



April 30, 2012

Mr. Jeff Derouen
Executive Director
Kentucky Public Service Commission
211 Sower Boulevard
P.O. Box 615
Frankfort, Kentucky 40602-0615

RECEIVED

APR 30 2012

PUBLIC SERVICE
COMMISSION

Re: Annual Resource Assessment for East Kentucky Power Cooperative, Inc.
(Administrative Case No. 387) and FERC Form No. 1: Annual Report of Major Electric
Utilities, Licensees and Others

Dear Mr. Derouen:

Pursuant to the Commission's Order dated October 7, 2005 in Administrative Case No.
387, please find enclosed for filing with the Commission an original and ten copies of the
2011 Annual Resource Assessment for East Kentucky Power Cooperative, Inc. ("EKPC")

Also enclosed for filing is one signed copy of the FERC Form No. 1: Annual Report of
Major Electric Utilities, Licensees and Others of EKPC.

If you have any questions, please call me.

Very truly yours,

A handwritten signature in cursive script that reads 'Ann F. Wood'.

Ann F. Wood
Director, Regulatory Services

Enclosures

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) ADMINISTRATIVE
CAPACITY AND TRANSMISSION) CASE NO. 387
SYSTEM)

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

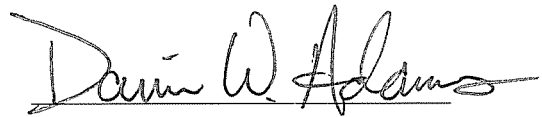
In the Matter of:

A REVIEW OF THE ADEQUACY)	
OF KENTUCKY'S GENERATION)	PSC ADMINISTRATIVE
CAPACITY AND TRANSMISSION)	CASE NO. 387
SYSTEM)	

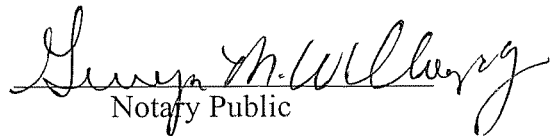
CERTIFICATE

STATE OF KENTUCKY)
)
 COUNTY OF CLARK)

Darrin W. Adams, being duly sworn, states that he has supervised the preparation of the responses of East Kentucky Power Cooperative, Inc. to the Public Service Commission in the above-referenced case dated December 20, 2001, and that the matters and things set forth therein are true and accurate to the best of his knowledge, information and belief, formed after reasonable inquiry.



Subscribed and sworn before me on this 30th day of April, 2012.



Notary Public

MY COMMISSION EXPIRES NOVEMBER 30, 2013
 NOTARY ID #409352

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

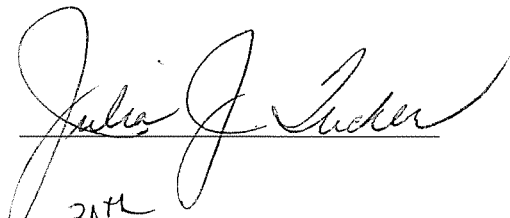
In the Matter of:

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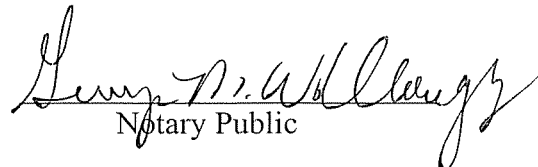
CERTIFICATE

STATE OF KENTUCKY)
)
 COUNTY OF CLARK)

Julia J. Tucker, being duly sworn, states that she has supervised the preparation of the responses of East Kentucky Power Cooperative, Inc. to the Public Service Commission in the above-referenced case dated December 20, 2001, and that the matters and things set forth therein are true and accurate to the best of her knowledge, information and belief, formed after reasonable inquiry.



Subscribed and sworn before me on this 30th day of April, 2012.



Notary Public

MY COMMISSION EXPIRES NOVEMBER 30, 2013
 NOTARY ID #409352

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.

The requests listed below, which were originally contained in Appendix G of the Commission's Order dated December 20, 2001, are no longer required pursuant to the Commission's Order of March 29, 2004, amending the previous Order.

Request No. 1

Request No. 2

Request No. 5

Request No. 9

Request No. 10

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: Julia J. Tucker

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 2011		
	Actual (Firm and Non-Firm) (MW)	Weather Adjusted (Firm and Non-Firm) (MW)
January	2,865	3,083
February	2,891	2,895
March	2,005	2,216
April	1,992	2,019
May	2,141	2,126
June	2,141	2,116
July	2,388	2,313
August	2,261	2,291
September	2,260	2,191
October	1,693	1,676
November	2,121	2,184
December	2,260	2,422

Response 3b. EKPC had no off-system demand obligations during the calendar year 2011.

**EAST KENTUCKY POWER COOPERATIVE, INC.
PSC ADMINISTRATIVE CASE NO. 387
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PUBLIC SERVICE COMMISSION REQUEST DATED 12/20/01

