTRIES INC	458,400	995	63.1
22-985	P12-065	22-068	MCCAMMISH MFG	27,360	123	30.5
22-986	P11-262	22-007	ADAIR CO BOARD OF EDUCATION	11,280	21	73.6
22-987	P11-220	22-023	PIERCE LEONARD	17,280	53	44.7
22-988	P11-187	22-022	DOWNEY JIMMIE	6,400	157	5.6
22-993	P11-139A	22-022	DOWNEY JIMMIE	0	1	.0
22-995	P11-077A	22-023	R F INDUSTRIES	11,200	37	41.5
22-996	O12-137	15-045	OLLESTAD BETTY	21,120	69	41.9
22-998	O11-110	22-007	ADAIR CO BOARD OF EDUCATION	145,500	332	60.0
22-999	P09-085	22-002	GRIDER FARMS	8,800	26	46.4

TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION  
Kentucky 23 Taylor  
Campbellsville, Kentucky

2011-2013 CONSTRUCTION WORK PLAN

LARGE POWER LOADS - January 2010

Large Power Number	Map Number	Line Section	Account Name	Metered kWh	Metered kW demand	Load Factor
23-998	R13-001	22-048	GADDIE - SHAMROCK INC	43,776	364	16.5
23-999	Q13-050	22-048	GADDIE - SHAMROCK INC	1,800	3	82.2
27-998	S12-103	27-009	COOMER TRAVIS/NADINE	7,885	16	67.5

**TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION**  
**Kentucky 23 Taylor**  
**Campbellsville, Kentucky**

**2011-2013 CONSTRUCTION WORK PLAN**

**Consumer Outage Hours**  
(Outage hours per consumer per year)

Year	Outage Cause				Totals
	Power Supplier	Extreme Storm	Pre-Arranged	Other	
2005	0.05	0.34	0.04	1.15	1.58
2006	0.12	2.73	0.01	3.01	5.87
2007	0.01	0.59	0.03	1.25	1.88
2008	0.34	2.34	0.00	1.98	4.66
2009	0.49	17.79	0.01	4.24	22.53
Five Year Average =	0.20	4.76	0.02	2.33	7.30
Five Year Average = (excluding 2009 extreme storm)	0.20	1.50	0.02	2.33	4.05



LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP LOSS
SUB 1	CAMPBELLSVILLE		1570		6276	6560	6626	176	15211			
SUB 1, CKT 1												
1-1	CAMPBELLSVILLE	0.00	4 3-	BKR-560-VWVE	6276	6560	6626	176	3873	191	0	0.00
08-094	1-1	0.13	4 3-	336ACSR	6043	6138	6049	176	3873	191	36	0.16
08-987	08-094	0.13	1 3-	Consumer	6043	6138	6049	176	3841	190	0	0.16
08-988	08-094	0.13	0 1-	Consumer	0	0	6049	176	0	0	0	0.16
CKT 1 total losses:		\$659										
SUB 1, CKT 2												
1-2	CAMPBELLSVILLE	0.00	391 3-	BKR-560-VWVE	6276	6560	6626	176	2038	90	0	0.00
08-048	1-2	0.35	391 3-	3/OACSR	5380	5381	4969	175	2038	90	30	0.29
08-989	08-048	0.35	1 3-	Consumer	5380	5381	4969	175	9	0	0	0.29
08-103	08-048	0.69	3 3-	3/OACSR	4659	4542	3910	173	8	14	5	-0.04
08-044	08-103	2.25	2 3-	3/OACSR	2789	2564	1924	167	5	14	5	-0.19
08-130	08-044	2.35	1 3-	3/OACSR	2712	2488	1859	167	5	0	0	0.06
	C214	2.25	0 3-	Cap (300)	2789	2564	1924	167	0	-14	0	0.06
08-177	08-048	1.01	371 3-	336ACSR	4523	4359	3504	173	1832	83	16	0.32
08-075	08-177	2.06	371 3-	1/OACSR	2922	2652	1959	167	1828	83	36	1.22
08-992	08-075	2.06	0 1-	Consumer	0	0	1959	167	0	0	0	1.83
08-991	08-075	2.06	0 3-	Consumer	2922	2652	1959	167	0	0	0	1.83
08-990	08-075	2.06	0 3-	Consumer	2922	2652	1959	167	0	0	0	1.83
08-090	08-075	3.27	140 3-	1/OACSR	2009	1830	1283	161	703	32	14	0.32
08-178	08-075	3.11	115 3-	1/OACSR	2095	1905	1342	162	548	25	11	0.44
	D78	3.11	48 1-	REC-35-L	0	0	1342	162	238	33	94	0.00
08-132	08-178	3.68	48 1-	4ACSR	0	0	1054	156	238	33	24	0.45
08-164	08-178	3.65	67 1-	6CU	0	0	1069	156	308	42	36	0.54
CKT 2 total losses:		\$4,753										
SUB 1, CKT 3												
1-3	CAMPBELLSVILLE	0.00	516 3-	BKR-560-VWVE	6276	6560	6626	176	2918	130	0	0.00
08-046	1-3	0.35	516 3-	3/OACSR	5369	5369	4952	175	2918	130	44	0.46
08-074	08-046	1.23	502 3-	3/OACSR	3808	3607	2898	171	2786	125	42	1.07
08-122	08-074	1.32	462 3-	3/OACSR	3695	3488	2779	171	2568	118	39	0.11
08-076	08-122	2.65	254 3-	3/OACSR	2517	2298	1698	166	1439	66	22	0.84
08-993	08-076	2.65	1 3-	Consumer	2517	2298	1698	166	5	0	0	0.00
08-086	08-076	3.37	101 3-	3/OACSR	2142	1937	1402	163	502	23	8	0.16
08-085	08-086	3.99	14 3-	3/OACSR	1893	1702	1217	161	118	5	2	0.02
	D5	3.37	62 1-	REC-70-L	0	0	1402	163	269	37	54	0.00
08-087	08-086	3.37	62 1-	4ACSR	0	0	1402	163	269	37	27	2.98
08-088	08-087	5.54	62 1-	4ACSR	0	0	555	137	22	3	2	0.06
	D76	5.54	4 1-	4ACSR	0	0	660	143	116	16	33	0.00
15-001	08-087	5.54	26 1-	REC-50-4H	0	0	515	134	116	16	12	0.44
	D4	6.66	26 1-	4ACSR	0	0	1698	166	538	24	45	0.00
08-080	08-076	2.65	80 3-	REC-50-L	2517	2298	1698	166	538	24	14	0.42
08-153	D4	3.40	80 3-	2ACSR	1904	1740	1269	160	538	24	14	0.42
08-079	08-080	3.71	69 3-	2ACSR	1723	1585	1148	158	433	20	11	0.14
08-926	08-125	4.41	60 3-	2ACSR	1405	1307	939	154	338	15	9	0.19
08-927	08-079	6.00	18 3-	1/OACSR	1076	1004	701	146	131	6	3	0.12
08-928	08-079	6.00	1 1-	Consumer	0	0	701	146	16	2	0	0.00
08-931	08-079	6.00	0 1-	Consumer	0	0	701	146	0	0	0	0.00
08-930	08-079	6.00	1 1-	Consumer	0	0	701	146	0	0	0	0.00
	08-079	6.00	1 3-	Consumer	1076	1004	701	146	19	1	1	0.00
	08-079	6.00	1 3-	Consumer	1076	1004	701	146	19	1	1	0.00
	08-079	6.00	1 3-	Consumer	1076	1004	701	146	19	1	1	0.00
	08-079	6.00	1 3-	Consumer	1076	1004	701	146	19	1	1	0.00

LINE SECT	PRIOR SECT	MILES	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
D6	08-121	3.84	60 3-	REC-35-L	2045	1848	1297	162	272	12	12	0.00	3.45	0
07-108	D6	5.48	60 1-	4ACSR	0	0	733	147	272	38	27	2.10	5.55	606
07-017	07-108	6.25	13 1-	4ACSR	0	0	604	140	56	7	6	0.15	5.70	7
07-016	07-108	6.29	6 1-	4ACSR	0	0	598	140	52	7	5	0.14	5.70	7
C175	08-131	3.17	0 3-	Cap (300)	2361	2150	1529	165	0	-14	0	0.00	3.16	0
14-069	08-062	2.96	166 3-	1/0ACSR	2449	2230	1595	165	778	36	16	0.11	3.07	104
08-996	14-069	2.96	1 3-	Consumer	2449	2230	1595	165	695	32	46	0.00	3.07	0
D67	14-069	2.96	159 3-	REC-70-L	2449	2230	1595	165	695	32	14	0.21	3.27	124
08-065	D67	3.75	159 3-	1/0ACSR	1973	1772	1248	161	695	32	14	0.21	3.27	124
D75	08-065	3.75	0 1-	REC-50-L	0	0	1248	161	0	0	0	0.00	3.27	0
CKT 5 total losses: \$11,772														
SUB 1, CKT 6														
1-6	CAMPBELLSVILLE	0.00	3 3-	BKR-560-VWVE	6276	6560	6626	176	113	5	0	0.00	0.00	0
08-165	1-6	0.20	3 3-	3/0ACSR	5733	5796	5573	175	113	5	2	0.01	0.01	0
08-985	08-165	0.20	1 3-	Consumer	5733	5796	5573	175	20	0	0	0.00	0.01	0
08-172	08-165	0.22	0 3-	3/0ACSR	5683	5738	5483	175	0	0	0	0.00	0.01	0
08-166	08-172	0.32	0 3-	350MCM	5526	5637	5310	459	0	0	0	0.00	0.01	0
08-905	08-165	0.20	1 3-	Consumer	5733	5796	5573	175	65	3	0	0.00	0.01	0
CKT 6 total losses: \$0														
SUB 1 total losses: \$35,778														



LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
07-101	07-023	6.58	53 1-	4ACSR	0	0	522	135	171	24	18	0.83	7.84	189
D211	07-101	6.58	49 1-	REC-25-H	0	0	522	135	159	23	93	0.00	7.84	0
07-024	D211	7.89	49 1-	4ACSR	0	0	413	126	159	23	17	0.73	8.56	105
D224	07-063	1.93	26 1-	REC-35-L	0	0	2088	169	89	12	35	0.00	2.09	0
07-064	D224	3.08	26 1-	4ACSR	0	0	1125	157	89	12	9	0.34	2.43	27
D204	07-065	1.76	82 1-	REC-50-L	0	0	2224	169	288	39	80	0.00	1.97	0
07-061	D204	4.35	82 1-	4ACSR	0	0	711	144	288	39	28	3.92	5.89	1271
D205	07-061	4.35	44 1-	REC-25-4H	0	0	711	144	163	23	93	0.00	5.89	0
07-206	D205	4.84	44 1-	4ACSR	0	0	628	140	163	23	17	0.51	6.41	109
14-013	07-206	6.17	14 1-	4ACSR	0	0	474	131	57	8	6	0.26	6.67	13
07-059	07-206	7.11	28 1-	4ACSR	0	0	404	124	88	12	9	0.69	7.09	55
D231	07-061	4.35	0 1-	REC-25-4H	0	0	711	144	0	0	0	0.00	5.89	0
D215	07-066	0.53	103 1-	REC-70-L	0	0	4059	174	348	47	68	0.00	0.68	0
07-045	D215	2.33	103 1-	4ACSR	0	0	1126	155	348	47	34	3.22	3.90	1240
07-043	07-045	3.34	1 1-	6CU	0	0	786	146	3	0	0	0.01	3.91	0
07-099	07-045	2.71	55 1-	4ACSR	0	0	966	152	190	26	19	0.41	4.31	91
D234	07-099	2.71	36 1-	REC-35-4H	0	0	966	152	127	17	51	0.00	4.31	0
07-044	D234	4.19	36 1-	4ACSR	0	0	621	139	127	17	13	0.63	4.94	71
CKT 3 total losses: \$14,505														
SUB 2, CKT 4														
20-4	GREENSBURG (20)	0.00	233 3-	BKR-560-VWVE	5698	5880	5934	176	1431	63	0	0.00	0.00	0
07-073	20-4	2.06	233 3-	3/OACSR	2822	2617	1991	168	1431	63	21	1.10	1.10	2066
14-986	07-073	2.06	1 3-	Consumer	2822	2617	1991	168	0	0	0	0.00	1.10	0
14-980	07-073	2.06	1 3-	Consumer	2822	2617	1991	168	27	1	0	0.00	1.10	0
14-006	07-073	2.56	126 3-	1/OACSR	2413	2198	1637	165	1016	45	20	0.28	1.38	413
14-993	14-006	2.56	1 1-	Consumer	0	0	1637	165	294	40	0	0.00	1.38	0
14-991	14-006	2.56	0 3-	Consumer	2413	2198	1637	165	0	0	0	0.00	1.38	0
14-984	14-006	2.56	1 1-	Consumer	0	0	1637	165	39	5	0	0.00	1.38	0
14-985	14-006	2.56	0 1-	Consumer	0	0	1637	165	0	0	0	0.00	1.38	0
14-979	14-006	2.56	1 1-	Consumer	0	0	1637	165	96	13	0	0.00	1.38	0
14-178	14-006	2.63	70 3-	1/OACSR	2364	2150	1598	165	431	19	9	0.02	1.40	12
14-188	14-188	2.66	43 3-	1/OACSR	2340	2126	1578	165	149	6	3	0.00	1.40	0
14-086	14-188	2.87	27 3-	1/OACSR	2206	1993	1472	164	282	12	6	0.04	1.44	14
14-982	14-086	2.87	1 3-	Consumer	2206	1993	1472	164	95	4	0	0.00	1.44	0
14-978	14-086	2.87	1 3-	Consumer	2206	1993	1472	164	83	3	0	0.00	1.44	0
14-977	14-086	2.87	1 3-	Consumer	2206	1993	1472	164	3	0	0	0.00	1.44	0
14-983	14-086	2.87	1 3-	Consumer	2206	1993	1472	164	14	0	0	0.00	1.44	0
C187	14-006	2.56	0 3-	Cap (300)	2413	2198	1637	165	0	-14	0	0.00	1.38	0
14-005	07-073	2.40	46 3-	4ACSR	2330	2126	1621	164	152	6	5	0.05	1.15	7
14-987	14-005	2.40	1 1-	Consumer	0	0	1621	164	16	2	0	0.00	1.15	0
CKT 4 total losses: \$2,512														
SUB 2, CKT 5														
20-5	GREENSBURG (20)	0.00	390 3-	BKR-560-VWVE	5698	5880	5934	176	1942	86	0	0.00	0.00	0
07-070	20-5	0.76	390 3-	3/OACSR	4241	4130	3529	173	1942	86	29	0.59	0.59	1569
07-072	07-070	1.24	360 3-	3/OACSR	3597	3421	2759	171	1795	80	27	0.34	0.93	854
14-004	07-072	2.25	311 3-	3/OACSR	2686	2480	1870	167	1559	70	23	0.60	1.53	1392
14-426	14-004	3.45	305 3-	3/OACSR	2051	1860	1349	163	1520	68	23	0.84	2.37	1603
14-428	14-426	4.14	301 3-	3/OACSR	1801	1622	1160	160	1496	68	23	0.48	2.86	918
14-087	14-428	4.44	301 3-	3/OACSR	1710	1536	1094	159	1490	69	23	0.23	3.08	406
14-009	14-087	4.77	296 3-	3/OACSR	1621	1453	1030	158	1450	67	23	0.24	3.32	410

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
07-097	D225	2.65	275 3-	1/0ACSR	2056	1883	1369	162	1224	55	24	0.27	2.50	436
07-103	07-097	2.70	271 3-	1/0ACSR	2028	1858	1348	161	1198	55	24	0.05	2.55	69
07-077	07-103	3.21	6 1-	4ACSR	0	0	1076	156	47	6	5	0.08	2.63	3
07-078	07-103	3.35	263 3-	1/0ACSR	1723	1585	1124	158	1125	52	23	0.53	3.07	725
06-044	07-078	4.92	244 3-	1/0ACSR	1263	1169	803	151	981	45	20	1.08	4.16	1294
D214	06-044	4.92	180 3-	REC-35-H	1263	1169	803	151	699	32	31	0.00	4.16	0
06-045	D214	5.79	180 3-	1/0ACSR	1098	1020	693	147	699	32	14	0.44	4.59	381
06-048	06-045	7.76	147 3-	1/0ACSR	847	789	529	138	542	25	11	0.72	5.31	464
06-050	06-048	8.63	83 1-	4ACSR	0	0	451	132	250	35	25	1.32	6.63	409
06-052	06-050	11.32	53 1-	4ACSR	0	0	309	115	142	20	15	1.31	7.95	169
06-051	06-050	9.83	13 1-	4ACSR	0	0	375	124	47	6	5	0.19	6.83	8
06-049	06-048	9.62	43 1-	4ACSR	0	0	386	125	149	21	15	1.51	6.82	261
06-039	06-049	11.48	12 1-	4ACSR	0	0	303	114	66	9	7	0.42	7.24	25
06-040	06-049	10.30	10 1-	4ACSR	0	0	351	121	22	3	2	0.05	6.87	0
06-047	06-045	7.77	21 1-	4ACSR	0	0	457	131	70	9	7	0.47	5.06	29
D228	06-044	4.92	31 1-	REC-35-H	0	0	803	151	124	17	50	0.00	4.16	0
06-046	D228	6.56	31 1-	4ACSR	0	0	538	137	124	17	12	0.87	5.02	108
13-005	06-046	7.90	7 1-	4ACSR	0	0	422	128	33	4	3	0.15	5.17	4
C188	07-097	2.65	0 3-	Cap (150)	2056	1883	1369	162	0	-7	0	0.00	2.50	0

CKT 6 total losses: \$8,481

SUB 2 total losses: \$36,272

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
23-028	23-027	4.31	88 3-	3/OACSR	1723	1553	1121	160	293	14	5	0.02	4.40	7
D653	23-028	4.31	88 1-	REC-50-H	0	0	1121	160	293	42	86	0.00	4.40	0
23-053	D653	4.54	88 1-	4ACSR	0	0	1031	157	293	42	31	0.46	4.86	179
23-040	23-053	5.63	85 1-	4ACSR	0	0	732	147	280	41	29	1.81	6.67	607
D638	23-040	5.63	60 1-	REC-35-4H	0	0	732	147	180	26	77	0.00	6.67	0
23-033	D638	7.38	60 1-	4ACSR	0	0	492	133	180	26	19	1.45	8.12	269
23-030	23-033	9.65	17 1-	4ACSR	0	0	344	119	46	6	5	0.38	8.51	16
D640	23-027	4.20	24 1-	REC-35-L	0	0	1146	160	105	15	44	0.00	4.38	0
23-026	D640	5.24	24 1-	4ACSR	0	0	804	150	105	15	11	0.68	5.06	88
23-025	23-026	6.91	8 1-	4ACSR	0	0	533	136	40	5	4	0.24	5.30	9
23-024	23-026	6.21	9 1-	4ACSR	0	0	621	142	38	5	4	0.13	5.19	5
KKT 2 total losses: \$22,611														
SUB 3, CKT 3	COLUMBIA(60)	0.00	180 3-	BKR-560-VWVE	5423	5803	5868	176	2287	103	0	0.00	0.00	0
22-110	60-3	0.09	180 3-	336ACSR	5295	5423	5534	176	2287	103	20	0.05	0.05	138
22-069	22-110	0.52	180 3-	3/OACSR	4492	4481	4089	174	2286	103	35	0.48	0.53	1284
22-981	22-069	0.52	1 3-	Consumer	4492	4481	4089	174	222	10	0	0.00	0.53	0
22-021	22-020	1.22	177 3-	3/OACSR	3525	3374	2785	171	2010	91	30	0.69	1.22	1663
22-989	22-021	1.86	174 3-	3/OACSR	2918	2730	2139	169	1995	91	30	0.61	1.83	1449
22-992	22-021	1.86	0 1-	Consumer	0	0	2139	169	0	0	0	0.00	1.83	0
22-070	22-021	2.54	162 3-	3/OACSR	2450	2257	1707	166	1887	90	30	0.70	2.53	1498
22-094	22-070	3.03	121 3-	3/OACSR	2199	2010	1494	164	1743	83	28	0.44	2.97	867
22-990	22-094	3.03	1 1-	Consumer	0	0	1494	164	127	18	0	0.00	2.97	0
22-991	22-094	3.03	0 3-	Consumer	2199	2010	1494	164	0	0	0	0.00	2.97	0
22-007	22-094	3.29	92 3-	4/OACSR	2097	1911	1406	163	1239	59	18	0.00	3.12	210
22-997	22-007	3.29	1 1-	Consumer	0	0	1406	163	31	4	0	0.00	3.12	0
22-998	22-007	3.29	1 1-	Consumer	0	0	1406	163	354	51	0	0.00	3.12	0
22-986	22-007	3.29	1 1-	Consumer	0	0	1406	163	22	3	0	0.00	3.12	0
D1056	22-007	3.29	87 3-	REC-50-L	2097	1911	1406	163	416	20	40	0.00	3.12	0
22-079	D1056	3.58	87 3-	1/OACSR	1947	1762	1288	162	416	20	9	0.09	3.21	47
22-008	22-079	4.02	15 3-	1/OACSR	1755	1581	1143	160	81	3	2	0.03	3.24	3
22-100	22-008	4.20	0 3-	1/OACSR	1689	1524	1095	159	0	0	0	0.00	3.24	0
D1057	22-008	4.02	14 1-	REC-25-L	0	0	1143	160	73	10	42	0.00	3.24	0
22-006	D1057	5.24	14 1-	4ACSR	0	0	760	148	73	10	8	0.32	3.55	20
22-082	22-006	4.21	67 3-	4ACSR	1495	1382	1001	156	276	13	9	0.20	3.40	57
22-970	22-082	4.21	1 3-	Consumer	1495	1382	1001	156	59	2	0	0.00	3.40	0
22-971	22-007	3.29	1 3-	Consumer	2097	1911	1406	163	413	19	0	0.00	3.12	0
22-969	22-094	3.03	1 3-	Consumer	2199	2010	1494	164	162	7	0	0.00	2.97	0
C196	22-021	1.86	0 3-	Cap (300)	2918	2730	2139	169	0	-14	0	0.00	1.83	0
KKT 3 total losses: \$7,236														
SUB 3, CKT 4	COLUMBIA(60)	0.00	229 3-	BKR-560-VWVE	5423	5803	5868	176	1093	51	0	0.00	0.00	0
22-016	60-4	0.74	229 3-	397ACSR	4542	4529	4133	174	1093	51	9	0.21	0.21	227
22-982	22-016	0.74	1 3-	Consumer	4542	4529	4133	174	64	2	0	0.00	0.21	0
22-979	22-016	0.74	1 3-	Consumer	4542	4529	4133	174	29	1	0	0.00	0.21	0
22-983	22-016	0.74	1 3-	Consumer	4542	4529	4133	174	15	0	0	0.00	0.21	0
22-014	22-016	1.43	219 3-	397ACSR	3924	3814	3203	173	947	44	8	0.16	0.37	154
22-104	22-014	1.90	142 3-	397ACSR	3587	3441	2772	172	601	28	5	0.04	0.41	15
D680	22-014	1.43	67 1-	REC-70-L	0	0	3203	173	268	37	54	0.00	0.37	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
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SUB 3 total losses: \$43,827														

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROPP	TOTAL DROPP	LINE LOSS
11-003	11-018	8.40	22 1-	4ACSR	0	0	467	132	111	16	12	0.65	8.09	67
C202	11-019	5.23	0 3-	Cap (300)	1617	1465	1015	157	0	-13	0	0.00	5.66	0
11-025	11-020	4.45	1 1-	4ACSR	0	0	1151	159	0	0	0	0.00	4.25	0
18-998	18-002	2.09	1 3-	Consumer	3489	3325	2621	172	7	0	0	0.00	2.09	0
CKT 1 total losses: \$38,965														
SUB 4, CKT 2														
90-2	PHIL(90)	0.00	264 3-	BKR-560-VWVE	5458	5745	5784	176	1365	61	0	0.00	0.00	0
18-010	90-2	0.50	264 3-	336ACSR	4808	4794	4319	175	1365	61	12	0.17	0.17	263
18-019	18-010	0.79	261 3-	336ACSR	4479	4399	3728	174	1347	60	11	0.09	0.26	146
15-126	18-019	1.40	255 3-	1/0ACSR	3494	3275	2557	170	1266	56	25	0.54	0.81	880
D920	15-126	1.40	255 3-	REC-70-L	3494	3275	2557	170	1266	56	81	0.50	0.81	0
18-011	D920	2.11	255 3-	1/0ACSR	2690	2445	1829	167	1261	56	25	0.63	1.44	1001
18-012	18-011	3.26	162 3-	4ACSR	1495	1422	1043	155	782	35	25	1.37	2.81	1415
18-131	18-131	5.39	145 3-	4ACSR	773	759	564	137	656	29	21	1.90	4.71	1644
18-020	18-131	5.46	100 3-	4ACSR	760	747	556	137	656	29	21	1.90	4.71	1644
D939	18-020	5.46	94 2-	REC-35-H	0	747	556	137	379	28	96	0.00	4.77	35
18-015	D939	6.11	94 2-	4ACSR	0	653	488	132	379	28	20	0.74	5.51	374
18-021	18-015	6.72	56 1-	4ACSR	0	0	437	128	210	31	22	0.82	6.33	213
18-017	18-021	9.29	43 1-	6CU	0	0	306	113	152	22	19	1.41	7.73	197
17-027	18-015	9.41	31 1-	4ACSR	0	0	300	112	112	16	12	1.35	6.86	138
D940	18-131	5.39	0 1-	REC-25-H	0	0	564	137	0	0	0	0.00	4.71	0
CAP35	18-131	5.39	0 3-	Cap (300)	773	759	564	137	0	-13	0	0.00	4.71	0
18-018	18-011	2.88	82 3-	4ACSR	1771	1663	1220	159	408	19	14	0.48	1.91	246
18-894	18-018	2.88	1 3-	Consumer	1771	1663	1220	159	8	0	0	0.00	1.91	0
D957	18-018	2.88	62 1-	REC-50-H	0	0	1220	159	256	37	74	0.00	1.91	0
18-016	D957	5.47	62 1-	4ACSR	0	0	555	136	256	37	26	2.35	4.26	533
CKT 2 total losses: \$7,085														
SUB 4, CKT 3														
90-3	PHIL(90)	0.00	391 3-	BKR-560-VWVE	5458	5745	5784	176	3963	185	0	0.00	0.00	0
17-008	90-3	2.57	391 3-	397ACSR	3210	3031	2315	171	3963	185	31	2.55	2.55	10338
17-989	17-008	2.57	1 3-	Consumer	3210	3031	2315	171	9	0	0	0.00	2.55	0
17-030	17-008	2.97	329 3-	397ACSR	3008	2823	2110	170	3559	168	29	0.35	2.90	1310
R115	17-030	2.97	314 3-	328	3008	2823	2110	170	3402	161	49	0.00	2.90	0
17-010	R115	3.21	314 3-	397ACSR	2899	2712	2003	169	3402	161	27	0.19	3.09	672
17-995	17-010	3.21	1 1-	Consumer	0	0	2003	169	50	7	0	0.00	3.09	0
17-996	17-010	3.21	1 1-	Consumer	0	0	2003	169	39	5	0	0.00	3.09	0
17-011	17-010	3.42	89 3-	336ACSR	2804	2614	1899	169	2090	97	18	0.12	3.21	269
17-036	17-011	3.89	81 3-	336ACSR	2613	2419	1700	168	1961	95	18	0.28	3.49	584
17-997	17-036	3.89	1 3-	Consumer	2613	2419	1700	168	105	5	0	0.00	3.49	0
17-993	17-036	3.89	1 1-	Consumer	0	0	1700	168	114	16	0	0.00	3.49	0
17-994	17-036	3.89	1 1-	Consumer	0	0	1700	168	645	94	0	0.00	3.49	0
17-992	17-036	3.89	1 1-	Consumer	0	0	1700	168	286	41	0	0.00	3.49	0
17-028	17-036	4.46	65 3-	4ACSR	1987	1806	1288	162	721	35	25	0.71	4.20	707
17-025	17-028	4.68	50 3-	4ACSR	1793	1648	1171	159	605	29	21	0.24	4.43	200
17-991	17-025	4.68	1 3-	Consumer	1793	1648	1171	159	223	10	0	0.00	4.43	0
17-990	17-025	4.68	1 3-	Consumer	1793	1648	1171	159	94	4	0	0.00	4.43	0
D923	17-025	4.68	45 1-	REC-50-L	0	0	1171	159	208	30	61	0.00	4.43	0
17-033	D923	7.30	45 1-	4ACSR	0	0	545	137	208	30	22	1.98	6.41	372
C215	17-011	3.42	0 3-	Cap (300)	2804	2614	1899	169	0	-14	0	0.00	3.21	0
D924	17-010	3.21	182 3-	ER3-WVE	2899	2712	2003	169	835	40	0	0.00	3.09	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
12-002	12-007	14.02	33 1-	4ACSR	0	0	289	113	160	25	18	0.74	14.86	117
12-001	12-007	13.24	44 1-	4ACSR	0	0	316	118	121	19	14	0.28	14.40	42
11-011	12-001	14.70	18 1-	4ACSR	0	0	269	110	58	9	7	0.34	14.74	19
CAP33	12-005	11.05	0 3-	Cap (600)	703	648	426	132	0	-26	0	0.00	9.33	0
D918	18-007	6.52	27 1-	REC-25-4H	0	0	758	151	93	13	55	0.00	5.49	0
18-008	D918	8.55	27 1-	4ACSR	0	0	484	134	93	13	10	0.90	6.39	89
11-013	18-008	10.05	11 1-	4ACSR	0	0	379	124	29	4	3	0.16	6.55	4
D917	18-006	5.13	50 1-	REC-35-L	0	0	991	157	214	31	90	0.00	4.06	0
11-014	D917	5.98	50 1-	4ACSR	0	0	763	149	214	31	23	0.99	5.04	237
11-010	11-014	9.35	21 1-	4ACSR	0	0	387	124	69	10	7	0.85	5.89	53
11-015	11-014	6.66	8 1-	4ACSR	0	0	641	144	36	5	4	0.09	5.13	3
CAP34	18-006	5.13	0 3-	Cap (300)	1584	1420	991	157	0	-13	0	0.00	4.06	0
D952	18-004	3.58	16 1-	REC-25-L	0	0	1353	163	55	8	32	0.00	2.90	0
18-005	D952	5.40	16 1-	4ACSR	0	0	714	146	55	8	6	0.36	3.26	18

CKT 5 total losses: \$26,534

SUB 4 total losses: \$90,521

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-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 1	D373	07-004	2.68	25 1-	REC-25-L	0	1036	154	81	11	45	0.00	3.75	0
	D373	D373	5.62	25 1-	4ACSR	0	475	130	81	11	8	0.79	4.54	57
1 total losses: \$27,116														
SUB 5, CKT 2														
	30-2	SUMMERSVILL(30)	0.00	313 3-	BKR-560-VWVE	5867	6199	176	1197	54	0	0.00	0.00	0
	07-035	30-2	0.39	313 3-	477ACSR	5313	5330	175	1197	54	8	0.08	0.08	107
	07-037	07-035	1.30	161 3-	3/0ACSR	3773	3595	172	531	23	8	0.16	0.25	85
	07-998	07-037	1.30	1 1-	Consumer	0	0	172	4	0	0	0.00	0.25	0
	07-997	07-037	1.30	1 1-	Consumer	0	0	172	9	1	0	0.00	0.25	0
	D302	07-037	1.30	68 1-	REC-50-L	0	0	172	207	28	56	0.00	0.25	0
	06-018	D302	2.82	68 1-	4ACSR	0	0	1133	207	28	20	1.44	1.69	310
	06-027	06-018	4.44	15 1-	4ACSR	0	0	663	38	5	4	0.20	1.89	7
	06-019	06-018	4.00	14 1-	4ACSR	0	0	749	48	6	5	0.19	1.87	8
	07-033	07-035	1.36	137 3-	3/0ACSR	3695	3511	171	588	26	9	0.22	0.30	134
	07-994	07-033	1.36	1 1-	Consumer	0	0	2842	21	2	0	0.00	0.30	0
	07-031	07-033	1.95	28 3-	4ACSR	2495	2326	1820	132	5	4	0.10	0.40	15
	07-029	07-031	3.01	10 1-	4ACSR	0	0	1060	63	8	6	0.21	0.62	12
	07-030	07-033	2.28	17 3-	3/0ACSR	2808	2595	1968	113	5	2	0.03	0.34	4
	07-990	07-030	2.28	1 3-	Consumer	2808	2595	1968	44	1	0	0.00	0.34	0
	07-041	07-030	2.45	0 3-	3/0ACSR	2689	2476	1863	0	0	0	0.00	0.34	0
	D381	07-033	1.36	22 1-	REC-50-L	0	0	2842	81	11	22	0.00	0.30	0
	07-032	D381	3.03	22 1-	4ACSR	0	0	1053	81	11	8	0.43	0.74	30
2 total losses: \$7112														
SUB 5, CKT 3														
	30-3	SUMMERSVILL(30)	0.00	405 3-	BKR-560-VWVE	5867	6199	176	1424	63	0	0.00	0.00	0
	07-034	30-3	0.41	405 3-	477ACSR	5291	5305	175	1424	63	9	0.09	0.09	163
	07-038	07-034	1.96	405 3-	3/0ACSR	3080	2869	169	1423	63	21	0.85	0.95	1447
	07-996	07-038	1.96	1 1-	Consumer	0	0	169	4	0	0	0.00	0.95	0
	07-993	07-038	1.96	0 1-	Consumer	0	0	169	0	0	0	0.00	0.95	0
	07-992	07-038	1.96	1 3-	Consumer	3080	2869	2216	6	0	0	0.00	0.95	0
	07-995	07-038	1.96	0 3-	Consumer	3080	2869	2216	0	0	0	0.00	0.95	0
	06-020	07-038	2.75	194 3-	3/0ACSR	2498	2288	1701	778	34	12	0.24	1.18	253
	06-021	06-020	3.20	152 3-	1/0ACSR	2195	1986	1457	589	26	12	0.16	1.34	137
	D316	06-021	3.20	143 3-	REC-70-L	2195	1986	1457	566	25	37	0.00	1.34	0
	06-057	D316	3.32	143 3-	1/0ACSR	2127	1919	1404	566	25	11	0.04	1.38	34
	06-058	06-057	4.32	143 3-	1/0ACSR	1666	1512	1067	565	25	11	0.38	1.76	252
	06-022	06-058	5.63	85 3-	1/0ACSR	1291	1182	811	313	14	6	0.28	2.04	104
	06-038	06-022	7.23	61 3-	1/0ACSR	1010	931	627	255	11	5	0.29	2.32	90
	06-036	06-038	7.75	32 3-	1/0ACSR	943	871	584	142	6	3	0.05	2.38	10
	D379	06-036	7.75	7 1-	REC-50-H	0	0	584	29	4	8	0.00	2.38	0
	06-034	D379	9.01	7 1-	6CU	0	0	461	29	4	3	0.12	2.49	3
	D346	06-036	7.75	20 1-	REC-25-4H	0	0	584	111	15	61	0.00	2.38	0
	06-062	D346	8.02	20 1-	4ACSR	0	0	552	111	15	11	0.17	2.55	23
	06-061	06-062	8.58	16 1-	6CU	0	0	496	84	11	10	0.21	2.76	19
	06-035	06-061	9.62	8 1-	4ACSR	0	0	415	36	4	4	0.12	2.89	4
	D318	06-038	7.23	25 1-	REC-25-H	0	0	627	84	11	47	0.00	2.32	0
	06-037	D318	8.24	25 1-	6CU	0	0	510	84	11	10	0.27	2.59	20
	D317	06-058	4.32	31 1-	REC-35-L	0	0	1067	132	18	52	0.00	1.76	0
	06-063	D317	4.78	31 1-	4ACSR	0	0	908	132	18	13	0.33	2.09	52
	06-024	06-063	5.53	20 1-	6CU	0	0	729	92	12	11	0.33	2.42	32

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
02-034	01-007	6.52	71 3-	1/0ACSR	1321	1199	810	152	315	14	6	0.16	5.55	64
02-032	02-034	7.19	36 1-	4ACSR	0	0	678	146	177	25	18	0.65	6.20	137
D312	02-032	7.19	26 1-	REC-35-H	0	0	678	146	113	16	46	0.00	6.20	0
02-011	D312	8.31	26 1-	4ACSR	0	0	529	137	113	16	11	0.74	6.94	103
02-012	02-011	10.02	22 1-	4ACSR	0	0	394	125	81	11	8	0.47	7.41	35
D360	02-034	6.52	32 1-	REC-35-4H	0	0	810	152	105	14	43	0.00	5.55	0
02-033	D360	7.58	32 1-	4ACSR	0	0	618	143	105	14	11	0.37	5.92	35
D313	01-007	5.82	63 1-	REC-35-4H	0	0	929	156	190	26	77	0.00	5.39	0
01-006	D313	8.33	63 1-	4ACSR	0	0	499	135	190	26	19	2.25	7.64	463
01-005	01-006	10.28	25 1-	4ACSR	0	0	364	122	76	10	8	0.51	8.15	35
CAE67	06-060	4.33	0 3-	Cap (150)	2096	1902	1339	163	0	-6	0	0.00	4.77	0
D305	06-056	4.11	350 3-	REC-70-L	2201	2005	1417	164	1431	66	95	0.00	4.60	0
06-053	D305	6.55	350 3-	1/0ACSR	1305	1186	801	152	1431	66	29	2.33	6.93	4308
06-013	06-053	6.98	275 3-	1/0ACSR	1215	1107	743	150	1158	54	24	0.36	7.29	569
06-026	06-013	8.06	5 1-	4ACSR	0	0	575	141	21	2	2	0.08	7.37	0
06-013	06-013	7.66	265 3-	1/0ACSR	1094	1000	667	147	1114	52	23	0.53	7.82	818
06-012	06-012	7.80	259 3-	1/0ACSR	1071	980	653	146	1060	51	22	0.12	7.94	170
06-055	06-012	8.88	233 3-	1/0ACSR	927	852	563	142	973	46	20	0.77	8.71	974
06-006	06-006	9.31	98 3-	1/0ACSR	880	809	534	140	453	21	10	0.15	8.86	88
06-054	06-006	9.31	45 1-	REC-35-4H	0	0	534	140	184	26	77	0.00	8.86	0
D307	06-054	10.68	45 1-	4ACSR	0	0	421	130	184	26	19	1.39	10.25	307
06-003	D307	12.35	15 1-	4ACSR	0	0	332	119	66	9	7	0.39	10.64	24
06-001	06-003	11.67	9 1-	4ACSR	0	0	363	123	42	6	4	0.15	10.40	6
06-002	06-003	9.31	49 1-	REC-50-L	0	0	534	140	235	34	69	0.00	8.86	0
D377	06-054	10.62	49 1-	4ACSR	0	0	424	130	235	34	24	1.77	10.63	510
06-011	D377	11.86	29 1-	6CU	0	0	356	122	151	22	19	1.13	11.77	223
01-019	01-019	12.85	12 1-	4ACSR	0	0	314	116	61	9	7	0.21	11.98	12
01-020	01-019	11.86	8 1-	REC-35-4H	0	0	356	122	55	8	23	0.00	11.77	0
D309	D309	12.31	8 1-	4ACSR	0	0	335	119	55	8	6	0.09	11.85	5
01-018	D309	8.88	115 3-	REC-35-H	927	852	563	142	407	19	19	0.00	8.71	0
D308	D308	10.14	115 3-	1/0ACSR	800	737	485	136	407	19	9	0.37	9.08	193
06-004	D308	11.17	82 3-	1/0ACSR	719	665	436	132	280	13	6	0.21	9.29	74
06-029	06-029	13.25	29 1-	4ACSR	0	0	326	119	84	12	9	0.60	9.89	47
06-032	06-029	11.87	47 1-	4ACSR	0	0	392	127	148	21	15	0.60	9.90	111
06-031	06-032	14.33	18 1-	4ACSR	0	0	287	113	45	6	5	0.39	10.28	16
06-033	06-032	13.43	16 1-	4ACSR	0	0	319	118	55	8	6	0.30	10.19	15
D363	06-033	13.43	0 1-	REC-35-4H	0	0	319	118	0	0	0	0.00	10.19	0
06-028	06-004	12.04	18 1-	4ACSR	0	0	362	123	57	8	6	0.37	9.46	20
D306	06-055	7.80	26 1-	REC-35-H	0	0	653	146	85	12	35	0.00	7.94	0
06-007	D306	8.59	26 1-	4ACSR	0	0	551	140	85	12	9	0.41	8.35	44
06-009	06-007	9.36	16 1-	4ACSR	0	0	475	134	54	7	6	0.25	8.60	17
06-010	06-009	11.05	13 1-	4ACSR	0	0	365	123	40	5	4	0.23	8.83	9
06-008	06-007	9.49	5 1-	4ACSR	0	0	464	133	13	1	1	0.04	8.39	0
C184	06-012	7.66	0 3-	Cap (150)	1094	1000	667	147	0	-6	0	0.00	7.82	0
D372	06-053	6.55	22 1-	REC-25-H	0	0	801	152	58	8	33	0.00	6.93	0
06-014	D372	9.10	22 1-	4ACSR	0	0	456	131	58	8	6	0.50	7.44	27

