



April 30, 2009

Mr. Jeff Derouen
Kentucky Public Service Commission
211 Sower Boulevard
Frankfort, Kentucky 40602

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APR 30 2009

**PUBLIC SERVICE
COMMISSION**

Dear Mr. Derouen:

Please find enclosed for filing the following documents for East Kentucky Power Cooperative, Inc. ("EKPC"): (1) A revised 2007 Annual Report; (2) The 2008 Annual Report; and (3) Updated Information to be Filed Annually as a Supplement to the Annual Report regarding the Closed Administrative Case No. 387. The necessity of the 2007 revision is discussed below.

A prior period adjustment was made for the year ended December 31, 2007 to correct an error for a regulatory asset and regulatory liability which were previously unrecorded. The regulatory asset resulted from an under recovery of EKPC's fuel adjustment clause mechanism; the regulatory liability resulted from an over recovery of EKPC's environmental surcharge mechanism. Accordingly, a restatement adjustment totaling \$1,090,000 was recorded to patronage capital as of January 1, 2007. Consequently, the pages indicated below on the 2007 Annual report have been revised:

- Report of Gross Operating Revenues Derived from Intra-Kentucky Business
- Reconciliation of Gross Revenues and Gross KY Operating Revenues
- Ref. Page 110, Balance Sheet - Assets
- Ref. Page 112, Balance Sheet - Liabilities and Other Credits
- Ref. Pages 114-117, Statement of Income
- Ref. Page 120, Statement of Cash Flows
- Ref. Page 122, Statement of Accumulated Comprehensive Income
- Ref. Page 232, Other Regulatory Assets (182.3)
- Ref. Page 278, Other Regulatory Liabilities (254)
- Ref. Page 300, Electric Operating Revenues

If you have any questions or need additional information, please call me at (859) 745-9670.

Sincerely,

A handwritten signature in black ink that reads 'Ann F. Wood'.

Ann F. Wood
Manager, Regulatory Services

Enclosures

c: Jeff D. Cline, Annual Report Branch

4775 Lexington Road 40391
P.O. Box 707, Winchester,
Kentucky 40392-0707

Tel. (859) 744-4812
Fax: (859) 744-6008
<http://www.ekpc.coop>

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APR 30 2009

**PUBLIC SERVICE
COMMISSION**

EAST KENTUCKY POWER COOPERATIVE, INC.

**UPDATED INFORMATION TO BE FILED ANNUALLY AS SUPPLEMENT TO THE
ANNUAL REPORT**

AS ORDERED on October 7, 2005 in the CLOSED PSC ADMINISTRATIVE CASE 387

PUBLIC SERVICE COMMISSION'S REQUEST DATED 12/20/01

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

**A REVIEW OF THE ADEQUACY OF
KENTUCKY'S GENERATION
CAPACITY AND TRANSMISSION
SYSTEM**

) **ADMINISTRATIVE**
) **CASE NO. 387**
)
)

EAST KENTUCKY POWER COOPERATIVE, INC.

PSC ADMINISTRATIVE CASE 387

PUBLIC SERVICE COMMISSION'S REQUEST DATED 12/20/01

East Kentucky Power Cooperative, Inc. (EKPC) hereby submits responses to the information requests contained in Appendix G to the Order of the Public Service Commission ("PSC") in this case dated December 20, 2001, as subsequently revised by Orders dated March 29, 2004 and October 7, 2005. Each response with its associated supportive reference materials is individually tabbed.

**EAST KENTUCKY POWER COOPERATIVE, INC.
PSC ADMINISTRATIVE CASE NO. 387
ANNUAL RESOURCE ASSESSMENT FILING**

PUBLIC SERVICE COMMISSION REQUEST DATED 12/20/01

REQUEST 1

RESPONSIBLE PERSON: David G. Eames

COMPANY: East Kentucky Power Cooperative, Inc.

Request 1. This request has been eliminated as a result of the Order issued by the Commission in March 2004 pertaining to this case.

**EAST KENTUCKY POWER COOPERATIVE, INC.
PSC ADMINISTRATIVE CASE NO. 387
ANNUAL RESOURCE ASSESSMENT FILING**

PUBLIC SERVICE COMMISSION REQUEST DATED 12/20/01

REQUEST 2

RESPONSIBLE PERSON: David G. Eames

COMPANY: East Kentucky Power Cooperative, Inc.

Request 2. This request has been eliminated as a result of the Order issued by the Commission in March 2004 pertaining to this case.

EAST KENTUCKY POWER COOPERATIVE, INC.
PSC ADMINISTRATIVE CASE NO. 387
ANNUAL RESOURCE ASSESSMENT FILING

PUBLIC SERVICE COMMISSION REQUEST DATED 12/20/01

REQUEST 3

RESPONSIBLE PERSON: James C. Lamb, Jr.

COMPANY: East Kentucky Power Cooperative, Inc.

Request 3. Actual and weather-normalized coincident peak demands for the just completed calendar year. Demands should be disaggregated into (a) native load demand (firm and non-firm) and (b) off-system demand (firm and non-firm).

Response 3a.

Monthly Native Load Peak Demands for 2008

	Actual (Firm and Non-Firm) (MW)	Weather Adjusted (Firm and Non-Firm) (MW)
January	3,051	3,163
February	2,618	2,707
March	2,305	2,277
April	1,991	2,037
May	1,688	1,683
June	2,192	2,133
July	2,243	2,172
August	2,150	2,133
September	2,050	2,009
October	1,795	1,762
November	2,419	2,341
December	2,841	2,772

Response 3b. EKPC had no off-system demand obligations during the calendar year 2008.

**EAST KENTUCKY POWER COOPERATIVE, INC.
PSC ADMINISTRATIVE CASE NO. 387
ANNUAL RESOURCE ASSESSMENT FILING**

PUBLIC SERVICE COMMISSION REQUEST DATED 12/20/01

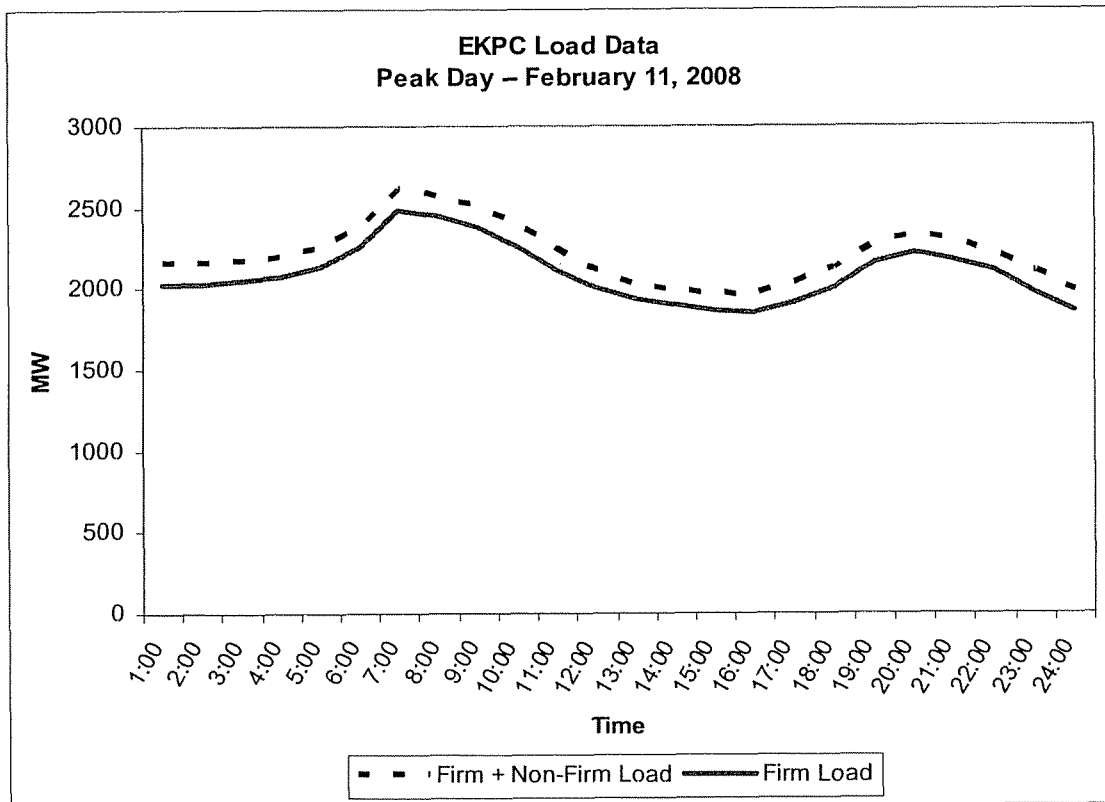
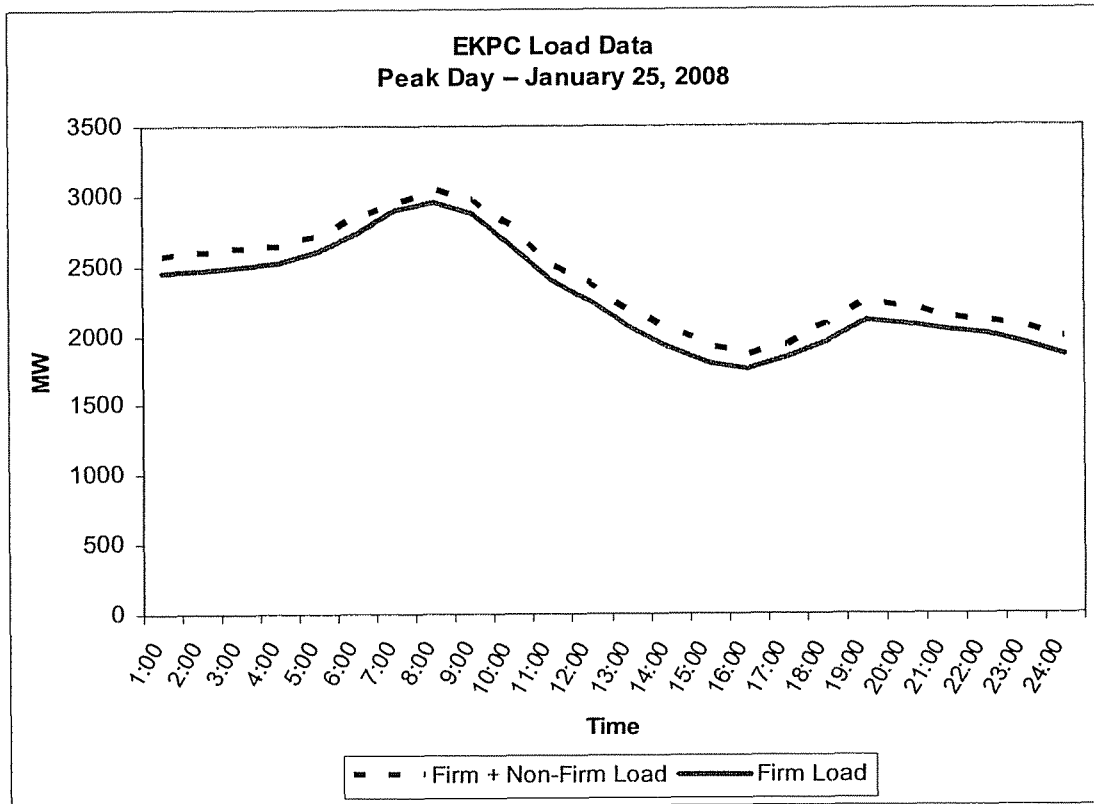
REQUEST 4