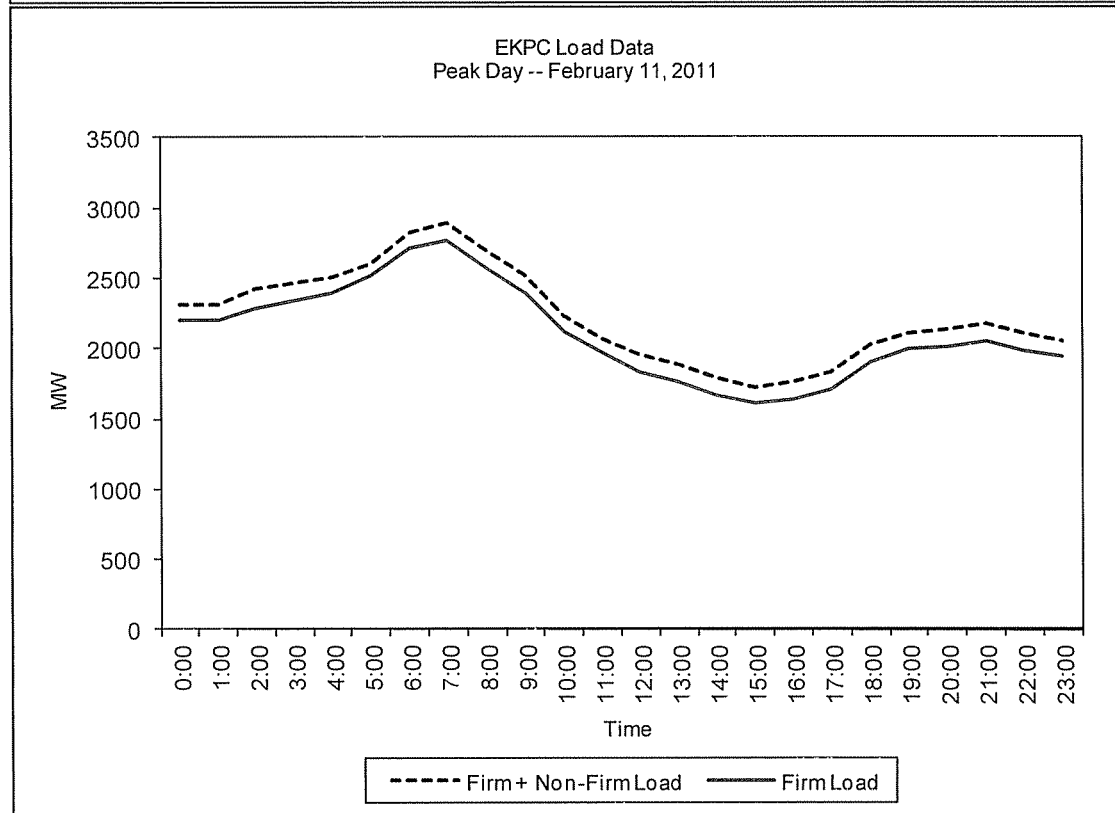
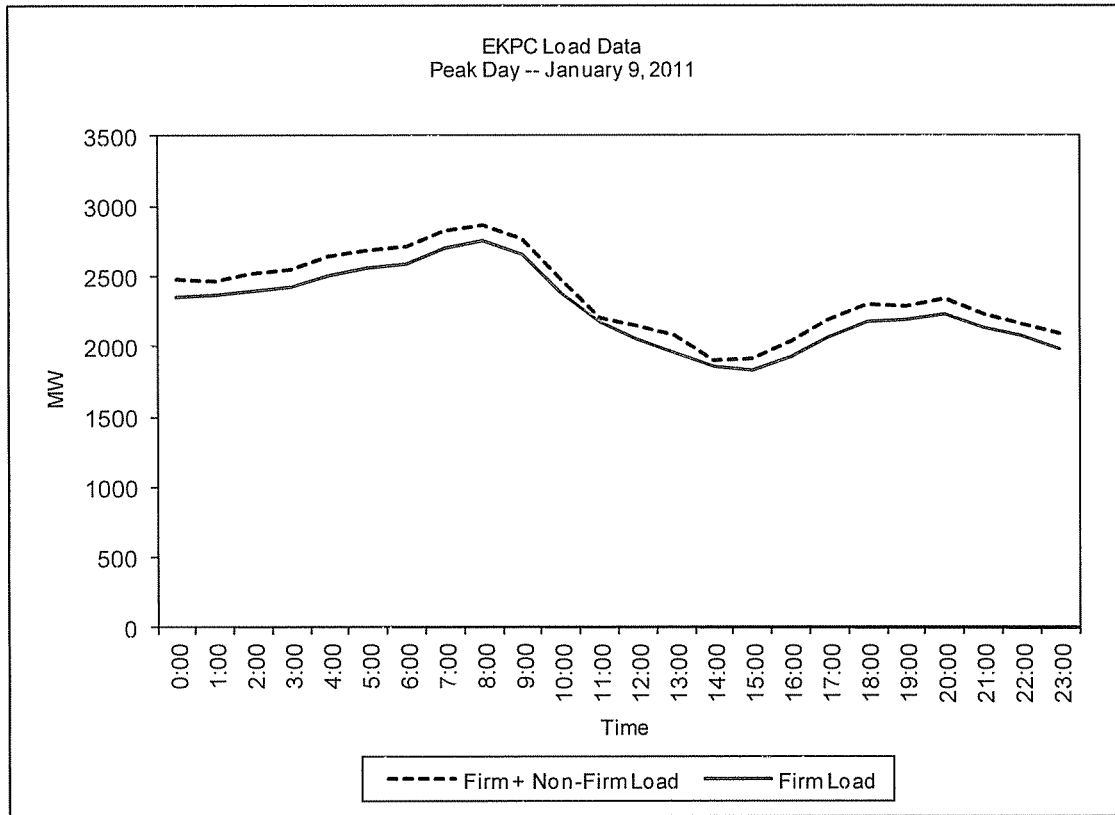
REQUEST 4