CKT 4 total losses: \$36,159



LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-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	MCKINNEY(40)		1669		5063	5482	5467	176	6648					
SUB 6, CKT 1														
40-1	MCKINNEY(40)	0.00	623	3-	5063	5482	5467	176	2576	115	0	0.00	0.00	0
14-041	40-1	0.95	623	3-	3350	3146	2684	170	2576	115	50	1.66	1.66	5444
14-066	14-041	1.37	564	3-	2855	2625	2151	168	2302	104	45	0.66	2.32	1957
14-084	14-066	1.65	532	3-	2593	2375	1897	167	2138	97	42	0.42	2.73	1180
D425	14-084	1.65	524	3-	2593	2375	1897	167	2096	95	95	0.00	2.73	0
13-428	D425	2.20	524	3-	2190	2011	1538	164	2096	95	41	0.79	3.52	2200
13-427	13-428	3.21	11	1-	0	0	984	154	66	9	7	0.22	3.74	13
13-029	13-428	2.96	497	3-	1800	1659	1221	160	1943	89	39	0.99	4.52	2585
13-027	13-029	4.14	469	3-	1400	1296	920	154	1799	83	36	1.43	5.95	3483
13-026	13-027	4.54	152	3-	1300	1205	848	152	635	30	13	0.19	6.14	153
13-025	13-026	5.17	102	3-	1171	1087	757	149	388	18	8	0.16	6.29	73
13-997	13-025	5.17	82	3-	1171	1087	757	149	266	12	51	0.00	6.29	0
D426	13-025	5.17	82	3-	1087	1010	699	147	266	12	6	0.09	6.39	31
13-023	D426	5.65	82	3-	0	0	529	137	80	11	10	0.34	6.72	24
13-022	13-023	6.91	27	1-	0	0	454	131	148	21	15	1.04	7.43	139
13-021	13-022	7.71	47	1-	0	0	848	152	178	25	73	0.00	6.14	0
D406	13-021	4.54	38	1-	0	0	614	142	178	25	18	1.19	7.33	251
13-016	D406	5.76	38	1-	0	0	458	131	110	15	11	0.55	7.88	55
13-017	13-016	7.21	23	1-	0	0	920	154	1029	48	69	0.00	5.95	0
D420	13-017	4.14	282	3-	1400	1296	732	148	1029	48	21	0.78	6.73	1199
13-010	D420	5.37	282	3-	1134	1054	639	144	876	41	18	0.45	7.18	610
13-011	13-010	6.24	237	3-	999	930	618	143	525	26	11	0.06	7.24	70
13-012	13-011	6.47	143	3-	969	902	618	143	502	24	10	0.13	7.38	88
13-038	13-012	6.82	140	3-	925	862	589	142	62	2	2	0.01	7.38	0
13-007	13-038	6.91	18	3-	905	845	578	141	0	0	0	0.00	7.38	0
D427	13-007	6.91	0	1-	0	0	578	141	0	0	0	0.00	7.38	0
13-013	13-007	7.43	114	3-	801	754	520	137	410	19	14	0.40	7.78	214
D437	13-013	7.43	98	3-	801	754	520	137	305	14	42	0.00	7.78	0
13-003	D437	7.75	69	3-	745	706	489	135	236	11	8	0.13	7.90	40
13-002	13-003	8.94	53	3-	593	570	401	127	182	8	6	0.22	8.12	39
13-999	13-002	8.94	0	1-	0	0	401	127	0	0	0	0.00	8.12	0
13-998	13-002	8.94	1	1-	0	0	401	127	15	2	0	0.00	8.12	0
13-004	13-998	8.79	29	1-	0	0	410	127	70	10	7	0.33	8.10	21
C109	D437	6.47	0	3-	969	902	618	143	0	-13	0	0.00	7.24	0
D402	13-012	6.24	69	1-	0	0	639	144	236	34	97	0.00	7.18	0
13-015	D402	6.96	69	1-	0	0	546	139	236	34	24	1.04	8.22	311
13-018	13-015	8.07	58	1-	0	0	445	130	185	26	19	1.14	9.36	252
D438	13-018	8.07	34	1-	0	0	445	130	111	16	65	0.00	9.36	0
13-001	D438	10.20	34	1-	0	0	326	117	111	16	12	1.21	10.57	154
13-019	13-001	11.09	8	1-	0	0	293	112	24	3	3	0.08	10.64	2
13-020	13-019	11.81	7	1-	0	0	271	109	27	4	3	0.15	10.72	4
D431	13-020	5.37	19	1-	0	0	732	148	57	8	32	0.00	6.73	0
13-008	D431	6.45	19	1-	0	0	565	139	57	8	6	0.21	6.94	11
D430	13-008	2.96	9	1-	0	0	1221	160	40	5	16	0.00	4.52	0
13-028	D430	4.08	9	1-	0	0	812	149	40	5	4	0.15	4.67	5
D421	14-041	0.95	36	1-	0	0	2684	170	121	16	47	0.00	1.66	0
14-044	D421	3.53	36	1-	0	0	750	145	121	16	12	1.02	2.68	107
CKT 1	total losses:	\$20,715												

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS	
13-024	13-033	8.52	15 1-	4ACSR	0	0	389	124	60	8	6	0.27	7.69	15	
13-034	13-033	8.14	13 1-	4ACSR	0	0	412	127	56	8	6	0.18	7.60	9	
D410	13-032	5.25	81 3-	REC-35-L	1154	1072	746	149	239	11	32	0.00	5.39	0	
13-036	D410	6.54	81 1-	4ACSR	0	0	550	138	239	33	24	1.78	7.17	521	
13-035	13-036	7.83	12 1-	4ACSR	0	0	433	129	44	6	4	0.19	7.37	8	
20-001	13-036	7.83	12 1-	4ACSR	0	0	433	129	44	6	4	0.19	7.37	8	
20-002	13-036	8.56	34 1-	4ACSR	0	0	386	124	83	11	9	0.57	7.75	43	
D409	13-031	4.86	29 1-	REC-35-4H	0	0	799	151	76	10	31	0.00	5.25	0	
20-003	D409	7.16	29 1-	4ACSR	0	0	473	132	76	10	8	0.59	5.85	40	
D429	14-063	3.00	15 1-	REC-35-L	0	0	1206	160	47	6	19	0.00	4.39	0	
14-064	D429	4.77	15 1-	4ACSR	0	0	672	143	47	6	5	0.28	4.67	12	
D434	14-042	1.17	14 1-	REC-35-L	0	0	2375	169	71	9	28	0.00	2.33	0	
14-098	D434	1.71	14 1-	6CU	0	0	1656	163	71	9	8	0.17	2.51	13	
14-093	14-098	3.04	10 1-	4ACSR	0	0	904	151	29	4	3	0.13	2.63	3	
CKT 2 total losses:		\$23,920													
SUB 6, CKT 3	MCKINNEY (40)	0.00	314 3-	BKR-560-VWVE	5063	5482	5467	176	1238	55	0	0.00	0.00	0	
40-3	40-3	0.18	314 3-	1/0ACSR	4664	4668	4641	175	1238	55	24	0.15	0.15	244	
14-040	14-040	0.36	306 3-	1/0ACSR	4305	4239	4005	174	1196	54	24	0.15	0.30	226	
14-238	14-238	0.65	62 1-	4ACSR	0	0	2946	170	181	24	18	0.31	0.61	66	
D403	14-036	0.65	55 1-	REC-50-L	0	0	2946	170	143	19	39	0.00	0.61	0	
14-095	D403	1.17	55 1-	6CU	0	0	1923	165	143	19	16	0.42	1.03	72	
14-032	14-095	1.68	48 1-	4ACSR	0	0	1411	160	111	15	11	0.36	1.39	50	
14-237	14-032	2.82	7 1-	4ACSR	0	0	870	149	20	2	2	0.07	1.46	0	
D405	14-032	1.68	39 1-	REC-35-L	0	0	1411	160	85	11	33	0.00	1.39	0	
14-046	D405	3.23	39 1-	4ACSR	0	0	764	145	85	11	8	0.67	2.06	63	
14-092	14-046	4.50	26 1-	4ACSR	0	0	555	135	47	6	5	0.31	2.37	16	
14-047	14-092	5.91	15 1-	6CU	0	0	427	126	28	3	3	0.12	2.49	3	
14-037	14-238	1.39	235 3-	1/0ACSR	2833	2602	2128	168	961	43	19	0.68	0.99	786	
14-067	14-037	2.76	156 3-	1/0ACSR	1889	1740	1291	161	633	28	13	0.55	1.54	405	
14-038	14-067	3.76	106 3-	1/0ACSR	1507	1394	999	156	462	21	9	0.30	1.84	162	
14-003	14-038	4.57	46 3-	1/0ACSR	1294	1200	844	152	266	12	5	0.16	2.00	53	
14-427	14-003	4.82	17 3-	3/0ACSR	1254	1162	814	151	173	7	3	0.02	2.02	4	
14-097	14-427	5.41	14 3-	3/0ACSR	1166	1079	751	149	162	7	2	0.03	2.05	5	
14-008	14-097	5.87	10 3-	4ACSR	1017	952	666	145	69	3	2	0.03	2.09	2	
14-994	14-008	5.87	1 3-	Consumer	1017	952	666	145	13	0	0	0.00	2.09	0	
D428	14-003	4.57	26 1-	REC-35-H	0	0	844	152	83	11	33	0.00	2.00	0	
14-034	D428	6.37	26 1-	6CU	0	0	542	137	83	11	10	0.48	2.48	35	
D417	14-038	3.76	34 1-	REC-50-4H	0	0	999	156	78	10	22	0.00	1.84	0	
14-002	D417	6.96	34 1-	4ACSR	0	0	453	130	78	10	8	0.88	2.72	62	
14-981	14-002	6.96	1 1-	Consumer	0	0	453	130	6	0	0	0.00	2.72	0	
D418	14-037	1.39	52 2-	REC-50-L	0	2602	2128	168	185	12	25	0.00	0.99	0	
14-039	D418	2.47	52 2-	4ACSR	0	1505	1167	157	185	12	9	0.46	1.45	98	
13-006	14-039	3.62	28 1-	4ACSR	0	0	771	146	79	10	8	0.30	1.75	20	
13-037	14-039	3.06	4 1-	4ACSR	0	0	926	151	30	4	3	0.06	1.51	0	
C189	14-040	0.18	0 3-	Cap (150)	4664	4668	4641	175	0	-7	0	0.00	0.15	0	
CKT 3 total losses:		\$2,372													

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-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	MILELANE(10)		2764		5664	5942	5976	176	10542					
SUB 7, CKT 1				BKR-560-VWVE	5664	5942	5976	176	2342	104	0	0.00	0.00	0
10-1	MILELANE(10)	0.00	557 3-		4465	4385	3829	174	2342	104	31	0.53	0.53	1576
03-074	10-1	0.66	557 3-	4/OACSR	3983	3818	3181	172	344	15	7	0.03	0.57	10
03-059	03-074	0.92	105 3-	1/OACSR	3794	3615	2813	172	1900	84	16	0.28	0.81	692
03-073	03-073	1.39	426 3-	336ACSR	3684	3495	2673	171	1734	79	15	0.06	0.88	126
03-063	03-073	1.54	385 3-	336ACSR	2598	2379	1560	166	1545	70	13	0.69	1.57	1112
03-063	03-063	3.56	343 3-	336ACSR	2498	2281	1476	165	874	40	8	0.06	1.63	59
03-036	03-034	3.83	189 3-	336ACSR		0	1302	162	52	7	5	0.05	1.68	2
03-035	03-036	4.10	9 1-	4ACSR		0	1476	165	774	35	51	0.00	1.63	0
D147	03-036	3.83	174 3-	REC-70-L	2498	2281	1402	164	774	35	7	0.05	1.68	43
03-021	D147	4.10	174 3-	336ACSR	2405	2191	1402	164	558	25	18	1.43	3.11	983
03-020	03-021	5.80	128 3-	4ACSR	1183	1113	759	148	8	1	0	0.00	3.11	0
03-998	03-020	5.80	1 1-	Consumer	0	0	759	148	8	1	0	0.00	3.11	0
03-019	03-020	6.56	64 3-	4ACSR	941	899	624	142	300	13	10	0.32	3.44	115
D106	03-019	6.56	49 1-	REC-50-H	0	0	624	142	177	24	49	0.00	3.44	0
03-006	D106	7.16	49 1-	4ACSR	0	0	546	137	177	24	18	0.63	4.07	136
03-005	03-006	7.72	8 1-	4ACSR	0	0	489	133	26	3	3	0.05	4.12	0
03-007	03-006	8.48	30 1-	4ACSR	0	0	427	128	110	15	11	0.49	4.55	47
D134	03-020	5.80	25 1-	REC-25-4H	0	0	759	148	85	11	48	0.00	3.11	0
D116	03-020	7.46	25 1-	4ACSR	0	0	513	135	85	11	8	0.47	3.58	35
03-022	03-021	4.10	33 1-	REC-25-L	0	0	1402	164	124	16	68	0.00	1.68	0
D136	03-022	6.49	33 1-	4ACSR	0	0	633	142	124	16	12	0.97	2.65	104
03-037	03-034	3.56	67 1-	REC-35-H	0	0	1560	166	241	33	95	0.00	1.57	0
D105	03-037	5.54	67 1-	4ACSR	0	0	740	147	241	33	24	1.56	3.13	327
03-038	03-063	1.54	39 1-	REC-35-L	0	0	2673	171	178	24	69	0.00	0.88	0
C173	D105	4.04	39 1-	4ACSR	0	0	777	147	178	24	17	1.45	2.33	223
1 total losses:	03-073	1.39	0 3-	Cap (300)	3794	3615	2813	172	0	-14	0	0.00	0.81	0
		\$5,590												
SUB 7, CKT 2				BKR-560-VWVE	5664	5942	5976	176	1118	50	0	0.00	0.00	0
10-2	MILELANE(10)	0.00	349 3-		3749	3584	2891	172	1118	50	15	0.50	0.50	615
03-060	10-2	1.22	349 3-	4/OACSR	2533	2300	1721	166	936	42	18	0.44	0.94	380
03-057	03-060	2.31	315 3-	1/OACSR	1844	1678	1194	160	163	7	3	0.08	1.02	11
03-055	03-057	3.46	36 3-	1/OACSR	0	0	1194	160	16	2	0	0.00	1.02	0
08-909	03-055	3.46	1 1-	Consumer										
2 total losses:		\$1,006												
SUB 7, CKT 3				BKR-560-VWVE	5664	5942	5976	176	2215	98	0	0.00	0.00	0
10-3	MILELANE(10)	0.00	521 3-		3473	3290	2660	171	2215	98	33	1.19	1.19	3274
03-064	10-3	1.32	521 3-	3/OACSR	2362	2135	1613	165	1824	81	36	1.33	2.52	3197
03-033	03-064	2.44	444 3-	1/OACSR	1995	1815	1324	162	1656	75	33	0.67	3.20	1520
03-032	03-033	3.04	411 3-	1/OACSR	1779	1624	1163	159	1620	75	33	0.56	3.76	1156
03-072	03-032	3.51	404 3-	1/OACSR	1711	1565	1114	158	1475	68	30	0.18	3.94	345
03-031	03-072	3.67	378 3-	1/OACSR	1555	1425	1003	156	1085	50	22	0.37	4.31	516
03-075	03-031	4.12	288 3-	1/OACSR	1555	1425	1003	156	1082	50	73	0.00	4.31	0
D103	03-075	4.12	288 3-	REC-70-L	1362	1253	869	153	1082	50	22	0.54	4.85	742
03-027	D103	4.79	288 3-	1/OACSR	1073	992	675	146	999	47	20	1.02	5.86	1244
03-025	03-027	6.25	270 3-	1/OACSR	1022	949	647	145	566	26	19	0.18	6.04	141
03-079	03-025	6.42	167 3-	4ACSR	778	738	512	136	358	17	12	0.66	6.69	313
03-024	03-079	7.52	100 3-	4ACSR	0	0	512	136	81	11	47	0.00	6.69	0
D109	03-024	7.52	22 1-	REC-25-H										

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
D140	02-038	7.71	50 1-	REC-35-H	0	0	487	134	195	27	78	0.00	4.02	0
02-043	D140	8.54	50 1-	4ACSR	0	0	423	128	195	27	20	1.00	5.02	246
02-016	02-043	8.86	6 1-	4ACSR	0	0	402	126	41	5	4	0.04	5.06	0
02-007	02-043	11.13	35 1-	4ACSR	0	0	298	113	124	17	12	1.08	6.09	119
C167	02-018	7.70	0 3-	Cap (300)	744	707	489	134	0	-14	0	0.00	4.02	0
D139	02-039	4.51	28 1-	REC-35-L	0	0	867	152	81	11	32	0.00	3.33	0
02-023	D139	6.74	28 1-	4ACSR	0	0	502	134	81	11	8	0.60	3.93	43
D112	03-066	2.12	112 3-	REC-50-L	2369	2166	1627	164	495	22	46	0.00	2.37	0
08-003	D112	3.13	112 3-	1/OACSR	1802	1659	1189	159	495	22	10	0.36	2.72	219
08-171	08-003	3.20	77 3-	1/OACSR	1772	1631	1167	159	288	13	6	0.01	2.74	5
08-002	08-171	4.50	73 1-	4ACSR	0	0	747	147	244	33	24	1.05	3.78	224
D143	08-003	3.13	26 1-	REC-25-L	0	0	1189	159	160	22	89	0.00	2.72	0
08-001	D143	4.59	26 1-	4ACSR	0	0	722	146	160	22	16	1.30	4.03	246
07-092	08-001	5.14	12 1-	4ACSR	0	0	628	141	70	9	7	0.13	4.16	8
02-024	08-001	5.81	6 1-	4ACSR	0	0	541	136	38	5	4	0.16	4.18	5
CKT 4 total losses: \$8,683														
SUB 7, CKT 5	MILLELANE (10)	0.00	408 3-	BKR-560-VWVE	5664	5942	5976	176	976	44	0	0.00	0.00	0
10-5	10-5	0.64	408 3-	3/OACSR	4390	4302	3788	173	976	44	15	0.29	0.29	328
03-065	03-065	2.40	215 3-	3/OACSR	2568	2362	1784	167	476	21	7	0.20	0.49	78
08-016	08-016	2.40	0 3-	Consumer	2568	2362	1784	167	0	0	0	0.00	0.49	0
08-936	03-065	0.64	166 3-	REC-100-L	4390	4302	3788	173	403	18	18	0.00	0.29	0
D119	D119	1.66	166 3-	1/OACSR	2904	2663	2084	168	403	18	8	0.15	0.44	51
08-092	D119	1.66	166 3-	1/OACSR	2904	2663	2084	168	403	18	8	0.15	0.44	51
CKT 5 total losses: \$457														
SUB 7, CKT 6	MILLELANE (10)	0.00	508 3-	BKR-560-VWVE	5664	5942	5976	176	1950	87	0	0.00	0.00	0
10-6	10-6	1.00	508 3-	4/OACSR	4001	3861	3198	173	1950	87	26	0.67	0.67	1524
03-071	03-071	3.36	435 3-	4/OACSR	2258	2063	1457	165	1664	74	22	1.20	1.87	2226
03-058	03-058	3.52	251 3-	4/OACSR	2192	1999	1405	164	981	44	13	0.05	1.92	71
03-041	03-041	5.42	220 3-	4/OACSR	1622	1459	984	158	872	39	12	0.50	2.42	560
03-040	03-040	5.42	185 3-	REC-35-L	1622	1459	984	158	706	32	91	0.00	2.42	0
D130	D130	5.60	185 3-	4/OACSR	1581	1420	956	157	706	32	9	0.04	2.46	41
03-081	03-081	5.86	94 3-	4/OACSR	1528	1371	919	156	327	15	5	0.02	2.48	14
03-014	03-014	5.98	91 3-	4/OACSR	1504	1349	903	156	321	14	4	0.02	2.50	6
03-078	03-078	6.52	43 1-	4ACSR	0	0	772	151	172	23	17	0.53	3.03	109
03-016	03-016	7.91	13 1-	4ACSR	0	0	555	139	59	8	6	0.27	3.30	14
03-039	03-016	7.32	20 1-	4ACSR	0	0	631	144	66	9	7	0.18	3.21	10
03-017	03-016	7.49	48 3-	4/OACSR	1476	1322	884	156	149	6	2	0.01	2.51	0
03-015	03-015	7.49	45 1-	4ACSR	0	0	619	143	139	19	14	0.99	3.49	156
03-008	03-008	8.72	22 1-	4ACSR	0	0	482	134	81	11	8	0.33	3.83	24
03-009	03-014	5.86	0 3-	Cap (150)	1528	1371	919	156	0	-7	0	0.00	2.48	0
C142	03-081	6.47	86 1-	4ACSR	0	0	740	149	342	47	34	1.85	4.32	803
03-013	03-013	7.10	41 1-	4ACSR	0	0	632	144	125	17	13	0.27	4.58	30
03-077	03-013	8.09	36 1-	4ACSR	0	0	512	136	175	24	18	0.95	5.27	148
03-010	03-041	3.52	30 1-	REC-35-L	0	0	1405	164	107	14	42	0.00	1.92	0
D131	D131	4.81	30 1-	4ACSR	0	0	856	151	107	14	11	0.50	2.43	50
03-042	03-042	4.81	1 1-	Consumer	0	0	856	151	12	1	0	0.00	2.43	0
03-996	03-058	3.36	33 1-	REC-35-L	0	0	1457	165	141	19	56	0.00	1.87	0
D132	D132	5.18	33 1-	4ACSR	0	0	746	147	141	19	14	0.84	2.71	103
03-053	D132	5.18	33 1-	4ACSR	0	0	746	147	141	19	14	0.84	2.71	103
CKT 6 total losses: \$5,889														

LINE SECT	PRIOR SECT	MILES	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 8	BASS(80)		1711		5046	5417	5491	176	7072					
SUB 8, CKT 1														
80-1	BASS(80)	0.00	300 3-	BKR-560-VWVE	5046	5417	5491	176	1233	55	0	0.00	0.00	0
09-015	80-1	0.85	300 3-	397ACSR	4181	4171	3784	174	1233	55	9	0.22	0.22	307
09-047	09-015	1.11	282 3-	397ACSR	3963	3913	3437	174	1143	51	9	0.06	0.29	83
10-025	09-047	2.50	170 3-	397ACSR	3099	2949	2307	171	723	32	6	0.21	0.50	168
10-135	10-025	2.85	117 3-	397ACSR	2934	2776	2127	170	506	22	4	0.04	0.54	22
10-128	10-135	3.88	0 3-	4ACSR	1743	1632	1220	159	0	0	0	0.00	0.54	0
D819	10-128	2.85	117 1-	REC-70-L	0	0	2127	170	506	68	98	0.00	0.54	0
10-134	D819	3.24	117 1-	4ACSR	0	0	1685	166	506	68	49	1.24	1.78	796
10-131	10-134	5.09	109 1-	6CU	0	0	798	148	475	65	54	4.95	6.73	2846
REG50	10-131	5.09	79 1-	100	0	0	798	148	352	50	50	0.00	6.73	0
10-004	REG50	5.82	79 1-	4ACSR	0	0	652	142	352	50	36	1.65	8.38	765
10-003	10-004	6.60	0 1-	4ACSR	0	0	546	136	0	0	0	0.00	8.38	0
D832	10-003	5.82	72 1-	REC-50-H	0	0	652	142	311	44	90	0.00	8.38	0
10-005	D832	7.19	72 1-	4ACSR	0	0	485	132	311	44	32	2.61	10.99	1047
05-005	10-005	9.66	57 1-	4ACSR	0	0	331	116	240	35	25	2.67	13.66	695
05-999	05-005	9.66	1 1-	Consumer	0	0	331	116	69	10	0	0.00	13.66	0
D830	10-025	2.50	45 1-	REC-50-L	0	0	2307	171	174	23	47	0.00	0.50	0
10-139	D830	3.02	45 1-	6CU	0	0	1675	165	174	23	20	0.43	0.93	81
09-053	10-139	5.08	23 1-	4ACSR	0	0	736	146	88	11	9	0.58	1.50	44
D818	09-053	1.11	79 1-	REC-70-L	0	0	3437	174	320	43	62	0.00	0.29	0
10-050	D818	2.85	79 1-	4ACSR	0	0	1111	155	320	43	31	3.22	3.51	1249
10-002	10-050	3.85	64 1-	4ACSR	0	0	779	146	253	35	25	1.46	4.96	450
D833	10-002	3.85	53 1-	REC-50-H	0	0	779	146	189	26	53	0.00	4.96	0
10-001	D833	4.66	53 1-	4ACSR	0	0	626	140	189	26	19	0.94	5.90	227
05-003	10-001	5.82	36 1-	4ACSR	0	0	489	131	121	17	12	0.81	6.71	120
05-004	05-003	6.45	29 1-	4ACSR	0	0	436	127	88	12	9	0.18	6.90	15
05-002	10-001	5.95	5 1-	4ACSR	0	0	477	130	39	5	4	0.17	6.07	6
D825	09-047	1.11	30 1-	REC-50-L	0	0	3437	174	75	10	20	0.00	0.29	0
09-029	D825	5.08	30 1-	4ACSR	0	0	568	137	75	10	7	0.94	1.23	61
D829	09-029	0.85	12 1-	REC-70-L	0	0	3784	174	57	7	11	0.00	0.22	0
05-009	D829	4.64	12 1-	4ACSR	0	0	600	138	57	7	6	0.69	0.91	34
CKT 1	total losses:	\$9,016												
SUB 8, CKT 2														
80-2	BASS(80)	0.00	521 3-	BKR-560-VWVE	5046	5417	5491	176	2208	98	0	0.00	0.00	0
09-016	80-2	1.73	521 3-	3/OACSR	2885	2721	2177	169	2208	98	33	1.69	1.69	4617
09-051	09-016	1.77	11 3-	3/OACSR	2849	2684	2141	169	72	3	1	0.00	1.69	0
D844	09-051	1.77	11 1-	REC-25-L	0	0	2141	169	72	9	39	0.00	1.69	0
09-028	D844	3.09	11 1-	4ACSR	0	0	1068	155	72	9	7	0.31	2.00	19
09-017	09-016	2.62	494 3-	3/OACSR	2321	2143	1634	166	2014	91	30	0.78	2.47	1962
09-048	09-017	3.26	471 3-	1/OACSR	1960	1778	1327	162	1836	84	37	0.86	3.33	2023
09-027	09-048	4.88	360 3-	1/OACSR	1386	1264	895	154	1400	64	28	1.53	4.86	2621
R101	09-027	4.88	301 3-	150	1386	1264	895	154	1127	52	35	0.00	4.86	0
14-078	R101	4.96	179 3-	1/OACSR	1368	1247	881	154	690	32	14	0.04	4.90	35
D840	14-078	4.96	179 3-	REC-100-L	1368	1247	881	154	690	32	32	0.00	4.90	0
09-039	D840	5.65	179 3-	1/OACSR	1215	1112	775	151	690	32	14	0.35	5.25	312
09-038	09-039	6.33	151 3-	1/OACSR	1093	1004	692	147	566	26	12	0.28	5.53	202
09-037	09-038	7.71	45 3-	1/OACSR	907	837	568	141	203	9	4	0.11	5.63	19
D804	09-037	7.71	0 3-	REC-35-4H	907	837	568	141	0	0	0	0.00	5.63	0
D805	09-038	6.33	100 3-	REC-50-4H	1093	1004	692	147	312	14	10	0.00	5.53	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
D809	04-021	4.08	317 3-	REC-70-L	1910	1743	1227	162	1421	65	94	0.00	4.36	0
09-007	D809	5.31	317 3-	2CU	1503	1348	953	156	1421	65	30	1.08	5.44	1998
04-998	09-007	5.31	1 1-	Consumer	0	0	953	156	48	6	0	0.00	5.44	0
09-046	09-007	5.97	261 3-	2CU	1343	1211	849	153	1120	52	24	0.51	5.95	734
09-998	09-046	5.97	1 3-	Consumer	1343	1211	849	153	39	1	0	0.00	5.95	0
09-006	09-046	7.49	109 3-	2CU	1073	977	677	147	462	21	10	0.36	6.32	183
09-052	09-006	7.65	14 3-	2CU	1051	957	663	146	96	4	2	0.01	6.33	0
09-049	09-052	7.93	13 3-	3/OACSR	1021	930	643	145	88	4	1	0.01	6.33	0
D815	09-006	7.49	31 1-	REC-50-H	0	0	677	147	100	14	28	0.00	6.32	0
09-003	D815	8.06	31 1-	6CU	0	0	595	142	100	14	12	0.29	6.60	33
09-002	09-003	8.62	16 1-	4ACSR	0	0	529	138	53	7	5	0.15	6.75	9
09-001	09-002	9.75	9 1-	4ACSR	0	0	432	129	27	3	3	0.10	6.85	2
D814	09-046	5.97	130 3-	REC-50-H	1343	1211	849	153	487	22	15	0.00	5.95	0
04-019	D814	8.15	130 3-	1/OACSR	966	882	598	143	487	22	10	0.68	6.63	396
04-016	04-019	9.38	7 1-	4ACSR	0	0	471	134	19	2	2	0.08	6.71	0
04-018	04-019	9.71	27 1-	4ACSR	0	0	445	131	118	16	12	0.62	7.25	66
04-015	04-019	9.28	55 1-	4ACSR	0	0	480	134	198	28	20	1.23	7.86	291
04-014	04-015	11.12	38 1-	4ACSR	0	0	359	122	125	18	13	0.79	8.64	90
C209	09-007	5.31	0 3-	Cap (150)	1503	1348	953	156	0	-6	0	0.00	5.44	0
D808	09-011	3.81	44 1-	REC-35-L	0	0	1296	163	175	24	70	0.00	4.12	0
04-023	D808	7.00	44 1-	4ACSR	0	0	515	135	175	24	17	1.84	5.96	286
D843	09-010	1.83	7 1-	REC-35-L	0	0	2194	170	52	7	20	0.00	2.12	0
09-009	D843	2.94	7 1-	4ACSR	0	0	1188	158	52	7	5	0.19	2.31	9
D807	09-014	0.78	73 1-	REC-70-L	0	0	3396	173	249	33	48	0.00	0.98	0
09-018	D807	4.49	73 1-	4ACSR	0	0	599	138	249	33	24	4.62	5.59	1277
09-005	09-018	5.66	10 1-	4ACSR	0	0	471	130	35	4	4	0.13	5.73	4
D836	09-018	4.49	28 1-	REC-25-H	0	0	599	138	99	14	56	0.00	5.59	0
09-008	D836	7.06	28 1-	4ACSR	0	0	375	121	99	14	10	0.85	6.44	76
D801	09-045	0.18	81 1-	REC-70-L	0	0	4837	175	248	33	48	0.00	0.24	0
09-013	D801	2.31	81 1-	4ACSR	0	0	1037	153	248	33	24	2.61	2.85	711
09-012	09-013	3.53	5 1-	4ACSR	0	0	696	143	17	2	2	0.07	2.91	0
04-024	09-013	4.06	37 1-	4ACSR	0	0	608	138	117	16	12	0.67	3.51	69

CKT 3 total losses: \$26,735  
 SUB 8 total losses: \$50,478

File: TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION - CAMPBELLSVILLE, KENTUCKY  
 Appendix 1 - 2011-2013 CONSTRUCTION WORK PLAN  
 Existing January 2010 System  
 Peterson & 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 DROPS	TOTAL DROPS	LINE LOSS
D525	08-126	7.47	79 1-	REC-50-L	0	0	624	144	239	33	68	0.00	5.13	0
15-003	D525	8.31	79 1-	4ACSR	0	0	522	137	239	33	24	1.22	6.35	366
15-004	15-003	8.80	35 1-	4ACSR	0	0	476	133	117	16	12	0.30	6.55	41
15-257	15-004	10.63	20 1-	4ACSR	0	0	357	121	64	9	7	0.40	7.05	23
15-002	15-003	10.37	31 1-	4ACSR	0	0	371	123	73	10	7	0.52	6.86	34
D522	15-059	4.92	93 3-	REC-50-L	1821	1656	1116	161	1172	54	110	0.00	4.04	0
08-082	D522	5.85	93 3-	4ACSR	1302	1194	822	152	1172	54	39	1.85	5.89	2916
08-925	08-082	5.85	1 3-	Consumer	1302	1194	822	152	226	10	0	0.00	5.89	0
08-924	08-082	5.85	1 3-	Consumer	1302	1194	822	152	5	0	0	0.00	5.89	0
08-923	08-082	5.85	1 3-	Consumer	1302	1194	822	152	477	22	0	0.00	5.89	0
08-081	08-082	7.18	74 3-	1/0ACSR	1054	972	658	146	333	15	7	0.17	6.07	50
C191	15-192	4.01	0 3-	Cap (150)	2154	1979	1351	164	0	-7	0	0.00	3.20	0
15-129	15-005	4.28	16 3-	4ACSR	1662	1517	1078	158	68	3	2	0.04	3.01	3
15-180	15-060	3.78	14 3-	4ACSR	1789	1632	1183	160	96	4	3	0.08	2.81	8
15-006	15-180	4.23	1 3-	2URD	1530	1408	1041	342	35	1	1	0.02	2.83	0
15-991	15-006	4.23	1 3-	Consumer	1530	1408	1041	342	35	1	0	0.00	2.83	0
D520	15-019	1.53	58 1-	REC-50-L	0	0	2422	171	202	27	56	0.00	1.79	0
15-021	D520	2.85	58 1-	4ACSR	0	0	1145	157	202	27	20	1.30	3.09	285
15-062	15-021	3.77	23 1-	4ACSR	0	0	821	148	97	13	10	0.45	3.54	48
15-026	15-062	4.65	9 1-	4ACSR	0	0	643	141	50	7	5	0.15	3.68	6
15-258	15-062	3.90	0 1-	4ACSR	0	0	788	147	0	0	0	0.00	3.54	0
15-989	15-019	1.53	1 3-	Consumer	3081	2960	2422	171	294	13	0	0.00	1.79	0
15-076	15-254	1.13	14 1-	4ACSR	0	0	2541	170	126	17	12	0.13	1.44	19
119774	15-076	1.54	11 1-	1/0URD	0	0	2016	407	83	11	5	0.14	1.58	15
15-255	119774	1.79	11 1-	4ACSR	0	0	1712	165	83	11	8	0.07	1.65	5
CKT 2 total Losses: \$17,746														
SUB 9, CKT 3														
50-3	COBURG (50)	0.00	674 3-	BKR-560-VWVE	4505	4990	5028	176	2987	135	0	0.00	0.00	0
15-013	50-3	0.65	674 3-	3/0ACSR	3625	3615	3344	173	2987	135	45	0.96	0.96	3367
15-996	15-013	0.65	0 3-	Consumer	3625	3615	3344	173	0	0	0	0.00	0.96	0
15-012	15-013	1.33	657 3-	3/0ACSR	2975	2861	2435	170	2825	129	43	0.95	1.91	3169
15-997	15-012	1.33	1 1-	Consumer	0	0	2435	170	26	3	0	0.00	1.91	0
15-038	15-012	3.48	566 3-	3/0ACSR	1850	1693	1282	162	2479	114	38	2.51	4.42	7212
15-040	15-038	4.22	211 3-	3/0ACSR	1632	1481	1101	159	1025	48	16	0.37	4.78	451
D532	15-040	4.22	162 3-	REC-70-L	1632	1481	1101	159	792	37	53	0.00	4.78	0
15-042	D532	5.80	162 3-	3/0ACSR	1301	1171	844	154	792	37	12	0.58	5.36	532
15-132	15-042	6.36	9 3-	3/0ACSR	1214	1093	780	152	47	2	1	0.01	5.37	0
15-041	15-042	8.10	137 3-	1/0ACSR	934	852	588	143	590	27	12	0.92	6.28	651
16-014	15-041	8.54	85 3-	1/0ACSR	885	808	555	141	345	16	7	0.10	6.38	43
D557	16-014	8.54	43 1-	REC-50-H	0	0	555	141	158	22	45	0.00	6.38	0
16-015	D557	10.34	43 1-	6CU	0	0	408	128	158	22	19	0.95	7.33	136
16-013	16-014	9.28	25 1-	4ACSR	0	0	483	136	96	13	10	0.24	6.63	21
D559	15-041	8.10	23 1-	REC-25-4H	0	0	588	143	95	13	54	0.00	6.28	0
16-029	D559	9.54	23 1-	4ACSR	0	0	448	132	95	13	10	0.47	6.75	40
D550	15-040	4.22	39 1-	REC-25-L	0	0	1101	159	134	18	76	0.00	4.78	0
15-043	D550	5.51	39 1-	4ACSR	0	0	728	147	134	18	14	0.58	5.37	70
D531	15-038	3.48	304 3-	REC-70-L	1850	1693	1282	162	1108	52	74	0.00	4.42	0
15-039	D531	4.60	304 3-	1/0ACSR	1464	1326	972	156	1108	52	23	0.87	5.29	1186
15-009	15-039	5.90	217 3-	4ACSR	977	921	667	145	784	37	26	1.40	6.68	1287
15-993	15-009	5.90	1 1-	Consumer	0	0	667	145	9	1	0	0.00	6.68	0
16-037	15-009	6.09	109 3-	4ACSR	929	879	637	143	388	18	13	0.13	6.82	74

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX I/LG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LOSS
SUB 10 GREENRIVER(70)			1088		5616	5837	5893	176	6575					
SUB 10, CKT 1														
70-1 GREENRIVER(70)		0.00	646 3-	BKR-560-VWVE	5616	5837	5893	176	1884	84	0	0.00	0.00	0
08-055	70-1	0.14	646 3-	3/OACSR	5316	5389	5301	176	1884	84	28	0.12	0.12	276
08-053	08-055	1.19	4 3-	3/OACSR	3621	3455	2817	171	67	3	1	0.03	0.15	2
08-903	08-053	1.19	1 3-	Consumer	3621	3455	2817	171	46	2	0	0.00	0.15	0
08-098	08-055	0.36	628 3-	397ACSR	5034	5060	4766	175	1797	80	14	0.08	0.20	168
08-058	08-098	0.60	503 3-	3/OACSR	4587	4540	4051	174	1609	72	24	0.17	0.37	332
08-977	08-058	0.60	1 3-	Consumer	4587	4540	4051	174	4	0	0	0.00	0.37	0
08-120	08-058	0.90	417 3-	3/OACSR	4108	3991	3387	173	1458	68	23	0.23	0.61	391
08-978	08-120	0.90	1 3-	Consumer	4108	3991	3387	173	7	0	0	0.00	0.61	0
08-059	08-120	1.06	208 3-	3/OACSR	3892	3751	3119	172	888	41	14	0.07	0.68	76
08-057	08-059	1.54	91 3-	4ACSR	2814	2606	2101	167	223	10	7	0.13	0.81	34
08-976	08-057	1.54	1 1-	Consumer	0	0	2101	167	87	12	0	0.00	0.81	0
08-974	08-057	1.54	1 1-	Consumer	0	0	2101	167	4	0	0	0.00	0.81	0
08-060	08-059	1.57	114 3-	3/OACSR	3302	3115	2463	170	657	30	10	0.16	0.84	111
08-975	08-060	1.57	1 3-	Consumer	3302	3115	2463	170	32	1	0	0.00	0.84	0
08-979	08-060	1.57	1 3-	Consumer	3302	3115	2463	170	49	2	0	0.00	0.84	0
08-157	08-060	1.64	27 3-	4ACSR	3177	2972	2347	170	316	14	11	0.03	0.87	14
08-939	08-157	1.64	1 3-	Consumer	3177	2972	2347	170	233	10	0	0.00	0.87	0
08-004	08-157	2.61	9 1-	4ACSR	0	0	1303	159	26	3	3	0.09	0.96	2
D702	08-004	1.57	42 1-	REC-50-L	0	0	2463	170	99	13	28	0.00	0.84	0
08-063	D702	3.84	42 1-	4ACSR	0	0	809	148	99	13	10	0.77	1.61	66
08-061	08-120	1.06	188 3-	3/OACSR	3887	3745	3113	172	515	24	8	0.04	0.65	24
08-980	08-061	1.06	1 3-	Consumer	3887	3745	3113	172	11	0	0	0.00	0.65	0
08-091	08-061	1.87	172 3-	3/OACSR	3026	2828	2190	169	453	21	7	0.10	0.75	34
C181	08-091	0.60	0 3-	Cap (300)	4587	4540	4051	174	0	-14	0	0.00	0.37	0
08-144	08-098	0.83	117 3-	3/OACSR	4219	4117	3533	173	150	6	2	0.02	0.22	2
CKT 1 total losses:		\$1,532												
SUB 10, CKT 2														
70-2 GREENRIVER(70)		0.00	82 3-	BKR-560-VWVE	5616	5837	5893	176	1853	86	0	0.00	0.00	0
08-054	70-2	0.23	82 3-	4/OACSR	5154	5205	4972	175	1853	86	25	0.19	0.19	394
08-160	08-054	0.33	80 3-	336ACSR	5026	5051	4696	175	1844	86	16	0.05	0.24	103
08-946	08-160	0.33	1 3-	Consumer	5026	5051	4696	175	369	17	0	0.00	0.24	0
08-013	08-160	0.58	41 3-	3/OACSR	4582	4531	4000	174	679	31	11	0.08	0.33	65
08-968	08-013	0.58	1 3-	Consumer	4582	4531	4000	174	41	1	0	0.00	0.33	0
08-174	08-013	0.58	32 3-	4/OURD	4578	4527	3995	452	588	27	8	0.00	0.33	0
08-176	08-174	0.62	32 3-	3/OACSR	4515	4455	3905	174	588	27	9	0.01	0.34	7
08-967	08-176	0.62	1 3-	Consumer	4515	4455	3905	174	132	6	0	0.00	0.34	0
08-948	08-176	0.62	1 3-	Consumer	4515	4455	3905	174	4	0	0	0.00	0.34	0
08-175	08-176	0.65	25 3-	3/OACSR	4460	4391	3827	174	413	19	6	0.01	0.35	3
08-011	08-175	0.86	13 3-	3/OACSR	4128	4012	3383	173	162	7	3	0.01	0.36	2
08-949	08-011	0.86	1 3-	Consumer	4128	4012	3383	173	89	4	0	0.00	0.36	0
08-012	08-175	0.78	11 3-	3/OACSR	4258	4159	3551	173	238	11	4	0.02	0.36	4
08-966	08-012	0.78	1 3-	Consumer	4258	4159	3551	173	34	1	0	0.00	0.36	0
08-159	08-012	0.78	8 3-	3/OACSR	4246	4149	3539	446	183	8	3	0.00	0.36	0
08-961	08-159	0.78	1 3-	4/OURD	4246	4149	3539	446	34	1	0	0.00	0.36	0
08-953	08-159	0.78	1 3-	Consumer	4246	4149	3539	446	35	1	0	0.00	0.36	0
08-940	08-159	0.78	1 1-	Consumer	4246	4149	3539	446	69	9	0	0.00	0.36	0
08-015	08-159	0.42	38 3-	336ACSR	4923	4926	4485	175	796	37	7	0.02	0.26	13
08-962	08-015	0.42	1 1-	Consumer	0	0	4485	175	299	41	0	0.00	0.26	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 10, CKT 4			0 3-	BKR-560-VWVE	5616	5837	5893	176	0	0	0	0.00	0.00	0
70-4	GREENRIVER(70)	0.00												
CKT 4	total losses:													\$0
SUB 10	total losses:													\$7,185