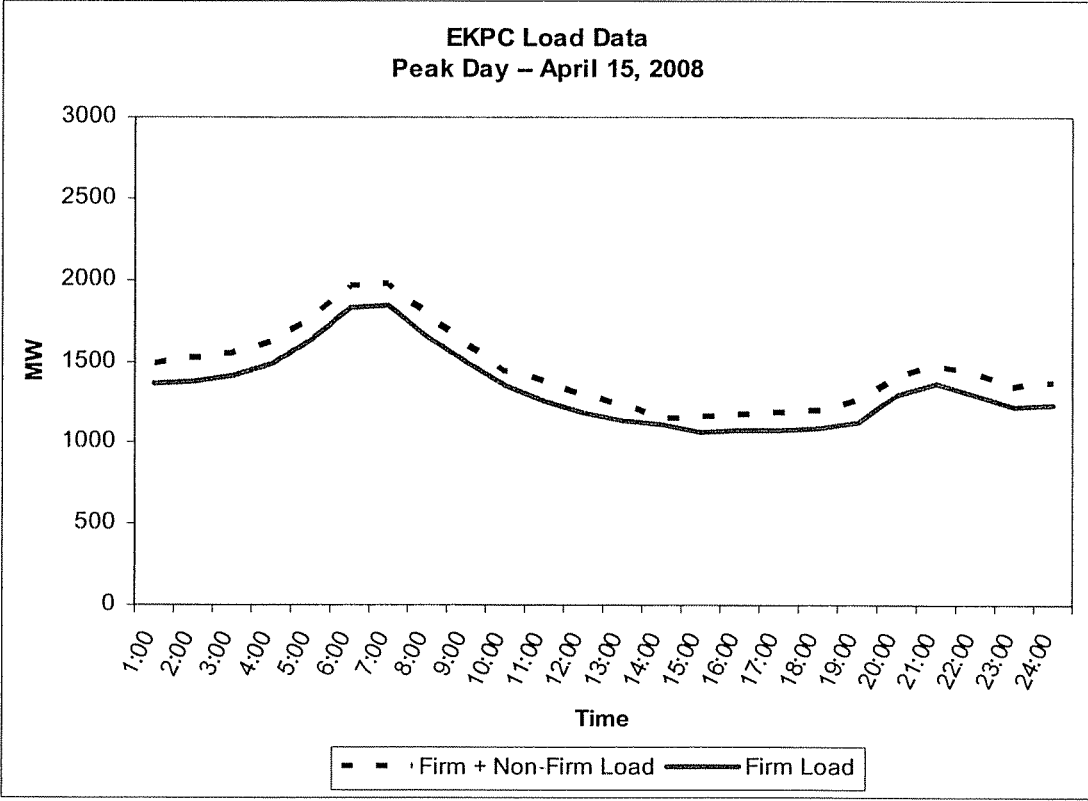
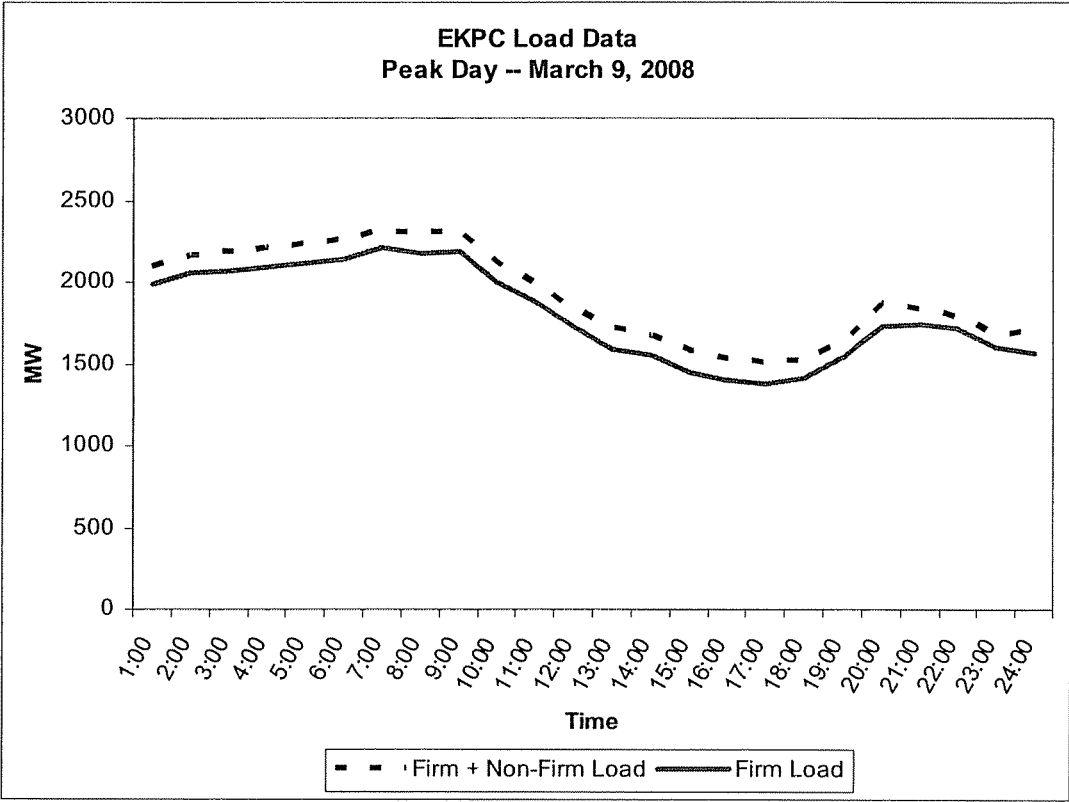
RESPONSIBLE PERSON: James C. Lamb, Jr.

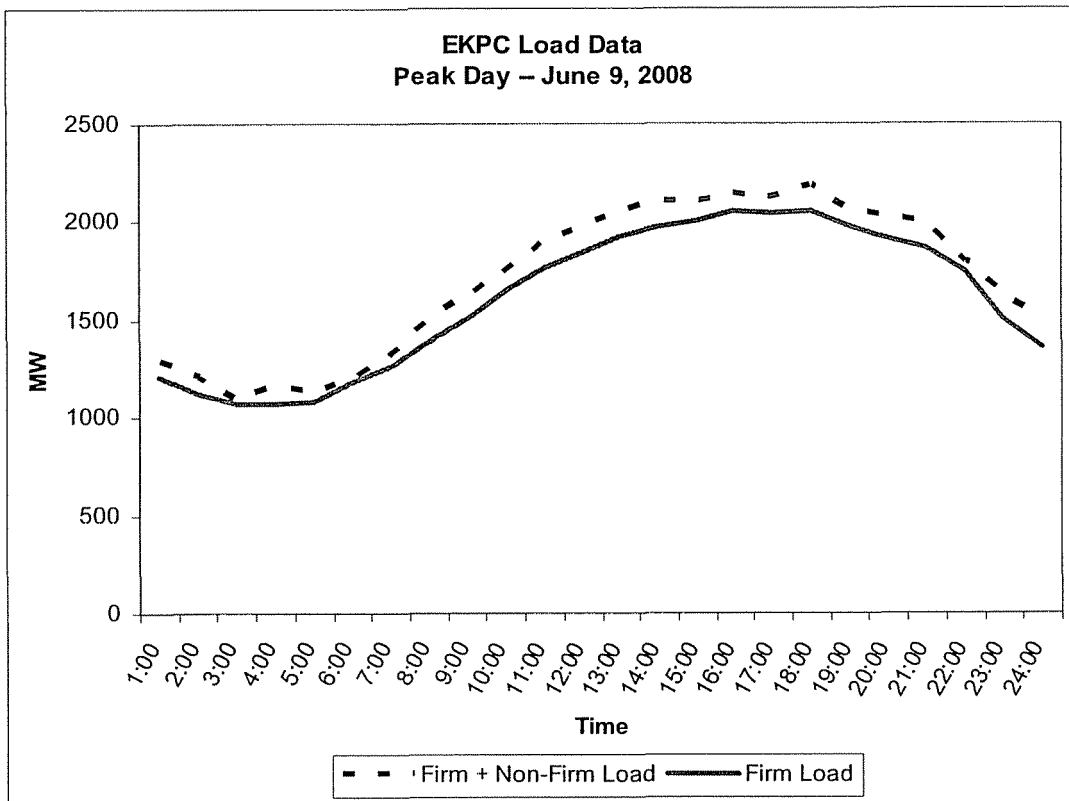
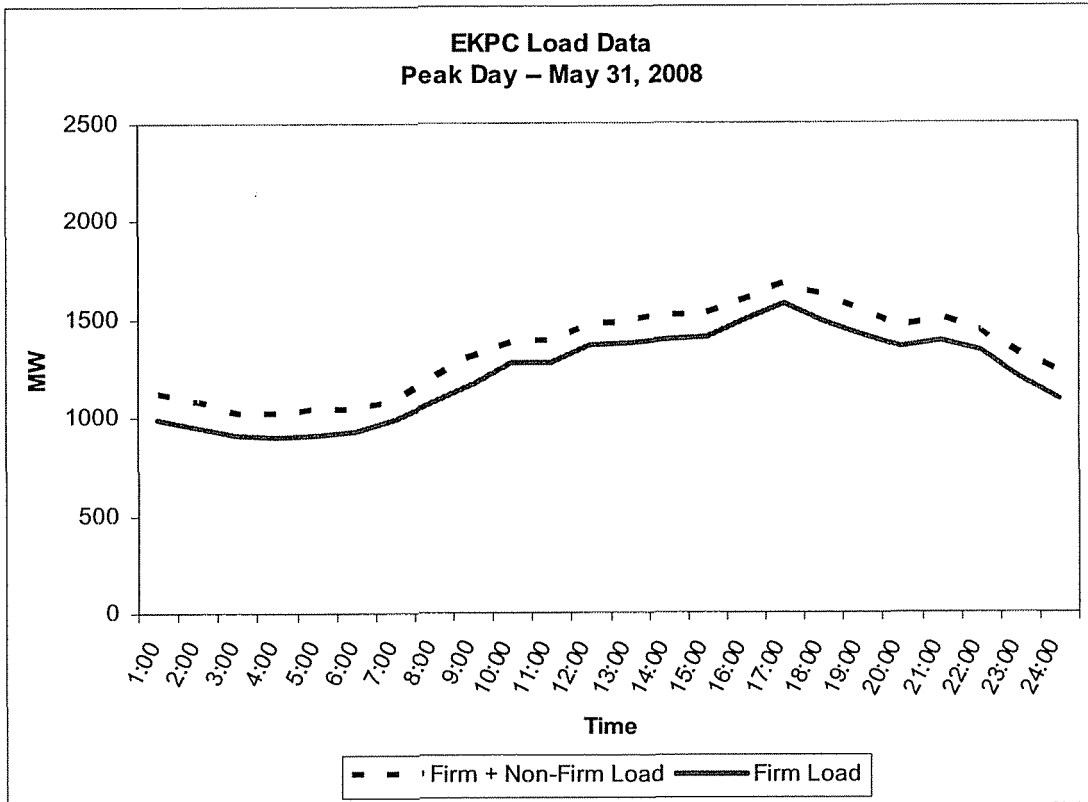
COMPANY: East Kentucky Power Cooperative, Inc.