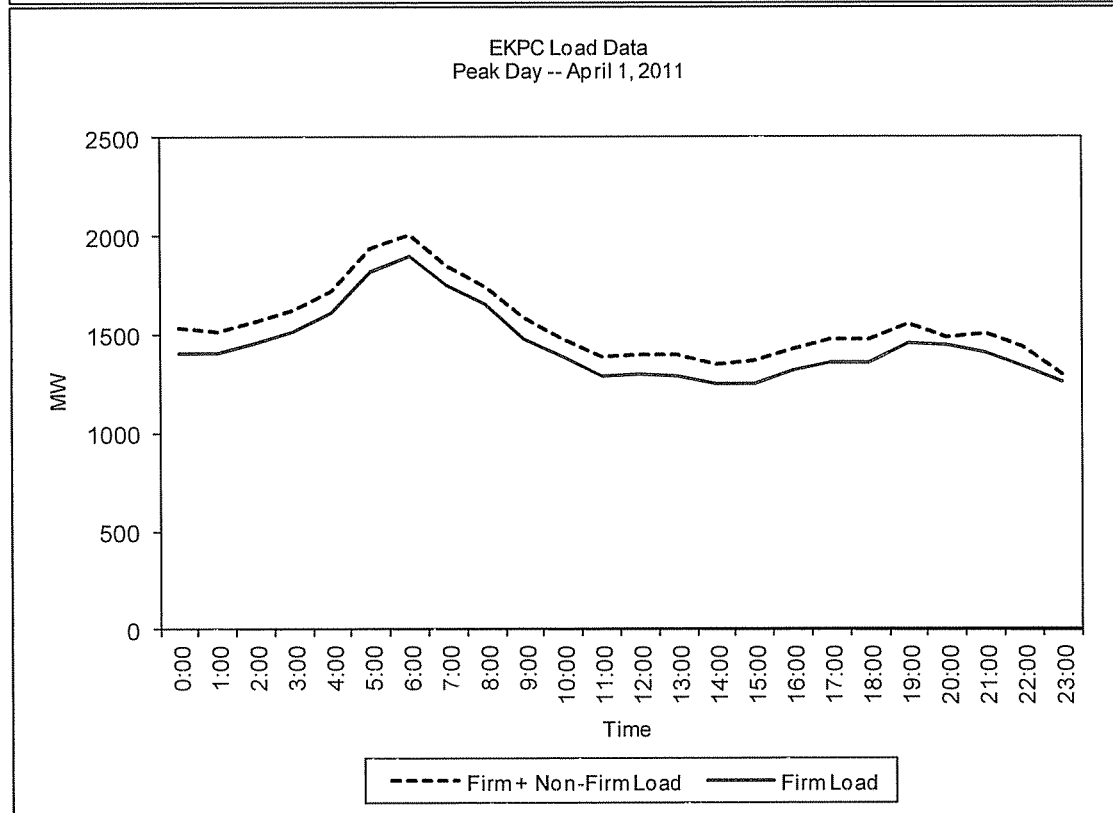
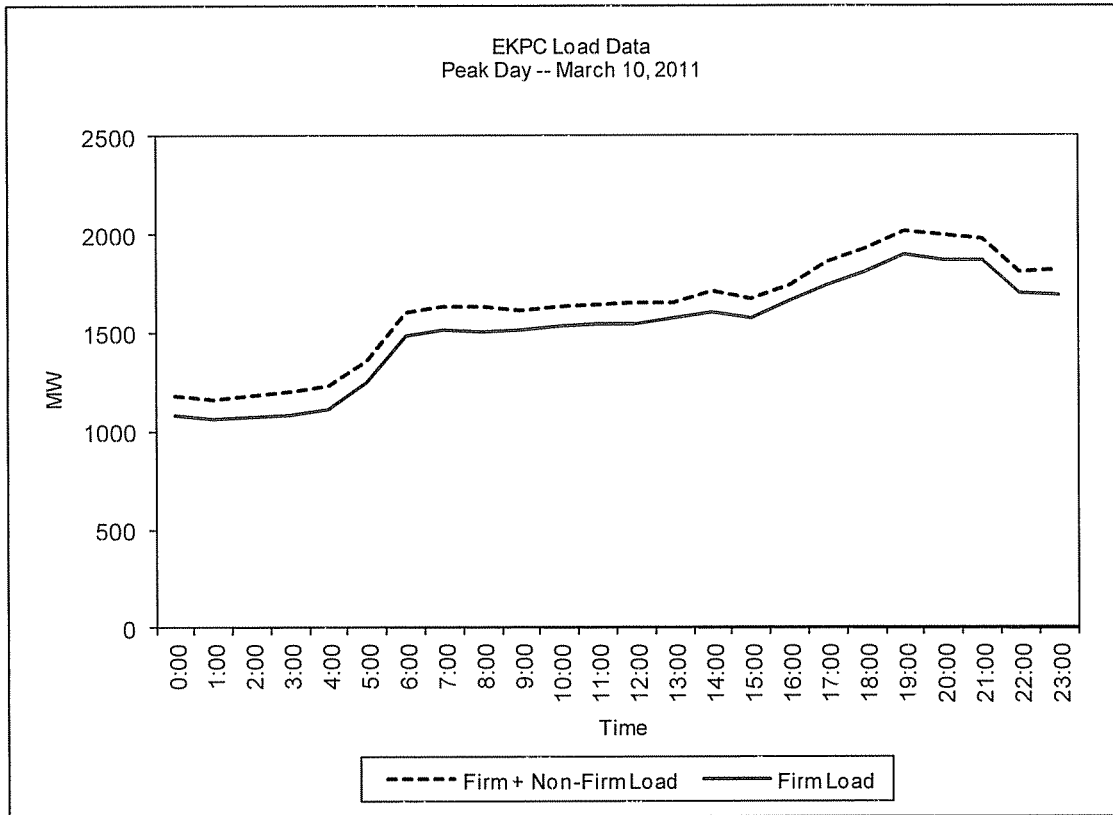
RESPONSIBLE PERSON: Julia J. Tucker