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
26-004	26-003	9.71	46 1-	4ACSR	0	0	445	131	147	21	15	1.12	10.27	210
D1020	D1020	9.71	36 1-	REC-25-H	0	0	445	131	111	16	66	0.00	10.27	0
26-001	D1020	12.91	36 1-	4ACSR	0	0	288	112	111	16	12	1.26	11.53	131
D1018	REG53	6.33	31 1-	REC-25-4H	0	0	867	155	118	16	68	0.00	6.30	0
27-004	D1018	8.43	31 1-	4ACSR	0	0	523	137	118	16	12	1.36	7.66	188
27-016	27-004	9.96	13 1-	4ACSR	0	0	402	126	69	10	7	0.37	8.02	23
27-025	22-058	5.74	63 3-	4ACSR	1515	1362	931	157	207	9	7	0.03	5.83	9
27-999	27-025	5.74	0 1-	Consumer	0	0	931	157	0	0	0	0.00	5.83	0
D1017	27-025	5.74	62 1-	REC-50-L	0	0	931	157	189	27	54	0.00	5.83	0
21-031	D1017	7.61	62 1-	4ACSR	0	0	572	140	189	27	19	1.88	7.71	408
21-032	21-031	9.76	35 1-	4ACSR	0	0	390	125	103	14	11	0.77	8.48	72
C195	22-078	4.73	0 3-	Cap (300)	1776	1612	1115	160	0	-13	0	0.00	4.99	0
D1016	22-086	4.51	47 1-	REC-35-L	0	0	1161	161	155	21	63	0.00	4.82	0
27-005	D1016	7.77	47 1-	4ACSR	0	0	486	133	155	21	16	1.70	6.52	235
D1014	22-087	4.40	8 1-	REC-35-H	0	0	1186	162	47	6	19	0.00	4.72	0
22-084	D1014	5.30	8 1-	6CU	0	0	871	153	47	6	6	0.17	4.89	8
22-085	22-084	5.96	2 1-	4ACSR	0	0	718	147	10	1	1	0.02	4.91	0
D1013	22-060	4.08	5 1-	REC-35-L	0	0	1264	163	43	6	17	0.00	4.43	0
22-088	D1013	5.24	5 1-	4ACSR	0	0	833	151	43	6	4	0.17	4.60	6
D1012	22-090	2.77	13 1-	REC-50-L	0	0	1718	167	51	7	14	0.00	3.18	0
22-089	D1012	3.53	13 1-	4ACSR	0	0	1187	159	51	7	5	0.13	3.31	6
22-081	22-057	2.29	3 3-	4ACSR	2707	2518	1920	168	173	8	6	0.03	2.62	7
22-973	22-081	2.29	1 3-	Consumer	2707	2518	1920	168	14	0	0	0.00	2.62	0
22-975	22-081	2.29	1 1-	Consumer	0	0	1920	168	122	16	0	0.00	2.62	0
22-974	22-081	2.29	1 1-	Consumer	0	0	1920	168	36	5	0	0.00	2.62	0
D1011	22-039	2.13	95 1-	REC-50-L	0	0	2077	169	315	43	88	0.00	2.51	0
22-038	D1011	2.64	95 1-	4ACSR	0	0	1536	164	315	43	31	0.97	3.49	377
22-036	22-038	4.67	88 1-	4ACSR	0	0	712	145	254	35	25	2.43	5.92	654
22-035	22-036	5.74	24 1-	4ACSR	0	0	550	136	101	14	10	0.37	6.29	34
22-096	22-073	0.21	25 3-	336ACSR	4871	4973	4904	175	133	6	1	0.01	0.01	0
22-040	22-096	1.67	23 3-	4ACSR	1815	1767	1420	160	122	5	4	0.15	0.17	17
CKT 2 total losses: \$31,157														
SUB 11, CKT 3														
15-158	100-3	1.21	988 3-	BKR-560-VWVE	5125	5480	5544	176	4537	204	0	0.00	0.00	0
22-024	15-158	2.23	919 3-	336ACSR	3886	3772	3040	173	4537	204	39	1.29	1.29	6607
D1039	22-024	2.23	41 1-	REC-50-L	3197	3010	2166	170	4075	185	35	1.01	2.30	4847
22-037	D1039	4.33	41 1-	4ACSR	0	0	2166	170	161	22	45	0.00	2.30	0
D1040	22-024	2.23	458 3-	REC-100-L	3197	3010	2166	170	1858	84	84	0.00	2.30	0
22-075	D1040	2.64	458 3-	336ACSR	2982	2785	1941	169	1858	84	16	0.16	2.47	395
22-032	22-075	3.66	444 3-	336ACSR	2546	2344	1537	166	1771	80	15	0.39	2.86	892
22-034	22-032	3.84	369 3-	4ACSR	2345	2128	1414	164	1430	65	46	0.42	3.27	827
22-091	22-034	4.98	365 3-	4ACSR	1412	1315	902	153	1392	64	46	2.70	5.97	5026
REG52	22-091	4.98	338 3-	150	1412	1315	902	153	1224	58	39	0.00	5.97	0
21-026	REG52	5.99	319 3-	4ACSR	1005	959	672	144	1167	55	40	2.07	8.05	3322
21-036	21-026	6.10	220 3-	4ACSR	974	932	654	143	820	39	28	0.16	8.21	194
D1029	21-036	6.10	36 1-	REC-25-L	0	0	654	143	122	17	71	0.00	8.21	0
21-027	D1029	6.80	36 1-	4ACSR	0	0	557	138	122	17	13	0.54	8.75	84
21-029	21-027	9.09	18 1-	4ACSR	0	0	374	122	62	9	7	0.50	9.25	28
21-028	21-027	8.32	12 1-	4ACSR	0	0	421	127	35	5	4	0.19	8.94	6
D1031	21-036	6.10	181 3-	REC-70-L	974	932	654	143	691	33	48	0.00	8.21	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
22-030	D1035	5.84	12 1-	4ACSR	0	0	735	147	74	10	7	0.45	3.50	29
22-026	22-025	3.78	12 1-	4ACSR	0	0	1365	163	55	7	5	0.06	2.95	3
CKT 3 total losses: \$31,814														
SUB 11, CKT 4														
100-4	WCOLUMBIA(100)	0.00	86 3-	BKR-560-VWVE	5125	5480	5544	176	1834	83	0	0.00	0.00	0
22-072	100-4	0.38	86 3-	336ACSR	4675	4732	4453	175	1834	83	16	0.18	0.18	370
22-065	22-072	0.87	66 3-	336ACSR	4178	4116	3500	174	1731	78	15	0.22	0.40	410
22-023	22-065	2.24	57 3-	1/0ACSR	2537	2311	1737	166	367	16	7	0.21	0.61	71
22-987	22-023	2.24	1 1-	Consumer	0	0	1737	166	32	4	0	0.00	0.61	0
22-995	22-023	2.24	1 3-	Consumer	2537	2311	1737	166	22	1	0	0.00	0.61	0
22-972	22-065	0.87	1 3-	Consumer	4178	4116	3500	174	1247	56	0	0.00	0.40	0
22-059	22-072	0.66	19 1-	4ACSR	0	0	3312	172	91	12	9	0.13	0.31	13
22-042	22-059	1.87	10 1-	4ACSR	0	0	1354	159	52	7	5	0.20	0.51	9
CKT 4 total losses: \$873														
SUB 11 total losses:		\$63,844												

LINE SECT	PRIOR SECT	MILES	PHS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 12, CKT 2													
110-2	CRESTON(110)	0.00	349 3-	BKR-560-VWVE	4969	5357	5405	176	1668	74	0	0.00	0
10-051	110-2	0.85	349 3-	336ACSR	4091	4035	3480	174	1668	74	14	0.28	606
10-045	10-051	1.82	321 3-	4ACSR	2170	2058	1627	163	1511	67	48	2.53	4444
10-136	10-045	1.93	267 3-	1/OACSR	2103	1992	1564	162	1203	54	24	0.08	140
10-989	10-136	1.93	0 1-	Consumer	0	0	1564	162	0	0	0	0.00	0
14-079	10-136	2.68	47 3-	2CU	1749	1654	1267	159	298	13	6	0.14	47
D1109	14-079	2.68	36 3-	REC-70-L	1749	1654	1267	159	205	9	14	0.00	0
10-103	D1109	3.64	36 3-	2CU	1439	1360	1020	154	205	9	4	0.11	25
17-034	10-103	4.76	14 3-	336ACSR	1318	1234	886	152	62	2	1	0.01	0
15-197	10-103	5.50	8 3-	4/OACSR	1170	1093	781	149	48	2	1	0.02	0
D1108	10-136	1.93	202 3-	REC-50-L	2103	1992	1564	162	837	38	77	0.00	0
10-137	D1108	2.28	202 3-	1/OACSR	1912	1809	1391	161	837	38	17	0.16	210
17-006	10-137	3.90	70 1-	4ACSR	0	0	751	146	274	38	27	2.29	705
17-013	17-006	5.95	39 1-	4ACSR	0	0	470	130	152	21	15	1.05	143
10-044	10-137	3.44	115 3-	1/OACSR	1468	1386	1018	155	449	20	9	0.32	164
17-005	10-044	4.64	74 1-	4ACSR	0	0	696	144	291	40	29	1.73	554
17-004	17-005	6.03	13 1-	4ACSR	0	0	507	133	52	7	5	0.24	11
D1122	17-004	4.64	24 1-	REC-35-L	0	0	696	144	90	12	36	0.00	0
17-015	D1122	5.54	24 1-	4ACSR	0	0	561	137	90	12	9	0.27	22
C204	10-137	2.28	0 3-	Cap (300)	1912	1809	1391	161	0	-14	0	0.00	0
D1121	10-045	1.82	14 1-	REC-50-L	0	0	1627	163	59	8	16	0.00	0
10-138	D1121	3.72	14 1-	4ACSR	0	0	748	145	59	8	6	0.37	19
CKT 2 total losses:		\$7,090											
SUB 12, CKT 3													
110-3	CRESTON(110)	0.00	957 3-	BKR-560-VWVE	4969	5357	5405	176	4733	211	0	0.00	0
10-053	110-3	0.20	957 3-	336ACSR	4740	4835	4818	175	4733	211	40	0.21	1211
10-992	10-053	0.20	1 1-	Consumer	0	0	4818	175	25	3	0	0.00	0
17-029	10-053	1.84	92 1-	6CU	0	0	1307	158	356	48	40	2.76	1050
D1110	17-029	1.84	47 1-	REC-50-L	0	0	1307	158	170	23	47	0.00	0
17-003	D1110	5.03	47 1-	4ACSR	0	0	499	132	170	23	17	1.79	267
10-047	10-053	1.35	856 3-	336ACSR	3684	3556	2840	172	4259	190	36	1.27	5626
10-031	10-047	3.22	284 3-	336ACSR	2671	2473	1676	167	1654	74	14	0.60	1313
10-994	10-031	3.22	0 1-	Consumer	0	0	1676	167	0	0	0	0.00	0
10-993	10-031	3.22	0 3-	Consumer	2671	2473	1676	167	0	0	0	0.00	0
10-055	10-031	3.45	39 3-	4ACSR	2386	2165	1490	165	378	17	12	0.15	79
10-033	10-055	3.60	20 3-	4ACSR	2213	1988	1386	163	310	14	10	0.08	35
D1118	10-033	3.60	20 3-	REC-35-L	2213	1988	1386	163	310	14	41	0.00	0
10-129	D1118	5.37	20 3-	4ACSR	1080	1031	731	146	310	14	10	0.94	388
10-130	10-129	5.81	14 1-	4ACSR	0	0	653	143	288	40	29	0.72	251
10-998	10-130	5.81	1 1-	Consumer	0	0	653	143	212	29	0	0.00	0
D1112	10-055	3.45	18 1-	REC-35-L	0	0	1490	165	68	9	27	0.00	0
10-032	D1112	5.24	18 1-	4ACSR	0	0	759	147	68	9	7	0.40	24
10-028	10-032	3.65	221 3-	336ACSR	2509	2310	1530	166	1079	48	9	0.08	131
10-995	10-028	3.65	1 1-	Consumer	0	0	1530	166	21	2	0	0.00	0
10-127	10-028	3.82	190 3-	336ACSR	2450	2252	1479	165	929	42	8	0.03	42
10-996	10-127	3.82	1 3-	Consumer	2450	2252	1479	165	33	1	0	0.00	0
10-997	10-127	3.82	1 3-	Consumer	2450	2252	1479	165	40	1	0	0.00	0
10-120	10-127	3.96	131 3-	336ACSR	2401	2203	1437	165	638	30	6	0.01	198
10-026	10-120	4.26	3 3-	336ACSR	2308	2113	1361	164	34	1	0	0.00	0
D1123	10-120	3.96	126 3-	REC-50-L	2401	2203	1437	165	598	28	57	0.00	0

Title: TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION - KENTUCKY 23 TAYLOR - CAMPBELLSVILLE, KENTUCKY  
 Appendix 1 - 2011-2013 CONSTRUCTION WORK PLAN EXISTING JANUARY 2010 SYSTEM  
 Peterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	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 12 total losses: \$57,267														

Substation Power Factor: 1.00      Load Factor: 0.45      Loss Factor: 0.24      Cost: 0.0800 per kWh  
 Run Date:      Page 45

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
08-118	08-118	3.30	83 1-	REC-50-L	0	0	1426	164	290	40	81	0.00	3.43	0
08-027	D1223	5.95	83 1-	4ACSR	0	0	596	140	290	40	29	2.59	6.02	661
08-018	C174	3.14	0 3-	Cap (300)	2283	2081	1502	165	0	-14	0	0.00	3.18	0
08-017	14-940	3.15	17 3-	1/0ACSR	2277	2075	1498	165	161	7	3	0.02	2.79	2
08-904	08-023	1.24	1 3-	Consumer	3632	3481	2849	172	207	9	0	0.00	1.46	0
CKT 1 total losses: \$25,223														
SUB 13, CKT 2														
120-2	ECAMPBELLS(120)	0.00	335 3-	BKR-560-VWVE	5493	5723	5784	176	1426	64	0	0.00	0.00	0
119035	120-2	0.02	335 3-	500MCM	5467	5678	5757	467	1426	64	14	0.01	0.01	13
08-117	119035	0.24	335 3-	477ACSR	5190	5271	5168	176	1426	64	10	0.06	0.07	92
08-036	08-117	0.47	335 3-	3/0ACSR	4750	4764	4392	175	1425	64	22	0.17	0.24	280
08-035	08-036	0.64	8 3-	336ACSR	4567	4539	4034	174	40	1	0	0.00	0.24	0
08-034	08-036	1.35	327 3-	1/0CU	3609	3453	2779	171	1383	63	20	0.52	0.76	807
08-033	08-034	2.07	246 3-	1/0CU	2969	2773	2108	168	1056	48	16	0.32	1.08	380
08-107	08-033	2.22	198 3-	1/0CU	2859	2660	2005	168	786	36	12	0.06	1.14	55
08-029	08-107	3.85	36 3-	3/0ACSR	1973	1788	1282	162	183	8	3	0.08	1.22	12
09-004	08-029	4.46	4 3-	3/0ACSR	1764	1589	1127	159	15	0	0	0.00	1.22	0
08-030	08-107	2.69	159 3-	3/0ACSR	2533	2333	1724	166	591	27	9	0.14	1.27	95
08-031	08-030	3.35	156 3-	3/0ACSR	2182	1989	1442	164	561	25	9	0.17	1.45	111
D1216	08-031	3.35	143 3-	REC-70-L	2182	1989	1442	164	486	22	32	0.00	1.45	0
09-021	D1216	5.15	143 3-	3/0ACSR	1573	1410	992	157	486	22	7	0.36	1.81	182
09-020	09-021	5.40	61 3-	3/0ACSR	1514	1358	951	156	182	8	3	0.01	1.82	0
09-999	09-020	5.40	0 1-	Consumer	0	0	951	156	0	0	0	0.00	1.82	0
D1217	09-021	5.15	40 1-	REC-50-H	0	0	992	157	119	16	33	0.00	1.81	0
09-022	D1217	6.56	40 1-	4ACSR	0	0	658	144	119	16	12	0.87	2.67	114
09-023	09-022	7.57	13 1-	4ACSR	0	0	527	136	66	9	7	0.22	2.89	13
CKT 2 total losses: \$2,154														
SUB 13, CKT 3														
120-3	ECAMPBELLS(120)	0.00	460 3-	BKR-560-VWVE	5493	5723	5784	176	1967	87	0	0.00	0.00	0
08-142	120-3	0.22	460 3-	4/0ACSR	5082	5147	4953	175	1967	87	26	0.15	0.15	371
08-917	08-142	0.22	1 3-	Consumer	5082	5147	4953	175	0	0	0	0.00	0.15	0
14-072	08-142	0.42	455 3-	336ACSR	4833	4845	4423	175	1932	86	16	0.08	0.23	204
08-038	14-072	0.83	34 1-	4ACSR	0	0	2863	170	79	10	8	0.11	0.34	7
08-039	14-072	0.88	383 3-	3/0ACSR	4082	3973	3343	173	1766	78	26	0.35	0.58	787
14-071	08-039	0.91	18 3-	3/0ACSR	4042	3927	3292	173	54	2	1	0.00	0.58	0
08-043	08-039	1.52	335 3-	3/0ACSR	3323	3143	2475	170	1621	72	24	0.42	1.00	889
08-045	08-043	2.80	264 3-	1/0ACSR	2196	1980	1464	164	1351	60	26	1.02	2.02	1809
08-138	08-045	2.84	185 3-	1/0ACSR	2169	1957	1443	163	1103	50	22	0.04	2.05	49
08-158	08-138	2.90	155 3-	1/0ACSR	2134	1926	1416	163	1023	47	21	0.05	2.10	60
08-078	08-158	3.33	113 3-	2ACSR	1841	1681	1218	160	581	26	15	0.27	2.37	199
08-918	08-078	3.33	1 1-	Consumer	0	0	1218	160	4	0	0	0.00	2.37	0
08-152	08-078	3.77	4 3-	4ACSR	1523	1417	1022	156	23	1	1	0.01	2.38	0
08-124	08-078	3.42	56 3-	2ACSR	1790	1638	1185	159	217	10	6	0.02	2.39	6
08-162	08-124	4.07	19 3-	2ACSR	1475	1366	979	155	73	3	2	0.03	2.42	2
08-919	08-162	4.07	0 1-	Consumer	0	0	979	155	0	0	0	0.00	2.42	0
D1230	08-124	3.42	37 1-	REC-35-4H	0	0	1185	159	144	20	57	0.00	2.39	0
08-163	D1230	3.85	37 1-	6CU	0	0	1004	155	144	20	17	0.37	2.76	66
08-170	08-163	4.58	31 1-	4ACSR	0	0	788	148	119	16	12	0.29	3.05	30
08-161	08-078	3.49	25 3-	6CU	1719	1581	1142	158	259	12	10	0.07	2.44	24
08-133	08-161	4.64	23 3-	4ACSR	1113	1061	768	148	244	11	8	0.43	2.87	131

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS	
SUB 15	GARLIN		1674		5006	5364	176	9817						
SUB 15, CKT 1														
15-1	GARLIN	0.00	137 3-	DefaultBayEqui	5006	5364	176	851	38	0	0.00	0.00	0	
15-1	15-1	1.21	137 3-	3/OACSR	3322	3190	171	851	38	13	0.43	0.43	385	
22-074	22-101	1.30	108 2-	4ACSR	0	2974	170	566	38	28	0.15	0.59	112	
D611	22-074	1.30	31 1-	REC-50-L	0	0	170	206	28	57	0.00	0.59	0	
22-102	D611	1.87	31 1-	4ACSR	0	0	1670	206	28	20	0.39	0.98	69	
D610	22-074	1.30	74 1-	REC-50-L	0	0	2479	325	44	90	0.00	0.59	0	
22-103	D610	1.85	74 1-	4ACSR	0	0	1695	325	44	32	0.59	1.18	165	
CKT 1	total losses:	\$731												
SUB 15, CKT 2														
15-2	GARLIN	0.00	1 3-	DefaultBayEqui	5006	5364	176	4	0	0	0.00	0.00	0	
22-107	15-2	0.14	1 3-	336ACSR	4836	4941	176	4	0	0	0.00	0.00	0	
22-067	22-107	0.18	1 3-	336ACSR	4791	4889	175	4	0	0	0.00	0.00	0	
23-054	22-067	1.67	0 3-	397ACSR	3537	3419	172	0	0	0	0.00	0.00	0	
CKT 2	total losses:	\$0												
SUB 15, CKT 3														
15-3	GARLIN	0.00	708 3-	DefaultBayEqui	5006	5364	176	4028	182	0	0.00	0.00	0	
22-108	15-3	0.36	708 3-	336ACSR	4596	4652	175	4028	182	34	0.37	0.37	1681	
D601	22-108	0.36	707 3-	ER3-WVE	4596	4652	175	4006	181	0	0.00	0.37	0	
22-012	D601	1.48	699 3-	336ACSR	3617	3477	172	3946	178	34	1.10	1.46	4875	
23-052	22-012	1.66	612 3-	1/OACSR	3392	3222	171	3409	155	68	0.44	1.91	1918	
23-045	23-052	3.68	608 3-	336ACSR	2448	2246	1489	165	153	29	1.69	3.60	6615	
R112	23-045	3.68	602 3-	219	2448	2246	1489	165	153	29	1.69	3.60	6615	
23-047	R112	4.19	29 3-	1/OACSR	2134	1933	1278	163	169	7	0.03	3.63	5	
16-036	R112	3.83	573 3-	1/OACSR	2350	2147	1421	165	165	62	0.33	3.93	1314	
16-990	16-036	3.83	1 1-	Consumer	0	0	1421	165	3	0	0.00	3.93	0	
16-027	16-036	4.92	507 3-	1/OACSR	1788	1598	1059	159	124	54	2.09	6.02	7246	
16-038	16-027	5.37	466 3-	1/OACSR	1622	1450	958	157	2465	118	0.85	6.87	2688	
16-025	16-038	5.54	411 3-	1/OACSR	1568	1404	925	156	2122	102	0.28	7.15	777	
16-024	16-025	6.57	356 3-	1/OACSR	1293	1169	761	151	1811	87	1.38	8.52	3112	
16-993	16-024	6.57	0 1-	Consumer	0	0	761	151	0	0	0.00	8.52	0	
16-023	16-024	7.21	89 2-	1/OACSR	0	1053	686	148	416	30	0.36	8.88	179	
D608	16-023	7.21	75 1-	REC-50-4H	0	0	686	148	320	47	0.00	8.88	0	
16-018	D608	9.94	35 1-	6CU	0	0	408	127	153	22	19	2.12	11.01	369
16-019	16-018	11.42	12 1-	4ACSR	0	0	332	118	70	10	0.37	11.38	24	
16-017	D608	9.18	40 1-	4ACSR	0	0	459	132	167	24	1.16	10.05	179	
D607	16-024	6.57	216 3-	REC-70-L	1293	1169	761	151	1067	52	0.00	8.52	0	
16-031	D607	7.88	216 3-	1/OACSR	1055	961	621	145	1067	52	0.00	9.50	1262	
16-991	16-031	7.88	1 3-	Consumer	1055	961	621	145	38	1	0.00	9.50	0	
16-022	16-031	9.51	157 3-	1/OACSR	856	785	505	138	722	35	0.66	10.29	691	
15-065	16-022	9.90	49 1-	4ACSR	0	0	471	135	286	42	0.00	10.95	233	
D690	15-065	9.90	34 1-	REC-50-4H	0	0	471	135	183	27	0.00	10.95	0	
16-020	D690	10.43	34 1-	4ACSR	0	0	432	131	183	27	0.63	11.58	150	
17-024	16-020	11.26	30 1-	4ACSR	0	0	381	126	143	21	0.43	12.01	58	
D681	16-022	9.51	57 1-	REC-50-H	0	0	505	138	190	28	0.00	10.29	0	
16-021	D681	11.32	57 1-	4ACSR	0	0	377	125	190	28	0.00	11.53	219	
D631	16-025	5.54	53 1-	REC-35-H	0	0	925	156	289	42	0.00	7.15	0	
16-040	D631	6.41	53 1-	4ACSR	0	0	718	148	289	42	0.00	8.53	468	
16-041	16-040	7.10	27 1-	6CU	0	0	609	142	163	23	0.61	9.14	118	

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
23-050	23-015	6.84	37 1-	4ACSR	0	524	136	183	26	19	0.83	8.32	138
D613	23-017	4.69	126 3-	REC-50-H	1388	1271	154	631	30	61	0.00	6.36	0
23-016	D613	5.88	126 3-	1/0ACSR	1138	1047	723	631	30	13	0.59	6.96	493
23-014	23-016	6.94	21 1-	4ACSR	0	563	140	111	16	11	0.41	7.37	41
23-010	23-016	6.60	105 3-	1/0ACSR	1023	944	145	518	25	11	0.27	7.23	178
23-011	23-010	8.37	95 3-	1/0ACSR	821	761	138	431	20	9	0.52	7.75	266
23-013	23-011	10.59	52 1-	4ACSR	0	360	122	226	33	24	1.76	9.51	364
23-012	23-011	9.84	18 1-	4ACSR	0	400	127	71	10	7	0.37	8.12	24
D644	23-019	4.29	106 3-	REC-35-H	1501	1371	156	548	26	75	0.00	6.09	0
23-018	D644	5.38	106 3-	1/0ACSR	1231	1130	151	548	26	11	0.31	6.40	172
23-051	23-018	6.92	41 1-	6CU	0	547	138	168	24	20	1.12	7.52	195
23-029	23-051	8.67	6 1-	4ACSR	0	401	126	47	6	5	0.29	7.81	12
CAP28	23-019	4.29	0 3-	Cap (300)	1501	1371	156	0	-13	0	0.00	6.09	0
D609	23-003	3.59	34 1-	REC-25-L	0	1152	159	198	28	114	0.00	5.35	0
23-007	D609	4.63	34 1-	4ACSR	0	804	150	198	28	20	0.95	6.31	198
23-008	23-007	5.86	11 1-	4ACSR	0	585	139	68	9	7	0.29	6.60	18
D685	23-003	3.59	33 1-	REC-25-4H	0	1152	159	214	30	123	0.00	5.35	0
23-020	D685	5.44	33 1-	4ACSR	0	645	143	214	30	22	2.38	7.73	625
23-022	23-020	6.09	24 1-	4ACSR	0	557	138	156	22	16	0.54	8.28	98
23-021	23-022	7.53	15 1-	4ACSR	0	426	127	83	12	9	0.42	8.70	32
23-004	23-046	2.81	93 3-	3/0ACSR	2247	2068	165	497	23	8	0.14	2.67	56
CAP63	23-002	1.65	0 3-	Cap (300)	2985	2822	170	0	-14	0	0.00	2.44	0
D688	23-001	1.28	60 1-	REC-50-L	0	2635	171	325	45	91	0.00	1.97	0
23-023	D688	1.94	60 1-	6CU	0	1673	164	325	45	38	0.96	2.93	322
23-049	23-023	2.98	20 1-	4ACSR	0	1016	154	116	16	12	0.41	3.34	41
CKT	5 total losses:	\$24,839											
SUB	15 total losses:	\$62,395											
Total System Losses:		\$681,390											





LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX ILG FAULT	MX LG MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 1	CAMPBELLSVILLE		1570		6276	6560	6626	176	18487				
SUB 1, CKT 1													
1-1	CAMPBELLSVILLE	0.00	4 3-	BKR-560-VWVE	6276	6560	6626	176	4709	233	0	0.00	0
08-094	1-1	0.13	4 3-	336ACSR	6043	6138	6049	176	4709	233	44	0.20	975
08-987	08-094	0.13	1 3-	Consumer	6043	6138	6049	176	4669	231	0	0.00	0
08-988	08-094	0.13	0 1-	Consumer	0	0	6049	176	0	0	0	0.00	0
CKT 1 total losses:		\$975											
SUB 1, CKT 2													
1-2	CAMPBELLSVILLE	0.00	391 3-	BKR-560-VWVE	6276	6560	6626	176	2477	110	0	0.00	0
08-048	1-2	0.35	391 3-	3/0ACSR	5380	5381	4969	175	2477	110	37	0.37	1112
08-989	08-048	0.35	1 3-	Consumer	5380	5381	4969	175	11	0	0	0.00	0
08-103	08-048	0.69	3 3-	3/0ACSR	4659	4542	3910	173	9	14	5	-0.04	0.32
08-044	08-103	2.25	2 3-	3/0ACSR	2789	2564	1924	167	6	14	5	-0.19	0.13
08-130	08-044	2.35	1 3-	3/0ACSR	2712	2488	1859	167	6	0	0	0.00	0.13
C214	08-044	2.25	0 3-	Cap (300)	2789	2564	1924	167	0	-14	0	0.00	0.13
08-177	08-048	1.01	371 3-	336ACSR	4523	4359	3504	173	2226	101	19	0.39	970
08-075	08-177	2.06	371 3-	1/0ACSR	2922	2652	1959	167	2220	101	44	1.48	2.23
08-992	08-075	2.06	0 1-	Consumer	0	0	1959	167	0	0	0	0.00	2.23
08-991	08-075	2.06	0 3-	Consumer	2922	2652	1959	167	0	0	0	0.00	2.23
08-990	08-075	2.06	0 3-	Consumer	2922	2652	1959	167	0	0	0	0.00	2.23
08-090	08-075	3.27	140 3-	1/0ACSR	2009	1830	1283	161	852	39	17	0.39	2.62
08-178	08-075	3.11	115 3-	1/0ACSR	2095	1905	1342	162	664	30	13	0.53	2.76
D78	08-178	3.11	48 1-	REC-35-L	0	0	1342	162	288	40	115	0.00	2.76
08-132	D78	3.68	48 1-	4ACSR	0	0	1054	156	288	40	29	0.54	3.30
08-164	08-178	3.65	67 1-	6CU	0	0	1069	156	373	51	43	0.66	3.42
CKT 2 total losses:		\$6,981											
SUB 1, CKT 3													
1-3	CAMPBELLSVILLE	0.00	516 3-	BKR-560-VWVE	6276	6560	6626	176	3546	159	0	0.00	0
08-046	1-3	0.35	516 3-	3/0ACSR	5369	5369	4952	175	3546	159	53	0.58	2493
08-074	08-046	1.23	502 3-	3/0ACSR	3808	3607	2898	171	3383	152	51	1.33	1.91
08-122	08-074	1.32	462 3-	3/0ACSR	3695	3488	2779	171	3112	143	48	0.14	2.05
08-076	08-122	2.65	254 3-	3/0ACSR	2517	2298	1698	166	1743	80	27	1.02	3.06
08-993	08-076	2.65	1 3-	Consumer	2517	2298	1698	166	7	0	0	0.00	3.06
08-086	08-076	3.37	101 3-	3/0ACSR	2142	1937	1402	163	608	28	9	0.20	3.26
08-085	08-086	3.99	14 3-	3/0ACSR	1893	1702	1217	161	143	6	2	0.02	3.28
D5	08-086	3.37	62 1-	REC-70-L	0	0	1402	163	326	45	65	0.00	3.26
08-087	D5	5.54	62 1-	4ACSR	0	0	660	143	326	45	33	3.62	6.89
08-088	08-087	6.30	4 1-	4ACSR	0	0	555	137	26	3	3	0.07	6.95
D76	08-087	5.54	26 1-	REC-50-4H	0	0	660	143	139	20	40	0.00	6.89
15-001	D76	6.66	26 1-	4ACSR	0	0	515	134	139	20	14	0.54	7.42
D4	08-076	2.65	80 3-	REC-50-L	2517	2298	1698	166	651	30	55	0.00	3.06
08-080	D4	3.40	80 3-	2ACSR	1904	1740	1269	160	651	30	17	0.51	3.58
08-153	08-080	3.71	69 3-	2ACSR	1723	1585	1148	158	524	24	14	0.17	3.74
08-125	08-153	4.41	60 3-	2ACSR	1405	1307	939	154	409	19	11	0.23	3.98
08-079	08-125	6.00	18 3-	1/0ACSR	1076	1004	701	146	158	7	3	0.14	4.12
08-926	08-079	6.00	1 1-	Consumer	0	0	701	146	19	2	0	0.00	4.12
08-927	08-079	6.00	0 1-	Consumer	0	0	701	146	0	0	0	0.00	4.12
08-928	08-079	6.00	1 1-	Consumer	0	0	701	146	13	1	0	0.00	4.12
08-931	08-079	6.00	1 3-	Consumer	1076	1004	701	146	23	1	0	0.00	4.12
08-930	08-079	6.00	1 3-	Consumer	1076	1004	701	146	11	0	0	0.00	4.12



LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
07-101	07-023	6.58	53 1-	4ACSR	0	0	522	135	205	30	21	1.01	9.63	280
D211	07-101	6.58	49 1-	REC-25-H	0	0	522	135	191	28	113	0.00	9.63	0
07-024	D211	7.89	49 1-	4ACSR	0	0	413	126	191	28	20	0.88	10.52	157
D224	07-063	1.93	26 1-	REC-35-L	0	0	2088	169	108	15	43	0.00	2.60	0
07-064	D224	3.08	26 1-	4ACSR	0	0	1125	157	108	15	11	0.42	3.01	39
D204	07-065	1.76	82 1-	REC-50-L	0	0	2224	169	349	48	97	0.00	2.45	0
07-061	D204	4.35	82 1-	4ACSR	0	0	711	144	349	48	35	4.77	7.22	1881
D205	07-061	4.35	44 1-	REC-25-4H	0	0	711	144	196	28	113	0.00	7.22	0
07-206	D205	4.84	44 1-	4ACSR	0	0	628	140	196	28	20	0.62	7.84	161
14-013	07-206	6.17	14 1-	4ACSR	0	0	474	131	69	9	7	0.32	8.16	20
07-059	07-206	7.11	28 1-	4ACSR	0	0	404	124	106	15	11	0.84	8.68	81
D231	07-061	4.35	0 1-	REC-25-4H	0	0	711	144	0	0	0	0.00	7.22	0
D215	07-066	0.53	103 1-	REC-70-L	0	0	4059	174	422	57	83	0.00	0.85	0
07-045	D215	2.33	103 1-	4ACSR	0	0	1126	155	422	57	41	3.92	4.76	1832
07-043	07-045	3.34	1 1-	6CU	0	0	786	146	4	0	0	0.01	4.77	0
07-099	07-045	2.71	55 1-	4ACSR	0	0	966	152	229	32	23	0.50	5.26	135
D234	07-099	2.71	36 1-	REC-35-4H	0	0	966	152	153	21	62	0.00	5.26	0
07-044	D234	4.19	36 1-	4ACSR	0	0	621	139	153	21	16	0.77	6.03	105
CKT 3 total losses: \$21,495														
SUB 2, CKT 4	GREENSBURG (20)													
20-4	07-073	2.06	233 3-	BKR-560-VWVE	5698	5880	5934	176	1739	77	0	0.00	0.00	0
14-986	07-073	2.06	233 3-	3/0ACSR	2822	2617	1991	168	1739	77	26	1.39	1.39	3055
14-980	07-073	2.06	1 3-	Consumer	2822	2617	1991	168	1	0	0	0.00	1.39	0
14-006	07-073	2.56	126 3-	1/0ACSR	2413	2198	1637	165	1232	55	24	0.36	1.75	604
14-993	14-006	2.56	1 1-	Consumer	0	0	1637	165	357	49	0	0.00	1.75	0
14-991	14-006	2.56	0 3-	Consumer	2413	2198	1637	165	0	0	0	0.00	1.75	0
14-984	14-006	2.56	1 1-	Consumer	0	0	1637	165	47	6	0	0.00	1.75	0
14-985	14-006	2.56	0 1-	Consumer	0	0	1637	165	0	0	0	0.00	1.75	0
14-979	14-006	2.56	1 1-	Consumer	0	0	1637	165	117	16	0	0.00	1.75	0
14-188	14-006	2.63	70 3-	1/0ACSR	2364	2150	1598	165	523	24	10	0.03	1.78	18
14-085	14-188	2.66	43 3-	1/0ACSR	2340	2126	1578	165	181	8	4	0.00	1.78	0
14-086	14-188	2.87	27 3-	1/0ACSR	2206	1993	1472	164	342	15	7	0.05	1.83	21
14-982	14-086	2.87	1 3-	Consumer	2206	1993	1472	164	115	5	0	0.00	1.83	0
14-978	14-086	2.87	1 3-	Consumer	2206	1993	1472	164	101	4	0	0.00	1.83	0
14-977	14-086	2.87	1 3-	Consumer	2206	1993	1472	164	4	0	0	0.00	1.83	0
14-983	14-086	2.87	1 3-	Consumer	2206	1993	1472	164	17	0	0	0.00	1.83	0
C187	14-006	2.56	0 3-	Cap (300)	2413	2198	1637	165	0	-14	0	0.00	1.75	0
14-005	07-073	2.40	46 3-	4ACSR	2330	2126	1621	164	184	8	6	0.06	1.45	11
14-987	14-005	2.40	1 1-	Consumer	0	0	1621	164	19	2	0	0.00	1.45	0
CKT 4 total losses: \$3,709														
SUB 2, CKT 5	GREENSBURG (20)													
20-5	07-070	0.76	390 3-	BKR-560-VWVE	5698	5880	5934	176	2358	104	0	0.00	0.00	0
07-072	07-070	1.24	360 3-	3/0ACSR	4241	4130	3529	173	2358	104	35	0.75	0.75	2315
14-004	07-072	2.25	311 3-	3/0ACSR	3597	3421	2759	171	2178	97	32	0.43	1.18	1258
14-426	14-004	3.45	305 3-	3/0ACSR	2686	2480	1870	167	1890	84	28	0.78	1.96	2042
14-428	14-004	4.14	301 3-	3/0ACSR	2051	1860	1349	163	1841	83	28	1.04	3.00	2382
14-087	14-428	4.44	301 3-	3/0ACSR	1801	1622	1160	160	1809	83	28	0.60	3.60	1364
14-009	14-087	4.77	296 3-	3/0ACSR	1710	1536	1094	159	1801	84	28	0.27	3.87	600
CKT 5 total losses: \$21,495														

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROPT	TOTAL DROPT	LINE LOSS
07-097	D225	2.65	275 3-	1/0ACSR	2056	1883	1369	162	1481	67	29	0.33	3.08	648
07-103	07-097	2.70	271 3-	1/0ACSR	2028	1858	1348	161	1449	67	29	0.06	3.14	102
07-077	07-103	3.21	6 1-	4ACSR	0	0	1076	156	57	7	6	0.10	3.24	5
07-078	07-103	3.35	263 3-	1/0ACSR	1723	1585	1124	158	1361	63	28	0.64	3.78	1073
06-044	07-078	4.92	244 3-	1/0ACSR	1263	1169	803	151	1185	55	24	1.32	5.09	1913
D214	06-044	4.92	180 3-	REC-35-H	1263	1169	803	151	843	39	38	0.00	5.09	0
06-045	D214	5.79	180 3-	1/0ACSR	1098	1020	693	147	843	39	17	0.53	5.63	564
06-048	06-045	7.76	147 3-	1/0ACSR	847	789	529	138	653	31	14	0.88	6.50	685
06-050	06-048	8.63	83 1-	4ACSR	0	0	451	132	301	43	31	1.61	8.11	604
06-052	06-050	11.32	53 1-	4ACSR	0	0	309	115	171	24	18	1.60	9.71	250
06-051	06-052	9.83	13 1-	4ACSR	0	0	375	124	57	8	6	0.24	8.35	12
06-049	06-051	9.62	43 1-	4ACSR	0	0	386	125	180	25	18	1.83	8.34	387
06-039	06-049	11.48	12 1-	4ACSR	0	0	303	114	79	11	8	0.51	8.85	37
06-040	06-039	10.30	10 1-	4ACSR	0	0	351	121	26	3	3	0.06	8.40	0
06-047	06-040	7.77	21 1-	4ACSR	0	0	457	131	84	11	9	0.57	6.20	43
D228	06-047	4.92	31 1-	REC-35-H	0	0	803	151	149	21	61	0.00	5.09	0
06-046	D228	6.56	31 1-	4ACSR	0	0	538	137	149	21	15	1.05	6.15	159
13-005	06-046	7.90	7 1-	4ACSR	0	0	422	128	40	5	4	0.18	6.33	7
C188	07-097	2.65	0 3-	Cap (150)	2056	1883	1369	162	0	-7	0	0.00	3.08	0

CKT 6 total losses: \$12,577

SUB 2 total losses: \$53,705

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
23-028	23-027	4.31	88 3-	3/OACSR	1723	1553	1121	160	353	17	6	0.02	5.56	10
D653	23-028	4.31	88 1-	REC-50-H	0	0	1121	160	353	52	104	0.00	5.56	0
23-053	D653	4.54	88 1-	4ACSR	0	0	1031	157	353	52	37	0.56	6.12	265
23-040	23-053	5.63	85 1-	4ACSR	0	0	732	147	337	49	36	2.21	8.33	898
D638	23-040	5.63	60 1-	REC-35-4H	0	0	732	147	216	32	93	0.00	8.33	0
23-033	D638	7.38	60 1-	4ACSR	0	0	492	133	216	32	23	1.76	10.09	399
23-030	23-033	9.65	17 1-	4ACSR	0	0	344	119	55	8	6	0.47	10.56	24
D640	23-027	4.20	24 1-	REC-35-L	0	0	1146	160	126	18	53	0.00	5.54	0
23-026	D640	5.24	24 1-	4ACSR	0	0	804	150	126	18	13	0.83	6.36	130
23-025	23-026	6.91	8 1-	4ACSR	0	0	533	136	49	7	5	0.30	6.66	13
23-024	23-026	6.21	9 1-	4ACSR	0	0	621	142	45	6	5	0.16	6.52	7
CKT 2 total losses: \$33,710														
SUB 3, CKT 3														
60-3	COLUMBIA(60)	0.00	180 3-	BKR-560-VWVE	5423	5803	5868	176	2778	127	0	0.00	0.00	0
22-110	60-3	0.09	180 3-	336ACSR	5295	5423	5534	176	2778	127	24	0.07	0.07	206
22-069	22-110	0.52	180 3-	3/OACSR	4492	4481	4089	174	2777	127	42	0.59	0.66	1919
22-981	22-069	0.52	1 3-	Consumer	4492	4481	4089	174	270	12	0	0.00	0.66	0
22-020	22-069	1.22	177 3-	3/OACSR	3525	3374	2785	171	2439	111	37	0.86	1.52	2485
22-021	22-020	1.86	174 3-	3/OACSR	2918	2730	2139	169	2419	111	37	0.76	2.28	2167
22-989	22-021	1.86	0 1-	Consumer	0	0	2139	169	0	0	0	0.00	2.28	0
22-992	22-021	1.86	0 3-	Consumer	2918	2730	2139	169	0	0	0	0.00	2.28	0
22-070	22-021	2.54	162 3-	3/OACSR	2450	2257	1707	166	2286	109	37	0.85	3.12	2216
22-094	22-070	3.03	121 3-	3/OACSR	2199	2010	1494	164	2109	101	34	0.54	3.66	1282
22-990	22-094	3.03	1 1-	Consumer	0	0	1494	164	154	22	0	0.00	3.66	0
22-991	22-094	3.03	0 3-	Consumer	2199	2010	1494	164	0	0	0	0.00	3.66	0
22-007	22-094	3.29	92 3-	4/OACSR	2097	1911	1406	163	1498	72	21	0.18	3.84	310
22-997	22-007	3.29	1 1-	Consumer	0	0	1406	163	37	5	0	0.00	3.84	0
22-998	22-007	3.29	1 1-	Consumer	0	0	1406	163	428	62	0	0.00	3.84	0
22-986	22-007	3.29	1 1-	Consumer	0	0	1406	163	27	3	0	0.00	3.84	0
D1056	22-007	3.29	87 3-	REC-50-L	2097	1911	1406	163	503	24	49	0.00	3.84	0
22-079	D1056	3.58	87 3-	1/OACSR	1947	1762	1288	162	503	24	11	0.11	3.95	70
22-008	22-079	4.02	15 3-	1/OACSR	1755	1581	1143	160	97	4	2	0.03	3.99	4
22-100	22-008	4.20	0 3-	1/OACSR	1689	1524	1095	159	0	0	0	0.00	3.99	0
D1057	22-008	4.02	14 1-	REC-25-L	0	0	1143	160	89	12	52	0.00	3.99	0
22-006	D1057	5.24	14 1-	4ACSR	0	0	760	148	89	12	9	0.38	4.37	31
22-082	22-006	4.21	67 3-	4ACSR	1495	1382	1001	156	333	16	12	0.24	4.19	84
22-970	22-082	4.21	1 3-	Consumer	1495	1382	1001	156	72	3	0	0.00	4.19	0
22-971	22-007	3.29	1 3-	Consumer	2097	1911	1406	163	499	24	0	0.00	3.84	0
22-969	22-094	3.03	1 3-	Consumer	2199	2010	1494	164	196	9	0	0.00	3.66	0
C196	22-021	1.86	0 3-	Cap (300)	2918	2730	2139	169	0	-14	0	0.00	2.28	0
CKT 3 total losses: \$10,774														
SUB 3, CKT 4														
60-4	COLUMBIA(60)	0.00	229 3-	BKR-560-VWVE	5423	5803	5868	176	1328	62	0	0.00	0.00	0
22-016	60-4	0.74	229 3-	397ACSR	4542	4529	4133	174	1328	62	11	0.25	0.25	336
22-982	22-016	0.74	1 3-	Consumer	4542	4529	4133	174	77	3	0	0.00	0.25	0
22-979	22-016	0.74	1 3-	Consumer	4542	4529	4133	174	35	1	0	0.00	0.25	0
22-983	22-016	0.74	1 3-	Consumer	4542	4529	4133	174	18	0	0	0.00	0.25	0
22-014	22-016	1.43	219 3-	397ACSR	3924	3814	3203	173	1151	54	9	0.20	0.45	227
22-104	22-014	1.90	142 3-	397ACSR	3587	3441	2772	172	731	34	6	0.04	0.50	22
D680	22-014	1.43	67 1-	REC-70-L	0	0	3203	173	326	46	66	0.00	0.45	0