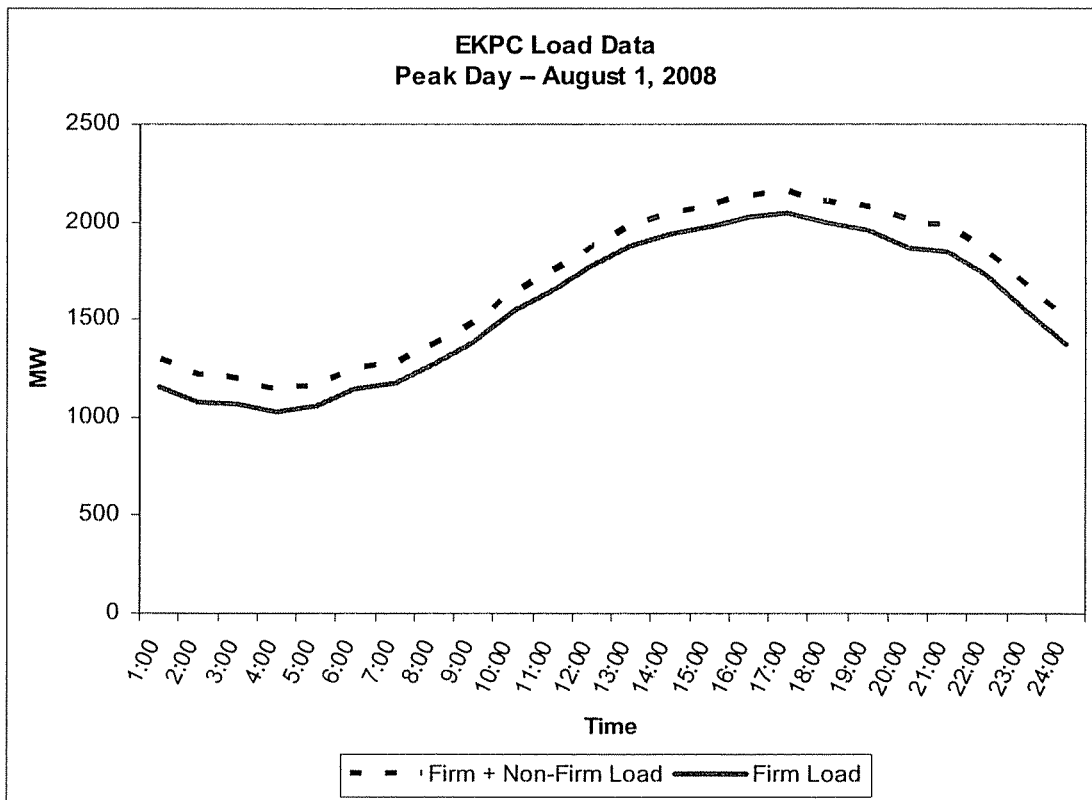
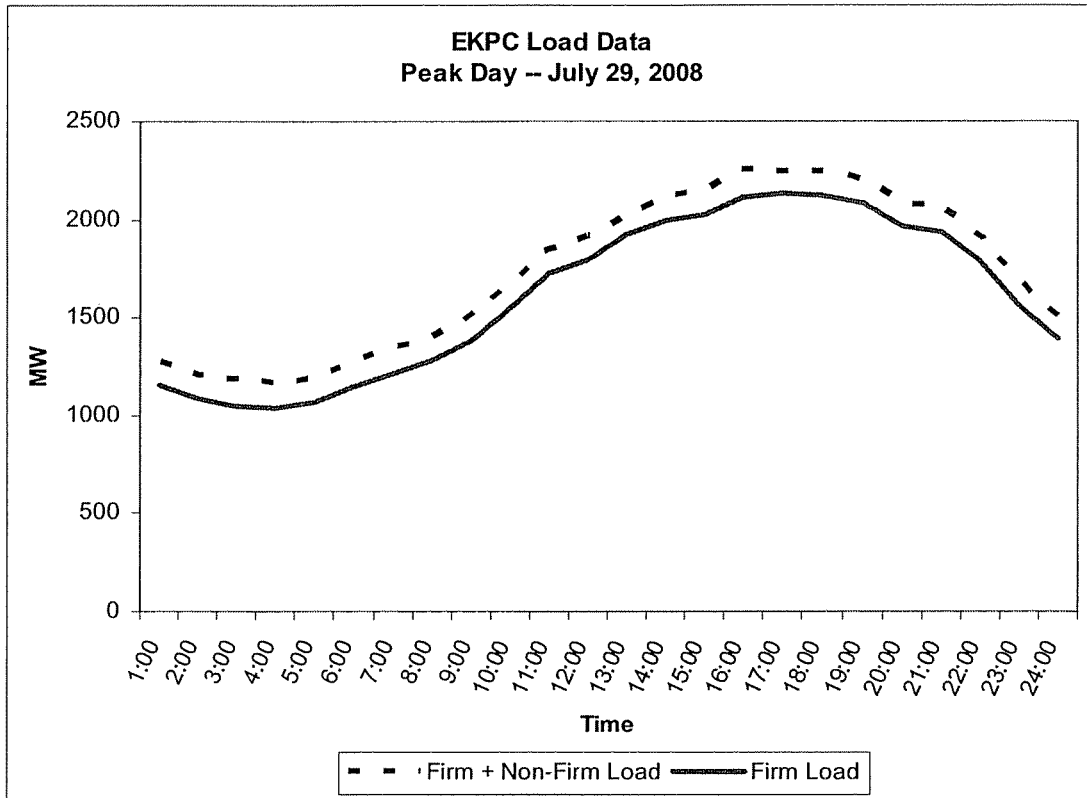
Request 4. Load shape curves that show actual peak demands and weather-normalized peak demands (native load demand and total demand) on a monthly basis for the just completed calendar year.

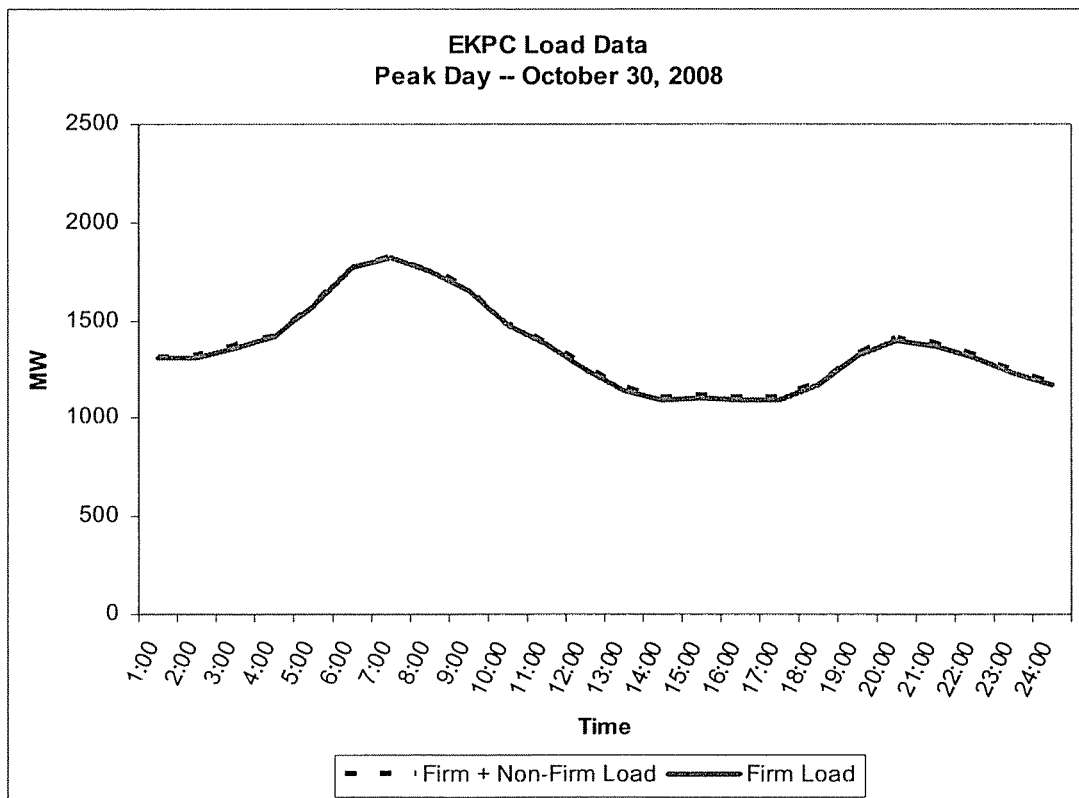
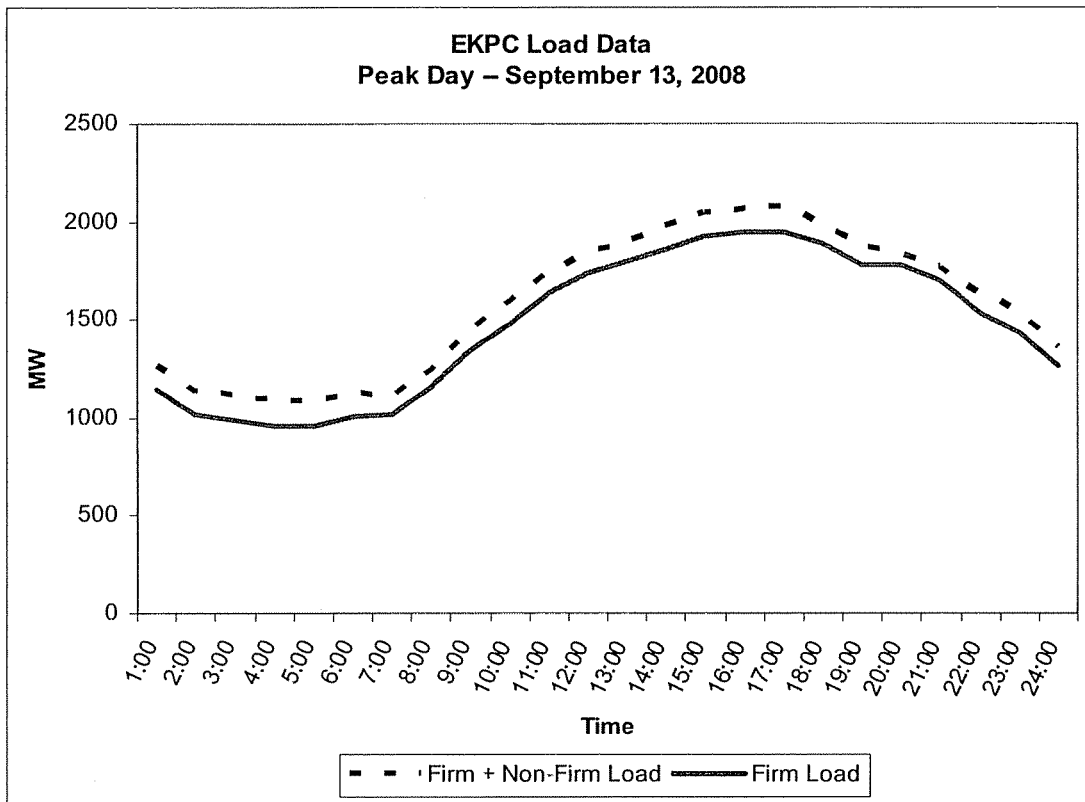
Response 4. Actual monthly peak day load shapes are presented on the following pages. EKPC makes an analysis to weather normalize the peak hour but EKPC does not weather adjust the peak day load shapes.