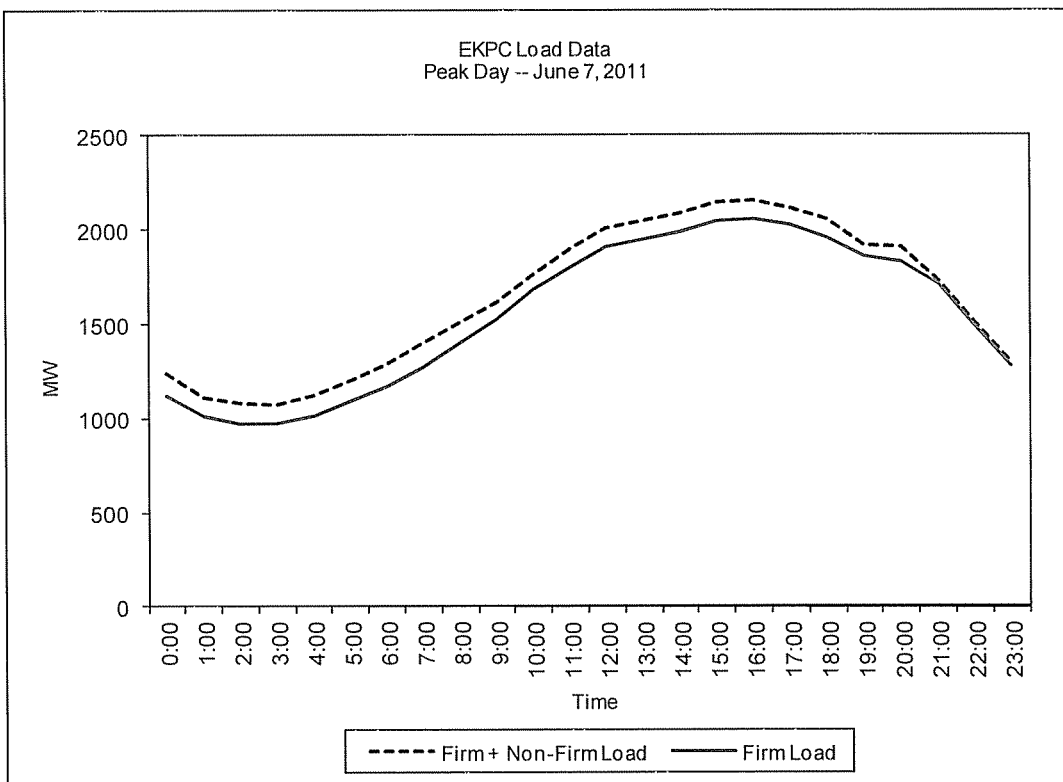
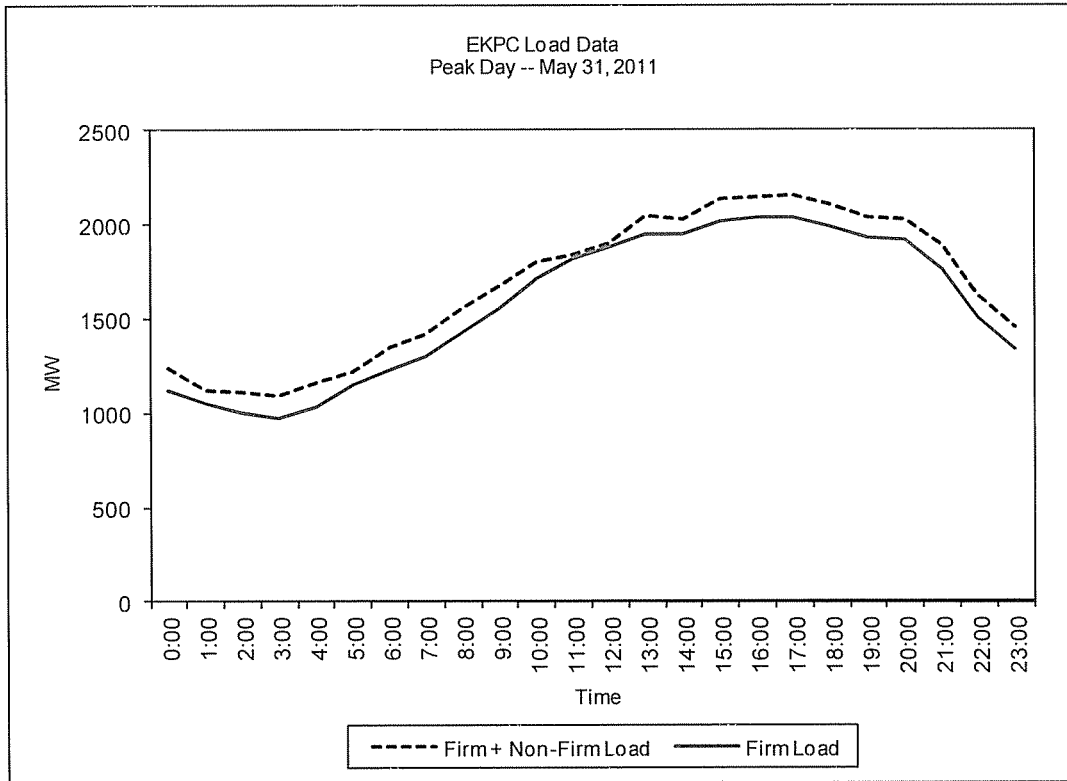
COMPANY: East Kentucky Power Cooperative, Inc.

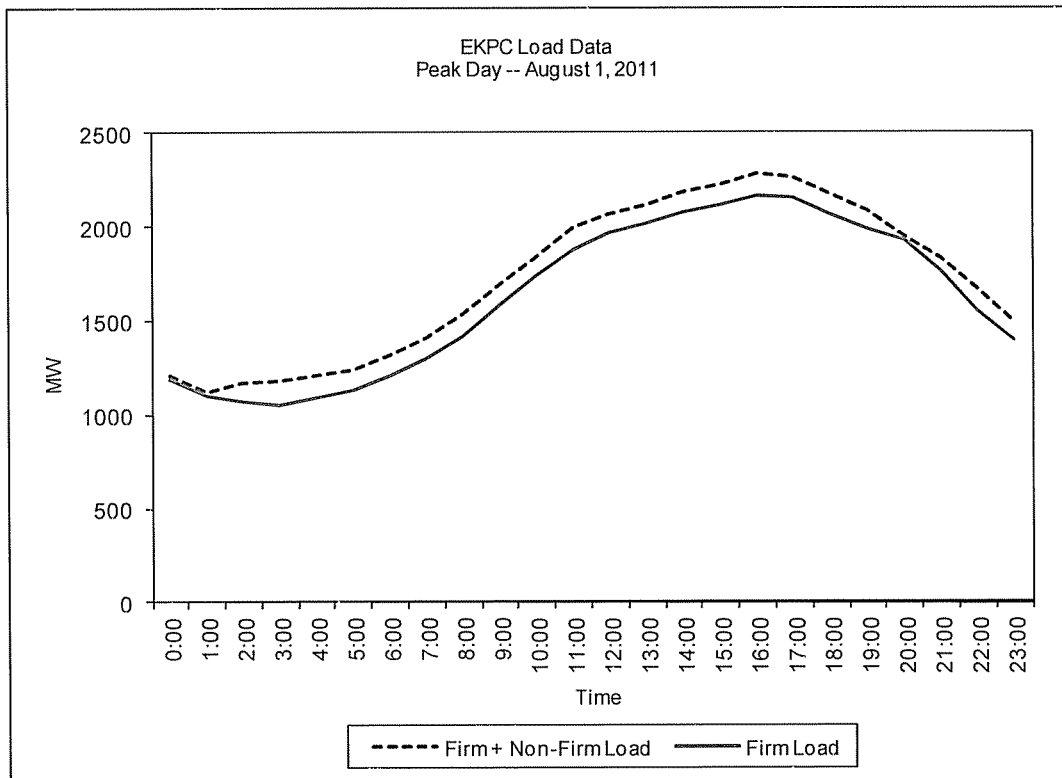
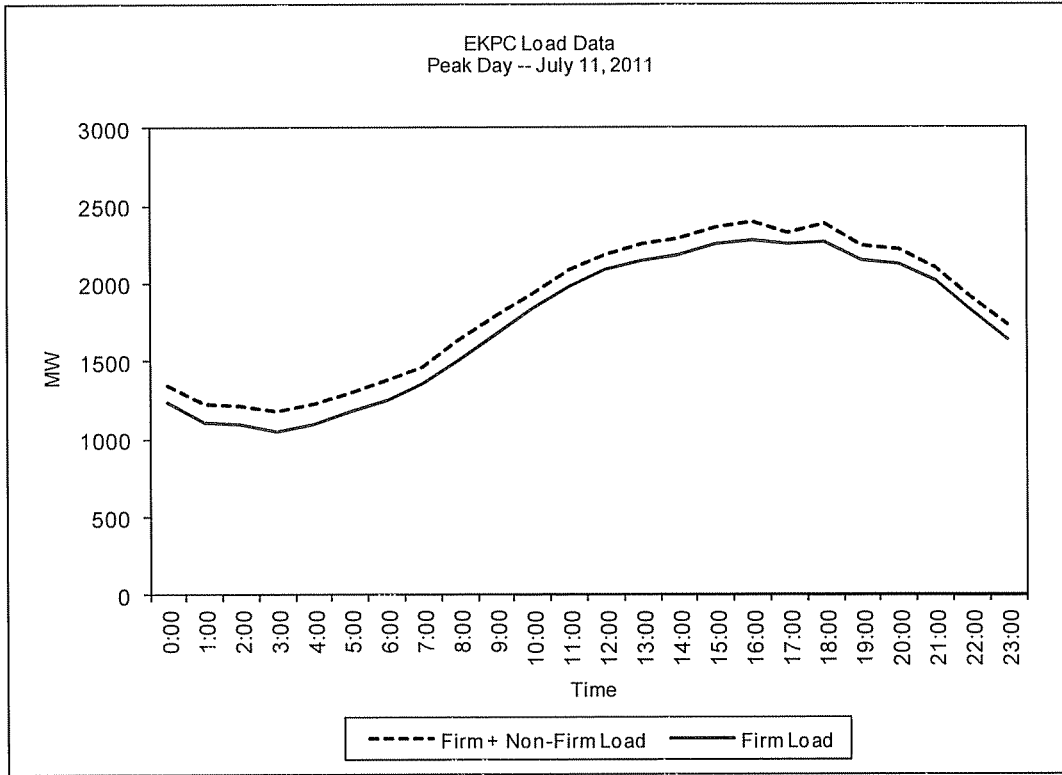
Request 4. Load shape curves that show actual peak demands and weather-normalized peak demands (native load demand and total demand) on a monthly basis for the just completed calendar year.