KENTUCKY 23 TAYLOR - CAMPBELLSVILLE, KENTUCKY  
 EXISTING SYSTEM WITH WINTER 2013/14 LOADS

TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION  
 APPENDIX 2 - 2011-2013 CONSTRUCTION WORK PLAN  
 Peterson & Dewar Engineers, Inc. Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	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 3 total losses: \$65,321														

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 Substation Power Factor: 0.98      Load Factor: 0.45      Loss Factor: 0.24      Cost: 0.0800 per kWh  
 Run Date:      Page 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
11-003	11-018	8.40	22 1-	4ACSR	0	467	132	133	133	20	15	0.79	10.07	99
C202	11-019	5.23	0 3-	Cap (300)	1617	1465	1015	157	0	-13	0	0.00	7.11	0
11-025	11-020	4.45	1 1-	4ACSR	0	1151	159	0	0	0	0	0.00	5.37	0
18-998	18-002	2.09	1 3-	Consumer	3489	3325	2621	172	8	0	0	0.00	2.66	0
CKT 1 total losses: \$58,305														
SUB 4, CKT 2														
90-2	PHIL(90)	0.00	264 3-	BKR-560-VWVE	5458	5745	5784	176	1659	75	0	0.00	0.00	0
18-010	90-2	0.50	264 3-	336ACSR	4808	4794	4319	175	1659	75	14	0.21	0.21	395
18-019	18-010	0.79	261 3-	336ACSR	4479	4399	3728	174	1636	74	14	0.12	0.33	219
15-126	18-019	1.40	255 3-	1/OACSR	3494	3275	2557	170	1538	69	30	0.68	1.01	1319
D920	15-126	1.40	255 3-	REC-70-L	3494	3275	2557	170	1530	69	100	0.00	1.01	0
18-011	D920	2.11	255 3-	1/OACSR	2690	2445	1829	167	1530	69	30	0.79	1.80	1501
18-012	18-011	3.26	162 3-	4ACSR	1495	1422	1043	155	947	42	31	1.70	3.50	2090
18-131	18-012	5.39	145 3-	4ACSR	773	759	564	137	792	36	26	2.38	5.88	2380
18-020	18-131	5.46	100 3-	4ACSR	760	747	556	137	526	26	19	0.07	5.95	51
D939	18-020	5.46	94 2-	REC-35-H	0	747	556	137	457	34	117	0.00	5.95	0
18-015	D939	6.11	94 2-	4ACSR	0	653	488	132	457	34	24	0.90	6.85	554
18-021	18-015	6.72	56 1-	4ACSR	0	0	437	128	253	38	27	0.99	7.84	316
18-017	18-021	9.29	43 1-	6CU	0	0	306	113	182	27	23	1.71	9.55	291
17-027	18-017	9.41	31 1-	4ACSR	0	0	300	112	135	20	15	1.65	8.49	205
D940	18-131	5.39	0 1-	REC-25-H	0	0	564	137	0	0	0	0.00	5.88	0
CAP35	18-131	5.39	0 3-	Cap (300)	773	759	564	137	0	-13	0	0.00	5.88	0
18-018	18-011	2.88	82 3-	4ACSR	1771	1663	1220	159	494	23	17	0.58	2.38	363
18-994	18-018	2.88	1 3-	Consumer	1771	1663	1220	159	9	0	0	0.00	2.38	0
D957	18-018	2.88	62 1-	REC-50-H	0	0	1220	159	310	45	90	0.00	2.38	0
18-016	D957	5.47	62 1-	4ACSR	0	0	555	136	310	45	32	2.86	5.23	789
CKT 2 total losses: \$10,473														
SUB 4, CKT 3														
90-3	PHIL(90)	0.00	391 3-	BKR-560-VWVE	5458	5745	5784	176	4811	225	0	0.00	0.00	0
17-008	90-3	2.57	391 3-	397ACSR	3210	3031	2315	171	4811	225	38	3.15	3.15	15414
17-989	17-008	2.57	1 3-	Consumer	3210	3031	2315	171	11	0	0	0.00	3.15	0
17-030	17-008	2.97	329 3-	397ACSR	3008	2823	2110	170	4305	205	35	0.44	3.59	1955
R115	17-030	2.97	314 3-	328	3008	2823	2110	170	4112	196	60	0.00	3.59	0
17-010	R115	3.21	314 3-	397ACSR	2899	2712	2003	169	4112	196	33	0.24	3.82	1003
17-995	17-010	3.21	1 1-	Consumer	0	0	2003	169	60	8	0	0.00	3.82	0
17-996	17-010	3.21	1 1-	Consumer	0	0	2003	169	47	6	0	0.00	3.82	0
17-011	17-010	3.42	89 3-	336ACSR	2804	2614	1899	169	2525	119	23	0.14	3.97	402
17-036	17-011	3.89	81 3-	336ACSR	2613	2419	1700	168	2369	116	22	0.34	4.31	863
17-997	17-036	3.89	1 3-	Consumer	2613	2419	1700	168	127	6	0	0.00	4.31	0
17-993	17-036	3.89	1 1-	Consumer	0	0	1700	168	137	20	0	0.00	4.31	0
17-994	17-036	3.89	1 1-	Consumer	0	0	1700	168	779	115	0	0.00	4.31	0
17-992	17-036	3.89	1 1-	Consumer	0	0	1700	168	345	50	0	0.00	4.31	0
17-028	17-036	4.46	65 3-	4ACSR	1987	1806	1288	162	871	42	31	0.86	5.17	1045
17-025	17-028	4.68	50 3-	4ACSR	1793	1648	1171	159	730	36	26	0.29	5.46	296
17-991	17-025	4.68	1 3-	Consumer	1793	1648	1171	159	269	13	0	0.00	5.46	0
17-990	17-025	4.68	1 3-	Consumer	1793	1648	1171	159	113	5	0	0.00	5.46	0
D923	17-025	4.68	45 1-	REC-50-L	0	0	1171	159	250	37	75	0.00	5.46	0
C215	D923	7.30	45 1-	4ACSR	0	0	545	137	250	37	27	2.40	7.86	548
D924	17-011	3.42	0 3-	Cap (300)	2804	2614	1899	169	1009	-14	0	0.00	3.97	0
	17-010	3.21	182 3-	ER3-WVE	2899	2712	2003	169	1009	49	0	0.00	3.82	0



File: TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION  
 e: APPENDIX 2 - 2011-2013 CONSTRUCTION WORK PLAN  
 -atterson & Dewar Engineers, Inc. Norcross, Georgia

KENTUCKY 23 TAYLOR - CAMPBELLSVILLE, KENTUCKY  
 EXISTING SYSTEM WITH WINTER 2013/14 LOADS

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
12-002	12-007	14.02	33 1-	4ACSR	0	0	289	113	188	31	22	0.90	18.87	173
12-001	12-007	13.24	44 1-	4ACSR	0	0	316	118	142	23	17	0.35	18.31	62
11-011	12-001	14.70	18 1-	4ACSR	0	0	269	110	69	11	8	0.41	18.72	29
CAP33	12-005	11.05	0 3-	Cap (600)	703	648	426	132	0	-26	0	0.00	12.13	0
D918	18-007	6.52	27 1-	REC-25-4H	0	0	758	151	111	16	67	0.00	7.17	0
18-008	D918	8.55	27 1-	4ACSR	0	0	484	134	111	16	12	1.10	8.27	131
11-013	18-008	10.05	11 1-	4ACSR	0	0	379	124	34	5	4	0.19	8.46	6
D917	18-006	5.13	50 1-	REC-35-L	0	0	991	157	258	38	110	0.00	5.34	0
11-014	D917	5.98	50 1-	4ACSR	0	0	763	149	258	38	27	1.20	6.54	352
11-010	11-014	9.35	21 1-	4ACSR	0	0	387	124	83	12	9	1.03	7.57	79
11-015	11-014	6.66	8 1-	4ACSR	0	0	641	144	44	6	5	0.11	6.65	4
CAP34	18-006	5.13	0 3-	Cap (300)	1584	1420	991	157	0	-13	0	0.00	5.34	0
D952	18-004	3.58	16 1-	REC-25-L	0	0	1353	163	67	9	39	0.00	3.81	0
18-005	D952	5.40	16 1-	4ACSR	0	0	714	146	67	9	7	0.44	4.24	26

CXT 5 total losses: \$39,344

SUB 4 total losses: \$134,806

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 Substation Power Factor: 0.97      Load Factor: 0.45      Loss Factor: 0.24      Cost: 0.0800 per kWh  
 Run Date:      Page 15



LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
02-034	01-007	6.52	71 3-	1/0ACSR	1321	1199	810	152	379	18	8	0.19	6.87	95
02-032	02-034	7.19	36 1-	4ACSR	0	0	678	146	213	30	22	0.80	7.67	203
	D312	7.19	26 1-	REC-35-H	0	0	678	146	135	19	56	0.00	7.67	0
02-011	D312	8.31	26 1-	4ACSR	0	0	529	137	135	19	14	0.90	8.56	151
02-012	02-011	10.02	22 1-	4ACSR	0	0	394	125	98	14	10	0.58	9.14	52
D360	02-034	6.52	32 1-	REC-35-4H	0	0	810	152	127	18	52	0.00	6.87	0
D313	D360	7.58	32 1-	4ACSR	0	0	618	143	127	18	13	0.46	7.33	53
01-006	D313	8.33	63 1-	REC-35-4H	0	0	929	156	229	32	94	0.00	6.68	0
01-005	D313	8.33	63 1-	4ACSR	0	0	499	135	229	32	23	2.74	9.42	686
CAP67	01-006	10.28	25 1-	4ACSR	0	0	364	122	91	13	10	0.62	10.04	52
D305	06-060	4.33	0 3-	Cap (150)	2096	1902	1339	163	0	-6	0	0.00	5.92	0
06-053	06-056	4.11	350 3-	REC-70-L	2201	2005	1417	164	1724	80	115	0.00	5.72	0
06-013	D305	6.55	350 3-	1/0ACSR	1305	1186	801	152	1724	80	35	2.88	8.59	6403
06-026	06-053	6.98	275 3-	1/0ACSR	1215	1107	743	150	1390	66	29	0.44	9.03	846
06-012	06-013	8.06	5 1-	4ACSR	0	0	575	141	25	3	3	0.09	9.13	2
06-055	06-012	7.66	265 3-	1/0ACSR	1094	1000	667	147	1336	64	28	0.66	9.69	1216
06-006	06-012	7.80	259 3-	1/0ACSR	1071	980	653	146	1269	62	27	0.14	9.84	251
06-054	06-055	8.88	233 3-	1/0ACSR	927	852	563	142	1166	57	25	0.94	10.78	1445
D307	06-054	9.31	98 3-	1/0ACSR	880	809	534	140	541	26	12	0.18	10.96	130
06-003	06-054	9.31	45 1-	REC-35-4H	0	0	534	140	220	32	93	0.00	10.96	0
06-001	D307	10.68	45 1-	4ACSR	0	0	421	130	220	32	23	1.59	12.65	455
06-002	06-003	12.35	15 1-	4ACSR	0	0	332	119	79	11	9	0.47	13.12	36
D377	06-003	11.67	9 1-	4ACSR	0	0	363	123	50	7	5	0.18	12.83	9
06-011	06-054	9.31	49 1-	REC-50-L	0	0	534	140	281	41	83	0.00	10.96	0
01-019	D377	10.62	49 1-	4ACSR	0	0	424	130	281	41	30	2.16	13.11	757
01-020	06-011	11.86	29 1-	6CU	0	0	356	122	180	27	23	1.38	14.50	331
D309	01-019	12.85	12 1-	4ACSR	0	0	314	116	73	11	8	0.26	14.76	19
01-018	01-019	11.86	8 1-	REC-35-4H	0	0	356	122	65	9	28	0.00	14.50	0
D308	D309	12.31	8 1-	4ACSR	0	0	335	119	65	9	7	0.11	14.60	7
06-004	06-006	8.88	115 3-	REC-35-H	927	852	563	142	487	24	23	0.00	10.78	0
06-029	D308	10.14	115 3-	1/0ACSR	800	737	485	136	487	24	10	0.45	11.23	286
06-030	06-004	11.17	82 3-	1/0ACSR	719	665	436	132	335	16	7	0.25	11.48	110
06-032	06-029	13.25	29 1-	4ACSR	0	0	326	119	100	14	11	0.73	12.21	69
06-031	06-029	11.87	47 1-	4ACSR	0	0	392	127	177	26	19	0.74	12.22	165
06-033	06-032	14.33	18 1-	4ACSR	0	0	287	113	54	8	6	0.47	12.69	24
D363	06-032	13.43	16 1-	4ACSR	0	0	319	118	66	9	7	0.36	12.58	23
06-028	06-033	13.43	0 1-	REC-35-4H	0	0	319	118	0	0	0	0.00	12.58	0
D306	06-004	12.04	18 1-	4ACSR	0	0	362	123	68	10	7	0.45	11.68	29
06-007	06-055	7.80	26 1-	REC-35-H	0	0	653	146	102	14	43	0.00	9.84	0
06-010	D306	8.59	26 1-	4ACSR	0	0	551	140	102	14	11	0.50	10.33	66
06-008	06-007	9.36	16 1-	4ACSR	0	0	475	134	65	9	7	0.31	10.64	26
C184	06-009	11.05	13 1-	4ACSR	0	0	365	123	48	7	5	0.28	10.92	13
D372	06-007	9.49	5 1-	4ACSR	0	0	464	133	15	2	2	0.05	10.38	0
06-014	06-012	7.66	0 3-	Cap (150)	1094	1000	667	147	0	-6	0	0.00	9.69	0
06-014	06-053	6.55	22 1-	REC-25-H	0	0	801	152	70	10	41	0.00	8.59	0
	D372	9.10	22 1-	4ACSR	0	0	456	131	70	10	7	0.61	9.21	39

CKT 4 total losses: \$53,681

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-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	MCKINNEY(40)		1669		5063	5482	5467	176	8078					
SUB 6, CKT 1				BKR-560-VWVE	5063	5482	5467	176	3130	140	0	0.00	0.00	0
40-1	MCKINNEY(40)	0.00	623 3-		5063	5482	5467	176	3130	140	0	0.00	0.00	0
14-041	40-1	0.95	623 3-	1/0ACSR	3350	3146	2684	170	3130	140	61	2.05	2.05	8085
14-066	14-041	1.37	564 3-	1/0ACSR	2855	2625	2151	168	2788	126	55	0.81	2.86	2905
14-084	14-066	1.65	532 3-	1/0ACSR	2593	2375	1897	167	2587	118	51	0.51	3.38	1752
D425	14-084	1.65	524 3-	REC-100-L	2593	2375	1897	167	2534	116	116	0.00	3.38	0
13-428	D425	2.20	524 3-	1/0ACSR	2190	2011	1538	164	2534	116	51	0.98	4.36	3265
13-427	13-428	3.21	11 1-	4ACSR	0	0	984	154	80	11	8	0.27	4.62	19
13-029	13-427	2.96	497 3-	1/0ACSR	1800	1659	1221	160	2346	108	47	1.23	5.59	3836
13-027	13-029	4.14	469 3-	1/0ACSR	1400	1296	920	154	2168	101	44	1.78	7.36	5168
13-026	13-027	4.54	152 3-	1/0ACSR	1300	1205	848	152	763	36	16	0.23	7.59	226
13-025	13-026	5.17	102 3-	1/0ACSR	1171	1087	757	149	467	22	10	0.19	7.78	108
13-997	13-025	5.17	1 3-	Consumer	1171	1087	757	149	3	0	0	0.00	7.78	0
D426	13-025	5.17	82 3-	REC-25-4H	1171	1087	757	149	320	15	62	0.00	7.78	0
13-023	D426	5.65	82 3-	1/0ACSR	1087	1010	699	147	320	15	7	0.11	7.90	46
13-022	13-023	6.91	27 1-	6CU	0	0	529	137	320	15	7	0.11	7.90	46
13-021	13-022	7.71	47 1-	4ACSR	0	0	454	131	178	25	18	0.41	8.31	36
D406	13-021	4.54	38 1-	REC-35-4H	0	0	848	152	214	30	88	0.00	7.59	0
13-016	D406	5.76	38 1-	4ACSR	0	0	614	142	214	30	22	1.45	9.04	372
13-017	13-016	7.21	23 1-	4ACSR	0	0	458	131	132	19	14	0.67	9.71	82
D420	13-017	4.14	282 3-	REC-70-L	1400	1296	920	154	1237	58	83	0.00	7.36	0
13-010	D420	5.37	282 3-	1/0ACSR	1134	1054	732	148	1237	58	25	0.99	8.35	1761
13-011	13-010	6.24	237 3-	1/0ACSR	999	930	639	144	1051	50	22	0.57	8.92	988
13-012	13-011	6.47	143 3-	1/0ACSR	969	902	618	143	630	31	14	0.08	9.00	98
13-038	13-012	6.82	140 3-	1/0ACSR	925	862	589	142	602	29	13	0.16	9.17	131
13-007	13-038	6.91	18 3-	4ACSR	905	845	578	141	75	3	3	0.01	9.17	0
D427	13-007	6.91	0 1-	REC-35-H	0	0	578	141	0	0	0	0.00	9.17	0
13-013	D427	7.43	114 3-	4ACSR	801	754	520	137	491	23	17	0.49	9.65	317
D437	13-013	7.43	98 3-	REC-35-4H	801	754	520	137	366	17	51	0.00	9.65	0
13-003	D437	7.75	69 3-	4ACSR	745	706	489	135	282	13	10	0.15	9.81	59
13-002	13-003	8.94	53 3-	4ACSR	593	570	401	127	218	10	8	0.26	10.07	58
13-999	13-002	8.94	0 1-	Consumer	0	0	401	127	0	0	0	0.00	10.07	0
13-998	13-999	8.94	1 1-	Consumer	0	0	401	127	18	2	0	0.00	10.07	0
13-004	13-998	8.79	29 1-	4ACSR	0	0	410	127	84	12	9	0.40	10.05	31
C109	D437	6.47	0 3-	Cap (300)	969	902	618	143	0	-13	0	0.00	9.00	0
D402	13-012	6.24	69 1-	REC-35-H	0	0	639	144	283	41	118	0.00	8.92	0
13-015	D402	6.96	69 1-	4ACSR	0	0	546	139	283	41	30	1.26	10.18	461
13-018	13-015	8.07	58 1-	4ACSR	0	0	445	130	221	32	23	1.39	11.57	373
D438	13-018	8.07	34 1-	REC-25-H	0	0	445	130	132	19	79	0.00	11.57	0
13-001	D438	10.20	34 1-	4ACSR	0	0	326	117	132	19	14	1.47	13.05	227
13-019	13-001	11.09	8 1-	4ACSR	0	0	293	112	29	4	3	0.09	13.14	3
13-020	13-019	11.81	7 1-	4ACSR	0	0	271	109	32	4	3	0.19	13.23	6
D431	13-020	5.37	19 1-	REC-25-4H	0	0	732	148	68	9	39	0.00	8.35	0
13-008	D431	6.45	19 1-	4ACSR	0	0	565	139	68	9	7	0.25	8.61	16
D430	13-008	2.96	9 1-	REC-35-L	0	0	1221	160	49	6	20	0.00	5.59	0
13-028	D430	4.08	9 1-	4ACSR	0	0	812	149	49	6	5	0.18	5.77	8
D421	14-041	0.95	36 1-	REC-35-L	0	0	2684	170	146	20	58	0.00	2.05	0
14-044	D421	3.53	36 1-	4ACSR	0	0	750	145	146	20	14	1.24	3.29	158

CKT 1 total losses: \$30,701

Substation Power Factor: 0.99 Load Factor: 0.45 Less Factor: 0.24 Cost: 0.0800 per kWh

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
13-024	13-033	8.52	15 1-	4ACSR	0	0	389	124	72	10	7	0.33	9.39	22
13-034	13-033	8.14	13 1-	4ACSR	0	0	412	127	67	9	7	0.22	9.28	14
D410	13-032	5.25	81 3-	REC-35-L	1154	1072	746	149	288	13	39	0.00	6.59	0
13-036	D410	6.54	81 1-	4ACSR	0	0	550	138	288	41	29	2.17	8.76	771
13-035	13-036	7.83	12 1-	4ACSR	0	0	433	129	53	7	5	0.24	9.00	12
20-001	13-036	7.83	12 1-	4ACSR	0	0	433	129	53	7	5	0.24	9.00	12
20-002	13-036	8.56	34 1-	4ACSR	0	0	386	124	99	14	10	0.70	9.46	64
D409	13-031	4.86	29 1-	REC-35-4H	0	0	799	151	92	13	38	0.00	6.43	0
20-003	D409	7.16	29 1-	4ACSR	0	0	473	132	92	13	9	0.72	7.15	60
D429	14-063	3.00	15 1-	REC-35-L	0	0	1206	160	57	8	23	0.00	5.38	0
14-064	D429	4.77	15 1-	4ACSR	0	0	672	143	57	8	6	0.34	5.72	17
D434	14-042	1.17	14 1-	REC-35-L	0	0	2375	169	86	11	34	0.00	2.86	0
14-098	D434	1.71	14 1-	6CU	0	0	1656	163	86	11	10	0.21	3.07	19
14-093	14-098	3.04	10 1-	4ACSR	0	0	904	151	35	4	3	0.15	3.22	5
CKT 2 total losses: \$35,484														
SUB 6, CKT 3														
40-3	MCKINNEY (40)	0.00	314 3-	BKR-560-VWVE	5063	5482	5467	176	1505	67	0	0.00	0.00	0
14-040	40-3	0.18	314 3-	1/0ACSR	4664	4668	4641	175	1505	67	29	0.19	0.19	362
14-238	14-040	0.36	306 3-	1/0ACSR	4305	4239	4005	174	1453	65	29	0.19	0.37	335
14-036	14-238	0.65	62 1-	4ACSR	0	0	2946	170	220	29	21	0.37	0.74	98
D403	14-036	0.65	55 1-	REC-50-L	0	0	2946	170	174	23	47	0.00	0.74	0
14-095	D403	1.17	55 1-	6CU	0	0	1923	165	174	23	20	0.51	1.26	107
14-032	14-095	1.68	48 1-	4ACSR	0	0	1411	160	135	18	13	0.43	1.69	74
14-237	14-032	2.82	7 1-	4ACSR	0	0	870	149	24	3	2	0.09	1.78	2
D405	14-032	1.68	39 1-	REC-35-L	0	0	1411	160	103	14	40	0.00	1.69	0
14-046	D405	3.23	39 1-	4ACSR	0	0	764	145	103	14	10	0.81	2.50	93
14-092	14-046	4.50	26 1-	4ACSR	0	0	555	135	57	7	6	0.38	2.88	24
14-047	14-092	5.91	15 1-	6CU	0	0	427	126	33	4	4	0.15	3.03	4
14-037	14-238	1.39	235 3-	1/0ACSR	2833	2602	2128	168	1167	52	23	0.83	1.20	1161
14-067	14-037	2.76	156 3-	1/0ACSR	1889	1740	1291	161	769	35	15	0.67	1.88	599
14-038	14-067	3.76	106 3-	1/0ACSR	1507	1394	999	156	560	25	11	0.37	2.24	240
14-003	14-038	4.57	46 3-	1/0ACSR	1294	1200	844	152	322	14	6	0.19	2.43	78
14-427	14-003	4.82	17 3-	3/0ACSR	1254	1162	814	151	209	9	3	0.03	2.46	6
14-007	14-427	5.41	14 3-	3/0ACSR	1166	1079	751	149	196	9	3	0.04	2.50	8
14-008	14-007	5.87	10 3-	4ACSR	1017	952	666	145	84	3	3	0.04	2.54	3
14-994	14-008	5.87	1 3-	Consumer	1017	952	666	145	16	0	0	0.00	2.54	0
D428	14-003	4.57	26 1-	REC-35-H	0	0	844	152	101	13	40	0.00	2.43	0
14-034	D428	6.37	26 1-	6CU	0	0	542	137	101	13	12	0.59	3.02	52
D417	14-038	3.76	34 1-	REC-50-4H	0	0	999	156	95	13	26	0.00	2.24	0
14-002	D417	6.96	34 1-	4ACSR	0	0	453	130	95	13	9	1.07	3.31	92
14-981	14-002	6.96	1 1-	Consumer	0	0	453	130	7	0	0	0.00	3.31	0
D418	14-037	1.39	52 2-	REC-50-L	0	2602	2128	168	225	15	31	0.00	1.20	0
14-039	D418	2.47	52 2-	4ACSR	0	1505	1167	157	225	15	11	0.56	1.77	145
13-006	14-039	3.62	28 1-	4ACSR	0	0	771	146	96	13	9	0.36	2.13	30
13-037	14-039	3.06	4 1-	4ACSR	0	0	926	151	36	5	4	0.07	1.84	2
C189	14-040	0.18	0 3-	Cap (150)	4664	4668	4641	175	0	-7	0	0.00	0.19	0
CKT 3 total losses: \$3,515														

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	LG	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 7, CKT 1	MILELANE(10)	2764			5664	5942	5976	176	12811						
10-1	MILELANE(10)	0.00	557 3-	BKR-560-VWVE	5664	5942	5976	176	2846	126	0	0	0.00	0.00	0
03-074	10-1	0.66	557 3-	4/OACSR	4465	4385	3829	174	2846	126	37	0.66	0.66	2337	14
03-059	03-074	0.92	105 3-	1/OACSR	3983	3818	3181	172	418	19	8	0.04	0.70	1027	186
03-073	03-074	1.39	426 3-	336ACSR	3794	3615	2813	172	2308	103	19	0.36	1.02	1027	1644
03-063	03-073	1.54	385 3-	336ACSR	3684	3495	2673	171	2104	96	18	0.08	1.10	186	87
03-034	03-063	3.56	343 3-	336ACSR	2598	2379	1560	166	1875	85	16	0.84	1.94	1644	3
03-036	03-034	3.83	189 3-	336ACSR	2498	2281	1476	165	1060	48	9	0.07	2.02	87	0
03-035	03-036	4.10	9 1-	4ACSR	0	0	1302	162	63	8	6	0.06	2.07	3	0
D147	03-036	3.83	174 3-	REC-70-L	2498	2281	1476	165	938	43	62	0.00	2.02	0	0
03-021	D147	4.10	174 3-	336ACSR	2405	2191	1402	164	938	43	8	0.06	2.08	64	0
03-020	03-021	5.80	128 3-	4ACSR	1183	1113	759	148	676	31	22	1.74	3.82	1453	0
03-998	03-020	5.80	1 1-	Consumer	0	0	759	148	10	1	0	0.00	3.82	0	0
03-019	03-020	6.56	64 3-	4ACSR	941	899	624	142	362	16	12	0.39	4.21	170	0
D106	03-019	6.56	49 1-	REC-50-H	0	0	624	142	214	30	60	0.00	4.21	0	0
03-006	D106	7.16	49 1-	4ACSR	0	0	546	137	214	30	21	0.77	4.98	202	0
03-005	03-006	7.72	8 1-	4ACSR	0	0	489	133	32	4	3	0.06	5.04	2	0
03-007	03-006	8.48	30 1-	4ACSR	0	0	427	128	133	18	13	0.59	5.57	70	0
D134	03-020	5.80	25 1-	REC-25-4H	0	0	759	148	103	14	58	0.00	3.82	0	0
03-018	D134	7.46	25 1-	4ACSR	0	0	513	135	103	14	10	0.57	4.39	52	0
D116	03-021	4.10	33 1-	REC-25-L	0	0	1402	164	150	20	83	0.00	2.08	0	0
03-022	D116	6.49	33 1-	4ACSR	0	0	633	142	150	20	15	1.18	3.25	154	0
D136	03-034	3.56	67 1-	REC-35-H	0	0	1560	166	292	40	115	0.00	1.94	0	0
03-037	D136	5.54	67 1-	4ACSR	0	0	740	147	292	40	29	1.90	3.84	483	0
D105	03-063	1.54	39 1-	REC-35-L	0	0	2673	171	216	29	84	0.00	1.10	0	0
03-038	D105	4.04	39 1-	4ACSR	0	0	777	147	216	29	21	1.76	2.86	329	0
C173	03-073	1.39	0 3-	Cap (300)	3794	3615	2813	172	216	29	21	0.00	1.02	0	0
CKT 1 total losses:		\$8,277								0	-14	0	0.00	1.02	0
SUB 7, CKT 2	MILELANE(10)				5664	5942	5976	176	1359	61	0	0	0.00	0.00	0
10-2	MILELANE(10)	0.00	349 3-	BKR-560-VWVE	5664	5942	5976	176	1359	61	18	0.61	0.61	909	0
03-060	10-2	1.22	349 3-	4/OACSR	3749	3584	2891	172	1359	61	18	0.61	0.61	909	0
03-057	03-060	2.31	315 3-	1/OACSR	2533	2300	1721	166	1138	51	22	0.54	1.14	562	0
03-055	03-057	3.46	36 3-	1/OACSR	1844	1678	1194	160	198	9	4	0.09	1.24	16	0
08-909	03-055	3.46	1 1-	Consumer	0	0	1194	160	20	2	0	0.00	1.24	0	0
CKT 2 total losses:		\$1,487													
SUB 7, CKT 3	MILELANE(10)				5664	5942	5976	176	2691	120	0	0	0.00	0.00	0
10-3	MILELANE(10)	0.00	521 3-	BKR-560-VWVE	5664	5942	5976	176	2691	120	0	0	0.00	0.00	0
03-064	10-3	1.32	521 3-	3/OACSR	3473	3290	2660	171	2691	120	40	1.49	1.49	4859	0
03-033	03-064	2.44	444 3-	1/OACSR	2362	2135	1613	165	2212	99	43	1.65	3.14	4740	0
03-032	03-033	3.04	411 3-	1/OACSR	1995	1815	1324	162	2003	91	40	0.83	3.98	2252	0
03-072	03-032	3.51	404 3-	1/OACSR	1779	1624	1163	159	1957	91	40	0.68	4.66	1711	0
03-031	03-072	3.67	378 3-	1/OACSR	1711	1565	1114	158	1781	83	36	0.22	4.88	511	0
03-075	03-031	4.12	288 3-	1/OACSR	1555	1425	1003	156	1309	61	27	0.45	5.33	763	0
D103	03-075	4.12	288 3-	REC-70-L	1555	1425	1003	156	1305	61	88	0.00	5.33	0	0
03-027	D103	4.79	288 3-	1/OACSR	1362	1253	869	153	1305	61	27	0.66	5.99	1098	0
03-025	03-027	6.25	270 3-	1/OACSR	1073	992	675	146	1204	57	25	1.24	7.22	1842	0
03-079	03-025	6.42	167 3-	4ACSR	1022	949	647	145	681	32	23	0.22	7.44	209	0
03-024	03-079	7.52	100 3-	4ACSR	778	738	512	136	430	20	15	0.80	8.24	463	0
D109	03-024	7.52	22 1-	REC-25-H	0	0	512	136	97	14	57	0.00	8.24	0	0

KENTUCKY 23 TAYLOR - CAMPBELLSVILLE, KENTUCKY  
EXISTING SYSTEM WITH WINTER 2013/14 LOADS

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
D140	02-038	7.71	50 1-	REC-35-H	0	0	487	134	235	33	95	0.00	5.11	0
02-043	D140	8.54	50 1-	4ACSR	0	0	423	128	235	33	24	1.21	6.33	363
02-016	02-043	8.86	6 1-	4ACSR	0	0	402	126	149	49	6	5	6.38	2
02-007	02-043	11.13	35 1-	4ACSR	0	0	298	113	149	21	15	1.31	7.63	176
C167	02-018	7.70	0 3-	Cap (300)	744	707	489	134	0	-13	0	0.00	5.11	0
D139	02-039	4.51	28 1-	REC-35-L	0	0	867	152	97	13	39	0.00	4.19	0
02-023	D139	6.74	28 1-	4ACSR	0	0	502	134	97	13	10	0.73	4.91	62
D112	03-066	2.12	112 3-	REC-50-L	2369	2166	1627	164	599	27	56	0.00	2.94	0
08-003	D112	3.13	112 3-	1/OACSR	1802	1659	1189	159	599	27	12	0.43	3.37	324
08-171	08-003	3.20	77 3-	1/OACSR	1772	1631	1167	159	349	16	7	0.02	3.39	7
08-002	08-171	4.50	73 1-	4ACSR	0	0	747	147	295	41	29	1.27	4.66	331
D143	08-003	3.13	26 1-	REC-25-L	0	0	1189	159	194	27	108	0.00	3.37	0
08-001	D143	4.59	26 1-	4ACSR	0	0	722	146	194	27	19	1.59	4.96	364
07-092	08-001	5.14	12 1-	4ACSR	0	0	628	141	85	11	9	0.16	5.12	12
02-024	08-001	5.81	6 1-	4ACSR	0	0	541	136	46	6	5	0.19	5.15	8
CKT 4 total losses: \$12,636														

SUB 7, CKT 5  
 MILELANE (10)  
 10-5  
 03-065  
 08-016  
 08-936  
 D119  
 08-092  
 D119  
 5 total losses: \$675

5664	5942	5976	176	1186	53	0	0.00	0.00	0
4390	4302	3788	173	1186	53	18	0.35	0.35	484
2568	2362	1784	167	579	26	9	0.25	0.60	115
2568	2362	1784	167	0	0	0	0.00	0.60	0
4390	4302	3788	173	490	22	22	0.00	0.35	0
2904	2663	2084	168	490	22	10	0.18	0.54	76

SUB 7, CKT 6  
 MILELANE (10)  
 10-6  
 03-071  
 03-058  
 03-041  
 03-040  
 D130  
 03-081  
 03-014  
 03-078  
 03-016  
 03-039  
 03-017  
 03-015  
 03-008  
 03-009  
 C142  
 03-013  
 03-077  
 03-010  
 03-042  
 03-996  
 D132  
 03-053  
 6 total losses: \$8,737

5664	5942	5976	176	2370	106	0	0.00	0.00	0
4001	3861	3198	173	2370	106	31	0.83	0.83	2262
2258	2063	1457	165	2020	91	27	1.49	2.32	3308
2192	1999	1405	164	1188	53	16	0.07	2.39	105
1622	1459	984	158	1056	47	14	0.63	3.02	830
1622	1459	984	158	854	38	111	0.00	3.02	0
1581	1420	956	157	854	38	11	0.05	3.07	61
1528	1371	919	156	396	18	5	0.03	3.10	19
1504	1349	903	156	388	18	5	0.02	3.11	9
0	0	772	151	208	28	21	0.65	3.76	162
0	0	555	139	71	9	7	0.33	4.09	21
0	0	631	144	80	11	8	0.21	3.98	15
0	0	884	144	180	8	2	0.01	3.13	2
1476	1322	884	143	168	23	17	1.20	4.33	230
0	0	619	143	168	23	17	1.20	4.33	230
0	0	482	134	98	13	10	0.41	4.73	35
1528	1371	919	156	0	-7	0	0.00	3.10	0
0	0	740	149	414	57	41	2.26	5.32	1188
0	0	632	144	151	21	15	0.32	5.65	44
0	0	512	136	211	29	21	1.16	6.48	219
0	0	1405	164	130	17	51	0.00	2.39	0
0	0	856	151	130	17	13	0.61	3.00	74
0	0	856	151	15	2	0	0.00	3.00	0
0	0	1457	165	171	23	68	0.00	2.32	0
0	0	746	147	171	23	17	1.02	3.34	153

LINE SECT	PRIOR SECT	MILES	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 8	BASS(80)	1711			5046	5417	5491	176	8592					
SUB 8, CKT 1														
80-1	BASS(80)	0.00	300 3-	BKR-560-VWVE	5046	5417	5491	176	1499	67	0	0.00	0.00	0
09-015	80-1	0.85	300 3-	397ACSR	4181	4171	3784	174	1499	67	11	0.27	0.27	455
09-047	09-015	1.11	282 3-	397ACSR	3963	3913	3437	174	1390	62	11	0.08	0.35	123
10-025	09-047	2.50	170 3-	397ACSR	3099	2949	2307	171	879	39	7	0.26	0.61	249
10-135	10-025	2.85	117 3-	397ACSR	2934	2776	2127	170	615	27	5	0.05	0.66	33
10-128	10-135	3.88	0 3-	4ACSR	1743	1632	1220	159	0	0	0	0.00	0.66	0
D819	10-135	2.85	117 1-	REC-70-L	0	0	2127	170	615	83	120	0.00	0.66	0
10-134	D819	3.24	117 1-	4ACSR	0	0	1685	166	615	83	60	1.51	2.17	1181
10-131	10-134	5.09	109 1-	6CU	0	0	798	148	576	79	66	6.04	8.20	4220
REG50	10-131	5.09	79 1-	100	0	0	798	148	424	61	61	0.00	8.20	0
10-004	REG50	5.82	79 1-	4ACSR	0	0	652	142	424	61	44	2.01	10.22	1137
10-003	10-004	6.60	0 1-	4ACSR	0	0	546	136	0	0	0	0.00	10.22	0
D832	10-004	5.82	72 1-	REC-50-H	0	0	652	142	372	54	110	0.00	10.22	0
10-005	D832	7.19	72 1-	4ACSR	0	0	485	132	372	54	39	3.19	13.40	1551
05-005	10-005	9.66	57 1-	4ACSR	0	0	331	116	287	43	31	3.26	16.66	1035
05-999	05-005	9.66	1 1-	Consumer	0	0	331	116	82	12	0	0.00	16.66	0
D830	10-025	2.50	45 1-	REC-50-L	0	0	2307	171	212	28	0	0.00	10.22	0
10-139	D830	3.02	45 1-	6CU	0	0	1675	165	212	28	24	0.52	1.13	120
09-053	10-139	5.08	23 1-	4ACSR	0	0	736	146	106	14	10	0.70	1.83	65
D818	09-047	1.11	79 1-	REC-70-L	0	0	3437	174	389	52	75	0.00	0.35	0
10-050	D818	2.85	79 1-	4ACSR	0	0	1111	155	389	52	38	3.92	4.27	1849
10-002	10-050	3.85	64 1-	4ACSR	0	0	779	146	306	42	31	1.77	6.04	666
D833	10-002	3.85	53 1-	REC-50-H	0	0	779	146	228	32	65	0.00	6.04	0
10-001	D833	4.66	53 1-	4ACSR	0	0	626	140	228	32	23	1.14	7.19	336
05-003	10-001	5.82	36 1-	4ACSR	0	0	489	131	146	20	15	0.98	8.17	179
05-004	05-003	6.45	29 1-	4ACSR	0	0	436	127	105	15	11	0.22	8.39	22
05-002	10-001	5.95	5 1-	4ACSR	0	0	477	130	47	6	5	0.20	7.39	9
D825	09-047	1.11	30 1-	REC-50-L	0	0	3437	174	91	12	25	0.00	0.35	0
09-029	D825	5.08	30 1-	4ACSR	0	0	568	137	91	12	9	1.15	1.50	90
D829	09-015	0.85	12 1-	REC-70-L	0	0	3784	174	70	9	13	0.00	0.27	0
05-009	D829	4.64	12 1-	4ACSR	0	0	600	138	70	9	7	0.84	1.11	51
CKT 1	total losses:	\$13,371												
SUB 8, CKT 2														
80-2	BASS(80)	0.00	521 3-	BKR-560-VWVE	5046	5417	5491	176	2683	120	0	0.00	0.00	0
09-016	80-2	1.73	521 3-	3/0ACSR	2885	2721	2177	169	2683	120	40	2.08	2.08	6846
09-051	09-016	1.77	11 3-	3/0ACSR	2849	2684	2141	169	87	3	1	0.00	2.08	0
D844	09-051	1.77	11 1-	REC-25-L	0	0	2141	169	87	11	48	0.00	2.08	0
09-028	D844	3.09	11 1-	4ACSR	0	0	1068	155	87	11	9	0.37	2.46	28
09-017	09-016	2.62	494 3-	3/0ACSR	2321	2143	1634	166	2440	110	37	0.96	3.04	2909
09-048	09-017	3.26	471 3-	1/0ACSR	1960	1778	1327	162	2222	102	45	1.05	4.09	2992
09-037	09-048	4.88	360 3-	1/0ACSR	1386	1264	895	154	1691	78	34	1.87	5.96	3876
R101	09-027	4.88	301 3-	150	1386	1264	895	154	1358	64	43	0.00	5.96	0
14-078	R101	4.96	179 3-	1/0ACSR	1368	1247	881	154	831	39	17	0.05	6.00	52
D840	14-078	4.96	179 3-	REC-100-L	1368	1247	881	154	831	39	39	0.00	6.00	0
09-039	D840	5.65	179 3-	1/0ACSR	1215	1112	775	151	831	39	17	0.42	6.43	462
09-038	09-039	6.33	151 3-	1/0ACSR	1093	1004	692	147	682	32	14	0.34	6.77	299
09-037	09-038	7.71	45 3-	1/0ACSR	907	837	568	141	245	11	5	0.13	6.89	28
D804	09-037	7.71	0 3-	REC-35-4H	907	837	568	141	0	0	0	0.00	6.89	0
D805	09-038	6.33	100 3-	REC-50-4H	1093	1004	692	147	375	17	12	0.00	6.77	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
D809	04-021	4.08	317 3-	REC-70-L	1910	1743	1237	162	1712	79	114	0.00	5.42	0
09-007	D809	5.31	317 3-	2CU	1503	1348	953	156	1712	79	36	1.34	6.76	2962
04-998	09-007	5.31	1 1-	Consumer	0	0	953	156	58	8	0	0.00	6.76	0
09-046	09-007	5.97	261 3-	2CU	1343	1211	849	153	1347	64	29	0.62	7.38	1086
09-998	09-046	5.97	1 3-	Consumer	1343	1211	849	153	47	2	0	0.00	7.38	0
09-006	09-046	7.49	109 3-	2CU	1073	977	677	147	555	26	12	0.44	7.82	270
09-052	09-006	7.65	14 3-	2CU	1051	957	663	146	115	5	3	0.01	7.83	2
09-049	09-052	7.93	13 3-	3/OACSR	1021	930	643	145	105	5	2	0.01	7.84	0
D815	09-006	7.49	31 1-	REC-50-H	0	0	677	147	120	17	35	0.00	7.82	0
09-003	D815	8.06	31 1-	6CU	0	0	595	142	120	17	14	0.35	8.17	49
09-002	09-003	8.62	16 1-	4ACSR	0	0	529	138	63	9	7	0.18	8.35	13
09-001	09-002	9.75	9 1-	4ACSR	0	0	432	129	32	4	3	0.12	8.47	4
D814	09-046	5.97	130 3-	REC-50-H	1343	1211	849	153	585	27	19	0.00	7.38	0
04-019	D814	8.15	130 3-	1/OACSR	966	882	598	143	585	27	12	0.83	8.21	585
04-016	04-019	9.38	7 1-	4ACSR	0	0	471	134	22	3	2	0.09	8.30	2
04-018	04-019	9.71	27 1-	4ACSR	0	0	445	131	141	20	15	0.75	8.96	98
04-015	04-019	9.28	55 1-	4ACSR	0	0	480	134	238	34	25	1.49	9.70	432
04-014	04-015	11.12	38 1-	4ACSR	0	0	359	122	150	21	16	0.96	10.65	134
C209	09-007	5.31	0 3-	Cap (150)	1503	1348	953	156	0	-6	0	0.00	6.76	0
D808	09-011	3.81	44 1-	REC-35-L	0	0	1236	163	211	29	85	0.00	5.13	0
04-023	D808	7.00	44 1-	4ACSR	0	0	515	135	211	29	21	2.23	7.36	423
D843	09-010	1.83	7 1-	REC-35-L	0	0	2194	170	63	8	25	0.00	2.64	0
09-009	D843	2.94	7 1-	4ACSR	0	0	1188	158	63	8	6	0.23	2.86	13
D807	09-014	0.78	73 1-	REC-70-L	0	0	3396	173	302	41	59	0.00	1.21	0
09-018	D807	4.49	73 1-	4ACSR	0	0	599	138	302	41	29	5.62	6.83	1888
09-005	09-018	5.66	10 1-	4ACSR	0	0	471	130	42	5	4	0.16	6.99	6
D836	09-018	4.49	28 1-	REC-25-H	0	0	599	138	120	17	68	0.00	6.83	0
09-008	D836	7.06	28 1-	4ACSR	0	0	375	121	120	17	12	1.03	7.86	113
D801	09-045	0.18	81 1-	REC-70-L	0	0	4837	175	301	40	58	0.00	0.30	0
09-013	D801	2.31	81 1-	4ACSR	0	0	1037	153	301	40	29	3.17	3.47	1051
09-012	09-013	3.53	5 1-	4ACSR	0	0	696	143	20	2	2	0.08	3.55	0
04-024	09-013	4.06	37 1-	4ACSR	0	0	608	138	142	19	14	0.81	4.28	102
CKT 3 total losses: \$39,629														
SUB 8 total losses: \$74,810														