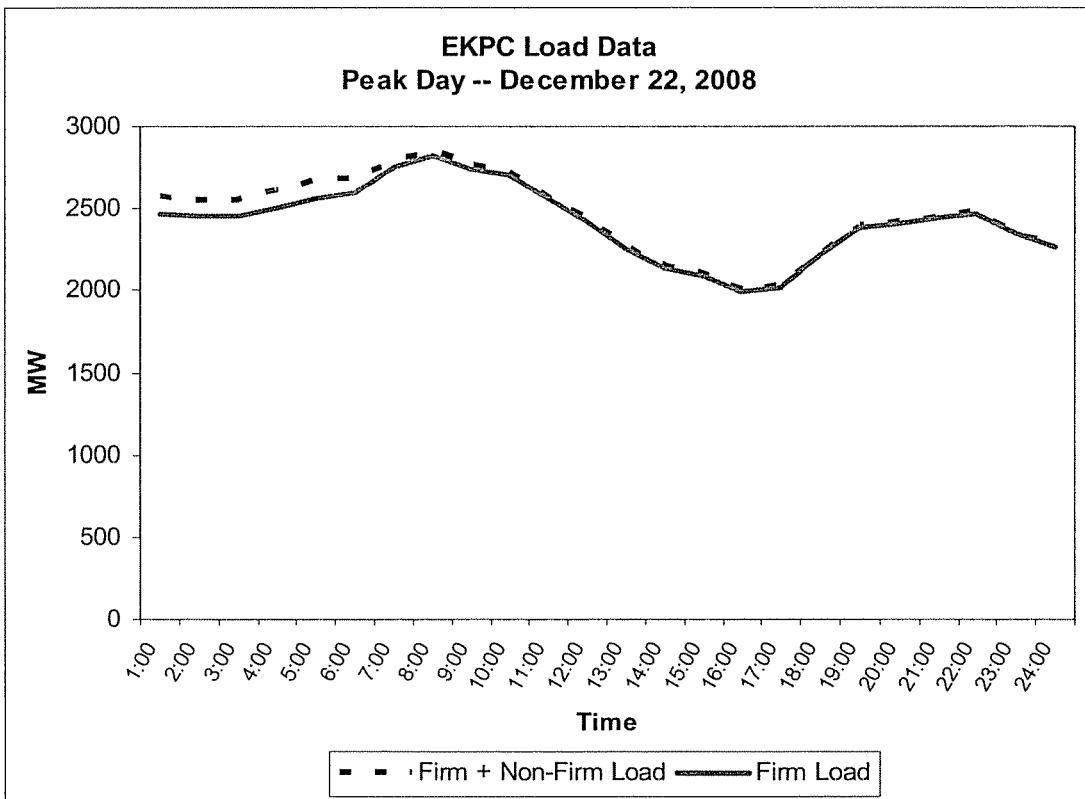
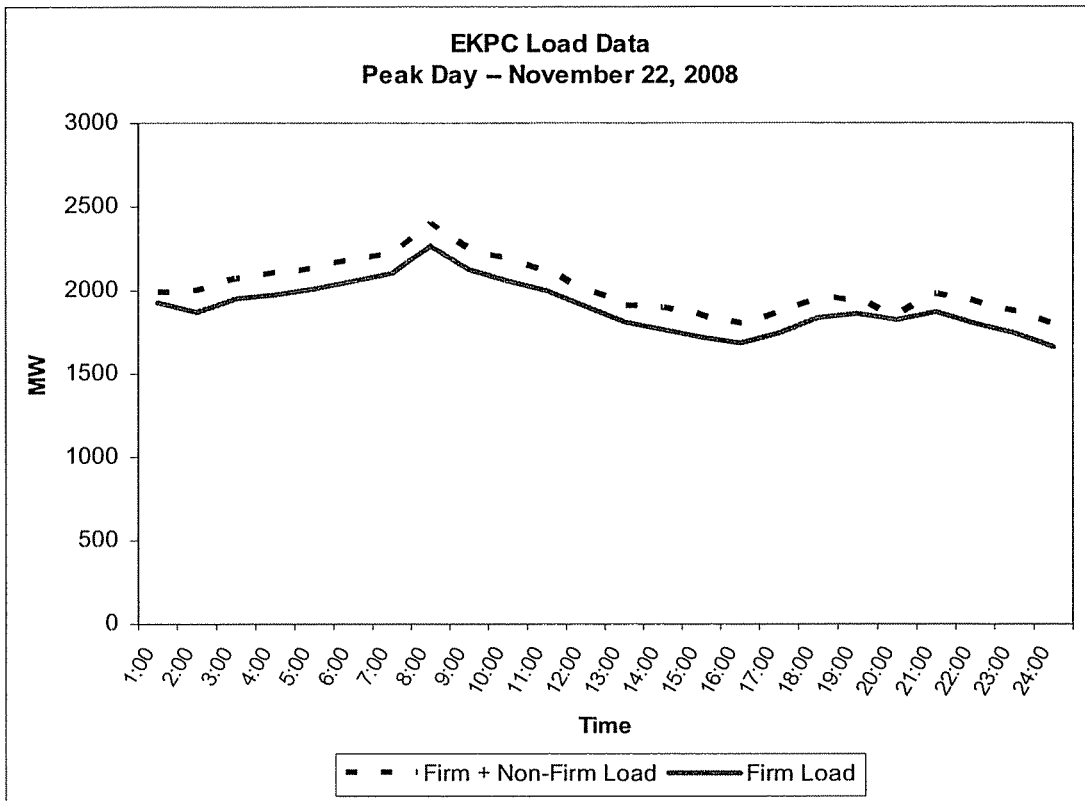












**EAST KENTUCKY POWER COOPERATIVE, INC.
PSC ADMINISTRATIVE CASE NO. 387
ANNUAL RESOURCE ASSESSMENT FILING**

PUBLIC SERVICE COMMISSION REQUEST DATED 12/20/01

REQUEST 5

RESPONSIBLE PERSON: James C. Lamb, Jr.

COMPANY: East Kentucky Power Cooperative, Inc.

Request 5. This request has been eliminated as a result of the Order issued by the Commission in March 2004 pertaining to this case.

EAST KENTUCKY POWER COOPERATIVE, INC.
PSC ADMINISTRATIVE CASE NO. 387
ANNUAL RESOURCE ASSESSMENT FILING

PUBLIC SERVICE COMMISSION REQUEST DATED 12/20/01

REQUEST 6

RESPONSIBLE PERSON: James C. Lamb, Jr.

COMPANY: East Kentucky Power Cooperative, Inc.

Request 6. Based on the most recent demand forecast, the base case demand and energy forecasts and high case demand and energy forecasts for the current year and the following four years. The information should be disaggregated into (a) native load (firm and non-firm demand) and (b) off-system load (both firm and non-firm demand).

Response 6a. EKPC prepares a high case and low case forecast to bracket its base case forecast. The ranges are shown in the tables below. These numbers are firm native load only. EKPC does not prepare range forecasts for non-firm native load.

Season	Total Winter Peak Demand (MW)					Year	Total Summer Peak Demand (MW)				
	Case 1	Case 2	Case 3 Base	Case 4	Case 5		Case 1	Case 2	Case 3 Base	Case 4	Case 5
2008 - 09	2,764	2,833	2,962	3,294	3,312	2008	2,048	2,142	2,302	2,433	2,437
2009 - 10	2,801	2,879	3,029	3,346	3,377	2009	2,107	2,204	2,363	2,499	2,511
2010 - 11	2,853	2,943	3,087	3,421	3,465	2010	2,142	2,239	2,406	2,536	2,555
2011 - 12	2,894	2,996	3,143	3,482	3,540	2011	2,179	2,280	2,442	2,581	2,608
2012 - 13	2,943	3,055	3,215	3,550	3,623	2012	2,204	2,311	2,475	2,615	2,650
						2013	2,251	2,356	2,529	2,663	2,706

Total Requirements Includes Gallatin Steel (MWh)					
Year	Case 1	Case 2	Case 3 Base	Case 4	Case 5
2008	11,151,669	12,990,932	13,172,654	13,765,124	13,787,817
2009	11,509,472	13,424,210	13,647,057	14,278,380	14,343,406
2010	11,732,142	13,692,443	13,959,302	14,553,021	14,662,606
2011	11,974,953	14,000,378	14,217,198	14,875,273	15,033,161
2012	12,200,580	14,287,211	14,511,928	15,176,342	15,384,981
2013	12,392,213	14,518,776	14,777,060	15,416,821	15,675,828

Response 6b.

EKPC is projecting no off-system demands.

**EAST KENTUCKY POWER COOPERATIVE, INC.
PSC ADMINISTRATIVE CASE NO. 387
ANNUAL RESOURCE ASSESSMENT FILING**

**PUBLIC SERVICE COMMISSION REQUEST DATED 12/20/01
REQUEST 7**

RESPONSIBLE PERSON: James C. Lamb, Jr.

COMPANY: East Kentucky Power Cooperative, Inc.

Request 7. The target reserve margin currently used for planning purposes, stated as a percentage of demand. If changed from what was in use in 2001, include a detailed explanation of the change.

Response 7. The target reserve margin currently used for planning purposes is 12%. EKPC has been using a 12% reserve margin for several years, but in 2006 a change was made in how the 12% was used. EKPC had previously added long term resources or resources available all year to meet a 12% reserve margin based on the summer peak. Any additional resources needed to meet the winter peak and provide an adequate level of reserves were purchased on a seasonal or short-term basis. Since firm transmission for importing power has become more difficult to acquire, and power market prices during the winter have increased considerably over the last few years, EKPC has changed to a strategy of adding long-term resources based on a 12% reserve margin applied to the winter peak. More detail on this subject was provided in EKPC's 2006 Integrated Resource Plan, filed with the Commission on October 21, 2006, beginning on page 8-65.

EAST KENTUCKY POWER COOPERATIVE, INC.
PSC ADMINISTRATIVE CASE NO. 387
ANNUAL RESOURCE ASSESSMENT FILING

PUBLIC SERVICE COMMISSION REQUEST DATED 12/20/01

REQUEST 8

RESPONSIBLE PERSON: James C. Lamb, Jr.

COMPANY: East Kentucky Power Cooperative, Inc.

Request 8. Projected reserve margins stated in megawatts and as a percentage of demand for the current year and the following 4 years. Identify projected deficits and current plans for addressing these. For each year identify the level of firm capacity purchases projected to meet native load demand.

Response 8. The tables below and associated notes show the projected reserve margins, capacity needs, and plans to address the needs.

Year	Reserve Margin ¹ (%)		Reserve Margin ¹ (MW)		Committed Firm Purchases (MW)		Additional Purchases Needed to Meet Reserve Margin (MW)	
	WIN	SUM	WIN	SUM	WIN	SUM	WIN	SUM
2009	-6.6%	27.1%	-195	634	35	40	515	0
2010	6.2%	23.6%	187	566	35	40	145	0
2011	2.7%	19.3%	82	475	0	0	290	0
2012	3.3%	30.8%	105	771	0	0	270	0
2013	12.2%	30.6%	396	786	0	0	0	0

Year	Total Firm Purchases (Committed + Needed) Used to Meet Reserve Margin (MW)	
	WIN	SUM
2009	550	40
2010	180	40
2011	290	0
2012	270	0
2013	0	0

Notes:

1. Reserve margins include existing resources and the following committed resources: Spurlock 4, Smith CTs 8-9, and Smith CFB 1 listed in Response 12. Existing and committed landfill gas generation projects are included.

EKPC received Certificates of Convenience and Necessity and Site Compatibility for construction of Spurlock 4 (PSC Case 2004-00423) and Smith CFB 1 and Smith CTs 8-12 (PSC Case 2005-00053). Due to Warren RECC's decision to return to TVA as its power supplier, the Commission opened Case No. 2006-00564 to consider the re-certification of the units mentioned above. EKPC's current plans are to build the two baseload units and two of the five CTs originally certificated. The Commission has not yet issued a decision in Case No. 2006-00564. These capacity additions are shown in Response 12, and will bring EKPC's reserve margin up close to its 12% target reserve margin by 2013. Seasonal purchases, primarily in winter, will likely be needed until these units reach commercial operation.

**EAST KENTUCKY POWER COOPERATIVE, INC.
PSC ADMINISTRATIVE CASE NO. 387
ANNUAL RESOURCE ASSESSMENT FILING**

**PUBLIC SERVICE COMMISSION REQUEST DATED 12/20/01
REQUEST 9**

RESPONSIBLE PERSON: James C. Lamb, Jr.

COMPANY: East Kentucky Power Cooperative, Inc.

Request 9. This request has been eliminated as a result of the Order issued by the Commission in March 2004 pertaining to this case.

**EAST KENTUCKY POWER COOPERATIVE, INC.
PSC ADMINISTRATIVE CASE NO. 387
ANNUAL RESOURCE ASSESSMENT FILING**

**PUBLIC SERVICE COMMISSION REQUEST DATED 12/20/2001
REQUEST 10**

RESPONSIBLE PERSON: James C. Lamb, Jr.

COMPANY: East Kentucky Power Cooperative, Inc.

Request 10. This request has been eliminated as a result of the Order issued by the Commission in March 2004 pertaining to this case.

**EAST KENTUCKY POWER COOPERATIVE, INC.
PSC ADMINISTRATIVE CASE NO. 387
ANNUAL RESOURCE ASSESSMENT FILING**

PUBLIC SERVICE COMMISSION REQUEST DATED 12/20/2001

REQUEST 11

RESPONSIBLE PERSON: James C. Lamb, Jr.

COMPANY: East Kentucky Power Cooperative, Inc.

Request 11. A list that identifies scheduled outages or retirements of generating capacity during the current year and the following four years.

Response 11. See Below – There are no retirements of generating capacity anticipated through 2013.