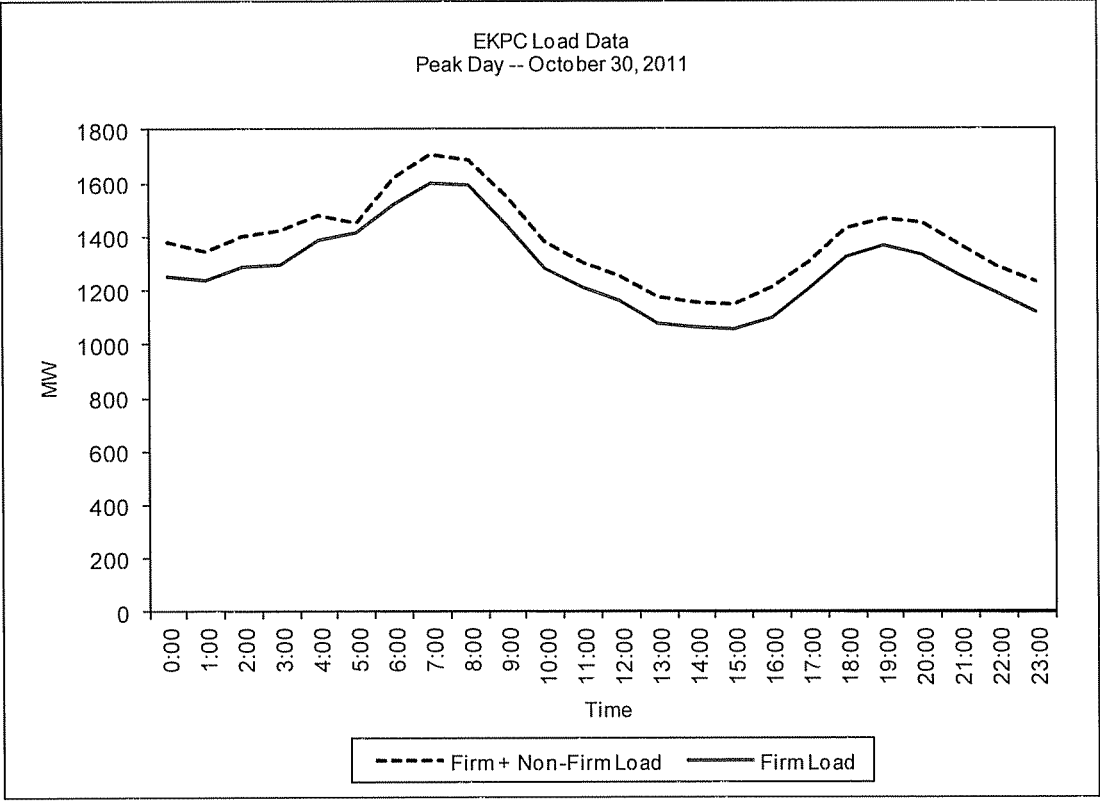
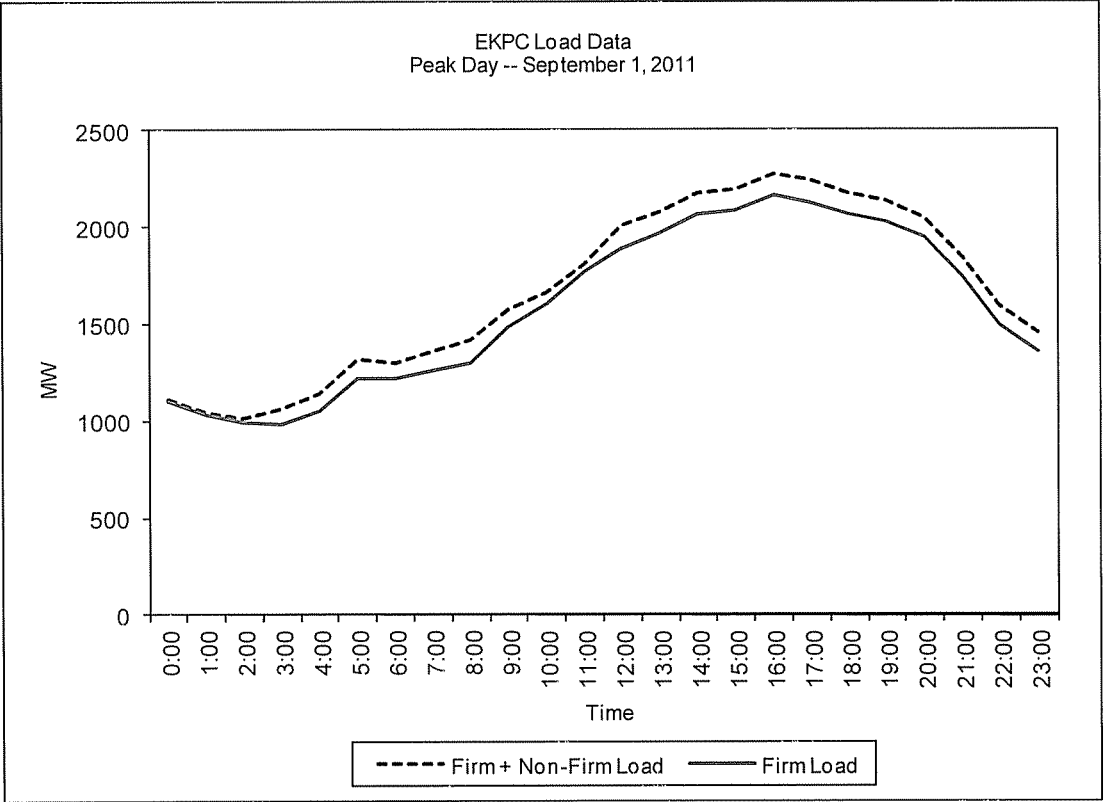
Response 4. Actual monthly peak day load shapes are presented on pages 2 through 7 of this response. EKPC makes an analysis to weather normalize the peak hour but EKPC does not weather adjust the peak day load shapes.