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
D525	08-126	7.47	79 1-	REC-50-L	0	0	624	144	288	41	82	0.00	6.29	0
15-003	D525	8.31	79 1-	4ACSR	0	0	522	137	288	41	29	1.48	7.77	541
15-004	15-003	8.80	35 1-	4ACSR	0	0	476	133	141	20	15	0.37	8.14	61
15-005	15-004	10.63	20 1-	4ACSR	0	0	357	121	76	11	8	0.48	8.62	34
15-002	15-003	10.37	31 1-	4ACSR	0	0	371	123	88	12	9	0.63	8.40	50
D522	15-059	4.92	93 3-	REC-50-L	1821	0	1116	161	1414	66	133	0.00	4.97	0
08-082	D522	5.85	93 3-	4ACSR	1302	0	822	152	1414	66	48	2.25	7.22	4312
08-082	08-082	5.85	1 3-	Consumer	1302	0	822	152	272	13	0	0.00	7.22	0
08-082	08-082	5.85	1 3-	Consumer	1302	0	822	152	6	0	0	0.00	7.22	0
08-082	08-082	5.85	1 3-	Consumer	1302	0	822	152	574	27	0	0.00	7.22	0
08-081	08-082	7.18	74 3-	1/0ACSR	1054	0	658	146	401	19	8	0.21	7.43	75
C191	15-192	4.01	0 3-	Cap (150)	2154	0	1979	164	0	-7	0	0.00	3.94	0
15-129	15-005	4.28	16 3-	4ACSR	1662	0	1078	158	83	3	3	0.05	3.71	4
15-180	15-060	3.78	14 3-	4ACSR	1789	0	1183	160	117	5	4	0.09	3.46	12
15-006	15-180	4.23	1 3-	2URD	1530	0	1041	342	42	1	1	0.03	3.49	0
15-991	15-006	4.23	1 3-	Consumer	1530	0	1041	342	42	1	0	0.00	3.49	0
D520	15-019	1.53	58 1-	REC-50-L	0	0	2422	171	245	33	68	0.00	2.20	0
15-021	D520	2.85	58 1-	4ACSR	0	0	1145	157	245	33	24	1.59	3.78	421
15-062	15-021	3.77	23 1-	4ACSR	0	0	821	148	117	16	12	0.54	4.32	71
15-026	15-062	4.65	9 1-	4ACSR	0	0	643	141	61	8	6	0.18	4.50	10
15-258	15-062	3.90	0 1-	4ACSR	0	0	788	147	0	0	0	0.00	4.32	0
15-989	15-019	1.53	1 3-	Consumer	3081	0	2422	171	357	16	0	0.00	2.20	0
15-076	15-254	1.13	14 1-	4ACSR	0	0	2541	170	153	21	15	0.16	1.77	28
119774	15-076	1.54	11 1-	1/0URD	0	0	2016	407	100	13	6	0.18	1.94	22
15-255	119774	1.79	11 1-	4ACSR	0	0	1712	165	100	13	10	0.08	2.03	7
CKT 2 total losses: \$26,291														
SUB	9, CKT 3													
50-3	COBURG(50)	0.00	674 3-	BRR-560-VWVE	4505	0	5028	176	3628	165	0	0.00	0.00	0
15-013	50-3	0.65	674 3-	3/0ACSR	3625	0	3344	173	3628	165	55	1.17	1.17	4978
15-996	15-013	0.65	0 3-	Consumer	3625	0	3344	173	0	0	0	0.00	1.17	0
15-012	15-013	1.33	657 3-	3/0ACSR	2975	0	2435	170	3427	157	52	1.15	2.32	4687
15-997	15-012	1.33	1 1-	Consumer	0	0	2435	170	31	4	0	0.00	2.32	0
15-038	15-012	3.48	566 3-	3/0ACSR	1850	0	1282	162	3003	139	46	3.06	5.38	10671
15-040	15-038	4.22	211 3-	3/0ACSR	1632	0	1101	159	1237	58	20	0.45	5.83	667
D532	15-040	4.22	162 3-	REC-70-L	1632	0	1101	159	955	45	65	0.00	5.83	0
15-042	D532	5.80	162 3-	3/0ACSR	1301	0	844	154	955	45	15	0.70	6.53	787
15-132	15-042	6.36	9 3-	3/0ACSR	1214	0	780	152	56	2	1	0.01	6.54	0
15-041	15-042	8.10	137 3-	1/0ACSR	934	0	588	143	711	33	15	1.12	7.65	964
16-014	15-041	8.54	85 3-	1/0ACSR	885	0	555	141	415	20	9	0.13	7.77	64
D557	16-014	8.54	43 1-	REC-50-H	0	0	555	141	190	27	55	0.00	7.77	0
16-015	D557	10.34	43 1-	6CU	0	0	408	128	190	27	23	1.16	8.93	201
16-013	16-014	9.28	25 1-	4ACSR	0	0	483	136	116	16	12	0.30	8.07	31
D559	15-041	8.10	23 1-	REC-25-4H	0	0	588	143	114	16	66	0.00	7.65	0
16-029	D559	9.54	23 1-	4ACSR	0	0	448	132	114	16	12	0.57	8.22	59
D550	15-040	4.22	39 1-	REC-25-L	0	0	1101	159	161	23	92	0.00	5.83	0
15-043	D550	5.51	39 1-	4ACSR	0	0	728	147	161	23	16	0.71	6.54	103
D531	15-038	3.48	304 3-	REC-70-L	1850	0	1282	162	1336	63	90	0.00	5.38	0
15-039	D531	4.60	304 3-	1/0ACSR	1464	0	972	156	1336	63	28	1.06	6.44	1753
15-009	15-039	5.90	217 3-	4ACSR	977	0	667	145	944	45	32	1.70	8.14	1903
15-993	15-009	5.90	1 1-	Consumer	0	0	667	145	11	1	0	0.00	8.14	0
16-037	15-009	6.09	109 3-	4ACSR	929	0	637	143	466	22	16	0.16	8.30	109

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX 1LG FAULT	MX LG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 10 GREENRIVER(70)		1088			5616	5837	5893	176	7992						
SUB 10, CKT 1															
70-1 GREENRIVER(70)		0.00	646 3-	BKR-560-VWVE	5616	5837	5893	176	2290	103	0	0	0.00	0.00	0
08-055	70-1	0.14	646 3-	3/OACSR	5316	5389	5301	176	2290	103	34	0	0.15	0.15	412
08-053	08-055	1.19	4 3-	3/OACSR	3621	3455	2817	171	81	3	1	0	0.04	0.19	3
08-903	08-053	1.19	1 3-	Consumer	3621	3455	2817	171	55	2	0	0	0.00	0.19	0
08-098	08-055	0.36	628 3-	397ACSR	5034	4766	4766	175	2185	98	17	0	0.10	0.25	251
08-058	08-058	0.60	503 3-	3/OACSR	4587	4540	4051	174	1955	88	29	0	0.21	0.47	495
08-977	08-058	0.60	1 3-	Consumer	4587	4540	4051	174	4	0	0	0	0.00	0.47	0
08-120	08-058	0.90	417 3-	3/OACSR	4108	3991	3387	173	1771	82	28	0	0.28	0.75	578
08-978	08-120	0.90	1 3-	Consumer	4108	3991	3387	173	9	0	0	0	0.00	0.75	0
08-059	08-120	1.06	208 3-	3/OACSR	3892	3751	3119	172	1079	50	17	0	0.09	0.84	112
08-057	08-059	1.54	91 3-	4ACSR	2814	2606	2101	167	271	12	9	0	0.16	1.00	50
08-976	08-057	1.54	1 1-	Consumer	0	0	2101	167	106	14	0	0	0.00	1.00	0
08-974	08-057	1.54	1 1-	Consumer	0	0	2101	167	5	0	0	0	0.00	1.00	0
08-060	08-059	1.57	114 3-	3/OACSR	3302	3115	2463	170	797	37	12	0	0.19	1.03	164
08-975	08-060	1.57	1 3-	Consumer	3302	3115	2463	170	38	1	0	0	0.00	1.03	0
08-979	08-060	1.57	1 3-	Consumer	3302	3115	2463	170	59	2	0	0	0.00	1.03	0
08-157	08-060	1.64	27 3-	4ACSR	3177	2972	2347	170	384	18	13	0	0.04	1.07	20
08-939	08-157	1.64	1 3-	Consumer	3177	2972	2347	170	282	13	0	0	0.00	1.07	0
08-004	08-157	2.61	9 1-	4ACSR	0	0	1303	159	32	4	3	0	0.11	1.18	3
D702	08-060	1.57	42 1-	REC-50-L	0	0	2463	170	120	16	34	0	0.00	1.03	0
08-063	D702	3.84	42 1-	4ACSR	0	0	809	148	120	16	12	0	0.94	1.97	98
08-061	08-120	1.06	188 3-	3/OACSR	3887	3745	3113	172	625	29	10	0	0.05	0.80	36
08-980	08-061	1.06	1 3-	Consumer	3887	3745	3113	172	13	0	0	0	0.00	0.80	0
08-091	08-061	1.87	172 3-	3/OACSR	3026	2828	2190	169	550	25	9	0	0.12	0.92	51
C181	08-058	0.60	0 3-	Cap (300)	4587	4540	4051	174	0	-14	0	0	0.00	0.47	0
08-144	08-098	0.83	117 3-	3/OACSR	4219	4117	3533	173	182	8	3	0	0.02	0.28	3
CKT 1 total losses:		\$2,276													
SUB 10, CKT 2															
70-2 GREENRIVER(70)		0.00	82 3-	BKR-560-VWVE	5616	5837	5893	176	2253	104	0	0	0.00	0.00	0
08-054	70-2	0.23	82 3-	4/OACSR	5154	5205	4972	175	2253	104	31	0	0.23	0.23	583
08-160	08-054	0.33	80 3-	336ACSR	5026	5051	4696	175	2241	104	20	0	0.06	0.30	153
08-946	08-160	0.33	1 3-	Consumer	5026	5051	4696	175	449	20	0	0	0.00	0.30	0
08-013	08-160	0.58	41 3-	3/OACSR	4582	4531	4000	174	825	38	13	0	0.10	0.40	96
08-968	08-013	0.58	1 3-	Consumer	4582	4531	4000	174	50	2	0	0	0.00	0.40	0
08-174	08-013	0.58	32 3-	4/OURD	4578	4527	3995	452	715	33	10	0	0.00	0.40	0
08-176	08-174	0.62	32 3-	3/OACSR	4515	4455	3905	174	715	33	11	0	0.01	0.41	11
08-967	08-176	0.62	1 3-	Consumer	4515	4455	3905	174	161	7	0	0	0.00	0.41	0
08-948	08-176	0.62	1 3-	Consumer	4515	4455	3905	174	5	0	0	0	0.00	0.41	0
08-175	08-176	0.65	25 3-	3/OACSR	4460	4391	3827	174	501	23	8	0	0.01	0.42	5
08-011	08-175	0.86	13 3-	3/OACSR	4128	4012	3383	173	197	9	3	0	0.02	0.44	3
08-949	08-011	0.86	1 3-	Consumer	4128	4012	3383	173	109	5	0	0	0.00	0.44	0
08-012	08-175	0.78	11 3-	3/OACSR	4258	4159	3551	173	289	13	4	0	0.02	0.44	6
08-966	08-012	0.78	1 3-	Consumer	4258	4159	3551	173	41	1	0	0	0.00	0.44	0
08-159	08-012	0.78	8 3-	4/OURD	4246	4149	3539	446	223	10	3	0	0.00	0.44	0
08-961	08-159	0.78	1 3-	Consumer	4246	4149	3539	446	41	1	0	0	0.00	0.44	0
08-953	08-159	0.78	1 3-	Consumer	4246	4149	3539	446	42	1	0	0	0.00	0.44	0
08-940	08-159	0.78	1 1-	Consumer	0	0	3539	446	84	11	0	0	0.00	0.44	0
08-015	08-160	0.42	38 3-	336ACSR	4923	4926	4485	175	967	45	9	0	0.02	0.32	19
08-962	08-015	0.42	1 1-	Consumer	0	0	4485	175	364	50	0	0	0.00	0.32	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 10, CKT 4														
70-4	GREENRIVER(70)	0.00	0 3-	BKR-560-VWVE	5616	5837	5893	176	0	0	0	0.00	0.00	0
CKT 4 total losses:		\$0												
SUB 10 total losses:		\$10,693												

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
26-004	26-003	9.71	46 1-	4ACSR	0	0	445	131	179	26	19	1.39	12.90	324
D1020	26-004	9.71	36 1-	REC-25-H	0	0	445	131	134	20	82	0.00	12.90	0
26-001	D1020	12.91	36 1-	4ACSR	0	0	288	112	134	20	15	1.56	14.47	200
D1018	REG53	6.33	31 1-	REC-25-4H	0	0	867	155	144	20	84	0.00	7.98	0
27-004	D1018	8.43	31 1-	4ACSR	0	0	523	137	144	20	15	1.69	9.66	288
27-016	27-004	9.96	13 1-	4ACSR	0	0	402	126	85	12	9	0.46	10.12	36
27-025	27-016	5.74	63 3-	4ACSR	1515	1362	931	157	254	12	9	0.04	7.39	14
27-999	27-025	5.74	0 1-	Consumer	0	0	931	157	0	0	0	0.00	7.39	0
D1017	27-025	5.74	62 1-	REC-50-L	0	0	931	157	232	33	67	0.00	7.39	0
21-031	D1017	7.61	62 1-	4ACSR	0	0	572	140	232	33	24	2.33	9.73	629
21-032	21-031	9.76	35 1-	4ACSR	0	0	390	125	125	18	13	0.95	10.68	111
C195	22-078	4.73	0 3-	Cap (300)	1776	1612	1115	160	0	-13	0	0.00	6.35	0
D1016	22-086	4.51	47 1-	REC-35-L	0	0	1161	161	189	27	78	0.00	6.13	0
27-005	D1016	7.77	47 1-	4ACSR	0	0	486	133	189	27	19	2.11	8.24	360
D1014	22-087	4.40	8 1-	REC-35-H	0	0	1186	162	58	8	24	0.00	6.00	0
22-084	D1014	5.30	8 1-	6CU	0	0	871	153	58	8	7	0.21	6.21	12
22-085	22-084	5.96	2 1-	4ACSR	0	0	718	147	12	1	1	0.03	6.24	0
D1013	22-060	4.08	5 1-	REC-35-L	0	0	1264	163	53	7	22	0.00	5.63	0
22-088	D1013	5.24	5 1-	4ACSR	0	0	833	151	53	7	5	0.21	5.84	10
D1012	22-090	2.77	13 1-	REC-50-L	0	0	1718	167	62	8	18	0.00	4.04	0
22-089	D1012	3.53	13 1-	4ACSR	0	0	1187	159	62	8	6	0.16	4.20	9
22-081	22-057	2.29	3 3-	4ACSR	2707	2518	1920	168	213	9	7	0.03	3.32	10
22-973	22-081	2.29	1 3-	Consumer	2707	2518	1920	168	18	0	0	0.00	3.32	0
22-974	22-081	2.29	1 1-	Consumer	0	0	1920	168	150	20	0	0.00	3.32	0
D1011	22-039	2.13	95 1-	REC-50-L	0	0	2077	169	45	6	0	0.00	3.32	0
22-038	D1011	2.64	95 1-	4ACSR	0	0	1536	164	389	54	109	0.00	3.19	0
22-036	22-038	4.67	88 1-	4ACSR	0	0	712	145	389	54	39	1.21	4.40	580
22-035	22-036	5.74	24 1-	4ACSR	0	0	550	136	124	17	13	0.46	7.87	52
22-096	22-073	0.21	25 3-	336ACSR	4871	4973	4904	175	165	7	1	0.01	0.02	0
22-040	22-096	1.67	23 3-	4ACSR	1815	1767	1420	160	151	6	5	0.19	0.21	26

CKT 2 total losses: \$48,084

SUB 11, CKT 3	WCOLUMBIA(100)	0.00	988 3-	BKR-560-VWVE	5125	5480	5544	176	5617	253	0	0.00	0.00	0
15-158	100-3	1.21	988 3-	336ACSR	3886	3772	3040	173	5617	253	48	1.63	1.63	10199
22-024	15-158	2.23	919 3-	336ACSR	3197	3010	2166	170	5033	229	43	1.28	2.91	7481
D1039	22-024	2.23	41 1-	REC-50-L	0	0	2166	170	199	27	56	0.00	2.91	0
22-037	D1039	4.33	41 1-	4ACSR	0	0	826	149	199	27	20	1.39	4.30	243
D1040	22-024	2.23	458 3-	REC-100-L	3197	3010	2166	170	2292	104	105	0.00	2.91	0
22-075	D1040	2.64	458 3-	336ACSR	2982	2785	1941	169	2292	104	20	0.21	3.12	610
22-032	22-075	3.66	444 3-	336ACSR	2546	2344	1537	166	2184	99	19	0.50	3.63	1378
22-034	22-032	3.84	369 3-	4ACSR	2345	2128	1414	164	1762	80	58	0.53	4.15	1274
22-091	22-034	4.98	365 3-	4ACSR	1412	1315	902	153	1714	80	58	3.35	7.50	7736
REG52	22-091	4.98	338 3-	150	1412	1315	902	153	1499	72	48	0.00	7.50	0
21-026	REG52	5.99	319 3-	4ACSR	1005	959	672	144	1429	69	49	2.57	10.07	5114
21-036	21-026	6.10	220 3-	4ACSR	974	932	654	143	999	49	35	0.20	10.28	298
D1029	21-036	6.10	36 1-	REC-25-L	0	0	654	143	149	22	89	0.00	10.28	0
21-027	D1029	6.80	36 1-	4ACSR	0	0	557	138	149	22	16	0.67	10.94	130
21-029	21-027	9.09	18 1-	4ACSR	0	0	374	122	76	11	8	0.62	11.56	44
21-028	21-027	8.32	12 1-	4ACSR	0	0	421	127	43	6	5	0.23	11.18	9
D1031	21-028	6.10	181 3-	REC-70-L	974	932	654	143	842	41	60	0.00	10.28	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
22-030	D1035	5.84	12 1-	4ACSR	0	0	735	147	91	12	9	0.56	4.39	45
22-026	22-025	3.78	12 1-	4ACSR	0	0	1365	163	67	9	7	0.08	3.72	5
CKT 3 total losses: \$49,017														
SUB 11, CKT 4	WCOLUMBIA(100)	0.00	86 3-	BKR-560-VWVE	5125	5480	5544	176	2273	103	0	0.00	0.00	0
100-4	100-4	0.38	86 3-	336ACSR	4675	4732	4453	175	2273	103	19	0.22	0.22	569
22-072	22-072	0.87	66 3-	336ACSR	4178	4116	3500	174	2145	97	18	0.27	0.49	630
22-065	22-065	2.24	57 3-	1/0ACSR	2537	2311	1737	166	454	20	9	0.27	0.76	109
22-023	22-023	2.24	1 1-	Consumer	0	0	1737	166	39	5	0	0.00	0.76	0
22-987	22-023	2.24	1 3-	Consumer	2537	2311	1737	166	27	1	0	0.00	0.76	0
22-995	22-023	2.24	1 3-	Consumer	4178	4116	3500	174	1544	70	0	0.00	0.49	0
22-972	22-065	0.87	1 3-	Consumer	0	0	3312	172	113	15	11	0.16	0.38	20
22-059	22-072	0.66	19 1-	4ACSR	0	0	3312	172	113	15	11	0.16	0.38	20
22-042	22-059	1.87	10 1-	4ACSR	0	0	1354	159	64	8	6	0.25	0.64	14
CKT 4 total losses: \$1,342														
SUB 11 total losses:		\$98,443												

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-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 2														
110-2	CRESTON(110)	0.00	349 3-	BKR-560-VWVE	4969	5357	5405	176	2028	90	0	0.00	0.00	0
10-051	110-2	0.85	349 3-	336ACSR	4091	4035	3480	174	2028	90	17	0.35	0.35	898
10-045	10-051	1.82	321 3-	4ACSR	2170	2058	1627	163	1836	81	58	2.77	3.12	6564
10-136	10-045	1.93	267 3-	1/OACSR	2103	1992	1564	162	1456	66	29	0.10	3.22	206
10-989	10-136	1.93	0 1-	Consumer	0	0	1564	162	0	0	0	0.00	3.22	0
14-079	10-136	2.68	47 3-	2CU	1749	1654	1267	159	360	16	8	0.17	3.39	70
10-103	14-079	2.68	36 3-	REC-70-L	1749	1654	1267	159	248	11	16	0.00	3.39	0
17-034	D1109	3.64	36 3-	2CU	1439	1360	1020	154	248	11	5	0.13	3.52	36
15-197	10-103	4.76	14 3-	336ACSR	1318	1234	886	152	75	3	1	0.01	3.53	0
D1108	10-103	5.50	8 3-	4/OACSR	1170	1093	781	149	58	2	1	0.02	3.54	0
10-137	10-136	1.93	202 3-	REC-50-L	2103	1992	1564	162	1013	46	93	0.00	3.22	0
17-006	D1108	2.28	202 3-	1/OACSR	1912	1809	1391	161	1013	46	20	0.20	3.43	303
17-013	10-137	3.90	70 1-	4ACSR	0	0	751	146	332	46	33	2.78	6.21	1045
17-005	17-006	5.95	39 1-	4ACSR	0	0	470	130	183	26	19	1.28	7.49	211
D1122	10-137	3.44	115 3-	1/OACSR	1468	1386	1018	155	543	25	11	0.39	3.82	243
17-005	10-044	4.64	74 1-	4ACSR	0	0	696	144	352	49	35	2.11	5.93	820
D1122	17-005	6.03	13 1-	4ACSR	0	0	507	133	62	8	6	0.29	6.22	16
C204	17-005	4.64	24 1-	REC-35-L	0	0	696	144	108	15	44	0.00	5.93	0
D1121	D1122	5.54	24 1-	4ACSR	0	0	561	137	108	15	11	0.33	6.26	32
D1121	10-137	2.28	0 3-	Cap (300)	1912	1809	1391	161	0	-14	0	0.00	3.43	0
D1121	10-045	1.82	14 1-	REC-50-L	0	0	1627	163	71	9	20	0.00	3.12	0
D1121	D1121	3.72	14 1-	4ACSR	0	0	748	145	71	9	7	0.45	3.57	28
CKT 2 total losses:		\$10,472												

SUB 12, CKT 3														
110-3	CRESTON(110)	0.00	957 3-	BKR-560-VWVE	4969	5357	5405	176	5749	257	0	0.00	0.00	0
10-053	110-3	0.20	957 3-	336ACSR	4740	4835	4818	175	5749	257	48	0.26	0.26	1796
10-992	10-053	0.20	1 1-	Consumer	0	0	4818	175	30	4	0	0.00	0.26	0
17-029	10-053	1.84	92 1-	6CU	0	0	1307	158	433	58	49	3.35	3.61	1554
D1110	17-029	1.84	47 1-	REC-50-L	0	0	1307	158	205	28	57	0.00	3.61	0
17-003	D1110	5.03	47 1-	4ACSR	0	0	499	132	205	28	21	2.17	5.79	394
10-047	10-053	1.35	856 3-	336ACSR	3684	3556	2840	172	5170	231	44	1.34	1.60	8344
10-031	10-047	3.22	284 3-	336ACSR	2671	2473	1676	167	2005	90	17	0.76	2.36	1943
10-994	10-031	3.22	0 1-	Consumer	0	0	1676	167	0	0	0	0.00	2.36	0
10-993	10-031	3.22	0 3-	Consumer	2671	2473	1676	167	0	0	0	0.00	2.36	0
10-055	10-031	3.45	39 3-	4ACSR	2386	2165	1490	165	458	21	15	0.19	2.54	117
10-033	10-055	3.60	20 3-	4ACSR	2213	1988	1386	163	375	17	12	0.10	2.64	51
D1118	10-033	3.60	20 3-	REC-35-L	2213	1988	1386	163	375	17	49	0.00	2.64	0
10-129	D1118	5.37	20 3-	4ACSR	1080	1031	731	146	375	17	12	1.14	3.78	574
10-130	10-129	5.81	14 1-	4ACSR	0	0	653	143	348	48	35	0.88	4.66	370
10-998	10-130	5.81	1 1-	Consumer	0	0	653	143	256	36	0	0.00	4.66	0
D1112	10-055	3.45	18 1-	REC-35-L	0	0	1490	165	82	11	32	0.00	2.54	0
10-032	D1112	5.24	18 1-	4ACSR	0	0	759	147	82	11	8	0.48	3.03	35
10-028	10-031	3.65	221 3-	336ACSR	2509	2310	1530	166	1306	59	11	0.10	2.46	192
10-995	10-028	3.65	1 1-	Consumer	0	0	1530	166	25	3	0	0.00	2.46	0
10-127	10-028	3.82	190 3-	336ACSR	2450	2252	1479	165	1125	51	10	0.04	2.49	61
10-996	10-127	3.82	1 3-	Consumer	2450	2252	1479	165	40	1	0	0.00	2.49	0
10-997	10-127	3.82	1 3-	Consumer	2450	2252	1479	165	49	2	0	0.00	2.49	0
10-120	10-127	3.96	131 3-	336ACSR	2401	2203	1437	165	772	35	7	0.02	2.51	26
10-026	10-120	4.26	3 3-	336ACSR	2308	2113	1361	164	41	1	0	0.00	2.51	0
D1123	10-120	3.96	126 3-	REC-50-L	2401	2203	1437	165	723	33	67	0.00	2.51	0

KENTUCKY 23 TAYLOR - CAMPBELLSVILLE, KENTUCKY  
 EXISTING SYSTEM WITH WINTER 2013/14 LOADS

Client: TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION  
 Project: APPENDIX 2 - 2011-2013 CONSTRUCTION WORK PLAN  
 Engineer: Peterson & 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 LOSS
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SUB 12 total losses: \$84,592													

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 Substation Power Factor: 1.00      Load Factor: 0.45      Loss Factor: 0.24      Cost: 0.0800 per kWh  
 Run Date:      Page 45



LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-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 1 total losses:	\$36,908													
SUB 13, CKT 2	ECAMPBELLS(120)	0.00	335 3-	BKR-560-VWVE	5493	5723	5784	176	1733	78	0	0.00	0.00	0
120-2	120-2	0.02	335 3-	500MCM	5467	5678	5757	467	1733	78	17	0.01	0.01	20
08-117	119035	0.24	335 3-	477ACSR	5190	5271	5168	176	1733	78	12	0.08	0.09	136
08-036	08-117	0.47	335 3-	3/0ACSR	4750	4764	4392	175	1732	78	26	0.20	0.29	414
08-035	08-036	0.64	8 3-	336ACSR	4567	4539	4034	174	49	2	0	0.00	0.29	0
08-034	08-036	1.35	327 3-	1/0CU	3609	3453	2779	171	1680	76	25	0.63	0.92	1193
08-033	08-034	2.07	246 3-	1/0CU	2969	2773	2108	168	1283	58	19	0.39	1.31	561
08-107	08-033	2.22	198 3-	1/0CU	2859	2660	2005	168	953	43	14	0.07	1.38	81
08-029	08-107	3.85	36 3-	3/0ACSR	1973	1788	1282	162	222	10	3	0.10	1.48	18
08-004	08-029	4.46	4 3-	3/0ACSR	1764	1589	1127	159	18	0	0	0.00	1.48	0
08-030	08-107	2.69	159 3-	3/0ACSR	2533	2333	1724	166	717	33	11	0.17	1.55	140
08-031	08-030	3.35	156 3-	3/0ACSR	2182	1989	1442	164	681	31	10	0.21	1.76	164
D1216	08-031	3.35	143 3-	REC-70-L	2182	1989	1442	164	589	27	39	0.00	1.76	0
09-021	D1216	5.15	143 3-	3/0ACSR	1573	1410	992	157	589	27	9	0.44	2.20	269
09-020	09-021	5.40	61 3-	3/0ACSR	1514	1358	951	156	220	10	3	0.01	2.21	2
09-999	09-020	5.40	0 1-	Consumer	0	0	0	0	0	0	0	0.00	2.21	0
D1217	09-021	5.15	40 1-	REC-50-H	0	0	992	157	144	20	40	0.00	2.20	0
09-022	D1217	6.56	40 1-	4ACSR	0	0	658	144	144	20	14	1.05	3.25	169
09-023	09-022	7.57	13 1-	4ACSR	0	0	527	136	79	11	8	0.27	3.52	19
CKT 2 total losses:	\$3,186													
SUB 13, CKT 3	ECAMPBELLS(120)	0.00	460 3-	BKR-560-VWVE	5493	5723	5784	176	2390	106	0	0.00	0.00	0
08-142	120-3	0.22	460 3-	4/0ACSR	5082	5147	4953	175	2390	106	31	0.19	0.19	551
08-917	08-142	0.22	1 3-	Consumer	5082	5147	4953	175	0	0	0	0.00	0.19	0
14-072	08-142	0.42	455 3-	336ACSR	4833	4845	4423	175	2348	104	20	0.11	0.29	303
08-038	14-072	0.83	34 1-	4ACSR	0	0	2863	170	95	13	9	0.13	0.42	11
08-039	14-072	0.88	383 3-	3/0ACSR	4082	3973	3343	173	2145	95	32	0.43	0.73	1167
14-071	08-039	0.91	18 3-	3/0ACSR	4042	3927	3292	173	66	3	1	0.00	0.73	0
08-043	08-039	1.52	335 3-	3/0ACSR	3323	3143	2475	170	1968	88	29	0.53	1.25	1318
08-045	08-043	2.80	264 3-	1/0ACSR	2196	1980	1464	164	1638	73	32	1.28	2.53	2672
08-138	08-045	2.84	185 3-	1/0ACSR	2169	1957	1443	163	1336	61	27	0.04	2.57	73
08-158	08-138	2.90	155 3-	1/0ACSR	2134	1926	1416	163	1238	57	25	0.06	2.63	88
08-078	08-158	3.33	113 3-	2ACSR	1841	1681	1218	160	703	32	18	0.33	2.96	294
08-918	08-078	3.33	1 1-	Consumer	0	0	1218	160	5	0	0	0.00	2.96	0
08-152	08-078	3.77	4 3-	4ACSR	1523	1417	1022	156	28	1	1	0.01	2.97	0
08-124	08-078	3.42	56 3-	2ACSR	1790	1638	1185	159	263	12	7	0.03	2.98	9
08-162	08-124	4.07	19 3-	2ACSR	1475	1366	979	155	88	4	2	0.03	3.02	3
08-919	08-162	4.07	0 1-	Consumer	0	0	979	155	0	0	0	0.00	3.02	0
D1230	08-124	3.42	37 1-	REC-35-4H	0	0	1185	159	174	24	70	0.00	2.98	0
08-163	D1230	3.85	37 1-	6CU	0	0	1004	155	174	24	20	0.45	3.43	97
08-170	08-163	4.58	31 1-	4ACSR	0	0	788	148	144	20	14	0.35	3.79	45
08-161	08-078	3.49	25 3-	6CU	1719	1581	1142	158	314	14	12	0.08	3.04	36
08-133	08-161	4.64	23 3-	4ACSR	1113	1061	768	148	295	13	10	0.52	3.56	194

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-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	GARLIN		1674		5006	5364	5418	176	11925					
SUB 15, CKT 1														
15-1	GARLIN	0.00	137	3-__DefaultBayEqui	5006	5364	5418	176	1034	47	0	0.00	0.00	0
15-1	15-1	1.21	137	3-3/0ACSR	3322	3190	2671	171	1034	47	16	0.53	0.53	569
22-074	22-101	1.30	108	2-4ACSR	0	2974	2479	170	688	47	34	0.19	0.71	165
D611	22-074	1.30	31	1-REC-50-L	0	0	2479	170	251	34	69	0.00	0.71	0
22-102	D611	1.87	31	1-4ACSR	0	0	1670	164	251	34	25	0.48	1.19	103
D610	22-074	1.30	74	1-REC-50-L	0	0	2479	170	395	54	109	0.00	0.71	0
22-103	D610	1.85	74	1-4ACSR	0	0	1695	164	395	54	39	0.72	1.43	244
CKT 1	total losses:	\$1.081												
SUB 15, CKT 2														
15-2	GARLIN	0.00	1	3-__DefaultBayEqui	5006	5364	5418	176	5	0	0	0.00	0.00	0
22-107	15-2	0.14	1	3-336ACSR	4836	4941	4977	176	5	0	0	0.00	0.00	0
22-067	22-107	0.18	1	3-336ACSR	4791	4889	4867	175	5	0	0	0.00	0.00	0
23-054	22-067	1.67	0	3-397ACSR	3537	3419	2816	172	0	0	0	0.00	0.00	0
CKT 2	total losses:	\$0												
SUB 15, CKT 3														
15-3	GARLIN	0.00	708	3-__DefaultBayEqui	5006	5364	5418	176	4892	222	0	0.00	0.00	0
22-108	15-3	0.36	708	3-336ACSR	4596	4652	4416	175	4892	222	42	0.46	0.46	2501
D601	22-108	0.36	707	3-ER3-WVE	4596	4652	4416	175	4862	221	0	0.00	0.46	0
22-012	D601	1.48	699	3-336ACSR	3617	3477	2719	172	4789	218	41	1.36	1.82	7252
23-052	22-012	1.66	612	3-1/0ACSR	3392	3222	2474	171	4130	189	83	0.54	2.36	2854
23-045	23-052	3.68	608	3-336ACSR	2448	2246	1489	165	4063	187	35	2.10	4.46	9847
R112	23-045	3.68	602	3-219	2448	2246	1489	165	3905	182	83	0.00	4.46	0
23-047	R112	4.19	29	3-1/0ACSR	2134	1933	1278	163	203	9	4	0.04	4.50	7
16-036	R112	3.83	573	3-1/0ACSR	2350	2147	1421	165	3702	173	75	0.41	4.87	1956
16-990	16-036	3.83	1	1-Consumer	0	0	1421	165	3	0	0	0.00	4.87	0
16-027	16-036	4.92	507	3-1/0ACSR	1788	1598	1059	159	3251	152	66	2.58	7.45	10791
16-038	16-027	5.37	466	3-1/0ACSR	1622	1450	958	157	2962	144	63	1.04	8.48	3981
16-025	16-038	5.54	411	3-1/0ACSR	1568	1404	925	156	2546	124	54	0.34	8.82	1151
16-024	16-025	6.57	356	3-1/0ACSR	1293	1169	761	151	2172	106	46	1.68	10.50	4611
16-993	16-024	6.57	0	1-Consumer	0	0	761	151	0	0	0	0.00	10.50	0
16-023	16-024	7.21	89	2-1/0ACSR	0	1053	686	148	498	37	16	0.44	10.94	266
D608	16-023	7.21	75	1-REC-50-4H	0	0	686	148	382	57	115	0.00	10.94	0
16-019	D608	9.94	35	1-6CU	0	0	408	127	182	27	23	2.58	13.52	545
16-017	16-018	11.42	12	1-4ACSR	0	0	332	118	83	12	9	0.45	13.97	36
D607	D608	9.18	40	1-4ACSR	0	0	459	132	200	29	21	1.42	12.35	266
16-031	16-024	6.57	216	3-REC-70-L	1293	1169	761	151	1276	63	91	0.00	10.50	0
16-022	D607	7.88	216	3-1/0ACSR	1055	961	621	145	1276	63	28	1.19	11.68	1871
15-065	16-022	9.51	157	3-Consumer	1055	961	621	145	46	2	0	0.00	11.68	0
D690	15-065	9.90	49	1-4ACSR	856	785	505	138	862	43	19	0.97	12.65	1025
16-020	D690	10.43	34	1-REC-50-4H	0	0	471	135	341	51	37	0.80	13.46	346
17-024	16-020	11.26	30	1-4ACSR	0	0	432	131	218	33	24	0.76	14.22	223
D681	16-022	9.51	57	1-REC-50-H	0	0	505	138	226	34	69	0.00	12.65	0
16-021	D681	11.32	57	1-4ACSR	0	0	377	125	226	34	25	1.50	14.16	324
D631	16-025	5.54	53	1-REC-35-H	0	0	925	156	347	51	146	0.00	8.82	0
16-040	D631	6.41	53	1-4ACSR	0	0	718	148	347	51	37	1.69	10.51	693
16-041	16-040	7.10	27	1-6CU	0	0	609	142	195	29	24	0.75	11.25	175

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
23-050	23-015	6.84	37 1-	4ACSR	0	0	524	136	219	32	23	1.01	10.30	205
D613	23-017	4.69	126 3-	REC-50-H	1388	1271	896	154	758	36	74	0.00	7.91	0
23-016	D613	5.88	126 3-	1/0ACSR	1138	1047	723	148	758	36	16	0.72	8.64	731
23-014	23-016	6.94	21 1-	4ACSR	0	0	563	140	133	19	14	0.50	9.14	61
23-010	23-016	6.60	105 3-	1/0ACSR	1023	944	646	145	621	30	13	0.33	8.97	263
23-011	23-010	8.37	95 3-	1/0ACSR	821	761	513	138	516	25	11	0.63	9.60	393
23-013	23-011	10.59	52 1-	4ACSR	0	0	360	122	271	40	29	2.15	11.75	540
23-012	23-011	9.84	18 1-	4ACSR	0	0	400	127	85	12	9	0.45	10.05	35
D644	23-019	4.29	106 3-	REC-35-H	1501	1371	977	156	659	32	91	0.00	7.58	0
23-018	D644	5.38	106 3-	1/0ACSR	1231	1130	786	151	659	32	14	0.38	7.95	255
23-051	23-018	6.92	41 1-	6CU	0	0	547	138	201	29	25	1.37	9.32	287
23-029	23-051	8.67	6 1-	4ACSR	0	0	401	126	56	8	6	0.35	9.67	18
CAP28	23-019	4.29	0 3-	Cap (300)	1501	1371	977	156	0	-13	0	0.00	7.58	0
D609	23-003	3.59	34 1-	REC-25-L	0	0	1152	159	239	34	138	0.00	6.66	0
23-007	D609	4.63	34 1-	4ACSR	0	0	804	150	239	34	25	1.16	7.82	294
23-008	23-007	5.86	11 1-	4ACSR	0	0	585	139	82	11	9	0.35	8.18	26
D685	23-003	3.59	33 1-	REC-25-4H	0	0	1152	159	258	37	149	0.00	6.66	0
23-020	D685	5.44	33 1-	4ACSR	0	0	645	143	258	37	27	2.90	9.56	927
23-022	23-020	6.09	24 1-	4ACSR	0	0	557	138	187	27	20	0.66	10.22	145
23-021	23-022	7.53	15 1-	4ACSR	0	0	426	127	187	27	20	0.66	10.22	145
23-004	23-046	2.81	93 3-	3/0ACSR	2247	2068	1559	165	602	28	9	0.17	3.35	82
CAP63	23-002	1.65	0 3-	Cap (300)	2985	2822	2263	170	0	-14	0	0.00	3.05	0
D688	23-001	1.28	60 1-	REC-50-L	0	0	2635	171	394	55	110	0.00	2.47	0
23-023	D688	1.94	60 1-	6CU	0	0	1673	164	394	55	46	1.17	3.64	476
23-049	23-023	2.98	20 1-	4ACSR	0	0	1016	154	140	19	14	0.49	4.13	61
CKT	5 total losses:	\$36,918												
SUB	15 total losses:	\$92,714												
Total System Losses:	\$1,014,127													