Dale Unit 1

2009	8 weeks or less
2010	3 weeks or less
2011	3 weeks or less
2012	3 weeks or less
2013	3 weeks or less

Dale Unit 2

2009	8 weeks or less
2010	3 weeks or less
2011	3 weeks or less
2012	3 weeks or less
2013	3 weeks or less

Dale Unit 3

2009	3 weeks or less
2010	3 weeks or less
2011	3 weeks or less
2012	3 weeks or less
2013	3 weeks or less

Dale Unit 4

2009	3 weeks or less
2010	3 weeks or less
2011	3 weeks or less
2012	3 weeks or less
2013	3 weeks or less

J.K. Smith CT1

2009	1 week or less
2010	1 week or less
2011	1 week or less
2012	1 week or less
2013	1 week or less

J.K. Smith CT2

2009	1 week or less
2010	1 week or less
2011	1 week or less
2012	1 week or less
2013	1 week or less

J.K. Smith CT3

2009	1 week or less
2010	1 week or less
2011	2 weeks or less
2012	1 week or less
2013	1 week or less

J.K. Smith CT4

2009	2 weeks or less
2010	1 week or less
2011	1 week or less
2012	1 week or less
2013	1 week or less

J.K. Smith CT5

2009	1 week or less
2010	2 weeks or less
2011	1 week or less
2012	1 week or less
2013	1 week or less

J.K. Smith CT6

2009	1 week or less
2010	1 week or less
2011	2 weeks or less
2012	1 week or less
2013	1 week or less

J.K. Smith CT7

2009	3 weeks or less
2010	1 week or less
2011	1 week or less
2012	2 weeks or less
2013	1 week or less

J.K. Smith CT8

2009	-----
2010	1 week or less
2011	1 week or less
2012	1 week or less
2013	1 week or less

J.K. Smith CT9

2009	-----
2010	1 week or less
2011	1 week or less
2012	1 week or less
2013	1 week or less

Cooper 1

2009	9 weeks or less
2010	3 weeks or less
2011	3 weeks or less
2012	3 weeks or less
2013	3 weeks or less

Cooper 2

2009	3 weeks or less
2010	3 weeks or less
2011	3 weeks or less
2012	3 weeks or less
2013	3 weeks or less

Spurlock 1

2009	6 weeks or less
2010	1 week or less
2011	4 weeks or less
2012	1 week or less
2013	4 weeks or less

Spurlock 2

2009	3 weeks or less
2010	4 weeks or less
2011	1 week or less
2012	4 weeks or less
2013	1 week or less

Gilbert 3

2009	3 weeks or less
2010	4 weeks or less
2011	4 weeks or less
2012	4 weeks or less
2013	4 weeks or less

Spurlock 4

2009	4 weeks or less
2010	4 weeks or less
2011	4 weeks or less
2012	4 weeks or less
2013	4 weeks or less

Smith CFB1

2009	-----
2010	-----
2011	-----
2012	-----
2013	1 week or less

EAST KENTUCKY POWER COOPERATIVE, INC.
PSC ADMINISTRATIVE CASE NO. 387
ANNUAL RESOURCE ASSESSMENT FILING

PUBLIC SERVICE COMMISSION REQUEST DATED 12/20/01
REQUEST 12

RESPONSIBLE PERSON: James C. Lamb, Jr.

COMPANY: East Kentucky Power Cooperative, Inc.

Request 12. Identify all planned base load or peaking capacity additions to meet native load requirements over the next 10 years. Show the expected in-service date, size and site for all planned additions. Include additions planned by the utility, as well as those by affiliates, if constructed in Kentucky or intended to meet load in Kentucky.

Response 12. The following table shows planned baseload and peaking additions to meet native load for the next 10 years.

Project	Capacity Type	In Service Date	Capacity (MW)	Location
Landfill Gas Projects ¹	Baseload	Various	Up to 35 additional *	Various
Smith CT 8-9	Peaking	December 2009	98 each (Winter Rating)	J. K. Smith Site Trapp, KY
Spurlock 4	Baseload	Apr 2009	278	Spurlock Site Maysville, KY
Smith CFB 1	Baseload	October 2013	278	J. K. Smith Site Trapp, KY
Smith CT 10	Peaking	Oct 2012	98 each (Winter Rating)	J. K. Smith Site Trapp, KY
Smith CT 11	Peaking	Oct 2013	98 each (Winter Rating)	J. K. Smith Site Trapp, KY
Smith CT 12	Peaking	Oct 2014	98 each (Winter Rating)	J. K. Smith Site Trapp, KY
New CT 1	Peaking	Oct 2016	98 each (Winter Rating)	Undetermined
New Baseload	Baseload	Oct 2016	278	Undetermined

* As specified in the IRP 2006

**EAST KENTUCKY POWER COOPERATIVE, INC.
PSC ADMINISTRATIVE CASE NO. 387
ANNUAL RESOURCE ASSESSMENT FILING**

**PUBLIC SERVICE COMMISSION REQUEST DATED 12/20/01
REQUEST 13**

RESPONSIBLE PERSON: James C. Lamb, Jr.

COMPANY: East Kentucky Power Cooperative, Inc.

Request 13. The following transmission energy data for the just completed calendar year and the forecast for the current year and the following four years:

Request 13a. Total energy received from all interconnections and generation sources connected to the transmission system.

Request 13b. Total energy delivered to all interconnections on the transmission system.

Response 13a & 13b. Forecast of Net Receipts and Deliveries reflect resources in addition to generation required to serve EKPC native load. EKPC does not have forecasted receipts and deliveries resulting from transfers over its transmission system. (See next page.)

	Actual MWh <u>2008</u>	Forecast MWh <u>2009</u>	Forecast MWh <u>2010</u>	Forecast MWh <u>2011</u>	Forecast MWh <u>2012</u>
Receipts	13,226,747				
Deliveries	11,019,199				
Net Rec. & Deliveries	2,207,548	678,332	605,014	893,371	1,082,872
Generation	<u>10,634,837</u>	<u>12,678,077</u>	<u>13,051,955</u>	<u>13,106,794</u>	<u>13,200,053</u>
Load	<u>12,842,385</u>	<u>13,356,409</u>	<u>13,656,969</u>	<u>14,000,165</u>	<u>14,282,925</u>

Request 13c. Peak load capacity of the transmission system.

Response 13c. The transmission capacity of a grid system changes constantly based on factors like generation dispatch, ambient temperature, load characteristics, contingencies, transfers, etc. EKPC's transmission system is planned and constructed to deliver all of its generation resources to its native load delivery points during forecasted normal summer and winter peak load conditions. EKPC's transmission system is also designed to accommodate an outage of a single transmission facility and/or generating unit. Also, EKPC designs its transmission system to deliver its generation resources to its native load delivery points during "extreme" weather conditions (1-in-10 year temperatures) for summer and winter with all facilities in service.

Other than simulation of imports into EKPC to replace an outage of a single generating unit, the transfers used in the EKPC transmission planning process are those modeled in the NERC MMWG models, which are typically the long-term firm transactions known at the time of the development of the models.

Regional transfer studies have identified limits for north to south transfers that range from 0 MW to 5000 MW, depending on the specific source generators, season, etc. Voltage studies have shown that possible voltage collapse on the EKPC system is possible during

these transfer conditions. The following facilities have been identified in recent studies and/or during actual operating experience as possible limiting facilities on the EKPC transmission system:

- The Avon 345-138 kV Transformer (EKPC)
- The Avon-Loudon Avenue 138 kV Circuit (EKPC-LGEE)
- The Blue Lick-Bullitt County 161 kV Circuit (LGEE-EKPC)
- The Dale-Three Forks-Fawkes 138 kV Circuit (EKPC)
- The J.K. Smith-Powell County 138 kV Circuit (EKPC)
- The Lebanon-Marion County 138 kV Circuit (LGEE-EKPC)
- The Marion County 138-161 kV Transformer (EKPC)
- The Summershade-Summershade Tap 161 kV Circuit (TVA-EKPC)
- The Wolf Creek-Russell County 161 kV Circuit (TVA-EKPC)

EKPC has constructed facilities to address some of these problems. In particular, the J.K. Smith-North Clark 345 kV new line project, the Cranston-Rowan County 138 kV new line project, and the Marion County 161-138 kV transformer upgrade project have mitigated some of these potential problems. Additionally, the ratings of the Dale-Three Forks-Fawkes 138 kV circuit have been increased to mitigate loading problems on that line. EKPC has implemented dynamic ratings on several highly-loaded facilities to increase available capacity based on actual ambient system conditions. Other facilities are being planned by EKPC to address other facility limits identified above.

Scheduled north-south transactions routinely exceed the limitations identified in regional transfer studies. These transactions have periodically overloaded EKPC transmission facilities, and moreover often have the potential to result in overloads in the event of a subsequent contingency.

Request 13d. Peak demand for summer and winter seasons on the transmission system.

Response 13d.

	Summer	2008	2009	2010	2011	2012
Date		07/29/08				
Hr.		1600				
Peak Demand (MW)		2,243	2,363	2,406	2,442	2,475
	Winter	2008	2009	2010	2011	2012
Date		1/25/08				
Hr.		0800				
Peak Demand (MW)		3,051	3,152	3,087	3,143	3,215

**EAST KENTUCKY POWER COOPERATIVE, INC.
PSC ADMINISTRATIVE CASE NO. 387
ANNUAL RESOURCE ASSESSMENT FILING**

PUBLIC SERVICE COMMISSION REQUEST DATED 12/20/01

REQUEST 14

RESPONSIBLE PERSON: James C. Lamb

COMPANY: East Kentucky Power Cooperative, Inc.

Request 14. Identify all planned transmission capacity additions for the next 10 years. Include the expected in-service date, size and site for all planned additions and identify the transmission need each addition is intended to address.

Response 14. During the period 2001-2010, EKPC expects to make the following transmission improvements for normal system development and load growth to serve native load customers and not to provide for large wholesale power transfers.

- 317 miles of new transmission line (161 kV, 138 kV, and 69 kV)
- 89 miles of new distribution substation taps (161 kV, 138 kV and 69 kV)
- 505 miles of transmission line reconductor (138 kV and 69 kV)
- 42 new transmission substations or upgrades (4200 MVA)
- 120 new distribution substations (900 MVA)
- 36 new transmission capacitor banks (492 MVAR)
- 20 projects – upgrade terminal facilities and/or line service
- 20 projects - miscellaneous

As a result of planned generation capacity to be added to the EKPC system for native load, EKPC expects to add the following new transmission facilities within the period 2001-2010. Although the additions could have significant effects on transmission capacity, none are required for existing constraints, bottlenecks, or other transmission system problems.

The new facilities are listed below, along with the justification of each facility:

#	Facility	Justification
1	Build a 2.6 mile double circuit 345 kV line to loop the Stuart-Zimmer Line into Spurlock Substation. Completed 12/12/04.	Outlet for additional generation at Spurlock; Provides an EKPC interconnection with three companies (AEP, CIN, DPL).
2	Add a 3 rd 345-138 kV transformer at Spurlock Substation. Completed May 2004.	Outlet for additional generation at Spurlock.
3.	Build 35 miles of 345 kV line to connect the J.K. Smith Substation to the KU Brown-Pineville 345 kV line. Construct a new 345 kV switching substation at the connection point called West Garrard.	Outlet for additional generation at J.K. Smith site.

EKPC's previous responses to this data request identified the following transmission facility additions as necessary outlets for generation additions:

- The 7.3-mile Cranston-Rowan County 138 kV line
- The 17-mile J.K. Smith-Spencer Road 138 kV line
- The 17-mile J.K. Smith-Avon 345 kV line and the J.K. Smith 345-138 kV Substation
- The 43-mile J.K. Smith-Tyner 345 kV line and the Tyner 345-161 kV Substation

These items have been removed from the list of facilities needed for future generation additions for the following reasons:

- The Cranston-Rowan 138 kV line is needed to address existing system issues in the area.
- The J.K. Smith Spencer Road 138 kV line is no longer a recommended outlet based on updated studies.
- The J.K. Smith-Avon 345 kV line has been replaced by a 345 kV line from J.K. Smith to North Clark, which is needed to address existing system issues.
- The J.K. Smith-Tyner 345 kV line has been replaced by a planned new 345 kV line from J.K. Smith to KU's Brown-Pineville 345 kV line (Item 3 in the above table).

A detailed list of EKPC's expected transmission facility additions for the short-term planning horizon through the end of 2009, as well as recent completions, is shown beginning on the next page.