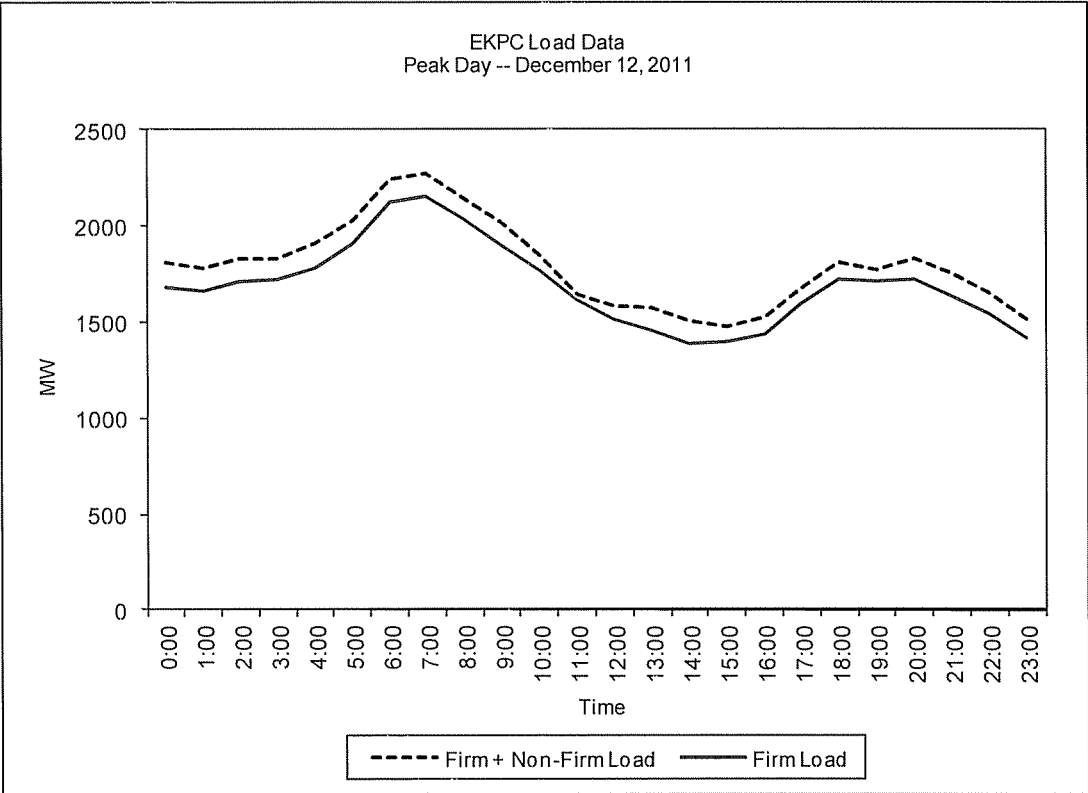
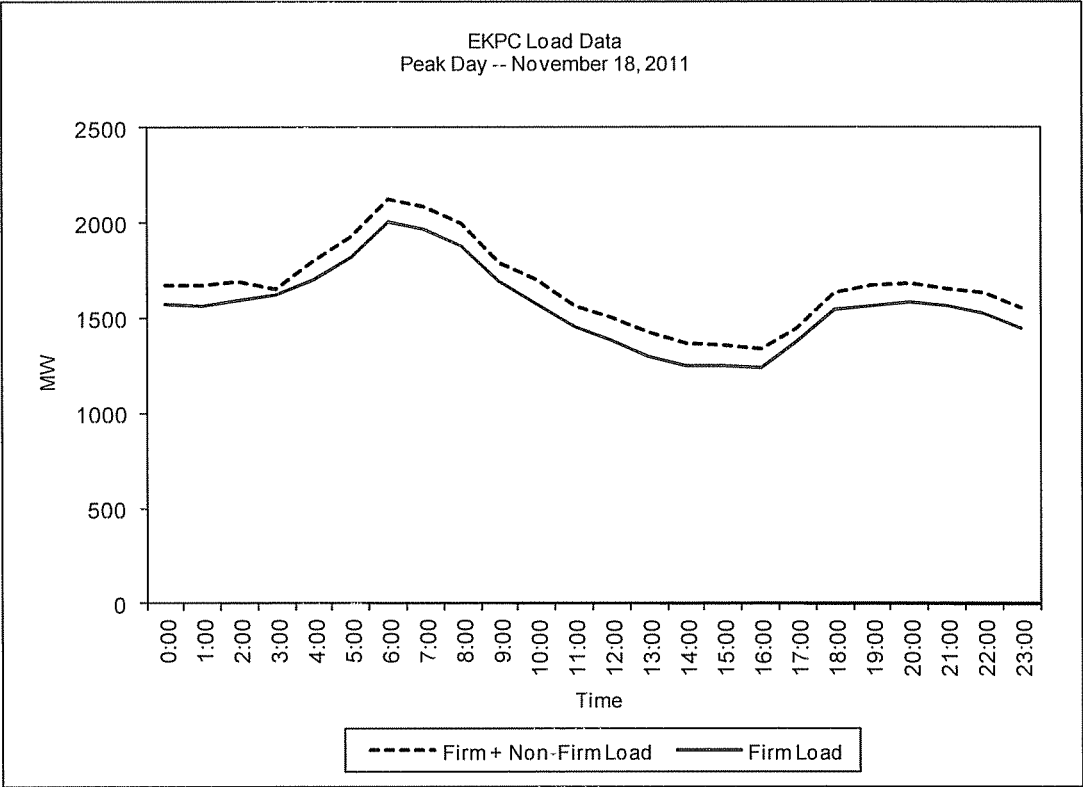