Title: TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION      KENTUCKY 23 TAYLOR      CAMPBELLSVILLE, KENTUCKY  
 a: APPENDIX 3      2011-2013 CONSTRUCTION WORK PLAN      FUTURE WINTER 2013/14 SYSTEM AFTER IMPROVEMENTS  
 Peterson & Dewar Engineers, Inc.      Norcross, Georgia

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX I/LG FAULT	MX LG FAULT	MN LG FAULT	LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LOSS
SUB 1	CAMPBELLSVILLE		1597		6276	6560	6626	176	18609						
SUB 1, CKT 1															
1-1	CAMPBELLSVILLE	0.00	4 3-	BKR-560-VWVE	6276	6560	6626	176	4709	233	0	0.00	0.00	0.00	0
08-094	1-1	0.13	4 3-	336ACSR	6043	6138	6049	176	4709	233	44	0.20	0.20	0.20	975
08-987	08-094	0.13	1 3-	Consumer	6043	6138	6049	176	4669	231	0	0.00	0.20	0.20	0
08-988	08-094	0.13	0 1-	Consumer	0	0	6049	176	0	0	0	0.00	0.20	0.20	0
CKT 1 total losses:		\$975													
SUB 1, CKT 2															
1-2	CAMPBELLSVILLE	0.00	391 3-	BKR-560-VWVE	6276	6560	6626	176	2477	110	0	0.00	0.00	0.00	0
08-048	1-2	0.35	391 3-	3/0ACSR	5380	5381	4969	175	2477	110	37	0.00	0.37	0.37	1112
08-989	08-048	0.35	1 3-	Consumer	5380	5381	4969	175	11	0	0	0.00	0.37	0.37	0
08-103	08-048	0.69	3 3-	3/0ACSR	4659	4542	3910	173	9	14	5	-0.04	0.32	0.32	20
08-044	08-103	2.25	2 3-	3/0ACSR	2789	2564	1924	167	6	14	5	-0.19	0.13	0.13	86
08-130	08-044	2.35	1 3-	3/0ACSR	2712	2488	1859	167	6	0	0	0.00	0.13	0.13	0
	C214	2.25	0 3-	Cap (300)	2789	2564	1924	167	0	-14	0	0.00	0.13	0.13	0
08-177	08-048	1.01	371 3-	336ACSR	4523	4359	3504	173	2226	101	19	0.39	0.75	0.75	970
08-075	08-177	2.06	371 3-	1/0ACSR	2922	2652	1959	167	2220	101	44	1.48	2.23	2.23	3711
08-992	08-075	2.06	0 1-	Consumer	0	0	1959	167	0	0	0	0.00	2.23	2.23	0
08-991	08-075	2.06	0 3-	Consumer	2922	2652	1959	167	0	0	0	0.00	2.23	2.23	0
08-990	08-075	2.06	0 3-	Consumer	2922	2652	1959	167	0	0	0	0.00	2.23	2.23	0
08-090	08-075	3.27	140 3-	1/0ACSR	2009	1830	1283	161	852	39	17	0.39	2.62	2.62	282
08-178	08-075	3.11	115 3-	1/0ACSR	2095	1905	1342	162	664	30	13	0.53	2.76	2.76	448
D78	08-178	3.11	48 1-	REC-35-L	0	0	1342	162	288	40	115	0.00	2.76	2.76	0
08-132	D78	3.68	48 1-	4ACSR	0	0	1094	156	288	40	29	0.54	3.30	3.30	137
08-164	08-132	3.65	67 1-	6CU	0	0	1069	156	373	51	43	0.66	3.42	3.42	215
CKT 2 total losses:		\$6,981													
SUB 1, CKT 3															
1-3	CAMPBELLSVILLE	0.00	543 3-	BKR-560-VWVE	6276	6560	6626	176	3667	164	0	0.00	0.00	0.00	0
08-046	1-3	0.35	543 3-	3/0ACSR	5369	5369	4952	175	3667	164	55	0.60	0.60	0.60	2670
08-074	08-046	1.23	529 3-	3/0ACSR	3808	3607	2898	171	3503	157	53	1.38	1.98	1.98	5874
08-122	08-074	1.32	489 3-	3/0ACSR	3695	3488	2779	171	3230	149	50	0.14	2.13	2.13	554
08-076	08-122	2.65	224 3-	3/0ACSR	2517	2298	1698	166	1571	72	24	0.90	3.03	3.03	1540
08-993	08-076	2.65	1 3-	Consumer	2517	2298	1698	166	7	0	0	0.00	3.03	3.03	0
08-086	08-076	3.37	71 3-	3/0ACSR	2142	1937	1402	163	437	20	7	0.13	3.16	3.16	64
08-085	08-086	3.99	14 3-	3/0ACSR	1893	1702	1217	161	143	6	2	0.02	3.18	3.18	3
D5	08-086	3.37	32 1-	REC-70-L	0	0	1402	163	156	21	31	0.00	3.16	3.16	0
08-087	D5	5.54	32 1-	4ACSR	0	0	660	143	156	21	16	1.13	4.29	4.29	155
D76	08-087	5.54	0 1-	REC-50-4H	0	0	660	143	0	0	0	0.00	4.29	4.29	0
D4	08-076	2.65	80 3-	REC-50-L	2517	2298	1698	166	652	30	55	0.00	3.03	3.03	0
08-080	D4	3.40	80 3-	2ACSR	1904	1740	1269	160	652	30	17	0.51	3.54	3.54	420
08-153	08-080	3.71	69 3-	2ACSR	1723	1585	1148	158	524	24	14	0.17	3.71	3.71	109
08-125	08-153	4.41	60 3-	2ACSR	1405	1307	939	154	409	19	11	0.23	3.94	3.94	103
08-079	08-125	6.00	18 3-	1/0ACSR	1076	1004	701	146	159	7	3	0.14	4.09	4.09	24
08-926	08-079	6.00	1 1-	Consumer	0	0	701	146	19	2	0	0.00	4.09	4.09	0
08-927	08-079	6.00	0 1-	Consumer	0	0	701	146	0	0	0	0.00	4.09	4.09	0
08-928	08-079	6.00	1 1-	Consumer	0	0	701	146	13	1	0	0.00	4.09	4.09	0
08-931	08-079	6.00	1 3-	Consumer	1076	1004	701	146	23	1	0	0.00	4.09	4.09	0
08-930	08-079	6.00	1 3-	Consumer	1076	1004	701	146	11	0	0	0.00	4.09	4.09	0
08-929	08-079	6.00	1 3-	Consumer	1076	1004	701	146	11	0	0	0.00	4.09	4.09	0
D8	08-080	3.40	0 1-	REC-70-L	0	0	1269	160	0	0	0	0.00	3.54	3.54	0

KENTUCKY 23 TAYLOR - CAMPBELLSVILLE, KENTUCKY  
 FUTURE WINTER 2013/14 SYSTEM AFTER IMPROVEMENTS

TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION  
 APPENDIX 3 - 2011-2013 CONSTRUCTION WORK PLAN  
 Peterson & 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
07-019	08-121	4.94	76 3-	3/0ACSR	1678	1502	1041	158	513	24	8	0.15	4.43	62
07-980	07-019	4.94	1 3-	Consumer	1678	1502	1041	158	9	0	0	0.00	4.43	0
D6	08-121	3.84	60 3-	REC-35-L	2045	1848	1297	162	329	15	15	0.00	4.28	0
07-108	D6	5.48	60 1-	4ACSR	0	0	733	147	329	46	33	2.56	6.84	898
07-017	07-108	6.25	13 1-	4ACSR	0	0	604	140	67	9	7	0.18	7.02	11
07-016	07-108	6.29	6 1-	4ACSR	0	0	598	140	63	9	6	0.18	7.02	10
CL75	08-131	3.17	0 3-	Cap (300)	2361	2150	1529	165	0	-14	0	0.00	3.93	0
14-069	08-062	2.96	166 3-	1/0ACSR	2449	2230	1595	165	940	44	19	0.13	3.80	153
08-996	14-069	2.96	1 3-	Consumer	2449	2230	1595	165	8	0	0	0.00	3.80	0
D67	14-069	2.96	159 3-	REC-70-L	2449	2230	1595	165	840	39	56	0.00	3.80	0
08-065	D67	3.75	159 3-	1/0ACSR	1973	1772	1248	161	840	39	17	0.25	4.06	183
D75	08-065	3.75	0 1-	REC-50-L	0	0	1248	161	0	0	0	0.00	4.06	0
CKT 5 total losses: \$17,475														
SUB 1, CKT 6														
08-165	1-6	0.20	3 3-	BKR-560-VWVE	6276	6560	6626	176	138	6	0	0.00	0.00	0
08-985	08-165	0.20	3 3-	3/0ACSR	5733	5796	5573	175	138	6	2	0.01	0.01	2
08-172	08-165	0.22	1 3-	Consumer	5733	5796	5573	175	24	1	0	0.00	0.01	0
08-166	08-172	0.32	0 3-	3/0ACSR	5683	5738	5483	175	0	0	0	0.00	0.01	0
08-905	08-166	0.32	0 3-	350MCM	5526	5637	5310	459	0	0	0	0.00	0.01	0
	08-905	0.20	1 3-	Consumer	5733	5796	5573	175	79	3	0	0.00	0.01	0
CKT 6 total losses: \$2														
SUB 1 total losses: \$52,495														

KENTUCKY 23 TAYLOR - CAMPBELLSVILLE, KENTUCKY  
 FUTURE WINTER 2013/14 SYSTEM AFTER IMPROVEMENTS

KENTUCKY 23 TAYLOR - CAMPBELLSVILLE, KENTUCKY  
 FUTURE WINTER 2013/14 SYSTEM AFTER IMPROVEMENTS

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
07-051	D208	4.90	20 1-	4ACSR	0	0	782	148	99	13	10	0.50	3.98	44
D224	07-063	1.93	26 1-	REC-35-L	0	0	2088	169	108	15	43	0.00	2.48	0
07-064	D224	3.08	26 1-	4ACSR	0	0	1125	157	108	15	11	0.42	2.89	39
D204	07-065	1.76	82 1-	REC-50-L	0	0	2224	169	349	48	97	0.00	2.34	0
07-061	D204	4.35	82 1-	4ACSR	0	0	711	144	349	48	35	4.77	7.11	1879
D205	07-061	4.35	44 1-	REC-25-4H	0	0	711	144	196	28	113	0.00	7.11	0
07-206	D205	4.84	44 1-	4ACSR	0	0	628	140	196	28	20	0.62	7.74	161
14-013	07-206	6.17	14 1-	4ACSR	0	0	474	131	69	9	7	0.32	8.05	20
07-059	07-206	7.11	28 1-	4ACSR	0	0	404	124	106	15	11	0.84	8.57	81
D231	07-061	4.35	0 1-	REC-25-4H	0	0	711	144	0	0	0	0.00	7.11	0
D215	07-066	0.53	103 1-	4ACSR	0	0	4059	174	422	57	83	0.00	0.81	0
07-045	D215	2.33	103 1-	REC-70-L	0	0	1126	155	422	57	41	3.92	4.73	1832
07-043	07-045	3.34	1 1-	6CU	0	0	786	146	4	0	0	0.01	4.74	0
07-099	07-045	2.71	55 1-	4ACSR	0	0	966	152	229	32	23	0.50	5.22	135
D234	07-099	2.71	36 1-	REC-35-4H	0	0	966	152	153	21	62	0.00	5.22	0
07-044	D234	4.19	36 1-	4ACSR	0	0	621	139	153	21	16	0.77	5.99	105
CKT 3 total losses: \$18,099														
SUB 2, CKT 4	GREENSBURG(20)	0.00	233 3-	BKR-560-VWVE	5698	5880	5934	176	1739	77	0	0.00	0.00	0
20-4	20-4	2.06	233 3-	3/OACSR	2822	2617	1991	168	1739	77	26	1.39	1.39	3055
14-986	07-073	2.06	1 3-	Consumer	2822	2617	1991	168	1	0	0	0.00	1.39	0
14-006	07-073	2.56	126 3-	Consumer	2822	2617	1991	168	33	1	0	0.00	1.39	0
14-993	14-006	2.56	1 1-	1/OACSR	2413	2198	1637	165	1232	55	24	0.36	1.75	604
14-991	14-006	2.56	0 3-	Consumer	0	0	1637	165	357	49	0	0.00	1.75	0
14-984	14-006	2.56	1 1-	Consumer	2413	2198	1637	165	0	0	0	0.00	1.75	0
14-985	14-006	2.56	0 1-	Consumer	0	0	1637	165	47	6	0	0.00	1.75	0
14-979	14-006	2.56	0 1-	Consumer	0	0	1637	165	0	0	0	0.00	1.75	0
14-188	14-006	2.63	70 3-	1/OACSR	2364	2150	1598	165	117	16	0	0.00	1.75	0
14-086	14-188	2.66	43 3-	1/OACSR	2340	2126	1578	165	523	24	10	0.03	1.78	18
14-982	14-188	2.87	27 3-	1/OACSR	2206	1993	1472	164	181	8	4	0.00	1.83	21
14-978	14-086	2.87	1 3-	Consumer	2206	1993	1472	164	342	15	7	0.05	1.83	0
14-977	14-086	2.87	1 3-	Consumer	2206	1993	1472	164	115	5	0	0.00	1.83	0
14-983	14-086	2.87	1 3-	Consumer	2206	1993	1472	164	101	4	0	0.00	1.83	0
CI87	14-006	2.56	0 3-	Cap (300)	2413	2198	1637	164	17	0	0	0.00	1.83	0
14-005	07-073	2.40	46 3-	4ACSR	2330	2126	1621	164	184	8	6	0.06	1.45	11
14-987	14-005	2.40	1 1-	Consumer	0	0	1621	164	19	2	0	0.00	1.45	0
CKT 4 total losses: \$3,709														
SUB 2, CKT 5	GREENSBURG(20)	0.00	390 3-	BKR-560-VWVE	5698	5880	5934	176	2358	104	0	0.00	0.00	0
20-5	20-5	0.76	390 3-	3/OACSR	4241	4130	3529	173	2358	104	35	0.75	0.75	2315
07-072	07-070	1.24	360 3-	3/OACSR	3597	3421	2759	171	2178	97	32	0.43	1.18	1258
14-004	07-072	2.25	311 3-	3/OACSR	2686	2480	1870	167	1890	84	28	0.78	1.96	2042
14-426	14-004	3.45	305 3-	3/OACSR	2051	1860	1349	163	1841	83	28	1.04	3.00	2382
14-087	14-426	4.14	301 3-	3/OACSR	1801	1622	1160	160	1809	83	28	0.60	3.60	1364
14-009	14-428	4.44	301 3-	3/OACSR	1710	1536	1094	159	1801	84	28	0.27	3.87	600
14-910	14-087	4.77	296 3-	3/OACSR	1621	1453	1030	158	1752	82	27	0.29	4.16	607
14-992	14-009	4.77	0 1-	Consumer	0	0	1030	158	0	0	0	0.00	4.16	0
14-992	14-009	4.77	1 3-	Consumer	1621	1453	1030	158	109	5	0	0.00	4.16	0
Substation Power Factor: 1.00														
Run Date:														
Load Factor: 0.45														
Loss Factor: 0.24														
Cost: 0.0800 per kWh														

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
07-077	07-103	3.21	6 1-	4ACSR	0	0	1076	156	57	7	6	0.10	3.24	5
07-078	07-103	3.35	263 3-	1/0ACSR	1723	1585	1124	158	1361	63	28	0.64	3.78	1073
06-044	07-078	4.92	244 3-	1/0ACSR	1263	1169	803	151	1195	55	24	1.32	5.09	1913
D214	06-044	4.92	180 3-	REC-35-H	1263	1169	803	151	843	39	38	0.00	5.09	0
06-045	D214	5.79	180 3-	1/0ACSR	1098	1020	693	147	843	39	17	0.53	5.63	564
06-048	06-045	7.76	147 3-	1/0ACSR	847	789	529	138	653	31	14	0.88	6.50	685
06-050	06-048	8.63	83 1-	4ACSR	0	0	451	132	301	43	31	1.61	8.11	604
06-052	06-050	11.32	53 1-	4ACSR	0	0	309	115	171	24	18	1.60	9.71	250
06-051	06-050	9.83	13 1-	4ACSR	0	0	375	124	57	8	6	0.24	8.35	12
06-049	06-048	9.62	43 1-	4ACSR	0	0	386	125	180	25	18	1.83	8.34	387
06-039	06-049	11.48	12 1-	4ACSR	0	0	303	114	79	11	8	0.51	8.85	37
06-040	06-049	10.30	10 1-	4ACSR	0	0	351	121	26	3	3	0.06	8.40	0
06-047	06-045	7.77	21 1-	4ACSR	0	0	457	131	84	11	9	0.57	6.20	43
D228	06-044	4.92	31 1-	REC-35-H	0	0	803	151	149	21	61	0.00	5.09	0
06-046	D228	6.56	31 1-	4ACSR	0	0	538	137	149	21	15	1.05	6.15	159
13-005	06-046	7.90	7 1-	4ACSR	0	0	422	128	40	5	4	0.18	6.33	7
C188	07-097	2.65	0 3-	Cap (150)	2056	1883	1369	162	0	-7	0	0.00	3.08	0

CKT 6 total losses: \$12,577  
 SUB 2 total losses: \$50,309



LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
23-028	23-027	4.31	88 3-	3/OACSR	1723	1553	1121	160	353	17	6	0.02	5.56	10
D653	23-028	4.31	88 1-	REC-50-H	0	0	1121	160	353	52	104	0.00	5.56	0
23-053	D653	4.54	88 1-	4ACSR	0	0	1031	157	353	52	37	0.56	6.12	265
23-040	23-053	5.63	85 1-	4ACSR	0	0	732	147	337	49	36	2.21	8.33	898
D638	23-040	5.63	60 1-	REC-35-4H	0	0	732	147	216	32	93	0.00	8.33	0
23-033	D638	7.38	60 1-	4ACSR	0	0	492	133	216	32	23	1.76	10.09	399
23-030	23-033	9.65	17 1-	4ACSR	0	0	344	119	55	8	6	0.47	10.56	24
D640	23-027	4.20	24 1-	REC-35-L	0	0	1146	160	126	18	53	0.00	5.54	0
23-026	D640	5.24	24 1-	4ACSR	0	0	804	150	126	18	13	0.83	6.36	130
23-025	23-026	6.91	8 1-	4ACSR	0	0	533	136	49	7	5	0.30	6.66	13
23-024	23-026	6.21	9 1-	4ACSR	0	0	621	142	45	6	5	0.16	6.52	7
CKT 2 total losses: \$33,710														

SUB	CKT	LINE SECT	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
3	3	COLUMBIA(60)	180 3-	BKR-560-VWVE	5423	5803	5868	176	2778	127	0	0.00	0.00	0
60-3	22-110	60-3	180 3-	336ACSR	5295	5423	5534	176	2778	127	24	0.07	0.07	206
22-069	22-110	0.52	180 3-	3/OACSR	4492	4481	4089	174	2777	127	42	0.59	0.66	1919
22-981	22-069	0.52	1 3-	Consumer	4492	4481	4089	174	270	12	0	0.00	0.66	0
22-020	22-069	1.22	177 3-	3/OACSR	3525	3374	2785	171	2439	111	37	0.86	1.52	2485
22-021	22-020	1.86	174 3-	3/OACSR	2918	2730	2139	169	2419	111	37	0.76	2.28	2167
22-989	22-021	1.86	0 1-	Consumer	0	0	2139	169	0	0	0	0.00	2.28	0
22-992	22-021	1.86	0 3-	Consumer	2918	2730	2139	169	0	0	0	0.00	2.28	0
22-070	22-021	2.54	162 3-	3/OACSR	2450	2257	1707	166	2286	109	37	0.85	3.12	2216
22-094	22-070	3.03	121 3-	3/OACSR	2199	2010	1494	164	2109	101	34	0.54	3.66	1282
22-990	22-094	3.03	1 1-	Consumer	0	0	1494	164	154	22	0	0.00	3.66	0
22-991	22-094	3.03	0 3-	Consumer	2199	2010	1494	164	0	0	0	0.00	3.66	0
22-007	22-094	3.29	92 3-	4/OACSR	2097	1911	1406	163	1498	72	21	0.18	3.84	310
22-997	22-007	3.29	1 1-	Consumer	0	0	1406	163	37	5	0	0.00	3.84	0
22-998	22-007	3.29	1 1-	Consumer	0	0	1406	163	428	62	0	0.00	3.84	0
22-986	22-007	3.29	1 1-	Consumer	0	0	1406	163	27	3	0	0.00	3.84	0
D1056	22-007	3.29	87 3-	REC-50-L	2097	1911	1406	163	503	24	49	0.00	3.84	0
22-079	D1056	3.58	87 3-	1/OACSR	1947	1762	1288	162	503	24	11	0.11	3.95	70
22-008	22-079	4.02	15 3-	1/OACSR	1755	1581	1143	160	97	4	2	0.03	3.99	4
22-100	22-008	4.20	0 3-	1/OACSR	1689	1524	1095	159	0	0	0	0.00	3.99	0
D1057	22-008	4.02	14 1-	REC-25-L	0	0	1143	160	89	12	52	0.00	3.99	0
22-006	D1057	5.24	14 1-	4ACSR	0	0	760	148	89	12	9	0.38	4.37	31
22-082	22-079	4.21	67 3-	4ACSR	1495	1382	1001	156	333	16	12	0.24	4.19	84
22-970	22-082	4.21	1 3-	Consumer	1495	1382	1001	156	72	3	0	0.00	4.19	0
22-971	22-007	3.29	1 3-	Consumer	2097	1911	1406	163	499	24	0	0.00	3.84	0
22-969	22-094	3.03	1 3-	Consumer	2199	2010	1494	164	196	9	0	0.00	3.66	0
C196	22-021	1.86	0 3-	Cap (300)	2918	2730	2139	169	0	-14	0	0.00	2.28	0
CKT 3 total losses: \$10,774														

SUB	CKT	LINE SECT	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
3	3	COLUMBIA(60)	229 3-	BKR-560-VWVE	5423	5803	5868	176	1328	62	0	0.00	0.00	0
60-4	22-016	60-4	229 3-	397ACSR	4542	4529	4133	174	1328	62	11	0.25	0.25	336
22-982	22-016	0.74	1 3-	Consumer	4542	4529	4133	174	77	3	0	0.00	0.25	0
22-979	22-016	0.74	1 3-	Consumer	4542	4529	4133	174	35	1	0	0.00	0.25	0
22-983	22-016	0.74	1 3-	Consumer	4542	4529	4133	174	18	0	0	0.00	0.25	0
22-014	22-016	1.43	219 3-	397ACSR	3924	3814	3203	173	1151	54	9	0.20	0.45	227
22-104	22-014	1.90	142 3-	397ACSR	3587	3441	2772	172	731	34	6	0.04	0.50	22
D680	22-014	1.43	67 1-	REC-70-L	0	0	3203	173	326	46	66	0.00	0.45	0
CKT 3 total losses: \$10,774														

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
C197	22-068	0.26	0 3-	Cap (300)	4843	4888	4715	175	0	-14	0	0.00	0.14	0

CKT 6 total losses: \$266

SUB 3 total losses: \$64,520

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP LOSS
18-003	D948	9.28	51 1-	4ACSR	0	0	418	127	253	38	28	3.18	11.68
	D935	5.38	36 1-	REC-50-L	0	0	981	157	225	34	68	0.00	7.80
	D935	6.83	36 1-	4ACSR	0	0	646	144	225	34	24	1.96	9.76
	D935	6.83	36 1-	4ACSR	0	0	467	132	133	20	15	0.79	10.55
	D920	5.23	0 3-	Cap (300)	1617	1465	1015	157	0	-13	0	0.00	7.57
	D920	4.45	1 1-	4ACSR	0	0	1151	159	0	0	0	0.00	5.66
	D920	2.09	1 3-	Consumer	3489	3325	2621	172	8	0	0	0.00	2.76
CKT 1 total losses: \$62,660													
SUB 4, CKT 2													
	PHIL(90)	0.00	264 3-	BKR-560-VWVE	5458	5745	5784	176	1659	75	0	0.00	0.00
	90-2	0.50	264 3-	336ACSR	4808	4794	4319	175	1659	75	14	0.21	0.21
	18-010	0.79	261 3-	336ACSR	4479	4399	3728	174	1636	74	14	0.12	0.33
	18-019	1.40	255 3-	1/0ACSR	3494	3275	2557	170	1538	69	30	0.68	1.01
	15-126	1.40	255 3-	REC-70-L	3494	3275	2557	170	1530	69	100	0.00	1.01
	D920	2.11	255 3-	1/0ACSR	2690	2445	1829	167	1530	69	30	0.79	1.80
	18-011	3.26	162 3-	4ACSR	1495	1422	1043	155	947	42	31	1.70	3.50
	18-012	5.39	145 3-	4ACSR	773	759	564	137	792	36	26	2.38	5.88
	18-131	5.46	100 3-	4ACSR	760	747	556	137	526	26	19	0.07	5.95
	18-020	5.46	94 2-	REC-35-H	0	747	556	137	457	34	117	0.00	5.95
	D939	6.11	94 2-	4ACSR	0	653	488	132	457	34	24	0.90	6.85
	18-015	6.72	56 1-	4ACSR	0	0	437	128	253	38	27	0.99	7.84
	18-021	9.29	43 1-	6CU	0	0	306	113	182	27	23	1.71	9.55
	18-017	9.41	31 1-	4ACSR	0	0	300	112	135	20	15	1.65	8.49
	17-027	5.39	0 1-	REC-25-H	0	0	564	137	0	0	0	0.00	5.88
	D940	5.39	0 3-	Cap (300)	773	759	564	137	0	-13	0	0.00	5.88
	CAP35	2.88	82 3-	4ACSR	1771	1663	1220	159	494	23	17	0.58	2.38
	18-018	2.88	1 3-	Consumer	1771	1663	1220	159	9	0	0	0.00	2.38
	18-994	2.88	62 1-	REC-50-H	0	0	1220	159	310	45	90	0.00	2.38
	D957	2.88	62 1-	4ACSR	0	0	555	136	310	45	32	2.86	5.23
	18-016	5.47	45 1-	4ACSR	0	0	555	136	310	45	32	2.86	5.23
CKT 2 total losses: \$10,473													
SUB 4, CKT 3													
	PHIL(90)	0.00	391 3-	BKR-560-VWVE	5458	5745	5784	176	4811	225	0	0.00	0.00
	90-3	2.57	391 3-	397ACSR	3210	3031	2315	171	4811	225	38	3.15	3.15
	17-008	2.57	1 3-	Consumer	3210	3031	2315	171	11	0	0	0.00	3.15
	17-989	2.97	329 3-	397ACSR	3008	2823	2110	170	4305	205	35	0.44	3.59
	17-030	2.97	314 3-	328	3008	2823	2110	170	4112	196	60	0.00	3.59
	R115	3.21	314 3-	397ACSR	2899	2712	2003	169	4112	196	33	0.24	3.82
	17-010	3.21	1 1-	Consumer	0	0	2003	169	60	8	0	0.00	3.82
	17-995	3.21	1 1-	Consumer	0	0	2003	169	47	6	0	0.00	3.82
	17-996	3.42	89 3-	336ACSR	2804	2614	1899	169	2525	119	23	0.14	3.97
	17-011	3.89	81 3-	336ACSR	2613	2419	1700	168	2369	116	22	0.34	4.31
	17-036	3.89	1 3-	Consumer	2613	2419	1700	168	127	6	0	0.00	4.31
	17-997	3.89	1 1-	Consumer	0	0	1700	168	137	20	0	0.00	4.31
	17-993	3.89	1 1-	Consumer	0	0	1700	168	779	115	0	0.00	4.31
	17-994	3.89	1 1-	Consumer	0	0	1700	168	345	50	0	0.00	4.31
	17-992	4.46	65 3-	4ACSR	1987	1806	1288	162	871	42	31	0.86	5.17
	17-028	4.68	50 3-	4ACSR	1793	1648	1171	159	730	36	26	0.29	5.46
	17-025	4.68	1 3-	Consumer	1793	1648	1171	159	269	13	0	0.00	5.46
	17-991	4.68	1 3-	Consumer	1793	1648	1171	159	113	5	0	0.00	5.46
	17-990	4.68	1 3-	Consumer	1793	1648	1171	159	113	5	0	0.00	5.46
	D923	4.68	45 1-	REC-50-L	0	0	1171	159	250	37	75	0.00	5.46

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
14-083	D958	12.73	66 1-	4ACSR	0	0	337	121	337	52	38	3.57	14.39	1521
D933	14-083	12.73	36 1-	REC-35-H	0	0	337	121	210	33	97	0.00	14.39	0
12-007	D933	12.84	36 1-	4ACSR	0	0	332	120	210	33	24	0.17	14.56	52
12-002	12-007	14.02	33 1-	4ACSR	0	0	289	113	193	31	22	0.90	15.46	172
CAP33	12-005	11.05	0 3-	Cap (600)	703	648	426	132	0	-26	0	0.00	10.82	0
D918	18-007	6.52	27 1-	REC-25-4H	0	0	758	151	112	16	67	0.00	6.50	0
18-008	D918	8.55	27 1-	4ACSR	0	0	484	134	112	16	12	1.10	7.60	131
11-013	18-008	10.05	11 1-	4ACSR	0	0	379	124	34	5	4	0.19	7.79	6
D917	18-006	5.13	50 1-	REC-35-L	0	0	991	157	259	38	110	0.00	4.87	0
11-014	D917	5.98	50 1-	4ACSR	0	0	763	149	259	38	27	1.20	6.06	352
11-010	11-014	9.35	21 1-	4ACSR	0	0	387	124	83	12	9	1.03	7.09	78
11-015	11-014	6.66	8 1-	4ACSR	0	0	641	144	44	6	5	0.11	6.17	4
CAP34	18-006	5.13	0 3-	Cap (300)	1584	1420	991	157	0	-13	0	0.00	4.87	0
D952	18-004	3.58	16 1-	REC-25-L	0	0	1353	163	67	9	39	0.00	3.48	0
18-005	D952	5.40	16 1-	4ACSR	0	0	714	146	67	9	7	0.44	3.92	26

CKT 5 total losses: \$31,979  
 SUB 4 total losses: \$131,796

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
07-002	07-004	4.89	17 1-	4ACSR	0	0	550	135	49	6	5	0.36	4.96	16
D373	07-004	2.68	25 1-	REC-25-L	0	0	1036	154	98	13	55	0.00	4.60	0
07-003	D373	5.62	25 1-	4ACSR	0	0	475	130	98	13	10	0.96	5.56	84
CKT 1 total losses: \$40,283														
SUB 5, CKT 2														
30-2	SUMMERSVILL(30)	0.00	313 3-	BKR-560-YMVE	5867	6199	6232	176	1456	65	0	0.00	0.00	0
07-035	30-2	0.39	313 3-	477ACSR	5313	5330	5088	175	1456	65	10	0.10	0.10	159
07-037	07-035	1.30	161 3-	3/0ACSR	3773	3595	2929	172	645	29	10	0.20	0.30	125
07-998	07-037	1.30	1 1-	Consumer	0	0	2929	172	5	0	0	0.00	0.30	0
07-997	07-037	1.30	1 1-	Consumer	0	0	2929	172	10	1	0	0.00	0.30	0
D302	07-037	1.30	68 1-	REC-50-L	0	0	2929	172	252	34	68	0.00	0.30	0
06-018	D302	2.82	68 1-	4ACSR	0	0	1133	156	252	34	24	1.75	2.05	459
06-027	06-018	4.44	15 1-	4ACSR	0	0	663	142	46	6	5	0.24	2.29	10
06-019	06-018	4.00	14 1-	4ACSR	0	0	749	145	59	8	6	0.23	2.28	12
07-033	07-035	1.36	137 3-	3/0ACSR	3695	3511	2842	171	715	32	11	0.27	0.37	198
07-994	07-033	1.36	1 1-	Consumer	0	0	2842	171	26	3	0	0.00	0.37	0
07-031	07-033	1.95	28 3-	4ACSR	2495	2326	1820	165	160	7	5	0.12	0.49	21
07-029	07-031	3.01	10 1-	4ACSR	0	0	1060	154	76	10	7	0.26	0.75	17
07-030	07-033	2.28	17 3-	3/0ACSR	2808	2595	1968	168	137	6	2	0.04	0.41	6
07-990	07-030	2.28	1 3-	Consumer	2808	2595	1968	168	53	2	0	0.00	0.41	0
07-041	07-030	2.45	0 3-	3/0ACSR	2689	2476	1863	167	0	0	0	0.00	0.41	0
D381	07-033	1.36	22 1-	REC-50-L	0	0	2842	171	99	13	27	0.00	0.37	0
07-032	D381	3.03	22 1-	4ACSR	0	0	1053	154	99	13	10	0.53	0.90	45
CKT 2 total losses: \$1,052														
SUB 5, CKT 3														
30-3	SUMMERSVILL(30)	0.00	405 3-	BKR-560-YMVE	5867	6199	6232	176	1731	77	0	0.00	0.00	0
07-034	30-3	0.41	405 3-	477ACSR	5291	5305	5048	175	1731	77	12	0.12	0.12	242
07-038	07-034	1.96	405 3-	3/0ACSR	3080	2869	2216	169	1730	77	26	1.06	1.18	2148
07-996	07-038	1.96	1 1-	Consumer	0	0	2216	169	5	0	0	0.00	1.18	0
07-993	07-038	1.96	0 1-	Consumer	0	0	2216	169	0	0	0	0.00	1.18	0
07-992	07-038	1.96	1 3-	Consumer	3080	2869	2216	169	7	0	0	0.00	1.18	0
07-995	07-038	1.96	0 3-	Consumer	3080	2869	2216	169	0	0	0	0.00	1.18	0
06-020	07-038	2.75	194 3-	3/0ACSR	2498	2288	1701	166	944	42	14	0.30	1.47	374
06-021	06-020	3.20	152 3-	1/0ACSR	2195	1986	1457	164	714	32	14	0.20	1.68	202
D316	06-021	3.20	143 3-	REC-70-L	2195	1986	1457	164	686	30	44	0.00	1.68	0
06-057	D316	3.32	143 3-	1/0ACSR	2127	1919	1404	163	686	30	13	0.05	1.73	50
06-058	06-057	4.32	143 3-	1/0ACSR	1666	1512	1067	158	686	31	14	0.46	2.19	373
06-022	06-058	5.63	85 3-	1/0ACSR	1291	1182	811	152	379	17	8	0.34	2.52	153
06-038	06-022	7.23	61 3-	1/0ACSR	1010	931	627	144	309	14	6	0.35	2.87	133
06-036	06-038	7.75	32 3-	1/0ACSR	943	871	584	142	172	7	3	0.07	2.93	15
D379	06-036	7.75	7 1-	REC-50-H	0	0	584	142	35	4	10	0.00	2.93	0
06-034	D379	9.01	7 1-	6CU	0	0	461	133	35	4	4	0.14	3.08	4
D346	06-036	7.75	20 1-	REC-25-4H	0	0	584	142	135	18	75	0.00	2.93	0
06-062	D346	8.02	20 1-	4ACSR	0	0	552	140	135	18	13	0.21	3.14	34
06-061	06-062	8.58	16 1-	6CU	0	0	496	136	101	14	12	0.26	3.41	28
06-035	06-061	9.62	8 1-	4ACSR	0	0	415	128	43	6	4	0.15	3.55	6
D318	06-038	7.23	25 1-	REC-25-H	0	0	627	144	102	14	57	0.00	2.87	0
06-037	D318	8.24	25 1-	6CU	0	0	510	136	102	14	12	0.33	3.20	30
D317	06-058	4.32	31 1-	REC-35-L	0	0	1067	158	160	22	63	0.00	2.19	0
06-063	D317	4.78	31 1-	4ACSR	0	0	908	154	160	22	16	0.41	2.59	77

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
01-007	D304	5.82	151 3-	1/OACSR	1503	1357	929	156	704	33	15	0.63	6.68	558
02-034	01-007	6.52	71 3-	1/OACSR	1321	1199	810	152	379	18	8	0.19	6.87	95
02-032	02-034	7.19	36 1-	4ACSR	0	0	678	146	213	30	22	0.80	7.67	203
	D312	7.19	26 1-	REC-35-H	0	0	678	146	135	19	56	0.00	7.67	0
02-011	D312	8.31	26 1-	4ACSR	0	0	529	137	135	19	14	0.90	8.56	151
02-012	02-011	10.02	22 1-	4ACSR	0	0	394	125	98	14	10	0.58	9.14	52
D360	02-034	6.52	32 1-	REC-35-4H	0	0	810	152	127	18	52	0.00	6.87	0
02-033	D360	7.58	32 1-	4ACSR	0	0	618	143	127	18	13	0.46	7.33	53
D313	01-007	5.82	63 1-	REC-35-4H	0	0	929	156	229	32	94	0.00	6.68	0
01-006	D313	8.33	63 1-	4ACSR	0	0	499	135	229	32	23	2.74	9.42	686
01-005	01-006	10.28	25 1-	4ACSR	0	0	364	122	91	13	10	0.62	10.03	52
CAP67	06-060	4.33	0 3-	Cap (150)	2096	1902	1339	163	0	-6	0	0.00	5.92	0
D305	06-056	4.11	350 3-	REC-70-L	2201	2005	1417	164	1724	80	115	0.00	5.72	0
06-053	D305	6.55	350 3-	1/OACSR	1305	1186	801	152	1724	80	35	2.88	8.59	6403
06-013	06-053	6.98	275 3-	1/OACSR	1215	1107	743	150	1390	66	29	0.44	9.03	846
06-026	06-013	8.06	5 1-	4ACSR	0	0	575	141	25	3	3	0.09	9.12	2
06-012	06-013	7.66	265 3-	1/OACSR	1094	1000	667	147	1336	64	28	0.66	9.69	1216
06-055	06-012	7.80	259 3-	1/OACSR	1071	980	653	146	1269	62	27	0.14	9.83	251
06-006	06-055	8.88	233 3-	1/OACSR	927	852	563	142	1166	57	25	0.94	10.77	1445
06-054	06-006	9.31	98 3-	1/OACSR	880	809	534	140	541	26	12	0.18	10.95	130
D307	06-054	9.31	45 1-	REC-35-4H	0	0	534	140	220	32	93	0.00	10.95	0
06-003	D307	10.68	45 1-	4ACSR	0	0	421	130	220	32	23	1.69	12.64	455
06-001	06-003	12.35	15 1-	4ACSR	0	0	332	119	79	11	9	0.47	13.12	36
06-002	06-001	11.67	9 1-	4ACSR	0	0	363	123	50	7	5	0.18	12.82	9
D377	06-054	9.31	49 1-	REC-50-L	0	0	534	140	281	41	83	0.00	10.95	0
06-011	D377	10.62	49 1-	4ACSR	0	0	424	130	281	41	30	2.16	13.11	757
01-019	06-011	11.86	29 1-	6CU	0	0	356	122	180	27	23	1.38	14.49	331
01-020	01-019	12.85	12 1-	4ACSR	0	0	314	116	73	11	8	0.26	14.75	19
D309	01-019	11.86	8 1-	REC-35-4H	0	0	356	122	65	9	28	0.00	14.49	0
01-018	D309	12.31	8 1-	4ACSR	0	0	335	119	65	9	7	0.11	14.60	7
D308	06-006	8.88	115 3-	REC-35-H	927	852	563	142	487	24	23	0.00	10.77	0
06-004	D308	10.14	115 3-	1/OACSR	800	737	485	136	487	24	10	0.45	11.23	286
06-029	06-004	11.17	82 3-	1/OACSR	719	665	436	132	335	16	7	0.25	11.48	110
06-030	06-029	13.25	29 1-	4ACSR	0	0	326	119	100	14	11	0.73	12.21	69
06-032	06-029	11.87	47 1-	4ACSR	0	0	392	127	177	26	19	0.74	12.21	165
06-031	06-032	14.33	18 1-	4ACSR	0	0	287	113	54	8	6	0.47	12.68	24
06-033	06-032	13.43	16 1-	4ACSR	0	0	319	118	66	9	7	0.36	12.58	23
D363	06-004	12.04	18 1-	REC-35-4H	0	0	319	118	0	0	0	0.00	12.58	0
06-028	06-004	7.80	26 1-	4ACSR	0	0	362	123	68	10	7	0.45	11.68	29
D306	06-055	7.80	26 1-	REC-35-H	0	0	653	146	102	14	43	0.00	9.83	0
06-007	D306	8.59	16 1-	4ACSR	0	0	551	140	102	14	11	0.50	10.33	66
06-009	06-007	9.36	13 1-	4ACSR	0	0	475	134	65	9	7	0.31	10.64	26
06-010	06-009	11.05	5 1-	4ACSR	0	0	365	123	48	7	5	0.28	10.92	13
06-008	06-007	9.49	5 1-	4ACSR	0	0	464	133	15	2	2	0.05	10.38	0
C184	06-012	7.66	0 3-	Cap (150)	1094	1000	667	147	0	-6	0	0.00	9.69	0
D372	06-053	6.55	22 1-	REC-25-H	0	0	801	152	70	10	41	0.00	8.59	0
06-014	D372	9.10	22 1-	4ACSR	0	0	456	131	70	10	7	0.61	9.20	39