TRANSMISSION PROJECTS 2004-2009	TARGET DATE	KENTUCKY COUNTIES	NEED CATEGORY
<u>NEW TRANSMISSION LINES</u>			
Pulaski County - Floyd 69 kV - 4.8 miles 556.5 MCM	Complete	Pulaski	B, C
South Floyd Tap 69 kV - 0.04 miles 556.5 MCM	Complete	Pulaski	B, C
Pulaski County - Norwood 69 kV - 5.2 miles 556.5 MCM	Complete	Pulaski	B, C
Pulaski Co. Tap 161 kV - 6.8 miles 556.5 MCM	Complete	Pulaski	B, C
Keavy - Laurel County 69 kV (Circuit #2) - 0.40 miles 266.8 MCM	Complete	Laurel	C, E
Garrard County - Lancaster/Brodhead (KU) 69 kV -- 0.10 miles 556.5 MCM DC (loop in KU 69 kV line)	Complete	Garrard	C
Spurlock - Stuart/Zimmer (CIN/DPL) 345 kV -- 3 miles 2-954 MCM DC (loop in 345 kV line)	Complete	Mason, State of Ohio	A, F
Cranston - Rowan County 138 kV - 7.50 miles 795 MCM	Complete	Rowan	B, C, D
Oneida - Arnold/Delvinta (KU) 161 kV - 7.90 miles 795 MCM	Deleted	Clay, Owsley	C, D
Inland Container - Inland Tap 138 kV - 0.50 miles 954 MCM	Deleted	Mason	A, F
Flemingsburg - Goddard Rebuild 138 kV 9.20 miles	Complete	Fleming	B, C, D
Spurlock - Flemingsburg Trans. Line 138 kV 18 mi. (Carryover)	Complete	Fleming	B, C
WRECC's Bristow - GM 161 kV Trans. Line Eng. Only	Complete	Barren	B, C
Smith - N. Clark 345 kV Transmission Line 17 miles	Complete	Madison, Clark	B, C
Cynthiana Normally Open 69kV Interconnection Tap and Switch	Complete	Harrison	B,C
J.K. Smith 138 kV/345 DC Tie Line	Complete	Clark	B,C
Barren Co. - Oakland- Magna 161 kV 28.29 Miles	Cancelled	Barren, Warren	B,C
General Motors - Memphis Jct. 161 kV 14.96 miles	Cancelled	Warren	B,C
Memphis Jct. - Aberdeen Trans. Line 161 kV 23.48 miles	Cancelled	Warren & Bulter	B,C
Wilson - Aberdeen Trans. Line 161 kV 26.79 miles	Cancelled	Bulter & Ohio	B,C
Beam-Joe Tichenor/W. Bardstown 69 kV 10 miles	Complete	Nelson	B,C
<u>NEW TRANSMISSION SUBSTATIONS</u>			
Pulaski County 161-69 kV Substation 100 MVA	Complete	Pulaski	B, C
Casey County 161-69 kV Substation 100 MVA	Complete	Casey	C
Inland Tap (EKPC-KU) 138 kV Switching Station	Deleted	Mason	A, F
Goddard 138 kV Switching Station	Complete	Fleming	B, C, D
East Bernstadt 69 kV Switching Substation (EKPC - KU)	Complete	Laurel	C, E
Oneida 161-69 kV Substation 100 MVA	Deleted	Clay	C, D
Aberdeen 161kV Trans. Sub (2Brkrs)	Cancelled	Bulter	C,D
East Bowling Green 161 kV Trans. Sub (1Brkr)	Cancelled	Warren	C,D
J.K. Smith CT Substation 345 kV	Complete	Clark	C,D
Memphis Junction Trans Sub (4 Brkrs)	Cancelled	Warren	C,D
North Clark (Sideview) 345 kV Breaker Station	Complete	Clark	C,D
Salmons Substation 161-69 kV (Warren RECC)	Cancelled	Simpson	C,D
West Bardstown Jct. 69 kV Switching Station	Complete	Nelson	C,D
West Garrard 345 kV Transmission Station	6/30/09	Garrard	C,D
<u>TRANSMISSION SUBSTATION MODIFICATIONS</u>			
Liberty Jct. Substation add 2-161 kV breakers	Complete	Casey	B, C
Rowan County Substation add 3 -138 kV breakers	Complete	Rowan	B, C, D

TRANSMISSION PROJECTS 2004-2009	TARGET DATE	KENTUCKY COUNTIES	NEED CATEGORY
<u>TRANSMISSION SUBSTATION MODIFICATIONS</u>			
Spurlock substation terminal facility additions & relaying upgrades	Complete	Mason	A
Stuart (DPL) and Zimmer (CIN) relaying upgrades & substation modifications	Complete	State of Ohio	A
Garrard County Substation add 3-69 kV breakers and 2 line exits	Complete	Garrard	C
Fall Rock 69 kV 161-69kV Substation –plus Install 3-69kV Brkrs	Complete	Clay	C
Dale Station – Rebuild 138 & 69 kV Switchyard	Cancelled	Clark	C
East Bardstown Rebuild 69 kV Switchyard	Cancelled	Nelson	C
Beattyville Distr. – Beattyville Sw. Sta. 69 kV Trans. Line	4/1/2009	Lee	C
Dale Station – Install New General SVC #2 Feeder	12/31/09	Clark	C
J.K. Smith 450 MVA Station Modifications	Deferred	Clark	C
J.K. Smith 345-138 kV Transformer – Station Modifications	Complete	Clark	C
J.K. Smith #8 and #9 Sub Modifications	Complete	Clark	C
Beattyville Substation Switching Add. – 69 kV	Complete	Lee	C
Bullitt County 69 kV Breaker Addition (2 Brkrs.)	Complete	Bullitt	C
Spurlock #4 345 kV Brkr and Terminal Facilities	Complete	Mason	C
Marion County 161 –138 kV – Replace Transformer	Complete	Marion	C
Tyner Breaker Addition	Complete	Clay	C
<u>TRANSMISSION LINE RECONDUCTOR OR REBUILD</u>			
<u>(69 kV, 556.5 MCM ACSR, reconductor unless otherwise noted)</u>			
Denny - Whitley City - 14 miles	Complete	McCreary, Wayne	B, C
Frenchburg-Maytown Jct. - 10.79 miles	Complete	Menifee, Morgan	C
West Berea - West Berea Jct. - 1.95 miles	Complete	Madison	B
Burkesville Jct. - Summer Shade - 18.89 miles	Complete	Cumberland, Metcalfe	C
Nancy – W. Somerset Jct. - 5.52 miles	Complete	Pulaski	B, C
Summer Shade - W. Columbia Jct. - 23.27 miles	Complete	Adair, Metcalfe	C
Campton - Helechawa - 11.08 miles	Complete	Wolfe	C, G
Colemansville - Four Oaks Jct. - 7.92 miles	Complete	Harrison, Pendleton	B
Colemansville - Renaker - 6.18 miles	Complete	Harrison, Pendleton	B
Grants Lick - Stanley Parker Jct. - 9.94 miles	Complete	Campbell, Kenton	B
Nancy - Windsor - 9.27 miles	Complete	Casey, Pulaski	C
Beckton - Parkway - 5.40 miles	Complete	Barren	C
Bonnieville - Munfordville - 8.18 miles	Complete	Hart	C, G
Bowen - High Rock - 6.2 miles	Complete	Powell	G
Avon - Loudon Avenue (KU) 138 kV reconductor or rebuild - 8.72 miles	Deleted	Fayette	A
Inland Container - Spurlock 138 kV - 0.46 miles, 954 MCM ACSS	Deleted	Mason	A, F
KU Kenton - KU Goddard 138 kV rebuild - 22.13 miles, 795 MCM ACSR	Deleted	Fleming, Mason	A
Fayette-Davis-Nicholasville - 7.12 miles	Deferred	Fayette, Jessamine	A
KU Clark County - KU Sylvania 69 kV rebuild - 0.54 miles, 795 MCM ACSR	Hold	Clark	B
High Rock - Zachariah - 4.25 miles	Complete	Powell	G
Avon-Boonesboro North Tap Recond. 138 kV 8.82 mi.	Complete	Clark, Fayette	B, C
Baker Lane-Holloway Jct. Reconductor, 69 kV, 1.28 miles	Cancelled	Fayette, Jessamine	B, C
Fort Knox Jct.-Smithersville Jct. Reconductor - 69 kV, 3.11 miles	12/1/2016	Hardin	B, C
Lees Lick – Renaker Reconductor – 69 kV, 12.7 mi.	12/1/2011	Harrison	B, C

TRANSMISSION PROJECTS 2004-2009	TARGET DATE	KENTUCKY COUNTIES	NEED CATEGORY
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TRANSMISSION LINE RECONDUCTOR OR REBUILD**(69 kV, 556.5 MCM ACSR, reconductor unless otherwise noted)**

Dale - Three Forks Jct. 138 kV Rebuild 4.75 miles	Cancelled	Clark, Madison	B,C
Headquarters - Millersburg Reconductor	Complete	Harrison	B,C
Hillsboro - Peastick 69kV Reconductor, 556.6, 10.51 miles	Deferred	Fleming, Bath	B,C
LGEE's Fawkes Tap - Fawkes KU 138 kv Line Reconductor	Complete	Madison	B,C
Tyner - McKee Trans. Line Rebuild 954 MCM 9.3 miles	5/1/2010	Jackson	B,C
Tyner. - North London Rebuild 954 MCM 69kV, 16.71 mi.	12/20/09	Jackson,Laurel	B,C
W. Bardstown - W. Bardstown Jct. 69kV Recond. W/556 4.50 mi.	Deferred	Nelson	B,C
W.Berea - Three Links Reconductor .09 miles	Complete	Madison	B,C
Burkesville – Snow Junction 69kV Reconductor 10.17 miles	12/15/09	Clinton, Wayne	B,C
Hickory Plains- PPG 69kV Reconductor 2.5 miles	Complete	Madison	B,C
Bonds Mill Jct. –Clay Lick Jct. – Van Arsdell Rebuild 5.16 miles	6/1/2009	Anderson, Mercer	B,C

TRANSMISSION LINE UPGRADES (69 kV Unless Otherwise Noted)

Annville Jct. - East Bernstadt Upgrade to 212F - 14.54 miles	Complete	Jackson, Laurel	B
Bloomfield - Sinai Upgrade to 167F - 13.4 miles	Complete	Anderson, Nelson	B
Boone Co. - Renaker 138 kV Upgrade to 167F - 41.17 miles	Complete	Boone, Grant, Pendleton, Harrison	B
Bristow Jct. - Turkey Foot Upgrade to 167F – 2.05 miles	Complete	Kenton	B
Creston - Phil Upgrade to 167F - 5.79 miles	Complete	Casey	B
Four Oaks - Four Oaks Jct Upgrade to 167F -0.37 miles	Complete	Pendleton	B
Hunt - Sideview Upgrade to 167F - 15.5 miles	Complete	Clark	B
Liberty Jct. - Liberty KU Tap Upgrade to 167F - 3.47 miles	Complete	Casey	B
Norwood Jct. - Norwood Jct. Upgrade to 167F - 5.28 miles	Complete	Pulaski	B
Pittsburg - Tyner 161 kV Upgrade to 167F - 16.49 miles	Complete	Jackson, Laurel	B
Bass – Creston Upgrade to 167F - 7.38 miles	Complete	Casey	B
Boone Dist. - Bullittsville Upgrade to 167F - 6.4 miles	Complete	Boone	B
New Liberty Jct. - Owen Co Upgrade to 167F - .01 miles	Complete	Owen	B
Russell Springs Tap Upgrade to 167F - 1.2 miles	Deferred	Russell	B
Tunnel Hill Tap Upgrade to 167F - 0.54 miles	Deferred	Hardin	B
Ballard-Hunt Farm Jct. Upgrade to 212 69 kV 8.34 miles	Complete	Clark, Jessamine	B
Hunters Bottom – Milton 69 kV Line Upgrade	Complete	Carroll, Trimble	B
Owens Illinois Jct. – Woodlawn 69 kV Line Upgrade	Complete	Nelson	B
Helechawa-Magoffin County Line Upgrade 69 kV 20.33 mile	Deferred	Magoffin	B
Knob Lick-McKinney's Corner Jct. Line Upgrade, 69 kV, 12.53 miles	Complete	Metcalfe, Green	B
Clay Lick Jct.-Van Arsdell Line Upgrade, 69 kV, 2.46 miles	Cancelled	Mercer	B
Bedford- Milton Line Upgrade 8.7 miles	Deferred	Trimble	B
Blue Lick - Bullitt County 161 kV Line Upg. (To be done by LGEE)	Complete	Bullitt	B
Magnolia - Summersville Upgrade 167 15 miles	Complete	Larue,Green	B
Radcliff - Vine Grove Line Upgrade .55 miles	Deferred	Hardin	B
Upton Jct - Stephensburg 69kV Line Upgrade, 10.76 miles	Complete	Hardin	B
EK Office – EK Office Jct. Line Upgrade .17 miles	Complete	Clark	B
Marion Co. – Casey Co. – Liberty Jct. 161 kV Line Upg. To 125 F	Complete	Marion,Casey	B
Bacon Creek Jct. – Farley 69kV Line Upgrade 2.1 miles	Deferred	Whitley	B
Bacon Creek Jct. – South Corbin Jct. 69kV Line Upgrade	5/1/09	Whitley	B
Blue Grass Parkway Jct. Woodlawn- Fredricksburg Jct. Line Upgrade	Deferred	Washington	B
Bronston Jct. – Denny 69k V Line Upgrade	Deferred	Pulaski, Wayne	B