EAST KENTUCKY POWER COOPERATIVE, INC.
PSC ADMINISTRATIVE CASE NO. 387
ANNUAL RESOURCE ASSESSMENT FILING

PUBLIC SERVICE COMMISSION REQUEST DATED 12/20/01

REQUEST 6

RESPONSIBLE PERSON: Julia J. Tucker

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 table 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)			Year	Total Requirements (MWh)		
	Low Case	Base Case	High Case		Low Case	Base Case	High Case		Low Case	Base Case	High Case
2011-12	2,819	3,006	3,145	2012	2,016	2,246	2,302	2012	11,738,175	12,860,110	13,393,654
2012-13	2,782	3,002	3,156	2013	1,977	2,234	2,299	2013	11,583,455	12,878,797	13,448,774
2013-14	2,768	3,016	3,195	2014	1,954	2,232	2,316	2014	11,551,697	12,997,446	13,647,571
2014-15	2,777	3,063	3,261	2015	1,948	2,250	2,349	2015	11,591,819	13,210,215	13,935,476
2016-17	2,787	3,106	3,328	2016	1,944	2,270	2,383	2016	11,669,573	13,452,992	14,272,956

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: **Julia J. Tucker**

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%.

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: Julia J. Tucker

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 show the projected reserve margins, capacity needs, and plans to address the needs.

Year	Reserve Margin (%)		Reserve Margin (MW)		Committed Firm Purchases (MW)		Additional Purchases Needed to Meet Reserve Margin (MW)	
	WIN	SUM	WIN	SUM	WIN	SUM	WIN	SUM
2012	14.8%	21.0%	361	280	50	50	150	0
2013	15.6%	21.4%	360	279	50	50	350	0
2014	15.2%	20.9%	362	280	50	50	350	0
2015	15.0%	20.8%	368	285	0	0	350	0
2016	13.5%	17.6%	373	291	0	0	350	0

Year	Total Firm Purchases (Committed + Needed) Used to Meet Reserve Margin (MW)		Firm Transmission Purchased
	WIN	SUM	
2012	200	50	400
2013	400	50	400
2014	400	50	400
2015	400	0	400
2016	400	0	400

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: Julia J. Tucker

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. Please see scheduled outage information below and through page 6 of this response. Please note there are no retirements of generating capacity anticipated through 2016.

Dale Unit 1

2012	0 weeks or less
2013	0 weeks or less
2014	4 weeks or less
2015	4 weeks or less
2016	4 weeks or less

Dale Unit 2

2012	0 weeks or less
2013	0 weeks or less
2014	4 weeks or less
2015	4 weeks or less
2016	4 weeks or less

Dale Unit 3

2012	4 weeks or less
2013	3 weeks or less
2014	4 weeks or less
2015	4 weeks or less
2016	4 weeks or less

Dale Unit 4

2012	3 weeks or less
2013	3 weeks or less
2014	4 weeks or less
2015	4 weeks or less
2016	4 weeks or less

J.K. Smith CT1

2012	2 weeks or less
2013	8 weeks or less
2014	4 weeks or less
2015	4 weeks or less
2011	4 weeks or less

J.K. Smith CT2

2012	1 week or less
2013	1 week or less
2014	4 weeks or less
2015	4 weeks or less
2016	4 weeks or less

J.K. Smith CT3

2012	1 week or less
2013	1 week or less
2014	4 weeks or less
2015	4 weeks or less
2016	4 weeks or less

J.K. Smith CT4

2012	4 weeks or less
2013	1 week or less
2014	4 weeks or less
2015	4 weeks or less
2016	4 weeks or less

J.K. Smith CT5

2012	0 weeks or less
2013	3 weeks or less
2014	4 weeks or less
2015	4 weeks or less
2016	4 weeks or less

J.K. Smith CT6

2012	0 weeks or less
2013	0 weeks or less
2014	4 weeks or less
2015	4 weeks or less
2016	4 weeks or less

J.K. Smith CT7

2012	0 weeks or less
2013	1 week or less
2014	4 weeks or less
2015	4 weeks or less
2016	4 weeks or less

J.K. Smith CT9

2012	2 weeks or less
2013	2 weeks or less
2014	4 weeks or less
2015	4 weeks or less
2016	4 weeks or less

J.K. Smith CT10

2012	2 weeks or less
2013	2 weeks or less
2014	4 weeks or less
2015	4 weeks or less
2016	4 weeks or less

Cooper 1

2012	4 weeks or less
2013	3 weeks or less
2014	4 weeks or less
2015	4 weeks or less
2016	4 weeks or less

Cooper 2

2012	12 weeks or less
2013	3 weeks or less
2014	4 weeks or less
2015	4 weeks or less
2016	4 weeks or less

Spurlock 1

2012	2 weeks or less
2013	6 weeks or less
2014	4 weeks or less
2015	4 weeks or less
2016	4 weeks or less

Spurlock 2

2012	8 weeks or less
2013	2 weeks or less
2014	4 weeks or less
2015	4 weeks or less
2016	4 weeks or less

Gilbert 3

2012	4 weeks or less
2013	4 weeks or less
2014	4 weeks or less
2015	4 weeks or less
2016	4 weeks or less

Spurlock 4

2012	4 weeks or less
2013	3 weeks or less
2014	4 weeks or less
2015	4 weeks or less
2016	4 weeks 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: Julia J. Tucker

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. Although there is an expectation of additional capacity requirements in the 2016 to 2021 time frame, no specific base load or peaking additions are planned at this time. EKPC will issue a Request for Proposals for power supply in the near future and expects to have final results by the end of 2012.

**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: Darrin W. Adams

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. The total energy received from all interconnections and from generation sources connected to the EKPC transmission system for calendar year 2011 was 24,604,987 MWh. The total energy delivered to all interconnections on the EKPC system was 12,158,581 MWh.

The forecasted total energy requirements for the EKPC system for 2012 through 2016 are as follows:

2012	12,860,110 MWh
2013	12,878,797 MWh
2014	12,997,446 MWh
2015	13,210,215 MWh
2016	13,452,992 MWh

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. 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-Loudon Avenue 138 kV Circuit (EKPC-LGEE)
- The Summershade-Summershade Tap 161 kV Circuit (TVA-EKPC)

EKPC has performed transmission import capability studies for its system as well. These studies indicate that there are no limitations within the EKPC system that would prevent EKPC from importing up to 2000 MW during peak-load conditions.