CKT 4 total losses: \$52,616

File: TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION KENTUCKY 23 TAYLOR - CAMPBELLSVILLE, KENTUCKY  
 e: APPENDIX 3 - 2011-2013 CONSTRUCTION WORK PLAN FUTURE WINTER 2013/14 SYSTEM AFTER IMPROVEMENTS  
 Peterson & 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 MCKINNEY (40)			1669		5063	5482	5467	176	8079					
SUB 6, CKT 1														
40-1	MCKINNEY (40)	0.00	623 3-	BKR-560-VWVE	5063	5482	5467	176	3130	140	0	0.00	0.00	0
14-041	40-1	0.95	623 3-	1/OACSR	3350	3146	2684	170	3130	140	61	2.05	2.05	8085
14-066	14-041	1.37	564 3-	1/OACSR	2855	2625	2151	168	2788	126	55	0.81	2.86	2905
14-084	14-066	1.65	532 3-	1/OACSR	2593	2375	1897	167	2587	118	51	0.51	3.38	1752
D425	14-084	1.65	524 3-	REC-100-L	2593	2375	1897	167	2534	116	116	0.00	3.38	0
13-428	D425	2.20	524 3-	1/OACSR	2190	2011	1538	164	2534	116	51	0.98	4.36	3265
13-427	13-428	3.21	11 1-	4ACSR	0	0	984	154	80	11	8	0.27	4.62	19
13-029	13-428	2.96	497 3-	1/OACSR	1800	1659	1221	160	2346	108	47	1.23	5.59	3836
REG80	13-029	2.96	478 3-	150	1800	1659	1221	160	2217	103	69	0.00	5.59	0
13-027	REG80	4.14	469 3-	1/OACSR	1400	1296	920	154	2168	101	44	1.78	7.36	5168
13-026	13-027	4.54	152 3-	1/OACSR	1300	1205	848	152	763	36	16	0.23	7.59	226
13-025	13-026	5.17	102 3-	1/OACSR	1171	1087	757	149	467	22	10	0.19	7.78	108
13-997	13-025	5.17	1 3-	Consumer	1171	1087	757	149	3	0	0	0.00	7.78	0
D426	13-025	5.17	82 3-	REC-25-4H	1171	1087	757	149	320	15	62	0.00	7.78	0
13-023	D426	5.65	82 3-	1/OACSR	1087	1010	699	147	320	15	7	0.11	7.90	46
13-022	13-023	6.91	27 1-	6CU	0	0	529	137	96	13	12	0.41	8.31	36
13-021	13-022	7.71	47 1-	4ACSR	0	0	454	131	178	25	18	0.26	9.16	206
D406	13-021	4.54	38 1-	REC-35-4H	0	0	848	152	214	30	88	0.00	7.59	0
13-016	D406	5.76	38 1-	4ACSR	0	0	614	142	214	30	22	1.45	9.04	372
13-017	13-016	7.21	23 1-	4ACSR	0	0	458	131	132	19	14	0.67	9.71	82
D420	13-017	4.14	282 3-	REC-70-L	1400	1296	920	154	1237	58	83	0.00	7.36	0
13-010	D420	5.37	282 3-	1/OACSR	1134	1054	732	148	1237	58	25	0.99	8.35	1761
13-011	13-010	6.24	237 3-	1/OACSR	999	930	639	144	1051	50	22	0.57	8.92	888
13-012	13-011	6.47	143 3-	1/OACSR	969	902	618	143	630	31	14	0.08	9.00	98
13-038	13-012	6.82	140 3-	1/OACSR	925	862	589	142	602	29	13	0.16	9.17	131
13-007	13-038	6.91	18 3-	4ACSR	905	845	578	141	75	3	3	0.01	9.17	0
D427	13-007	6.91	0 1-	REC-35-H	0	0	578	141	0	0	0	0.00	9.17	0
13-013	D427	7.43	114 3-	4ACSR	801	754	520	137	491	23	17	0.49	9.65	317
D437	13-013	7.43	98 3-	REC-35-4H	801	754	520	137	366	17	51	0.00	9.65	0
13-003	D437	7.75	69 3-	4ACSR	745	706	489	135	282	13	10	0.15	9.81	59
13-999	13-003	8.94	53 3-	4ACSR	593	570	401	127	218	10	8	0.26	10.07	58
13-998	13-002	8.94	0 1-	Consumer	0	0	401	127	0	0	0	0.00	10.07	0
13-004	13-998	8.94	1 1-	Consumer	0	0	401	127	18	2	0	0.00	10.07	0
C109	D437	8.79	29 1-	4ACSR	0	0	410	127	84	12	9	0.40	10.05	31
D402	13-012	6.47	0 3-	Cap (300)	969	902	618	143	0	-13	0	0.00	9.00	0
13-015	D402	6.24	69 1-	REC-35-H	0	0	639	144	283	41	118	0.00	8.92	0
13-018	13-015	8.07	58 1-	4ACSR	0	0	546	139	283	41	30	1.26	10.18	461
D438	13-018	8.07	34 1-	4ACSR	0	0	445	130	221	32	23	1.39	11.57	373
13-001	D438	10.20	34 1-	REC-25-H	0	0	445	130	132	19	79	0.00	11.57	0
13-019	13-001	11.09	8 1-	4ACSR	0	0	326	117	132	19	14	1.47	13.05	227
13-020	13-019	11.81	7 1-	4ACSR	0	0	293	112	29	4	3	0.09	13.14	3
D431	13-020	5.37	19 1-	4ACSR	0	0	271	109	32	4	3	0.19	13.23	6
13-008	D431	6.45	19 1-	REC-25-4H	0	0	565	139	68	9	39	0.00	8.35	0
D430	13-008	2.96	9 1-	4ACSR	0	0	1221	160	68	6	20	0.00	5.59	0
13-028	D430	4.08	9 1-	REC-35-L	0	0	812	149	49	6	5	0.18	5.77	8
D421	13-028	0.95	36 1-	4ACSR	0	0	2684	170	146	20	58	0.00	2.05	0
14-044	D421	3.53	36 1-	REC-35-L	0	0	750	145	146	20	14	1.24	3.29	158
14-041	14-044	0.95	36 1-	4ACSR	0	0	750	145	146	20	14	1.24	3.29	158
14-042	14-041	0.95	36 1-	4ACSR	0	0	750	145	146	20	14	1.24	3.29	158
14-043	14-042	0.95	36 1-	4ACSR	0	0	750	145	146	20	14	1.24	3.29	158
14-044	14-043	0.95	36 1-	4ACSR	0	0	750	145	146	20	14	1.24	3.29	158
14-045	14-044	0.95	36 1-	4ACSR	0	0	750	145	146	20	14	1.24	3.29	158
14-046	14-045	0.95	36 1-	4ACSR	0	0	750	145	146	20	14	1.24	3.29	158
14-047	14-046	0.95	36 1-	4ACSR	0	0	750	145	146	20	14	1.24	3.29	158
14-048	14-047	0.95	36 1-	4ACSR	0	0	750	145	146	20	14	1.24	3.29	158
14-049	14-048	0.95	36 1-	4ACSR	0	0	750	145	146	20	14	1.24	3.29	158
14-050	14-049	0.95	36 1-	4ACSR	0	0	750	145	146	20	14	1.24	3.29	158
14-051	14-050	0.95	36 1-	4ACSR	0	0	750	145	146	20	14	1.24	3.29	158
14-052	14-051	0.95	36 1-	4ACSR	0	0	750	145	146	20	14	1.24	3.29	158
14-053	14-052	0.95	36 1-	4ACSR	0	0	750	145	146	20	14	1.24	3.29	158
14-054	14-053	0.95	36 1-	4ACSR	0	0	750	145	146	20	14	1.24	3.29	158
14-055	14-054	0.95	36 1-	4ACSR	0	0	750	145	146	20	14	1.24	3.29	158
14-056	14-055	0.95	36 1-	4ACSR	0	0	750	145	146	20	14	1.24	3.29	158
14-057	14-056	0.95	36 1-	4ACSR	0	0	750	145	146	20	14	1.24	3.29	158
14-058	14-057	0.95	36 1-	4ACSR	0	0	750	145	146	20	14	1.24	3.29	158
14-059	14-058	0.95	36 1-	4ACSR	0	0	750	145	146	20	14	1.24	3.29	158
14-060	14-059	0.95	36 1-	4ACSR	0	0	750	145	146	20	14	1.24	3.29	158
14-061	14-060	0.95	36 1-	4ACSR	0	0	750	145	146	20	14	1.24	3.29	158
14-062	14-061	0.95	36 1-	4ACSR	0	0	750	145	146	20	14	1.24	3.29	158
14-063	14-062	0.95	36 1-	4ACSR	0	0	750	145	146	20	14	1.24	3.29	158
14-064	14-063	0.95	36 1-	4ACSR	0	0	750	145	146	20	14	1.24	3.29	158
14-065	14-064	0.95	36 1-	4ACSR	0	0	750	145	146	20	14	1.24	3.29	158
14-066	14-065	0.95	36 1-	4ACSR	0	0	750	145	146	20	14	1.24	3.29	158
14-067	14-066	0.95	36 1-	4ACSR	0	0	750	145	146	20	14	1.24	3.29	158
14-068	14-067	0.95	36 1-	4ACSR	0	0	750	145	146	20	14	1.24	3.29	158
14-069	14-068	0.95	36 1-	4ACSR	0	0	750	145	146	20	14	1.24	3.29	158
14-070	14-069	0.95	36 1-	4ACSR	0	0	750	145	146	20	14	1.24	3.29	158
14-071	14-070	0.95	36 1-	4ACSR	0	0	750	145	146	20	14	1.24	3.29	158
14-072	14-071	0.95	36 1-	4ACSR	0	0	750	145	146	20	14	1.24	3.29	158
14-073	14-072	0.95	36 1-	4ACSR	0	0	750	145	146	20	14	1.24	3.29	158
14-074	14-073	0.95	36 1-	4ACSR	0	0	750</							

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX 1LG FAULT	MX 1LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
13-033	13-032	7.19	52 1-	4ACSR	0	512	135	236	33	24	2.47	7.18	678	
13-024	13-033	8.52	15 1-	4ACSR	0	407	126	73	10	7	0.33	7.51	22	
13-034	13-033	8.14	13 1-	4ACSR	0	432	129	68	9	7	0.22	7.40	14	
D410	13-032	5.25	81 3-	REC-35-L	1289	812	151	292	13	39	0.00	4.71	0	
13-036	D410	6.54	81 1-	4ACSR	0	586	140	292	41	29	2.17	6.88	769	
13-035	13-036	7.83	12 1-	4ACSR	0	455	131	53	7	5	0.24	7.11	11	
20-001	13-036	7.83	12 1-	4ACSR	0	455	131	53	7	5	0.24	7.11	11	
20-002	13-036	8.56	34 1-	4ACSR	0	404	126	101	14	10	0.70	7.58	64	
D409	13-031	4.86	29 1-	REC-35-4H	0	875	153	94	13	38	0.00	4.54	0	
20-003	D409	7.16	29 1-	4ACSR	0	500	134	94	13	9	0.72	5.26	60	
D429	14-063	3.00	15 1-	REC-35-L	0	1383	163	58	8	23	0.00	3.50	0	
14-064	D429	4.77	15 1-	4ACSR	0	728	146	58	8	6	0.34	3.84	17	
D434	14-042	1.17	14 1-	REC-35-L	0	3049	172	87	11	34	0.00	0.98	0	
14-098	D434	1.71	14 1-	6CU	0	2014	167	87	11	10	0.21	1.19	19	
14-093	14-098	3.04	10 1-	4ACSR	0	1009	153	36	4	3	0.15	1.34	5	
CKT 2 total losses: \$27,040														

SUB	6, CKT 3	MCKINNEY (40)	314 3-	BKR-560-VWVE	5063	5467	176	1505	67	0	0.00	0.00	0	
40-3	40-3	0.00	314 3-	BKR-560-VWVE	5063	5467	176	1505	67	29	0.19	0.37	362	
14-040	40-3	0.18	314 3-	1/OACSR	4664	4641	175	1505	67	29	0.19	0.37	335	
14-238	14-040	0.36	306 3-	1/OACSR	4305	4005	174	1453	65	29	0.19	0.37	98	
14-036	14-238	0.65	62 1-	4ACSR	0	2946	170	220	29	21	0.37	0.74	0	
D403	14-036	0.65	55 1-	REC-50-L	0	2946	170	174	23	47	0.00	0.74	0	
14-095	D403	1.17	55 1-	6CU	0	1923	165	174	23	20	0.51	1.26	107	
14-032	14-095	1.68	48 1-	4ACSR	0	1411	160	135	18	13	0.43	1.69	74	
14-237	14-032	2.82	7 1-	4ACSR	0	870	149	24	3	2	0.09	1.78	2	
D405	14-032	1.68	39 1-	REC-35-L	0	1411	160	103	14	40	0.00	1.69	0	
14-046	D405	3.23	39 1-	4ACSR	0	764	145	103	14	10	0.81	2.50	93	
14-092	14-046	4.50	26 1-	4ACSR	0	555	135	57	7	6	0.38	2.88	24	
14-047	14-092	5.91	15 1-	6CU	0	427	126	33	4	4	0.15	3.03	4	
14-037	14-238	1.39	235 3-	1/OACSR	2833	2128	168	1167	52	23	0.83	1.20	1161	
14-067	14-037	2.76	156 3-	1/OACSR	1889	1740	161	769	35	15	0.67	1.88	599	
14-038	14-067	3.76	106 3-	1/OACSR	1507	1394	156	560	25	11	0.37	2.24	240	
14-003	14-038	4.57	46 3-	1/OACSR	1294	1200	152	322	14	6	0.19	2.43	78	
14-427	14-003	4.82	17 3-	3/OACSR	1254	814	151	209	9	3	0.03	2.46	6	
14-097	14-427	5.41	14 3-	3/OACSR	1166	1079	149	196	9	3	0.04	2.50	8	
14-008	14-097	5.87	10 3-	4ACSR	1017	952	145	84	3	3	0.04	2.54	3	
14-994	14-008	5.87	1 3-	Consumer	1017	666	145	16	0	0	0.00	2.54	0	
D428	14-003	4.57	26 1-	REC-35-H	0	844	152	101	13	40	0.00	2.43	0	
14-034	D428	6.37	26 1-	6CU	0	542	137	101	13	12	0.59	3.02	52	
D417	14-038	3.76	34 1-	REC-50-4H	0	999	156	95	13	26	0.00	2.24	0	
14-002	D417	6.96	34 1-	4ACSR	0	453	130	95	13	9	1.07	3.31	92	
14-981	14-002	6.96	1 1-	Consumer	0	453	130	7	0	0	0.00	3.31	0	
D418	14-037	1.39	52 2-	REC-50-L	0	2602	168	225	15	31	0.00	1.20	0	
14-039	D418	2.47	52 2-	4ACSR	0	1505	157	225	15	11	0.56	1.77	145	
13-006	14-039	3.62	28 1-	4ACSR	0	771	146	96	13	9	0.36	2.13	30	
13-037	14-039	3.06	4 1-	4ACSR	0	926	151	36	5	4	0.07	1.84	2	
C189	14-040	0.18	0 3-	Cap (150)	4664	4641	175	0	-7	0	0.00	0.19	0	
CKT 3 total losses: \$3,515														



LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-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	MILELANE(10)		2764		5664	5942	5976	176	12811					
SUB 7, CKT 1														
10-1	MILELANE(10)	0.00	557 3-	BKR-560-VWVE	5664	5942	5976	176	2846	126	0	0.00	0.00	0
03-074	10-1	0.66	557 3-	4/OACSR	4465	4385	3829	174	2846	126	37	0.66	0.66	2337
03-059	03-074	0.92	105 3-	1/OACSR	3983	3818	3181	172	418	19	8	0.04	0.70	14
03-073	03-074	1.39	426 3-	336ACSR	3794	3615	2813	172	2308	103	19	0.36	1.02	1027
03-063	03-073	1.54	385 3-	336ACSR	3684	3495	2673	171	2104	96	18	0.08	1.10	186
03-034	03-063	3.56	343 3-	336ACSR	2598	2379	1560	166	1875	85	16	0.84	1.94	1644
03-036	03-034	3.83	189 3-	336ACSR	2498	2281	1476	165	1060	48	9	0.07	2.02	87
03-035	03-036	4.10	9 1-	4ACSR	0	0	1302	162	63	8	6	0.06	2.07	3
D147	03-036	3.83	174 3-	REC-70-L	2498	2281	1476	165	938	43	62	0.00	2.02	0
03-021	D147	4.10	174 3-	336ACSR	2405	2191	1402	164	938	43	8	0.06	2.08	64
03-020	03-021	5.80	128 3-	4ACSR	1183	1113	759	148	676	31	22	1.74	3.82	1453
03-998	03-020	5.80	1 1-	Consumer	0	0	759	148	10	1	0	0.00	3.82	0
03-019	03-020	6.56	64 3-	4ACSR	941	899	624	142	362	16	12	0.39	4.21	170
D106	03-019	6.56	49 1-	REC-50-H	0	0	624	142	214	30	60	0.00	4.21	0
03-005	D106	7.16	49 1-	4ACSR	0	0	546	137	214	30	21	0.77	4.98	202
03-007	03-006	7.72	8 1-	4ACSR	0	0	489	133	32	4	3	0.06	5.04	2
D134	03-006	8.48	30 1-	4ACSR	0	0	427	128	133	18	13	0.59	5.57	70
03-018	03-020	5.80	25 1-	REC-25-4H	0	0	759	148	103	14	58	0.00	3.82	0
03-022	D134	7.46	25 1-	4ACSR	0	0	513	135	103	14	10	0.57	4.39	52
D136	03-021	4.10	33 1-	REC-25-L	0	0	1402	164	150	20	83	0.00	2.08	0
03-037	D116	6.49	33 1-	4ACSR	0	0	633	142	150	20	15	1.18	3.25	154
D105	03-034	3.56	67 1-	REC-35-H	0	0	740	147	292	40	115	0.00	1.94	0
03-038	D105	1.54	39 1-	4ACSR	0	0	2673	171	292	40	29	1.90	3.84	483
C173	03-038	4.04	39 1-	4ACSR	0	0	777	147	216	29	84	0.00	1.10	0
1 total losses:	03-073	1.39	0 3-	Cap (300)	3794	3615	2813	172	216	29	21	1.76	2.86	329
		\$8,277							0	-14	0	0.00	1.02	0
SUB 7, CKT 2														
10-2	MILELANE(10)	0.00	349 3-	BKR-560-VWVE	5664	5942	5976	176	1359	61	0	0.00	0.00	0
03-060	10-2	1.22	349 3-	4/OACSR	3749	3584	2891	172	1359	61	18	0.61	0.61	909
03-057	03-060	2.31	315 3-	1/OACSR	2533	2300	1721	166	1138	51	22	0.54	1.14	562
03-055	03-057	3.46	36 3-	1/OACSR	1844	1678	1194	160	198	9	4	0.09	1.24	16
08-909	03-055	3.46	1 1-	Consumer	0	0	1194	160	20	2	0	0.00	1.24	0
2 total losses:		\$1,487												
SUB 7, CKT 3														
10-3	MILELANE(10)	0.00	521 3-	BKR-560-VWVE	5664	5942	5976	176	2691	120	0	0.00	0.00	0
03-064	10-3	1.32	521 3-	3/OACSR	3473	3290	2660	171	2691	120	40	1.49	1.49	4859
03-033	03-064	2.44	444 3-	1/OACSR	2362	2135	1613	165	2212	99	43	1.65	3.14	4740
03-032	03-033	3.04	411 3-	1/OACSR	1995	1815	1324	162	2003	91	40	0.83	3.98	2252
03-072	03-032	3.51	404 3-	1/OACSR	1779	1624	1163	159	1957	91	40	0.68	4.66	1711
REG81	03-072	3.51	396 3-	150	1779	1624	1163	159	1878	88	59	0.00	4.66	0
03-031	REG81	3.67	378 3-	1/OACSR	1711	1565	1114	158	1781	83	36	0.22	4.88	511
03-075	03-031	4.12	288 3-	1/OACSR	1555	1425	1003	156	1309	61	27	0.45	5.33	763
D103	03-075	4.12	288 3-	REC-70-L	1555	1425	1003	156	1305	61	88	0.00	5.33	0
03-027	D103	4.79	288 3-	1/OACSR	1362	1253	869	153	1305	61	27	0.66	5.99	1098
03-025	03-027	6.25	270 3-	1/OACSR	1073	992	675	146	1204	57	25	1.24	7.22	1842
03-079	03-025	6.42	167 3-	4ACSR	1022	949	647	145	681	32	23	0.22	7.44	209
03-024	03-079	7.52	100 3-	4ACSR	778	738	512	136	430	20	15	0.80	8.24	463

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LIG FAULT	MX LG MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
D140	02-038	7.71	50 1-	REC-35-H	0	487	134	235	33	95	0.00	5.11	0
02-043	D140	8.54	50 1-	4ACSR	0	423	128	235	33	24	1.21	6.33	363
02-016	02-043	8.86	6 1-	4ACSR	0	402	126	49	6	5	0.05	6.38	2
02-007	02-043	11.13	35 1-	4ACSR	0	298	113	149	21	15	1.31	7.63	176
C167	02-018	7.70	0 3-	Cap (300)	744	489	134	0	-13	0	0.00	5.11	0
D139	02-039	4.51	28 1-	REC-35-L	0	867	152	97	13	39	0.00	4.19	0
02-023	D139	6.74	28 1-	4ACSR	0	502	134	97	13	10	0.73	4.91	62
D112	03-066	2.12	112 3-	REC-50-L	2369	1627	164	599	27	56	0.00	2.94	0
08-003	D112	3.13	112 3-	1/0ACSR	1802	1189	159	599	27	12	0.43	3.37	324
08-171	08-003	3.20	77 3-	1/0ACSR	1772	1167	159	349	16	7	0.02	3.39	7
08-002	08-171	4.50	73 1-	4ACSR	0	747	147	295	41	29	1.27	4.66	331
D143	08-003	3.13	26 1-	REC-25-L	0	1189	159	194	27	108	0.00	3.37	0
08-001	D143	4.59	26 1-	4ACSR	0	722	146	194	27	19	1.59	4.96	364
07-092	08-001	5.14	12 1-	4ACSR	0	628	141	85	11	9	0.16	5.12	12
02-024	08-001	5.81	6 1-	4ACSR	0	541	136	46	6	5	0.19	5.15	8
CKT 4 total losses:		\$12,636											
SUB 7, CKT 5	MILELANE(10)	0.00	408 3-	BKR-560-VWVE	5664	5976	176	1186	53	0	0.00	0.00	0
10-5	10-5	0.64	408 3-	3/0ACSR	4390	3788	173	1186	53	18	0.35	0.35	484
03-065	03-065	2.40	215 3-	3/0ACSR	2568	1784	167	579	26	9	0.25	0.60	115
08-016	08-016	2.40	0 3-	Consumer	2568	1784	167	0	0	0	0.00	0.60	0
08-936	03-065	0.64	166 3-	REC-100-L	4390	3788	173	490	22	22	0.00	0.35	0
D119	03-065	1.66	166 3-	1/0ACSR	2904	2084	168	490	22	10	0.18	0.54	76
08-092	D119												
CKT 5 total losses:		\$675											
SUB 7, CKT 6	MILELANE(10)	0.00	508 3-	BKR-560-VWVE	5664	5976	176	2370	106	0	0.00	0.00	0
10-6	10-6	1.00	508 3-	4/0ACSR	4001	3198	173	2370	106	31	0.83	0.83	2262
03-071	03-071	3.36	435 3-	4/0ACSR	2258	1457	165	2020	91	27	1.49	2.32	3308
03-058	03-058	3.52	251 3-	4/0ACSR	2192	1405	164	1189	53	16	0.07	2.38	105
03-041	03-041	5.42	220 3-	4/0ACSR	1822	984	158	1056	47	14	0.63	3.01	831
03-040	03-040	5.42	185 3-	REC-35-L	1622	1459	158	855	38	111	0.00	3.01	0
D130	03-040	5.60	185 3-	4/0ACSR	1581	1420	157	855	38	11	0.05	3.07	61
03-081	03-081	5.86	94 3-	4/0ACSR	1528	919	156	396	18	5	0.03	3.09	19
03-014	03-014	5.98	91 3-	4/0ACSR	1504	903	156	388	18	5	0.02	3.11	9
03-078	03-078	6.52	43 1-	4ACSR	0	772	151	208	28	21	0.65	3.76	162
03-016	03-016	7.91	13 1-	4ACSR	0	555	139	71	9	7	0.33	4.09	21
03-039	03-016	7.32	20 1-	4ACSR	0	631	144	80	11	8	0.21	3.97	15
03-017	03-016	7.49	45 1-	4ACSR	0	884	156	180	8	2	0.01	3.12	2
03-015	03-078	6.13	48 3-	4/0ACSR	1476	619	143	168	23	17	1.20	4.32	230
03-008	03-015	8.72	22 1-	4ACSR	0	482	134	98	13	10	0.41	4.73	35
03-009	03-008	8.72	45 1-	4ACSR	0	822	151	208	28	21	0.65	3.76	162
C142	03-014	5.86	0 3-	Cap (150)	1528	919	156	414	19	8	0.26	3.32	132
03-013	03-013	6.47	86 3-	1/0ACSR	1346	807	153	414	19	8	0.26	3.32	132
03-077	03-013	7.10	41 1-	4ACSR	0	683	147	154	21	15	0.32	3.65	44
03-010	03-013	8.09	36 1-	4ACSR	0	548	139	215	29	21	1.16	4.48	219
D131	03-041	3.52	30 1-	REC-35-L	0	1405	164	130	17	51	0.00	2.38	0
03-042	D131	4.81	30 1-	4ACSR	0	856	151	130	17	13	0.61	3.00	74
03-996	03-042	4.81	1 1-	Consumer	0	856	151	15	2	0	0.00	3.00	0
D132	03-058	3.36	33 1-	REC-35-L	0	1457	165	171	23	68	0.00	2.32	0
03-053	D132	5.18	33 1-	4ACSR	0	746	147	171	23	17	1.02	3.34	153
CKT 6 total losses:		\$7,682											

Title: TAYLOR COUNTY RURAL ELECTRIC COOPERATIVE CORPORATION  
 e: APPENDIX 3 - 2011-2013 CONSTRUCTION WORK PLAN  
 -terson & Dewar Engineers, Inc. Norcross, Georgia

KENTUCKY 23 TAYLOR - CAMPBELLVILLE, KENTUCKY  
 FUTURE WINTER 2013/14 SYSTEM AFTER IMPROVEMENTS

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX IG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
SUB 8 BASS(80)			1767		5046	5417	5491	176	8860					
SUB 8, CKT 1														
80-1	BASS(80)	0.00	423 3-	BKR-560-VWVE	5046	5417	5491	176	2052	92	0	0.00	0.00	0
09-015	80-1	0.85	423 3-	397ACSR	4181	4171	3784	174	2052	92	16	0.38	0.38	859
09-047	09-015	1.11	405 3-	397ACSR	3963	3913	3437	174	1940	87	15	0.11	0.49	242
10-025	09-047	2.50	346 3-	397ACSR	3099	2949	2307	171	1668	75	13	0.50	0.99	922
10-135	10-025	2.85	293 3-	397ACSR	2934	2776	2127	170	1400	63	11	0.11	1.10	170
10-128	10-135	3.88	0 3-	4ACSR	1743	1632	1220	159	0	0	0	0.00	1.10	0
D819	10-135	2.85	293 3-	REC-70-L	2934	2776	2127	170	1399	63	91	0.00	1.10	0
10-134	D819	3.24	293 3-	1/0ACSR	2607	2424	1812	168	1399	63	28	0.40	1.49	702
10-131	10-134	5.09	285 3-	1/0ACSR	1637	1479	1044	158	1363	62	27	1.77	3.27	2986
10-004	10-131	5.82	255 3-	1/0ACSR	1415	1287	891	155	1215	56	24	0.65	3.92	1016
10-003	10-004	6.60	0 1-	4ACSR	0	0	714	147	0	0	0	0.00	3.92	0
D832	10-004	5.82	248 3-	REC-50-H	1415	1287	891	155	1162	54	108	0.00	3.92	0
10-005	D832	7.19	248 3-	1/0ACSR	1124	1030	698	148	1162	54	24	1.16	5.08	1714
05-005	10-005	9.66	151 3-	1/0ACSR	818	755	502	138	719	33	15	1.15	6.22	975
05-999	05-005	9.66	1 1-	Consumer	0	0	502	138	90	12	0	0.00	6.22	0
05-007	05-005	10.44	17 1-	4ACSR	0	0	439	132	75	10	8	0.20	6.42	13
05-008	05-005	10.61	22 1-	4ACSR	0	0	427	131	115	16	12	0.37	6.59	39
10-008	05-005	12.95	55 1-	4ACSR	0	0	310	116	219	31	22	2.45	8.68	485
OH76	10-005	8.12	82 3-	1/0ACSR	987	907	609	144	351	16	7	0.24	5.32	113
05-004	OH76	8.74	53 1-	4ACSR	0	0	535	139	230	32	23	0.73	6.05	192
05-003	05-004	9.90	24 1-	4ACSR	0	0	435	130	121	17	12	0.78	6.83	114
05-002	05-003	11.19	5 1-	4ACSR	0	0	359	122	47	6	5	0.20	7.04	9
10-001	05-003	10.71	12 1-	4ACSR	0	0	384	125	34	4	3	0.09	6.93	3
OH77	OH76	9.06	29 1-	1/0ACSR	0	0	539	140	120	16	7	0.39	5.71	60
05-001	OH77	11.69	29 1-	4ACSR	0	0	332	119	46	6	5	0.07	7.25	3
04-004	05-001	12.16	12 1-	4ACSR	0	0	2307	171	211	28	57	0.00	0.99	0
D830	10-025	2.50	45 1-	REC-50-L	0	0	1675	165	211	28	24	0.52	1.51	119
10-139	D830	3.02	45 1-	6CU	0	0	736	146	106	14	10	0.70	2.21	65
09-053	10-139	5.08	23 1-	4ACSR	0	0	3437	174	150	20	29	0.00	0.49	0
D818	09-047	1.11	26 1-	REC-70-L	0	0	1111	155	150	20	15	1.26	1.75	204
10-050	D818	2.85	26 1-	4ACSR	0	0	779	146	76	10	7	0.24	1.99	16
10-002	10-050	3.85	11 1-	4ACSR	0	0	779	146	0	0	0	0.00	1.99	0
D833	10-002	3.85	0 1-	REC-50-H	0	0	3437	174	91	12	25	0.00	0.49	0
D825	09-047	1.11	30 1-	REC-50-L	0	0	568	137	91	12	9	1.15	1.63	90
09-029	D825	5.08	30 1-	4ACSR	0	0	3784	174	69	9	13	0.00	0.38	0
D829	09-015	0.85	12 1-	REC-70-L	0	0	600	138	59	9	7	0.84	1.22	50
05-009	D829	4.64	12 1-	4ACSR	0	0	600	138	59	9	7	0.84	1.22	50
CKT 1 total losses:		\$11,350												
SUB 8, CKT 2														
80-2	BASS(80)	0.00	521 3-	BKR-560-VWVE	5046	5417	5491	176	2683	120	0	0.00	0.00	0
09-016	80-2	1.73	521 3-	3/0ACSR	2885	2721	2177	169	2683	120	40	2.08	2.08	6845
09-051	09-016	1.77	11 3-	3/0ACSR	2849	2684	2141	169	87	3	1	0.00	2.08	0
D844	09-051	1.77	11 1-	REC-25-L	0	0	2141	169	87	11	48	0.00	2.08	0
09-028	D844	3.09	11 1-	4ACSR	0	0	1068	155	87	11	9	0.37	2.46	28
09-017	09-016	2.62	494 3-	3/0ACSR	2321	2143	1634	166	2440	110	37	0.96	3.04	2908
09-048	09-017	3.26	471 3-	1/0ACSR	1960	1778	1377	162	2222	102	45	1.05	4.09	2992
09-027	09-048	4.88	360 3-	1/0ACSR	1386	1264	895	154	1691	78	34	1.87	5.95	3876
R101	09-027	4.88	301 3-	150	1386	1264	895	154	1358	64	43	0.00	5.95	0
14-078	R101	4.96	221 3-	1/0ACSR	1368	1247	881	154	969	45	20	0.05	6.01	71

Substation Power Factor: 0.99      Load Factor: 0.45      Loss Factor: 0.24      Cost: 0.0800 per kWh  
 Run Date:      Page 29

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROPP	TOTAL DROPP	LINE LOSS
05-006	04-025	11.99	12 1-	4ACSR	0	0	308	115	70	10	7	0.34	10.24	22
D813	04-026	4.57	57 1-	REC-50-4H	0	0	1083	159	195	27	55	0.00	5.30	0
04-020	D813	5.76	57 1-	4ACSR	0	0	743	148	195	27	20	1.32	6.62	314
04-008	04-020	8.48	41 1-	4ACSR	0	0	421	128	138	19	14	1.26	7.88	158
C208	04-022	4.41	0 3-	Cap (150)	1775	1608	1128	160	0	-6	0	0.00	5.19	0
D809	04-021	4.08	279 3-	REC-70-L	1910	1743	1227	162	1563	72	104	0.00	4.95	0
09-007	D809	5.31	279 3-	2CU	1503	1348	953	156	1563	72	33	1.19	6.14	2407
04-998	09-007	5.31	1 1-	Consumer	0	0	953	156	58	8	0	0.00	6.14	0
09-046	09-007	5.97	223 3-	2CU	1343	1211	849	153	1199	56	26	0.54	6.68	840
09-998	09-046	5.97	1 3-	Consumer	1343	1211	849	153	47	2	0	0.00	6.68	0
09-006	09-046	7.49	109 3-	2CU	1073	977	677	147	558	26	12	0.44	7.13	270
09-052	09-006	7.65	14 3-	2CU	1051	957	663	146	115	5	3	0.01	7.14	2
09-049	09-052	7.93	13 3-	3/0ACSR	1021	930	643	145	106	5	2	0.01	7.15	0
D815	09-006	7.49	31 1-	REC-50-H	0	0	677	147	121	17	35	0.00	7.13	0
09-003	D815	8.06	31 1-	6CU	0	0	595	142	121	17	14	0.35	7.48	49
09-002	09-003	8.62	16 1-	4ACSR	0	0	529	138	64	9	7	0.18	7.66	13
09-001	09-002	9.75	9 1-	4ACSR	0	0	432	129	32	4	3	0.12	7.78	4
D814	09-046	5.97	92 3-	REC-50-H	1343	1211	849	153	434	20	14	0.00	6.68	0
04-019	D814	8.15	92 3-	1/0ACSR	966	882	598	143	434	20	9	0.57	7.25	286
04-016	04-019	9.38	7 1-	4ACSR	0	0	471	134	23	3	2	0.09	7.35	2
04-018	04-019	9.71	27 1-	4ACSR	0	0	445	131	143	20	15	0.75	8.01	98
04-015	04-019	9.28	17 1-	4ACSR	0	0	480	134	87	12	9	0.33	7.58	26
C209	09-007	5.31	0 3-	Cap (150)	1503	1348	953	156	0	-6	0	0.00	6.14	0
D808	09-011	3.81	44 1-	REC-35-L	0	0	1296	163	212	29	85	0.00	4.68	0
04-023	D808	7.00	44 1-	4ACSR	0	0	515	135	212	29	21	2.23	6.91	424
D843	09-010	1.83	7 1-	REC-35-L	0	0	2194	170	63	8	25	0.00	2.42	0
09-009	D843	2.94	7 1-	4ACSR	0	0	1188	158	63	8	6	0.23	2.65	13
D807	09-014	0.78	73 1-	REC-70-L	0	0	3396	173	302	41	59	0.00	1.12	0
09-018	D807	4.49	73 1-	4ACSR	0	0	599	138	302	41	29	5.62	6.73	1886
09-005	09-018	5.66	10 1-	4ACSR	0	0	471	130	42	5	4	0.16	6.90	6
D836	09-018	4.49	28 1-	REC-25-H	0	0	599	138	120	17	68	0.00	6.73	0
09-008	D836	7.06	28 1-	4ACSR	0	0	375	121	120	17	12	1.03	7.76	113
D801	09-045	0.18	81 1-	REC-70-L	0	0	4837	175	301	40	58	0.00	0.28	0
09-013	D801	2.31	81 1-	4ACSR	0	0	1037	153	301	40	29	3.17	3.45	1051
09-012	09-013	3.53	5 1-	4ACSR	0	0	696	143	20	2	2	0.08	3.53	0
04-024	09-013	4.06	37 1-	4ACSR	0	0	608	138	142	19	14	0.81	4.26	102

CKT 3 total losses: \$32,242

SUB 8 total losses: \$64,736

Substation Power Factor: 0.99      Load Factor: 0.45      Loss Factor: 0.24      Cost: 0.0800 per kWh  
 Run Date:      Page 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 DRO	TOTAL DRO	LINE LOSS
SUB 9, CKT 2														
50-2	COBURG(50)	0.00	516 3-	BKR-560-VWVE	4505	4990	5028	176	4396	198	0	0.00	0.00	0
15-017	50-2	0.61	516 3-	4/OACSR	3751	3760	3498	174	4396	198	58	1.05	1.05	5430
15-254	15-017	0.94	515 3-	4/OACSR	3426	3370	2979	172	4363	198	58	0.55	1.61	2824
15-019	15-254	1.53	487 3-	336ACSR	3081	2960	2422	171	3984	182	34	0.59	2.20	2690
15-020	15-019	2.62	414 3-	336ACSR	2594	2427	1797	168	3195	146	28	0.83	3.02	3008
15-060	15-020	3.12	361 3-	336ACSR	2418	2246	1608	166	2830	130	25	0.35	3.37	1169
15-005	15-060	3.55	341 3-	336ACSR	2283	2108	1472	165	2653	122	23	0.28	3.65	902
15-192	15-005	4.01	320 3-	336ACSR	2154	1979	1351	164	2514	116	22	0.29	3.94	865
15-193	15-192	4.05	318 3-	336ACSR	2141	1967	1339	164	2469	115	22	0.03	3.97	90
15-059	15-193	4.92	315 3-	3/OACSR	1821	1656	1116	161	2461	115	38	1.00	4.97	2859
14-077	15-059	5.38	138 3-	3/OACSR	1687	1527	1026	159	2461	29	10	0.14	5.11	111
D523	14-077	5.38	135 3-	REC-50-4H	1687	1527	1026	159	601	28	57	0.00	5.11	0
D523	D523	6.01	135 3-	3/OACSR	1529	1378	922	157	601	28	9	0.18	5.29	125
08-143	08-143	7.14	116 3-	4ACSR	1072	989	674	146	494	23	17	0.82	6.11	494
08-084	08-084	7.47	82 3-	4ACSR	980	911	624	144	300	14	10	0.18	6.29	76
08-126	08-126	7.58	3 3-	4ACSR	951	886	608	143	12	0	0	0.00	6.29	0
D525	08-126	7.47	79 1-	REC-50-L	0	0	624	144	288	41	82	0.00	6.29	0
D525	D525	8.31	79 1-	4ACSR	0	0	522	137	288	41	29	1.48	7.77	541
15-003	15-003	8.80	35 1-	4ACSR	0	0	476	133	141	20	15	0.37	8.14	61
15-004	15-004	10.63	20 1-	4ACSR	0	0	357	121	76	11	8	0.48	8.62	34
15-257	15-004	10.37	31 1-	4ACSR	0	0	371	123	88	12	9	0.63	8.40	50
15-002	15-003	4.92	93 3-	REC-50-L	1821	1656	1116	161	1414	66	133	0.00	4.97	0
D522	D522	5.85	93 3-	4ACSR	1302	1194	822	152	1414	66	48	2.25	7.22	4312
08-082	08-082	5.85	1 3-	Consumer	1302	1194	822	152	272	13	0	0.00	7.22	0
08-925	08-082	5.85	1 3-	Consumer	1302	1194	822	152	6	0	0	0.00	7.22	0
08-924	08-082	5.85	1 3-	Consumer	1302	1194	822	152	574	27	0	0.00	7.22	0
08-923	08-082	5.85	1 3-	Consumer	1302	1194	822	152	401	19	8	0.21	7.43	75
08-081	08-082	7.18	74 3-	1/OACSR	1054	972	658	146	401	0	-7	0.00	3.94	0
C191	15-192	4.01	0 3-	Cap	2154	1979	1351	164	83	3	3	0.05	3.71	4
15-129	15-005	4.28	16 3-	4ACSR	1662	1517	1078	158	117	5	4	0.09	3.46	12
15-180	15-060	3.78	14 3-	4ACSR	1789	1632	1183	160	42	1	1	0.00	3.49	0
15-006	15-180	4.23	1 3-	2URD	1530	1408	1041	342	42	1	0	0.03	3.49	0
15-991	15-006	4.23	1 3-	Consumer	1530	1408	1041	342	42	1	0	0.00	3.49	0
D520	15-019	1.53	58 1-	REC-50-L	0	0	2422	171	245	33	68	0.00	2.20	0
15-021	D520	2.85	58 1-	4ACSR	0	0	1145	157	245	33	24	1.59	3.78	421
15-062	15-021	3.77	23 1-	4ACSR	0	0	821	148	117	16	12	0.54	4.32	71
15-026	15-062	4.65	9 1-	4ACSR	0	0	643	141	61	8	6	0.18	4.50	10
15-258	15-062	3.90	0 1-	4ACSR	0	0	788	147	0	0	0	0.00	4.32	0
15-989	15-019	1.53	1 3-	Consumer	3081	2960	2422	171	357	16	0	0.00	2.20	0
15-076	15-254	1.13	14 1-	4ACSR	0	0	2541	170	153	21	15	0.16	1.77	28
119774	15-076	1.54	11 1-	1/OURD	0	0	2016	407	100	13	6	0.18	1.94	22
15-255	119774	1.79	11 1-	4ACSR	0	0	1712	165	100	13	10	0.08	2.03	7
CKT 2 total losses:		\$26,291												
SUB 9, CKT 3														
50-3	COBURG(50)	0.00	674 3-	BKR-560-VWVE	4505	4990	5028	176	3637	163	0	0.00	0.00	0
15-013	50-3	0.65	674 3-	3/OACSR	3625	3615	3344	173	3637	163	54	1.10	1.10	4862
15-996	15-013	0.65	0 3-	Consumer	3625	3615	3344	173	0	0	0	0.00	1.10	0
15-012	15-013	1.33	657 3-	3/OACSR	2975	2861	2435	170	3437	155	52	1.08	2.18	4573
15-997	15-012	1.33	1 1-	Consumer	0	0	2435	170	31	4	0	0.00	2.18	0
15-038	15-012	3.48	566 3-	3/OACSR	1850	1693	1282	162	3013	137	46	2.82	5.00	10357
15-040	15-038	4.22	211 3-	3/OACSR	1632	1481	1101	159	1240	58	20	0.45	5.45	667
CKT 3 total losses:		\$26,291												

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
15-049	15-077	4.99	23 1-	4ACSR	0	0	757	147	123	16	12	0.43	2.81	46
15-036	15-034	2.67	123 3-	397ACSR	2800	2664	2129	170	894	40	7	0.08	0.90	94
15-037	15-036	2.90	91 3-	4/0ACSR	2666	2522	1980	169	710	31	9	0.04	0.94	42
15-998	15-037	2.90	1 1-	Consumer	0	0	1980	169	4	0	0	0.00	0.94	0
15-999	15-037	2.90	1 1-	Consumer	0	0	1980	169	28	3	0	0.00	0.94	0
C193	15-037	2.90	0 3-	Cap (150)	2666	2522	1980	169	0	-7	0	0.00	0.94	0
D560	15-037	2.90	68 3-	REC-70-L	2666	2522	1980	169	519	23	34	0.00	0.94	0
15-075	D560	3.45	68 3-	4/0ACSR	2386	2231	1692	167	519	23	7	0.09	1.03	48
15-048	15-075	4.70	43 3-	3/0ACSR	1864	1709	1242	163	310	14	5	0.10	1.13	24
D549	15-032	1.25	65 1-	REC-70-L	0	0	3104	173	333	45	65	0.00	0.54	0
15-033	D549	2.73	65 1-	4ACSR	0	0	1199	157	333	45	32	1.60	2.15	460
CKT	4 total losses:													
SUB	9 total losses:													

Substation Power Factor: 0.99      Loss Factor: 0.24      Cost: 0.0800 per kWh  
 Run Date:      Page 35