TRANSMISSION PROJECTS 2004-2009	TARGET	KENTUCKY	NEED
	DATE	COUNTIES	CATEGORY

TRANSMISSION LINE UPGRADES (69 kV Unless Otherwise Noted)(Continued)

Hunt Farm Jct. – Perryville 69 kV Line Upgrade	5/1/09	Boyle	B
North Springfield – South Springfield Line Upgrade	5/1/09	Washington	B

TERMINAL FACILITY UPGRADES (69 kV Unless Otherwise Noted)

East Bardstown substation upgrade terminal facilities	Complete	Nelson	B
Goodnight substation upgrade 4/0 Bus terminal facilities	Complete	Barren	B
Crooksville Jct. Line Switch Upgrade (S70-615)	Complete	Madison	B
Dale Line Terminal Upgrade (N35-804)	Complete	Clark	B
Dale Line Switches Upgrade	Complete	Clark	B
Davis Line Switch Upgrade	Complete	Jessamine	B
Duro-Turkey Foot Jct. Line Switch Upgrade (N55-615)	Deferred	Kenton	B
Fayette Line Switch Upgrade	Complete	Fayette	B
Hickory Plains Line Switch Upgrade	Deferred	Madison	B
Newby Line Switch Upgrade	Complete	Madison	B
Pine Grove Jct. Line Switch Upgrade (E86-605)	Complete	Laurel	B
West Berea Jct. Line Switch Upgrade	Complete	Madison	B
West London Line Switch Upgrade	Complete	Laurel	B
Boone County Line Switch Upgrade	Deferred	Boone	B
Devon Line Switch Upgrade	Deferred	Boone	B
Duro-Turkey Foot Jct. Line Switch Upgrade (N55-625)	Deferred	Boone	B
Avon Upgrade 138kV Switch 345-138 kV to 3000 AMPS	Complete	Fayette	B
Dale - Three Forks Jct -Upgrade Replace 1200 Amp Bkr	Complete	Madison ,Clark	B
Duro Tap - Upgrade (2) 69kV disconnect sw N55-605 to 1200A	Complete	Boone	B
E. Bardstown-Bardstown(KU)-Change meter CT setting 69kV line	Complete	Nelson	B
Fawkes - Replace 1200 metering CT's (S62-834)	Deferred	Madison	B
Fawkes - Replace 500 MCM Bus	Complete	Madison	B
Green County- Greensburg (KU)Change meter CT setting	Complete	Green	B
J.K. Smith - Dale Replace 1200 Amp Line Traps	Deferred	Clark	B
JK Smith - Fawkes Upgrade - Replace 1200 A Line Traps	Deferred	Clark,Madison	B
Marion Co. 138kV Switch to 2000 AMP	Complete	Marion	B
Plummville -Upgrade 69kV disc sw N34-643 to 2000A	Complete	Boone	B
Renaker -Upgrade 69kV disconnect sw N6-643, N6-645	Complete	Harrison	B
Russell Springs KU Tap-Upgrade 69kV disc sw S408-605	12/1/2017	Russell	B
Stanley Parker-Change line CT setting of bkr N43-614 from 600/5	Complete	Kenton	B
Summer Shade (Fox Hollow Line)-Upgrade 69kV disc. switches S11-633, S11-635s	Complete	Metcalf	B
Summersshade Upgrade 69kV breaker S11-658 to 2000A	Complete	Metcalf	B
Three Links Jct. - W. Berea Jct. disc sw (1) to 1200A	Complete	Madison,Clark	B
Vine Grove Tap Upgrade 69kV disconnect switch W17-635 to 1200 amps	12/1/2010	Hardin	B

TRANSMISSION PROJECTS 2004-2009	TARGET DATE	KENTUCKY COUNTIES	NEED CATEGORY
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SUBSTATION CAPACITOR BANK ADDITIONS (69 kV)

Loretto 13.78 MVAR	Complete	Marion	C
Magnolia 12.24 MVAR	Complete	Larue	C
Pelfrey 7.14 MVAR	Complete	Carter	C
Russell Springs 18.37 MVAR	Complete	Russell	C
Shelby County 25.51 MVAR	Complete	Shelby	C
Shepherdsville 13.78 MVAR	Complete	Bullitt	C
Van Meter 13.78 MVAR	Complete	Clark	C
Bedford 6.12 MVAR	Complete	Trimble	C
Four Oaks 13.78 MVAR	Complete	Harrison	C
Blevins Valley 10.2 MVAR	Complete	Bath	C
Boone County 30.61 MVAR (W.R. Smoot)	Complete	Boone	C
Maggard 12.24 MVAR	Deferred	Magoffin	C
Millersburg (EKPC) 6.12 MVAR	Complete	Nicholas	C
Sideview 6.12 MVAR	Complete	Bourbon	C
Sinai 13.78 MVAR	Complete	Anderson	C
Slat 21.6 MVAR	Complete	Wayne	C
Mount Olive (Re-size to 10.20 MVAR)	Deferred	Casey	C
East Pine Knot 13.78 MVAR	Deferred	McCreary	C
Norwood 25.51 MVAR (Pulaski)	Complete	Pulaski	C
Tyner 16.33 MVAR	Complete	Jackson	C
Knob Lick 14.29 MVAR	Cancelled	Metcalfe	C
Clay Village 10.2 MVAR	Complete	Shelby	C
Tommy Gooch 12.25 MVAR	Complete	Garrard	C
Griffin 9.18 MVAR	Complete	Pendleton	C
Milton 10.20 MVAR	Cancelled	Trimble	C
Maytown 10.2 MVAR	Complete	Morgan	C
Shelby County #2 25.51 MVAR	Cancelled	Shelby	C
Hickory Plains 25.51 MVAR Capacitor Bank	Complete	Madison	C
Martin County 12.25 MVAR Capacitor Bank	Complete	Martin	C
Headquarters 8.164 MVAR Capacitor Bank	12/1/09	Harrison	C
Peyton's Store Re-Size from 7.14 MVAR to 13.27 MVAR	9/1/2009	Casey	C

TRANSMISSION PROJECTS 2004-2009	TARGET DATE	KENTUCKY COUNTIES	NEED CATEGORY
<u>NEW DISTRIBUTION SUBSTATION TAP LINES</u>			
Jamestown Tap, 161 kV 0.5 miles	Complete	Russell	H
Wiborg 69 Tap 4.31 miles	Complete	McCreary	H
West Bardstown #2 69kV .02 miles	Complete	Nelson	H
Nelson Valley Tap, 69kV 1.4 miles	Complete	Pulaski	H
Rineyville 69kV Tap 6.0 miles	Complete	Hardin	H
Hinkston Tap from KIU .01 miles	Complete	Montgomery	H
Loretto Tap 69 kV 02. Miles	Complete	Marion	H
W. Mt. Washington #2 Tap 69 kV 0.02 miles	Complete	Bullitt	H
Big Creek Tap 69 kV 9.3 miles	Complete	Clay	H
Banklick #2 Tap 69 kV 0.02 miles	Deferred	Kenton	H
Columbia #2 Tap 69 kV 0.02 miles	Deferred	Adair	H
Fort Knox #2 Tap 69 kV 0.02 miles	Deleted	Hardin	H
Middle Creek #2 Tap 69 kV 0.02 miles	Deferred	Floyd	H
Radcliff #2 Tap 69 kV 0.02 miles	Deferred	Hardin	H
Sinai #2 Tap 69 kV 0.02 miles (Powell-Taylor)	Deleted	Anderson	H
Turkey Foot #2 Tap 69kV 0.02 miles (Richardson #2)	Deleted	Kenton	H
Cynthiana #2 Tap, 69 kV 0.02 miles	Deferred	Harrison	H
Fayette #3 Tap, 69 kV 0.02 miles	Deferred	Fayette	H
Balltown #2 Tap 69 kV 0.02 miles	Deferred	Nelson	H
Boone County #2 Tap 69 kV 0.02 miles	Deferred	Boone	H
Munfordville #2 Tap 69 kV 0.02 miles	Deferred	Hart	H
Taylorville #2 Tap, 69 kV 0.02 miles	Deleted	Spencer	H
Tharp #2 Tap 69 kV 0.02 miles	Deleted	Hardin	H
Vine Grove #2 Tap 69 kV 0.02 miles	Deleted	Hardin	H
Holloway #2 Tap 69 kV 0.02 miles	Deleted	Jessamine	H
Clay City #2 Tap 69 kV 0.02 miles	Deleted	Powell	H
Williamstown #2 Tap, 69 kV 0.02 miles	Deleted	Grant	H
Grants Lick #2 Tap	Complete	Campbell	H
Oxford Tap, 0.08 mi.	Complete	Scott	H
Plummers Mill Tap, 0.02 mi.	Complete	Fleming	H
Richardson #2 Tap	Complete	Kenton	H
South Point Tap	Complete	Jessamine	H
Southville Tap	Complete	Shelby	H
Upchurch 69 kV Tap, 1.75 mi.	Complete	Clinton	H
Little Mount 161 kV Tap (Carryover)	Complete	Spencer	H
Bull Run 0.5 mile 69 kV Tap	Deleted	Adair	H
Conway 69 kV Tap, 0.25 mile	Complete	Rockcastle	H
Corinth 69 kV Tap, .2 mi.	Deferred	Grant	H
Deatsville 69 kV Tap, 2.30 miles	Complete	Nelson	H
Defoe 69 kV Tap, 5 miles	Deferred	Henry	H
Gap of the Ridge 69 kV Tap, 4.5 miles	Complete	Wayne	H
Headquarters .02 miles 69 kV Tap	Complete	Harrison	H
Oak Ridge Tap .2 mile 69 kV Tap	Complete	Lewis	H
West Berea Tap	Deferred	Madison	H
Alex Creek 69kV Tap, 1.4 mile, 266.8	Complete	Knox,Bell	H
Beattyville #2 Tap 266.8 Cond.	Cancelled	Lee	H
Blue Grass Parkway 69 kV Tap .04 miles	Complete	Nelson	H
Bristow #2 Tap 69kV, 0.1 mile, 266.8	Complete	Kenton	H
Burlington Tap 69kV, .19 mile, 266.8	Complete	Boone	H
Campbellsville #2 Tap 266.8 Cond.	Complete	Taylor	H

TRANSMISSION PROJECTS 2004-2009	TARGET DATE	KENTUCKY COUNTIES	NEED CATEGORY
<u>NEW DISTRIBUTION SUBSTATION TAP LINES</u>			
Cedar Grove Industrial Park Tap 161kV, 0.2 miles, 556.5	Complete	Bullitt	H
Downing #2 Tap 69kV, 0.1 mile, 266.8	Complete	Owen	H
Garlin 69kV Tap, 0.5 mile, 266.8	Complete	Taylor	H
Girdler 69kV Tap, 3.5 mile, 266.8	Complete	Knox	H
Headquarters .02 miles 69 kV Tap	Complete	Harrison	H
Inez 69kV Tap Approx. 6 miles	Complete	Martin	H
Laurel Co. Ind. Park #2 69 kV Tap	Complete	Laurel	H
Liberty Church 69kV Tap, 1.8 mile, 266.8	Complete	Knox	H
Pine Grove #2 Tap 69kV, 0.1 mile, 266.8	Complete	Laurel	H
Powell-Taylor 69 kV Tap 4.75 miles	Complete	Anderson	H
Snow Hill 0.2 69kV Tap	Complete	Robertson	H
Webb's Cross Roads .03 mile 69 kV Tap	Complete	Russell	H
West Nicholasville Tap 69kV, .04 mile, 266.8	Complete	Jessamine	H
Woodstock 69kV Tap, 4.4 mile, 266.8	Complete	Pulaski	H
Sterling Tap 138 kV 0.8 miles	Complete	Gallatin	H
Smith Back-up Power Tap	6/1/2010	Clark	H
Flint Ink Tap 0.3 miles	Cancelled	Hardin	H
Sideview Upgrade Tap Modification	Deleted	Bourbon	H
Garrard County Tap 69 kV .04 miles	Deleted	Garrard	H
Toddville 69 kV Tap 0.8 miles	3/15/2009	Garrard	H
<u>NEW DISTRIBUTION SUBSTATIONS</u>			
Jamestown 161-12.47 kV, 12 MVA	Complete	Russell	H
Wiborg 69-25 kV, 11.2 MVA	Complete	McCreary	H
Nelson Valley 69-12.47 kV, 11.2 MVA	Complete	Pulaski	H
Berlin Substation Upgrade/Rebuild to 11.2 MVA	Complete	Bracken	H
Rineyville 69-12.47 kV, 11.2 MVA	Complete	Hardin	H
Hinkston Substation Upgrade/Rebuild to 11.2 MVA	Complete	Montgomery	H
Pleasant Grove Substation Upgrade to 15/20/25 MVA	Deferred	Bullitt	H
W. Mt. Washington #2 New Substation Addition 11.2/14 MVA	Complete	Bullitt	H
West Bardstown #2 69-12.47 kV, 11.2 MVA	Deferred	Nelson	H
Headquarters Substation Upgrade/Rebuild to 11.2 MVA	Complete	Bourbon	H
Big Creek 69-12.47 kV, 11.2 MVA	Complete	Clay	H
Banklick #2 New Substation Addition 11.2/14 MVA	Deferred	Kenton	H
Columbia #2 #2 New Substation Addition 11.2/14 MVA	Deferred	Adair	H
Fort Knox #2 New Substation Addition 11.2/14 MVA	Deleted	Hardin	H
Middle Creek #2 New Substation Addition 11.2/14 MVA	Deferred	Floyd	H
Radcliff #2 New Substation Addition 11.2/14 MVA	Deferred	Hardin	H
Sinai #2 New Substation Addition 11.2/14 MVA (Powell-Taylor)	Deferred	Anderson	H
Turkey Foot #2 69-12.47 kV, 11.2 MVA (Richardson#2)	Deferred	Kenton	H
Balltown #2 New Substation Addition 11.2/14 MVA	Deferred	Nelson	H
Beckton New Substation Addition 11.2/14 MVA	Deferred	Barren	H
Boone County #2 New Substation Addition 11.2/14 MVA	Deferred	Boone	H
Cynthiana #2 New Substation Addition 11.2/14 MVA	Deferred	Harrison	H
Fayette #3 New Substation Addition 11.2/14 MVA	Deferred	Fayette	H
Munfordville #2 New Substation Addition 11.2/14 MVA	Deferred	Hart	H
Taylorville #2 69-12.47 kV, 11.2 MVA	Deleted	Spencer	H
Holloway #2 New Substation Addition 1.2/14 MVA	Deleted	Jessamine	H
Tharp #2 New Substation Addition 11.2/14 MVA	Deleted	Hardin	H

TRANSMISSION PROJECTS 2004-2009	TARGET DATE	KENTUCKY COUNTIES	NEED CATEGORY
<u>NEW DISTRIBUTION SUBSTATIONS</u>			
Vine Grove #2 New Substation Addition 11.2/14 MVA	Deleted	Hardin	H
Clay City #2 New Substation Addition 11.2/14 MVA	Deleted	Powell	H
Williamstown #2 69-12.47 kV, 11.2 MVA	Deleted	Grant	H
Oxford 11.2/14 MVA	Complete	Scott	H
Plummers Mill	Complete	Fleming	H
Upchurch 11.2/14 MVA	Complete	Clinton	H
Little Mount 12/16/29 MVA 161-125.5 kV (Carryover)	Complete	Spencer	H
South Point 11.2/13 MVA, 69-12.5 kV	Complete	Jessamine	H
Bull Run 11.2/14 MVA, 69-25 kV Distr. Substation (NE Columb)	Deleted	Adair	H
Conway 11.2/14 MVA, 69-12.5 kV Distribution Substation	Complete	Rockcastle	H
Corinth 11.2/14 MVA Distribution Substation	Deferred	Grant	H
Deatsville 11.2/14 MVA, 69-12.5 kV Distribution Substation	Complete	Nelson	H
Defoe 11.2/14 MVA, 69-12.5 kV Distribution Substation	Deferred	Henry	H
Gap of the Ridge 11.2/14 MVA, 69-25 kV & 25-12.5 kV Distri. Sub.	Complete	Wayne	H
Oak Ridge Distri. Sub. 11.2/14 MVA 69-25 kV	Complete	Lewis	H
Alex Creek 5.6/6.44 MVA Substation	Complete	Knox, Bell	H
Beattyville #2, 69-12.5 kV, 11.2/14 MVA	Cancelled	Lee	H
Blue Grass Parkway 11.2/14 MVA 69-12.5 kV Distr Sub.	Complete	Nelson	H
Bristow #2 69-12.5kV, 11.2/14 MVA Substation Addition	Complete	Kenton	H
Burlington 15/20/25 MVA 69-12.5 Distr.Sub	Complete	Boone	H
Campbellsville #2 69-12.5 kV, 11.2/14 MVA	Complete	Taylor	H
Cedar Grove Industrial Park Sub 161-12.5kV, 12/16/20 MVA	Complete	Bullitt	H
Downing #2 69-12.5kV, 11.2/14 MVA Substation Addition	Complete	Owen	H
Garlin 11.2/14, 69-12.5 kV MVA Substation	Complete	Taylor	H
Girdler 11.2/14 MVA,69-13.2 kV Substation	Complete	Knox	H
Headquarters 11.2/14 MVA 69-12.5 kV Distribution Station	Complete	Harrison	H
Inez Distribution Site (Purchase Site Only)	Complete	Martin	H
Laurel Co. Ind. Park #2 Station Add. 11.2/14 MVA 69-12.5 kV	Complete	Laurel	H
Liberty Church 11.2/14 MVA, 69--13.2 kV Substation	Complete	Knox	H
Pine Grove #2 69-12.5kV, 11.2/14 MVA Substation Addition	Complete	Laurel	H
Powell-Taylor 11.2/14 MVA, 69-12.5 kV Substation	Complete	Anderson	H
Snow Hill 11.2/14 MVA, 69-25 kV Distribution Station	Complete	Robertson	H
Webb's Cross Roads 11.2 MVA 69-12.5 Distr.Sub	Complete	Russell	H
West Nicholasville #2 69-12.5kV, 11.2/14 MVA Substation Addition	Complete	Jessamine	H
Woodstock 11.2/14 MVA Substation	Complete	Pulaski	H
Smith Back-up Power 69-13.8 kV 11.2/14 MVA	6/1/2010	Clark	H
Sterling Distribution Substation 12/16/20 MVA 138-12.5 kV	Complete	Gallatin	H
Flink Ink 11.2/14 MVA 69-12.5 Distribution Substation	Cancelled	Hardin	H
Sideview Substation Rebuild	Complete	Bourbon	H
Garrard County 11.2/14 MVA 69-12.5 kV	Complete	Garrard	H
Toddville 11.2/14 MVA 69-25 kV Distribution Substation	Complete	Garrard	H

TRANSMISSION PROJECTS 2004-2009	TARGET DATE	KENTUCKY COUNTIES	NEED CATEGORY
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DISTRIBUTION STATION UPGRADES AND MODIFICATIONS

Cave Run Tap, 2-way, 69 kV switch addition (By KU)	Complete	Rowan	J
Brooks rebuild existing 11.2/14 MVA substation	Complete	Bullitt	J
Loretto conversion to 69-25kV, 11.2 MVA	Complete	Marion	J
Milton Substation Upgrade to 6.44 MVA	Deferred	Trimble	J
South Springfield Substation Upgrade to 11.2 MVA	Deferred	Washington	J
West Berea Substation Upgrade to 15/20/25 MVA	Deferred	Madison	J
Knob Creek Sub station Upgrade to 6.44 MVA	Deferred	Bullitt	J
Southville Upgrade Station to 11.2 MVA	Complete	Shelby	J
Grants Lick #2 Upgrade to 15/20/25 MVA	Complete	Grant	J
Hillsboro Convert to 25 kV	Complete	Fleming	J
Headquarters 11.2/14 MVA 69-12.5 kV Distribution Station	Complete	Harrison	J
Leon Upgrade, 11.2 MVA	Complete	Carter	J
McKinney Corner Upgrade, 11.2 MVA	Complete	Green	J
Boone Sub. Upg. to 15/20/25 MVA (Phase I & 2)	Complete	Boone	J
Stanton Box/Circuit Addition	Complete	Powell	J
Phil Substation 12.5 Box Addition	Complete	Casey	J

MISCELLANEOUS DISTRIBUTION ADDITIONS

Distribution Capacitors	Complete	--	K
Change-Out 10-69 kV Breakers	Complete	--	K
Change-Out 1-138 kV Breaker	Complete	--	K
Change-Out 6-69 kV Breakers	Complete	--	K
Distribution Capacitors-2006	Complete	--	K

TRANSMISSION PROJECTS 2004-2009	TARGET DATE	KENTUCKY COUNTIES	NEED CATEGORY
<u>MISCELLANEOUS TRANSMISSION ADDITIONS</u>			
Avon Trans. Sta. -Digital Fault Recorder	12/1/2009	Fayette	B
Bonnieville 69 kV Install new Relay Panels	Complete	Hart	B
Boone 69kV Relay Replacement	12/1/2009	Boone	B
Bullitt County Digital Fault Recorder	Complete	Bullitt	B
Cooper 69 kV Install new Relay Panels	10/1/2009	Pulaski	B
Cooper Switchyard -Digital Fault Recorder	12/31/2009	Pulaski	B
Dale Station 138 kV Switchyard Monitoring	Complete	Clark	B
Dale Station Upgrade- 3- 138kV Breakers	6/1/2009	Clark	B
Dale-Replace Sw., Main Bus, Lightning, Arrester, Etc	Complete	Clark	B
Denny 69 kV\ Install new Relay Panels	12/1/2009	Wayne	B
Gilbert GSU Spare Transformer	Complete	Mason	B
Goddard -Replace Goddard 69 kV Line Panels	Complete	Fleming	B
Green County 69 kV Relay Replacement	12/1/2009	Green	B
Hardin County Landfill - Plant GSU, Reclosers & Meter Add.	Complete	Hardin	H
Hope 69 kV Install new Relay Panels	Complete	Powell	B
Leon 69 kV Install new Relay Panels	Complete	Carter	B
Marion County - 161 kV Install new Relay Panels	10/1/2009	Marion	B
McCreary County Digital Fault Recorder	Deferred	McCreary	B
Pendleton County Landfill - Plant GSU, Reclosers & Meter Add.	Complete	Pendleton	H
Powell County 69 kV Relay Replacement	Complete	Powell	B
Renaker 138 kV Install new Relay Panels	10/1/2009	Harrison	B
Renaker 69kV Switchyard- Replace Switches and Main Bus	Complete	Harrison	B
Replace Obsolete Relays (5 Locations)	Complete	-----	B
Skaggs 69 kV Relay Replacement	6/19/2009	Lawrence	B
Somerset 69 kV Switchyard - Repl. Sw. & Main Bus	12/1/2009	Pulaski	B
Somerset 69 kV Breaker Replacements (4) 69 kV	Complete	Pulaski	B
Somerset 69 kV Relay Replacement	Complete	Pulaski	B
Summersshade 69 kV Relay Replacement	Complete	Metcalfe	B
Summersshade -Replace 161 kV Line Panels	6/1/2009	Metcalfe	B
Tyner 161/69 kV - Install New Relay Panels	Complete	Jackson	B
Tyner 69kV Switchyard-Replace Switches and Main Bus	12/1/2012	Jackson	B

Need Category--Description

- A Generation outlet or required facility to integrate new generating units(s)
- B Eliminate potential thermal overload(s) for normal or single contingency outage conditions
- C Eliminate Potential low voltage level(s) for normal or single contingency outage conditions
- D Provide back feed for radially fed substation(s).
- E Reduce MW-mile outage exposure to switched circuit.
- F Improve transient stability margin at generating plant or generating unit(s).
- G Reduce losses on line section.
- H New member system delivery point
- J Upgrade member system delivery point
- K Power factor correction