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROPS	TOTAL DROPS	LINE LOSS
08-942	08-015	0.42	1 3-	Consumer	4923	4926	4485	175	50	2	0	0.00	0.32	0
08-964	08-015	0.42	1 1-	Consumer	0	0	4485	175	9	1	0	0.00	0.32	0
08-963	08-015	0.42	1 1-	Consumer	0	0	4485	175	77	10	0	0.00	0.32	0
08-944	08-015	0.42	1 3-	Consumer	4923	4926	4485	175	28	1	0	0.00	0.32	0
08-943	08-015	0.42	1 3-	Consumer	4923	4926	4485	175	68	3	0	0.00	0.32	0
08-971	08-015	0.42	1 3-	Consumer	4923	4926	4485	175	50	2	0	0.00	0.32	0
08-950	08-015	0.42	1 3-	Consumer	4923	4926	4485	175	77	3	0	0.00	0.32	0
CKT 2 total losses: \$876														
SUB 10, CKT 3 GREENRIVER(70)														
08-096	70-3	0.32	360 3-	BKR-560-VWVE	5616	5837	5893	176	3449	154	0	0.00	0.00	0
08-970	08-096	0.32	1 3-	Consumer	4948	4968	4646	175	3449	154	52	0.51	0.51	2156
08-014	08-096	0.71	349 3-	3/0ACSR	4266	4172	3614	173	3372	151	51	0.60	1.11	2494
08-969	08-014	0.71	1 3-	Consumer	4266	4172	3614	173	9	0	0	0.00	1.11	0
08-947	08-014	0.71	0 3-	Consumer	4266	4172	3614	173	0	0	0	0.00	1.11	0
08-148	08-014	0.98	325 3-	336ACSR	4014	3877	3209	173	3230	145	28	0.21	1.32	814
08-100	08-148	1.02	321 3-	336ACSR	3976	3833	3152	172	3210	147	28	0.04	1.36	134
08-101	08-100	1.48	116 3-	336ACSR	3619	3434	2659	171	2645	121	23	0.31	1.66	925
08-959	08-101	1.48	1 3-	Consumer	3619	3434	2659	171	17	0	0	0.00	1.66	0
08-960	08-101	1.48	1 3-	Consumer	3619	3434	2659	171	81	3	0	0.00	1.66	0
08-941	08-101	1.48	1 3-	Consumer	3619	3434	2659	171	96	4	0	0.00	1.66	0
08-951	08-101	1.48	1 3-	Consumer	3619	3434	2659	171	9	0	0	0.00	1.66	0
08-965	08-101	1.48	1 3-	Consumer	3619	3434	2659	171	37	1	0	0.00	1.66	0
08-127	08-101	1.63	106 3-	4/0ACSR	3467	3275	2501	171	2359	107	32	0.14	1.80	382
08-958	08-127	1.63	1 3-	Consumer	3467	3275	2501	171	18	0	0	0.00	1.80	0
08-957	08-127	1.63	1 3-	Consumer	3467	3275	2501	171	15	0	0	0.00	1.80	0
08-129	08-127	1.77	15 3-	4/0ACSR	3333	3134	2366	170	1592	75	22	0.09	1.90	160
08-956	08-129	1.77	1 3-	Consumer	3333	3134	2366	170	1029	48	0	0.00	1.90	0
08-954	08-129	1.77	1 3-	Consumer	3333	3134	2366	170	178	8	0	0.00	1.90	0
08-972	08-129	1.77	1 3-	Consumer	3333	3134	2366	170	72	3	0	0.00	1.90	0
08-952	08-129	1.77	1 3-	Consumer	3333	3134	2366	170	24	1	0	0.00	1.90	0
08-099	08-127	1.96	9 3-	4/0ACSR	3176	2972	2214	170	605	28	8	0.09	1.89	61
08-955	08-099	1.96	1 1-	Consumer	0	0	2214	170	47	6	0	0.00	1.89	0
08-937	08-099	1.96	1 3-	Consumer	3176	2972	2214	170	31	1	0	0.00	1.89	0
08-945	08-099	1.96	1 3-	Consumer	3176	2972	2214	170	69	3	0	0.00	1.89	0
08-128	08-099	2.07	6 3-	4ACSR	2971	2744	2049	168	458	21	15	0.09	1.98	56
08-973	08-128	2.07	1 3-	Consumer	2971	2744	2049	168	389	18	0	0.00	1.98	0
08-005	08-128	2.12	2 3-	4ACSR	2888	2653	1985	168	16	0	1	0.00	1.98	0
CAP48	08-127	1.63	0 3-	Cap (300)	3467	3275	2501	171	0	-14	0	0.00	1.80	0
D701	08-100	1.02	205 3-	REC-70-L	3976	3833	3152	172	564	26	38	0.00	1.36	0
08-010	D701	1.35	205 3-	4ACSR	3193	2935	2387	169	564	26	19	0.30	1.65	217
08-007	08-010	1.68	22 3-	4ACSR	2549	2380	1873	165	50	2	2	0.01	1.67	0
08-147	08-010	1.65	93 3-	4ACSR	2599	2423	1911	166	403	18	14	0.19	1.85	100
08-154	08-147	1.72	68 3-	2URD	2499	2332	1845	393	309	14	9	0.03	1.88	14
08-135	08-154	1.73	38 3-	2URD	2484	2318	1835	393	205	9	6	0.00	1.88	0
08-136	08-135	1.79	36 2-	2URD	0	2251	1783	390	166	11	7	0.02	1.91	5
08-140	08-136	2.28	29 1-	2URD	0	0	1398	365	107	15	9	0.16	2.06	15
08-141	08-136	1.94	5 1-	2URD	0	0	1644	381	34	4	3	0.02	1.92	0
08-009	08-154	2.00	29 1-	2URD	0	0	1587	378	100	14	8	0.09	1.97	8
C217	08-148	0.98	0 3-	Cap (300)	4014	3877	3209	173	0	-14	0	0.00	1.32	0
CKT 3 total losses: \$7,541														

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROPP	TOTAL DROPP	LINE LOSS
SUB 11	WCOLUMBIA(100)		1707		5125	5480	5544	176	11372					
SUB 11, CKT 1														
100-1	WCOLUMBIA(100)	0.00	0 3-	BKR-560-VWVE	5125	5480	5544	176	4265	0	0	0.00	0.00	0
22-062	100-1	0.37	0 3-	477ACSR	4720	4792	4667	175	4265	0	0	0.00	0.00	0
22-046	22-062	2.76	0 3-	4/OACSR	2511	2331	1721	167	4100	185	28	0.29	0.30	1254
CKT 1 total losses:		\$0												
SUB 11, CKT 2														
100-2	WCOLUMBIA(100)	0.00	767 3-	BKR-560-VWVE	5125	5480	5544	176	4265	192	29	0.00	0.00	0
22-073	100-2	0.01	767 3-	477ACSR	5110	5441	5510	176	4265	192	29	0.01	0.01	46
22-066	22-073	0.38	742 3-	477ACSR	4709	4779	4645	175	4100	185	28	0.29	0.30	1254
22-043	22-066	1.95	741 3-	4/OACSR	3011	2846	2209	170	4091	185	55	2.51	2.80	12036
22-039	22-043	2.13	734 3-	4/OACSR	2883	2712	2077	169	3949	182	54	0.29	3.09	1359
22-057	22-039	2.20	658 3-	4/OACSR	2838	2666	2033	169	3624	167	49	0.10	3.18	424
22-090	22-057	2.77	654 3-	4/OACSR	2507	2328	1718	167	3396	156	46	0.10	3.93	3076
22-060	22-090	4.08	632 3-	4/OACSR	1970	1798	1264	163	3197	148	44	1.60	5.53	6198
22-087	22-060	4.40	589 3-	4/OACSR	1869	1701	1186	162	2921	137	40	0.37	5.90	1376
22-086	22-087	4.51	579 3-	4/OACSR	1836	1670	1161	161	2845	133	39	0.13	6.03	454
D1015	22-086	4.51	530 3-	REC-70-L	1836	1670	1161	161	2622	123	176	0.00	6.03	0
22-078	D1015	4.73	530 3-	4/OACSR	1776	1612	1115	160	2622	123	36	0.22	6.25	747
22-058	22-078	5.65	523 3-	4/OACSR	1560	1408	957	157	2568	123	36	1.00	7.25	3072
27-001	22-058	6.33	450 3-	4/OACSR	1432	1287	867	155	2206	106	31	0.62	7.88	1619
REG53	27-001	6.33	416 3-	150	1432	1287	867	155	2000	97	65	0.00	7.88	0
27-002	REG53	6.99	385 3-	4/OACSR	1324	1187	793	153	1856	90	27	0.53	8.40	1173
27-003	27-002	8.34	357 3-	1/OACSR	1077	967	640	147	1675	81	36	1.78	10.18	3931
26-005	27-003	10.39	344 3-	1/OACSR	835	758	494	138	1576	78	34	2.50	12.68	5220
26-007	26-005	10.61	185 3-	4ACSR	796	726	475	136	862	43	31	0.37	13.05	468
26-016	26-007	10.69	52 3-	4ACSR	784	717	470	136	284	14	10	0.04	13.09	15
26-011	26-016	11.33	45 3-	4ACSR	691	639	423	131	223	11	8	0.21	13.30	60
D1022	26-011	11.33	27 1-	REC-25-4H	0	0	423	131	117	17	71	0.00	13.30	0
26-010	D1022	12.93	27 1-	4ACSR	0	0	338	121	117	17	13	0.68	13.98	77
D1025	26-010	10.69	5 1-	REC-25-H	0	0	470	136	23	3	14	0.00	13.09	0
26-012	D1025	11.97	5 1-	4ACSR	0	0	385	127	23	3	2	0.11	13.19	2
D1042	26-012	10.61	125 3-	REC-25-4H	796	726	475	136	529	26	107	0.00	13.05	0
26-008	D1042	11.65	125 3-	1/OACSR	716	656	428	132	529	26	12	0.41	13.45	278
26-017	26-008	11.94	99 3-	1/OACSR	697	638	416	131	412	20	9	0.10	13.55	56
D1020	26-017	11.94	36 1-	REC-25-H	0	0	416	131	134	20	82	0.00	13.55	0
26-001	D1020	15.14	36 1-	4ACSR	0	0	278	112	134	20	15	1.56	15.12	201
D1021	26-001	11.94	39 1-	REC-25-H	0	0	416	131	155	23	95	0.00	13.55	0
26-009	D1021	15.23	39 1-	4ACSR	0	0	276	111	155	23	17	1.86	15.41	277
26-004	26-009	13.17	23 1-	4ACSR	0	0	350	123	109	16	12	0.79	14.34	108
26-002	26-004	14.65	13 1-	4ACSR	0	0	293	114	66	10	7	0.36	14.70	23
D1024	26-002	10.39	126 3-	REC-50-H	835	758	494	138	545	27	55	0.00	12.68	0
26-006	D1024	11.46	126 3-	1/OACSR	745	679	442	134	545	27	12	0.43	13.11	303
15-179	26-006	11.67	71 3-	1/OACSR	730	666	433	133	287	14	6	0.05	13.16	20
27-019	15-179	12.24	71 1-	4ACSR	0	0	397	129	287	43	31	1.16	14.32	466
27-017	27-019	13.70	47 1-	4ACSR	0	0	327	120	195	30	21	1.56	15.88	365
27-020	27-017	14.44	2 1-	4ACSR	0	0	300	115	0	0	0	0.00	15.88	0
27-018	27-020	15.41	22 1-	4ACSR	0	0	270	110	92	14	10	0.59	16.46	53
26-015	27-018	14.20	19 1-	4ACSR	0	0	308	117	71	10	8	0.51	14.83	35
26-015	26-015	12.70	36 1-	4ACSR	0	0	368	125	134	20	15	1.12	14.24	206
27-022	26-015	13.90	12 1-	4ACSR	0	0	316	118	44	6	5	0.20	14.43	8



LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
21-024	D1031	6.43	181 3-	4ACSR	1215	1128	748	149	868	41	30	0.52	7.02	628
21-023	21-024	7.58	179 3-	1/OACSR	1020	949	626	143	819	39	17	0.70	7.72	727
21-030	21-023	9.23	125 3-	1/OACSR	828	773	507	137	553	26	12	0.64	8.35	431
D1033	21-030	9.23	74 1-	REC-50-H	0	0	507	137	297	43	87	0.00	8.35	0
21-021	D1033	11.74	74 1-	4ACSR	0	0	342	120	297	43	31	2.61	10.96	711
D1034	21-030	9.23	25 1-	REC-25-H	0	0	507	137	119	17	69	0.00	8.35	0
21-035	D1034	9.64	25 1-	4ACSR	0	0	471	134	119	17	12	0.28	8.63	39
21-035	21-035	10.80	20 1-	4ACSR	0	0	390	126	75	10	8	0.30	8.93	21
D1032	21-023	7.58	38 1-	REC-25-H	0	0	626	143	163	23	95	0.00	7.72	0
21-022	D1032	9.36	38 1-	4ACSR	0	0	441	130	163	23	17	1.01	8.73	151
D1030	21-026	5.99	70 1-	REC-50-L	0	0	850	152	280	40	80	0.00	6.30	0
21-025	D1030	7.91	70 1-	4ACSR	0	0	529	136	280	40	29	3.32	9.62	1172
21-017	21-017	10.91	31 1-	4ACSR	0	0	449	130	217	31	23	1.06	10.68	276
21-019	21-017	9.93	6 1-	4ACSR	0	0	329	117	89	13	9	0.67	11.35	56
D1028	REG52	4.98	19 1-	REC-35-L	0	0	1211	162	34	5	4	0.14	10.82	4
21-039	D1028	5.33	19 1-	6CU	0	0	1063	159	72	10	8	0.13	3.86	11
21-042	21-039	7.01	12 1-	4ACSR	0	0	646	144	40	5	4	0.23	4.09	8
D1027	22-034	3.84	0 3-	Cap (300)	2484	2282	1484	165	0	-14	0	0.00	3.19	0
22-033	22-032	3.66	19 1-	REC-50-L	0	0	1537	166	93	13	26	0.00	3.12	0
D1053	D1027	5.50	19 1-	4ACSR	0	0	768	148	93	13	9	0.57	3.69	47
22-076	22-075	2.64	9 1-	REC-35-L	0	0	1941	169	15	2	6	0.00	2.64	0
D1041	D1053	3.95	9 1-	6CU	0	0	1040	155	15	2	2	0.06	2.70	0
22-025	22-024	2.23	284 3-	REC-100-L	3197	3010	2166	170	1695	78	79	0.00	2.43	0
22-027	D1041	3.44	284 3-	336ACSR	2631	2428	1610	167	1695	78	15	0.50	2.94	927
22-095	22-025	3.67	222 3-	336ACSR	2544	2342	1535	166	1369	63	12	0.08	3.02	126
22-031	22-027	4.06	150 3-	3/OACSR	2333	2135	1394	164	878	40	14	0.17	3.19	175
D1036	22-095	5.16	143 3-	1/OACSR	1780	1592	1043	159	828	38	17	0.60	3.78	574
22-004	22-031	5.84	114 3-	REC-70-L	1780	1592	1043	159	590	27	39	0.00	3.78	0
22-005	D1036	5.84	114 3-	1/OACSR	1540	1377	899	155	590	27	12	0.25	4.03	164
22-003	22-004	7.32	35 3-	4ACSR	0	0	661	145	157	22	16	0.59	4.62	82
22-029	22-027	4.01	62 3-	1/OACSR	1185	1073	692	148	196	9	4	0.11	4.14	19
22-022	22-029	5.52	47 3-	3/OACSR	2355	2156	1408	165	412	19	6	0.07	3.09	34
22-994	22-022	5.52	0 3-	3/OACSR	1762	1589	1032	159	298	13	5	0.12	3.21	32
22-993	22-022	5.52	1 3-	Consumer	1762	1589	1032	159	0	0	0	0.00	3.21	0
22-988	22-022	5.52	1 1-	Consumer	1762	1589	1032	159	0	0	0	0.00	3.21	0
D1035	22-029	4.01	12 1-	REC-25-L	0	0	1032	159	29	4	0	0.00	3.21	0
22-030	D1035	5.84	12 1-	4ACSR	0	0	1408	165	91	12	51	0.00	3.09	0
22-026	22-025	3.78	12 1-	4ACSR	0	0	735	147	91	12	9	0.56	3.64	44
CKT 3 total losses:		\$28,192					1365	163	68	9	7	0.08	3.01	5
SUB 11, CKT 4														
100-4	WOLUMBIA(100)	0.00	86 3-	BKR-560-VWVE	5125	5480	5544	176	2273	103	0	0.00	0.00	0
22-072	100-4	0.38	86 3-	336ACSR	4675	4732	4453	175	2273	103	19	0.22	0.22	569
22-065	22-072	0.87	66 3-	336ACSR	4178	4116	3500	174	2145	97	18	0.27	0.49	630
22-023	22-065	2.24	57 3-	1/OACSR	2537	2311	1737	166	454	20	9	0.27	0.76	109
22-987	22-023	2.24	1 1-	Consumer	0	0	1737	166	39	5	0	0.00	0.76	0
22-995	22-023	2.24	1 3-	Consumer	2537	2311	1737	166	27	1	0	0.00	0.76	0
22-972	22-065	0.87	1 3-	Consumer	4178	4116	3500	174	1544	70	0	0.00	0.49	0
22-059	22-072	0.66	19 1-	4ACSR	0	0	3312	172	113	15	11	0.16	0.38	20
22-042	22-059	1.87	10 1-	4ACSR	0	0	1354	159	64	8	6	0.25	0.64	14
CKT 4 total losses:		\$1,342												

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-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 CRESTON(110)			1994		4969	5357	5405	176	11938					
SUB 12, CKT 1														
110-1	CRESTON(110)	0.00	688 3-	BKR-560-VWVE	4969	5357	5405	176	4162	185	0	0.00	0.00	0
10-119	110-1	0.83	688 3-	336ACSR	4107	4054	3508	174	4162	185 35	0.73	0.73	3783	
10-037	10-119	2.11	632 3-	336ACSR	3197	3019	2218	170	3854	172 33	0.99	1.72	4848	
10-990	10-037	2.11	1 3-	Consumer	3197	3019	2218	170	43	1	0	0.00	1.72	0
10-991	10-037	2.11	1 1-	Consumer	0	0	2218	170	75	10	0	0.00	1.72	0
10-036	10-037	3.34	255 3-	1/0ACSR	2192	1981	1396	163	1588	71 31	1.16	2.88	2406	
D1119	10-036	3.34	217 3-	REC-70-L	2192	1981	1396	163	1279	58 83	0.00	2.88	0	
10-056	D1119	3.52	217 3-	1/0ACSR	2087	1879	1321	162	1279	58 25	0.14	3.03	252	
10-035	10-056	4.40	192 3-	1/0ACSR	1691	1526	1050	158	1118	51 22	0.58	3.61	934	
10-016	10-035	4.83	150 3-	1/0ACSR	1546	1400	954	156	868	40 17	0.20	3.81	271	
10-019	10-016	6.65	111 3-	1/0ACSR	1123	1028	685	147	621	29 13	0.44	4.25	508	
CAP43	10-019	6.65	0 3-	Cap (300)	1123	1028	685	147	0	-13	0	0.00	4.25	0
D1104	10-019	6.65	19 1-	REC-50-H	0	0	685	147	108	15 30	0.00	4.25	0	
10-010	D1104	6.94	19 1-	4ACSR	0	0	639	145	108	15 11	0.18	4.43	24	
10-009	10-010	8.08	14 1-	4ACSR	0	0	503	136	81	11 8	0.31	4.73	22	
D1105	10-009	6.65	48 1-	REC-35-H	0	0	685	147	240	33 96	0.00	4.25	0	
10-011	D1105	7.09	48 1-	4ACSR	0	0	617	143	240	33 24	0.54	4.79	148	
10-012	10-011	8.61	31 1-	4ACSR	0	0	458	132	132	18 13	0.67	5.46	79	
D1103	10-012	4.83	26 1-	REC-25-4H	0	0	954	156	107	14 60	0.00	3.81	0	
10-018	D1103	6.30	26 1-	6CU	0	0	635	143	107	14 12	0.51	4.32	48	
D1102	10-018	4.40	23 1-	REC-25-H	0	0	1050	158	113	15 63	0.00	3.61	0	
10-034	D1102	6.36	23 1-	4ACSR	0	0	597	140	113	15 11	0.74	4.34	73	
D1101	10-034	2.11	292 3-	REC-70-L	3197	3019	2218	170	1655	74 107	0.00	1.72	0	
10-038	D1101	3.16	292 3-	4ACSR	1812	1693	1238	159	1655	74 53	2.78	4.50	6167	
10-102	10-038	3.60	274 3-	4ACSR	1483	1407	1029	155	1485	69 50	1.17	5.67	2383	
10-052	10-102	3.75	245 3-	4ACSR	1396	1330	973	155	1298	61 44	0.34	6.01	613	
10-040	10-052	4.04	204 3-	4ACSR	1252	1201	880	151	1087	51 37	0.56	6.58	857	
10-041	10-040	4.39	32 3-	4ACSR	1109	1070	787	148	216	10 7	0.10	6.68	25	
10-988	10-041	4.39	1 3-	Consumer	1109	1070	787	148	34	1 0	0.00	6.68	0	
11-028	10-988	4.65	11 1-	4ACSR	0	0	731	145	63	9 6	0.05	6.73	3	
10-109	10-109	4.42	162 3-	3/0ACSR	1196	1144	832	150	841	40 13	0.15	6.73	154	
D1107	10-109	4.42	154 3-	REC-35-4H	1196	1144	832	150	723	34 99	0.00	6.73	0	
10-133	D1107	4.87	154 3-	3/0ACSR	1134	1082	780	148	723	34 12	0.16	6.89	148	
10-014	10-133	6.28	145 3-	1/0ACSR	928	883	623	142	681	32 14	0.44	7.33	291	
10-013	10-014	7.41	22 1-	4ACSR	0	0	492	133	123	17 13	0.47	7.81	53	
D1106	10-013	3.75	31 1-	REC-25-H	0	0	973	153	132	18 76	0.00	6.01	0	
10-015	D1106	5.21	31 1-	6CU	0	0	635	141	132	18 16	0.64	6.66	77	
10-987	10-015	5.21	0 1-	Consumer	0	0	635	141	0	0	0	0.00	6.66	0
10-042	10-042	4.78	21 3-	4/0ACSR	1290	1214	861	151	114	5 2	0.03	5.70	3	
C205	10-038	3.16	0 3-	Cap (300)	1812	1693	1238	159	0	-13	0	0.00	4.50	0
CKT 1 total losses:	\$24,170													
SUB 12, CKT 2														
110-2	CRESTON(110)	0.00	349 3-	BKR-560-VWVE	4969	5357	5405	176	2028	90	0	0.00	0.00	0
10-051	110-2	0.85	349 3-	336ACSR	4091	4035	3480	174	2028	90 17	0.35	0.35	898	
10-045	10-051	1.82	321 3-	4ACSR	2170	2058	1627	163	1836	81 58	2.77	3.12	6564	
10-136	10-045	1.93	267 3-	1/0ACSR	2103	1992	1564	162	1456	66 29	0.10	3.22	206	
10-989	10-136	1.93	0 1-	Consumer	0	0	1564	162	0	0	0	0.00	3.22	0
14-079	10-136	2.68	47 3-	2CU	1749	1654	1267	159	360	16 8	0.17	3.39	70	
D1109	14-079	2.68	36 3-	REC-70-L	1749	1654	1267	159	248	11 16	0.00	3.39	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
10-006	10-023	9.26	14 1-	4ACSR	0	0	375	122	73	10	8	0.42	7.30	28
10-007	10-023	9.76	28 1-	4ACSR	0	0	349	119	89	12	9	0.66	7.55	53
D1126	10-021	6.07	18 1-	REC-35-H	0	0	690	145	67	9	27	0.00	4.74	0
D1127	D1126	7.91	18 1-	4ACSR	0	0	465	131	67	9	7	0.41	5.16	25
D1127	10-027	6.01	18 1-	REC-25-H	0	0	702	146	97	13	55	0.00	4.60	0
10-020	D1127	7.58	18 1-	4ACSR	0	0	494	133	97	13	10	0.51	5.12	44
C206	10-126	4.81	0 3-	Cap (300)	1647	1504	1017	156	0	-14	0	0.00	3.41	0
D1113	10-127	3.82	55 1-	REC-35-L	0	0	1479	165	232	32	92	0.00	2.49	0
10-029	D1113	5.01	55 1-	4ACSR	0	0	918	153	232	32	23	1.53	4.03	418
10-030	10-029	6.35	10 1-	4ACSR	0	0	629	142	76	10	8	0.34	4.37	23
09-030	10-029	7.14	27 1-	4ACSR	0	0	529	172	81	11	8	0.57	4.60	41
D1111	10-047	1.35	515 3-	REC-50-L	3684	3556	2840	136	2817	127	85	0.00	1.60	0
10-048	D1111	2.82	515 3-	336ACSR	2841	2646	1839	168	2817	127	24	0.94	2.54	3158
10-049	10-048	3.72	482 3-	336ACSR	2483	2285	1507	166	2584	117	22	0.53	3.07	1689
10-132	10-049	4.83	462 3-	336ACSR	2147	1956	1233	163	2435	111	21	0.61	3.68	1866
17-001	10-132	6.96	375 3-	336ACSR	1700	1531	913	157	1928	88	17	0.90	4.58	2245
16-007	17-001	9.07	33 1-	6CU	0	0	546	139	111	15	13	0.77	5.35	76
16-006	17-001	8.52	317 3-	336ACSR	1473	1320	767	153	1699	78	15	0.53	5.11	1172
REG84	16-006	8.52	272 3-	150	1473	1320	767	153	1416	65	44	0.00	5.11	0
D827	REG84	8.52	272 3-	REC-35-H	1473	1320	767	153	1416	65	62	0.00	5.11	0
15-133	D827	8.84	9 1-	4ACSR	0	0	707	150	49	6	5	0.05	5.16	2
D842	15-133	8.84	0 1-	REC-25-H	0	0	707	150	0	0	0	0.00	5.16	0
16-039	D827	9.16	263 3-	336ACSR	1396	1249	719	152	1367	63	12	0.18	5.29	355
16-032	16-039	10.65	255 3-	4ACSR	924	846	522	139	1322	61	44	3.15	8.44	5688
D841	16-032	10.65	38 1-	REC-25-H	0	0	522	139	150	21	88	0.00	8.44	0
16-005	D841	14.02	38 1-	4ACSR	0	0	315	117	150	21	16	1.75	10.19	242
16-003	16-032	11.39	180 3-	1/0ACSR	846	776	481	136	959	45	20	0.46	8.90	700
D824	16-003	11.39	180 3-	REC-50-H	846	776	481	136	955	46	93	0.00	8.90	0
16-061	D824	11.61	179 3-	Consumer	0	0	481	136	33	4	0	0.00	8.90	0
16-002	16-061	13.53	161 3-	1/0ACSR	825	757	469	135	922	44	20	0.14	9.05	167
16-001	16-002	14.69	49 1-	4ACSR	678	625	389	128	719	35	15	0.73	9.78	557
D806	16-001	14.69	38 1-	REC-25-H	0	0	334	121	243	35	26	1.69	11.47	517
16-010	D806	16.22	38 1-	4ACSR	0	0	280	112	169	25	101	0.00	11.47	0
CAP42	16-003	11.39	0 3-	Cap (300)	846	776	481	136	0	-13	0	0.00	12.39	147
REG85	10-132	4.83	75 1-	100	0	0	1233	163	380	53	53	0.00	3.68	0
17-002	REG85	7.00	75 1-	6CU	0	0	637	143	380	53	44	4.67	8.35	2145
D1129	17-002	7.00	56 1-	REC-25-H	0	0	637	143	269	39	156	0.00	8.35	0
15-068	D1129	8.18	56 1-	6CU	0	0	498	134	269	39	33	1.92	10.27	661
17-037	15-068	9.19	19 1-	6CU	0	0	419	127	133	19	16	0.63	10.90	93
17-022	17-037	9.87	8 1-	4ACSR	0	0	378	123	49	7	5	0.12	11.02	5
17-039	15-068	8.18	22 1-	Node	0	0	498	134	75	11	0	0.00	10.27	0
D1128	17-039	8.18	21 1-	REC-35-L	0	0	498	134	75	11	32	0.00	10.27	0
15-069	D1128	8.74	21 1-	4ACSR	0	0	450	130	75	11	8	0.15	10.42	10
CKT	3 total losses:	\$40,225												
SUB	12 total losses:	\$74,867												

KENTUCKY 23 TAYLOR - CAMPBELLSVILLE, KENTUCKY  
 FUTURE WINTER 2013/14 SYSTEM AFTER IMPROVEMENTS

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 FUTURE WINTER 2013/14 SYSTEM AFTER IMPROVEMENTS

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
03-051	D1222	6.84	59 1-	4ACSR	0	0	507	134	203	28 21	21	2.24	7.47	407
D1223	08-118	3.30	83 1-	REC-50-L	0	0	1426	164	349	49 99	99	0.00	4.69	0
08-027	D1223	5.95	83 1-	4ACSR	0	0	596	140	349	49 35	35	3.14	7.83	977
08-018	C174	3.14	0 3-	Cap (300)	2283	2081	1502	165	0	-13	0	0.00	4.35	0
08-017	14-940	3.15	17 3-	1/0ACSR	2277	2075	1498	165	194	9 4	4	0.02	3.81	4
08-904	08-023	1.24	1 3-	Consumer	3632	3481	2849	172	250	11 0	0	0.00	1.96	0
CKT 1 total losses: \$41,477														
SUB 13, CKT 2														
120-2	ECAMPBELLS(120)	0.00	335 3-	BKR-560-VWVE	5493	5723	5784	176	1733	78 0	0	0.00	0.00	0
119035	120-2	0.02	335 3-	500WCM	5467	5678	5757	467	1733	78 17	17	0.01	0.01	20
08-117	119035	0.24	335 3-	477ACSR	5190	5271	5168	176	1733	78 12	12	0.08	0.09	136
08-036	08-117	0.47	335 3-	3/0ACSR	4750	4764	4392	175	1732	78 26	26	0.20	0.29	414
08-035	08-036	0.64	8 3-	336ACSR	4567	4539	4034	174	49	2 0	0	0.00	0.29	0
08-034	08-036	1.35	327 3-	1/0CU	3609	3453	2779	171	1680	76 25	25	0.63	0.92	1193
08-033	08-034	2.07	246 3-	1/0CU	2969	2773	2108	168	1283	58 19	19	0.39	1.31	561
08-107	08-033	2.22	198 3-	1/0CU	2859	2660	2005	168	953	43 14	14	0.07	1.38	81
08-029	08-107	3.85	36 3-	3/0ACSR	1973	1788	1282	162	222	10 3	3	0.10	1.48	18
09-004	08-029	4.46	4 3-	3/0ACSR	1764	1589	1127	159	18	0 0	0	0.00	1.48	0
08-030	08-107	2.69	159 3-	3/0ACSR	2533	2333	1724	166	717	33 11	11	0.17	1.55	140
08-031	08-030	3.35	156 3-	3/0ACSR	2182	1989	1442	164	681	31 10	10	0.21	1.76	164
D1216	08-031	3.35	143 3-	REC-70-L	2182	1989	1442	164	589	27 39	39	0.00	1.76	0
09-020	D1216	5.15	143 3-	3/0ACSR	1573	1410	992	157	589	27 9	9	0.44	2.20	269
09-999	09-020	5.40	61 3-	Consumer	1514	1358	951	156	220	10 3	3	0.01	2.21	2
D1217	09-021	5.15	40 1-	REC-50-H	0	0	992	157	144	20 40	40	0.00	2.20	0
09-022	D1217	6.56	40 1-	4ACSR	0	0	658	144	144	20 14	14	1.05	3.25	169
09-023	09-022	7.57	13 1-	4ACSR	0	0	527	136	79	11 8	8	0.27	3.52	19
CKT 2 total losses: \$3,186														
SUB 13, CKT 3														
120-3	ECAMPBELLS(120)	0.00	460 3-	BKR-560-VWVE	5493	5723	5784	176	2390	106 0	0	0.00	0.00	0
08-142	120-3	0.22	460 3-	4/0ACSR	5082	5147	4953	175	2390	106 31	31	0.19	0.19	551
08-917	08-142	0.22	1 3-	Consumer	5082	5147	4953	175	0	0 0	0	0.00	0.19	0
08-038	08-142	0.42	455 3-	336ACSR	4833	4845	4423	175	2348	104 20	20	0.11	0.29	303
08-039	14-072	0.83	34 1-	4ACSR	0	0	2863	170	95	13 9	9	0.13	0.42	11
14-071	14-072	0.88	383 3-	3/0ACSR	4082	3973	3343	173	2145	95 32	32	0.43	0.73	1167
08-043	08-039	0.91	18 3-	3/0ACSR	4042	3927	3292	173	66	3 1	1	0.00	0.73	0
08-045	08-043	1.52	335 3-	3/0ACSR	3323	3143	2475	170	1968	88 29	29	0.53	1.25	1318
08-138	08-045	2.84	264 3-	1/0ACSR	2196	1980	1464	164	1638	73 32	32	1.28	2.53	2672
08-158	08-138	2.90	185 3-	1/0ACSR	2169	1957	1443	163	1336	61 27	27	0.04	2.57	73
08-078	08-158	3.33	155 3-	1/0ACSR	2134	1926	1416	163	1238	57 25	25	0.06	2.63	88
08-918	08-078	3.33	113 3-	2ACSR	1841	1681	1218	160	703	32 18	18	0.33	2.96	294
08-124	08-918	3.77	1 1-	Consumer	0	0	1218	160	5	0 0	0	0.00	2.96	0
08-162	08-124	4.07	4 3-	4ACSR	1523	1417	1022	156	28	1 1	1	0.01	2.97	0
08-919	08-162	4.07	56 3-	2ACSR	1790	1638	1185	159	263	12 7	7	0.03	2.98	9
D1230	08-162	4.07	19 3-	2ACSR	1475	1366	979	155	88	4 2	2	0.03	3.02	3
08-170	08-124	3.42	37 1-	Consumer	0	0	979	155	0	0 0	0	0.00	3.02	0
08-163	08-124	3.85	37 1-	REC-35-4H	0	0	1185	159	174	24 70	70	0.00	2.98	0
08-161	D1230	4.58	31 1-	6CU	0	0	1004	155	174	24 20	20	0.45	3.43	97
	08-170	4.58	31 1-	4ACSR	0	0	788	148	144	20 14	14	0.35	3.79	45
	08-078	3.49	25 3-	6CU	1719	1581	1142	158	314	14 12	12	0.08	3.04	36

LINE SECT	PRIOR SECT	MILES	PHS	CONSTR-N	WIRE	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	GARLIN	0.00	137 3-	DefaultBayEqui		5006	5364	5418	176	11924					
SUB 15, CKT 1															
15-1	GARLIN	0.00	137 3-	DefaultBayEqui		5006	5364	5418	176	1034	47	0	0.00	0.00	0
22-101	15-1	1.21	137 3-	3/OACSR		3322	3190	2671	171	1034	47	16	0.53	0.53	569
22-074	22-101	1.30	108 2-	4ACSR		0	2974	2479	170	688	47	34	0.19	0.71	165
D611	22-074	1.30	31 1-	REC-50-L		0	0	2479	170	251	34	69	0.00	0.71	0
22-102	D611	1.87	31 1-	4ACSR		0	0	1670	164	251	34	25	0.48	1.19	103
D610	22-074	1.30	74 1-	REC-50-L		0	0	2479	170	395	54	109	0.00	0.71	0
22-103	D610	1.85	74 1-	4ACSR		0	0	1695	164	395	54	39	0.72	1.43	244
CKT 1		\$1,081													
SUB 15, CKT 2															
15-2	GARLIN	0.00	1 3-	DefaultBayEqui		5006	5364	5418	176	5	0	0	0.00	0.00	0
22-107	15-2	0.14	1 3-	336ACSR		4836	4941	4977	176	5	0	0	0.00	0.00	0
22-067	22-107	0.18	1 3-	336ACSR		4791	4889	4867	175	5	0	0	0.00	0.00	0
23-054	22-067	1.67	0 3-	397ACSR		3537	3419	2816	172	0	0	0	0.00	0.00	0
CKT 2		\$0													
SUB 15, CKT 3															
15-3	GARLIN	0.00	708 3-	DefaultBayEqui		5006	5364	5418	176	4892	222	0	0.00	0.00	0
22-108	15-3	0.36	708 3-	336ACSR		4596	4652	4416	175	4892	222	42	0.45	0.45	2497
D601	22-108	0.36	707 3-	ER3-WVE		4596	4652	4416	175	4861	221	0	0.00	0.45	0
22-012	D601	1.48	699 3-	336ACSR		3617	3477	2719	172	4789	218	41	1.36	1.81	7240
23-052	22-012	1.66	612 3-	336ACSR		3496	3341	2560	171	4129	189	36	0.19	2.00	892
23-045	23-052	3.68	608 3-	336ACSR		2510	2311	1522	166	4074	187	35	2.09	4.09	9827
R112	23-045	3.68	602 3-	219		2510	2311	1522	166	3916	182	83	0.00	4.09	0
23-047	R112	4.19	29 3-	1/OACSR		2196	1985	1303	163	204	9	4	0.04	4.13	7
16-036	R112	3.83	573 3-	336ACSR		2458	2260	1477	165	3712	172	33	0.14	4.23	611
16-990	16-036	3.83	1 1-	Consumer		0	0	1477	165	3	0	0	0.00	4.23	0
16-038	16-036	4.92	507 3-	336ACSR		2132	1941	1216	163	3267	152	29	0.87	5.10	3368
16-024	16-038	5.37	466 3-	1/OACSR		1915	1727	1086	160	3019	144	63	1.04	6.14	3974
16-025	16-024	5.54	411 3-	1/OACSR		1844	1659	1045	159	2595	124	54	0.34	6.48	1149
16-993	16-025	6.57	356 3-	1/OACSR		1488	1324	843	154	2214	106	46	1.67	8.15	4602
16-023	16-024	7.21	89 2-	Consumer		0	0	843	154	0	0	0	0.00	8.15	0
D608	16-023	7.21	75 1-	1/OACSR		0	1180	752	151	508	37	16	0.44	8.59	265
16-018	D608	9.94	35 1-	REC-50-4H		0	0	752	151	390	57	115	0.00	8.59	0
16-017	16-018	11.42	12 1-	6CU		0	0	433	130	186	27	23	2.58	11.17	545
D607	D608	9.18	40 1-	4ACSR		0	0	348	120	85	12	9	0.45	11.62	36
16-031	D607	7.88	216 3-	4ACSR		1488	1324	843	154	204	29	21	1.42	10.01	266
16-022	16-031	9.51	157 3-	REC-70-L		1187	1068	676	148	1301	63	91	0.00	8.15	0
15-065	16-022	9.90	49 1-	Consumer		1187	1068	676	148	1301	63	28	1.18	9.33	1867
D690	15-065	9.90	34 1-	1/OACSR		944	858	541	141	879	43	19	0.97	10.30	1022
16-020	D690	10.43	34 1-	4ACSR		0	0	503	138	347	51	37	0.80	11.11	344
17-024	16-020	11.26	30 1-	REC-50-4H		0	0	458	134	222	33	67	0.00	11.11	0
D681	16-022	9.51	57 1-	4ACSR		0	0	402	128	222	33	24	0.76	11.87	222
16-021	D681	11.32	57 1-	REC-50-H		0	0	541	141	231	34	25	1.50	10.30	0
16-040	16-021	5.54	53 1-	4ACSR		0	0	398	128	231	34	25	1.50	11.81	324
D631	16-025	6.41	53 1-	REC-35-H		0	0	1045	159	354	51	146	0.00	6.48	0
16-041	D631	6.41	53 1-	4ACSR		0	0	793	151	354	51	37	1.69	8.16	693
16-041	16-040	7.10	27 1-	6CU		0	0	663	145	199	29	24	0.74	8.91	175

LINE SECT	PRIOR SECT	MILES	PHS CONS	WIRE CONSTR-N	MX 3P FAULT	MX LLG FAULT	MX LG FAULT	MN LG FAULT	TOTAL KW	EQUIV AMPS	% CAP	LINE DROP	TOTAL DROP	LINE LOSS
23-015	D686	5.55	42 1-	6CU	0	0	704	146	245	35	30	1.37	9.29	447
23-050	23-015	6.84	37 1-	4ACSR	0	0	524	136	219	32	23	1.01	10.30	205
D613	23-017	4.69	126 3-	REC-50-H	1388	1271	896	154	758	36	74	0.00	7.91	0
23-016	D613	5.88	126 3-	1/0ACSR	1138	1047	723	148	758	36	16	0.72	8.64	731
23-014	23-016	6.94	21 1-	4ACSR	0	0	563	140	133	19	14	0.50	9.14	61
23-010	23-016	6.60	105 3-	1/0ACSR	1023	944	646	145	621	30	13	0.33	8.97	263
23-011	23-010	8.37	95 3-	1/0ACSR	821	761	513	138	516	25	11	0.63	9.60	393
23-013	23-011	10.59	52 1-	4ACSR	0	0	360	122	271	40	29	2.15	11.75	540
23-012	23-011	9.84	18 1-	4ACSR	0	0	400	127	85	12	9	0.45	10.05	35
D644	23-019	4.29	106 3-	REC-35-H	1501	1371	977	156	659	32	91	0.00	7.58	0
23-018	D644	5.38	106 3-	1/0ACSR	1231	1130	786	151	659	32	14	0.38	7.95	255
23-051	23-018	6.92	41 1-	6CU	0	0	547	138	201	29	25	1.37	9.32	287
23-029	23-051	8.67	6 1-	4ACSR	0	0	401	126	56	8	6	0.35	9.67	18
CAP28	23-019	4.29	0 3-	Cap (300)	1501	1371	977	156	0	-13	0	0.00	7.58	0
D609	REG86	3.59	34 1-	REC-25-L	0	0	1152	159	239	34	138	0.00	6.66	0
23-007	D609	4.63	34 1-	4ACSR	0	0	804	150	239	34	25	1.16	7.82	294
23-008	23-007	5.86	11 1-	4ACSR	0	0	585	139	82	11	9	0.35	8.18	26
D685	REG86	3.59	33 1-	REC-25-4H	0	0	1152	159	258	37	149	0.00	6.66	0
23-020	D685	5.44	33 1-	4ACSR	0	0	645	143	258	37	27	2.90	9.56	927
23-022	23-020	6.09	24 1-	4ACSR	0	0	557	138	187	27	20	0.66	10.22	145
23-021	23-022	7.53	15 1-	4ACSR	0	0	426	127	99	14	11	0.51	10.73	47
23-004	23-046	2.81	93 3-	3/0ACSR	2247	2068	1559	165	602	28	9	0.17	3.35	82
CAP63	23-002	1.65	0 3-	Cap (300)	2985	2822	2263	170	0	-14	0	0.00	3.05	0
D688	23-001	1.28	60 1-	REC-50-L	0	0	2635	171	394	55	110	0.00	2.47	0
23-023	D688	1.94	60 1-	6CU	0	0	1673	164	394	55	46	1.17	3.64	476
23-049	23-023	2.98	20 1-	4ACSR	0	0	1016	154	140	19	14	0.49	4.13	61
CKT	5 total losses:	\$36,918												
SUB	15 total losses:	\$81,919												
	Total System Losses:	\$954,010												

**CASE NO:**

**CONTAINS  
LARGE OR OVERSIZED  
MAP(S)**

**RECEIVED ON:**