EKPC has constructed facilities to address some of the limitations that had previously been identified on its transmission system. These facilities include the J.K. Smith-West Garrard 345 kV line, the J.K. Smith-North Clark 345 kV line, the Cranston-Rowan County 138 kV line, and the Marion County 161-138 kV transformer upgrade. EKPC has implemented dynamic ratings on some highly-loaded facilities to increase available capacity based on actual ambient system conditions.

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	2011	2012	2013	2014	2015	2016
Date		07/11/11					
Hr.		1700					
Peak Demand (MW)		2,388	2,246	2,234	2,232	2,250	2,270
	Winter	2011	2012	2013	2014	2015	2016
Date		02/11/11	01/13/12				
Hr.		0800	0900				
Peak Demand (MW)		2,891	2,481*	3,002	3,016	3,063	3,106

* Represents January 2012 actual winter peak.

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: Darrin W. Adams
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. EKPC has recently filed its 2012 Integrated Resource Plan (“IRP”) [Case No. 2012-00149]. Pages 2 through 13 of this response include the 15-year transmission expansion schedule that was included in the 2012 IRP. During this period, 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.

- 132 miles of new transmission line (161 kV, 138 kV, and 69 kV)
- 229 miles of transmission line reconductor/rebuild (69 kV)
- 8 new transmission substations or upgrades (610 MVA added)
- 9 new transmission switching stations
- 52 transmission capacitor banks (766 MVAR)
- 15 projects – upgrade terminal facilities
- 19 modifications of existing substations

EKPC 15-YEAR TRANSMISSION EXPANSION SCHEDULE (2012-2026)	
A. New Transmission Lines and Transmission Substations	Needed In-Service Date
<u>Project Description</u>	
Operate the Goldbug-Wofford (LGEE) 69 kV line normally closed	6/2012
Construct a 3-breaker 69 kV switching substation at Hunt Farm Junction.	10/2012
Construct approximately 9.7 miles of 69 kV line, using 556.5 MCM ACSR/TW conductor, between the Keith and Owen County substations. Add 69 kV terminal facilities at Owen County. Operate the Keith-Owen County line normally-open.	12/2012
Construct 8.8 miles of 69 kV line, using 556.5 MCM ACSR/TW conductor, between the Cave City and Bon Ayr distribution substations. Install terminal equipment at the Cave City, Bon Ayr, and Fox Hollow substations to form a 69 kV circuit between the Barren County and Fox Hollow substations.	12/2013
Replace the existing 100 MVA, 161-69 kV transformer bank at Bullitt County substation with a 150 MVA transformer.	12/2013
Construct 8.6 miles of 69 kV line, using 556.5 MCM ACSR/TW conductor, between the Mercer County Industrial and Van Arsdell distribution substations. Construct a 69 kV switching substation ("South Anderson") at Bonds Mill Junction located adjacent to KU's existing Bonds Mill switching substation. Construct 0.12 miles of 69 kV line, using 266.8 MCM ACSR conductor, between the South Anderson substation and the Powell/Taylor 69 kV tap line. Serve the Powell/Taylor distribution substation radially from the South Anderson switching substation.	12/2013
Purchase a spare 345-13.8 kV, 200 MVA GSU transformer for J.K. Smith CTs 9 & 10	12/2013
Construct 2.7 miles of 69 kV line, using 556.5 MCM ACSR/TW conductor, between the Fox Hollow and Parkway substations. Serve the Parkway #1 and #2 distribution substations radially from the Fox Hollow switching substation. Install additional terminal equipment at the Fox Hollow substations.	6/2014
Replace the existing 138-69 kV transformer bank at Plumville substation with a 150 MVA transformer.	12/2014
Construct 0.11 miles of 69 kV line, using 266.8 MCM ACSR conductor, between the Powell County and Stanton substations. Serve the Stanton distribution substation radially from the Powell County switching substation. Install terminal equipment at the Powell County substation.	12/2014
Re-configure the Hunt distribution tap line to serve it normally from the Dale-Powell County 69 kV circuit.	12/2014
Install a new 69 kV breaker at Clay Village for the existing Clay Village-Owen County 69 kV line.	12/2014

EKPC 15-YEAR TRANSMISSION EXPANSION SCHEDULE (2012-2026)	
A. New Transmission Lines and Transmission Substations (continued)	Needed In-Service Date
<u>Project Description</u>	
Construct 6.2 miles of 69 kV line, using 266.8 MCM ACSR conductor, from the Oakdale distribution substation to a tap point adjacent to AEP's Jackson substation. Install terminal equipment at the Oakdale and AEP Jackson substations. Operate the Oakdale to AEP Jackson line in the normally open mode.	12/2015
Construct 3.9 miles of 69 kV line, using 795 MCM ACSR conductor, from the Beattyville distribution substation to Oakdale Junction. Construct a 69 kV switching substation at Oakdale Junction.	12/2016
Construct a 2 nd 69 kV line, using 556.5 MCM ACSR/TW conductor, from EKPC's Thelma substation to AEP's Thelma #2 substation. Install 69 kV terminal equipment at the EKPC and AEP Thelma (#2) substations.	12/2016
Construct 5.4 miles of 69 kV line, using 266.8 MCM ACSR conductor, from KU's Lynch-Imboden 69 kV line to EKPC's Arkland substation. Operate this line normally open.	12/2016
Construct a 69 kV switching station at the existing Phil distribution substation location.	12/2016
Construct 3.5 miles of 69 kV line, using 266.8 MCM ACSR conductor, from AEP's Morehead-Hayward 69 kV line to EKPC's Elliottville substation. Operate this line normally open.	12/2016
Construct a 69 kV switching substation at the existing Munk Junction location. Operate the Renaker-Williamstown Line in the normally closed mode.	12/2017
Replace the Powell County 138/69 kV, 100 MVA transformer with a 150 MVA transformer.	12/2018
Construct a 161/69 kV substation at a new site ("Clinton County") located between the Snow and Upchurch distribution substations. Construct a 4.5 mile 69 kV line, using 954 MCM ACSR conductor, between the Snow, Clinton County, and Upchurch substations. Construct a 9 mile, 161 kV line, using 795 MCM ACSR conductor, between the Clinton County and Wolf Creek (USACE) substations. Install 161 kV terminal facilities at the Wolf Creek substation. Operate the Albany-Upchurch Junction 69 kV line section in the normally open mode.	12/2019
Construct a 138/69 kV substation at the existing South Jessamine Junction location. Construct a 7.3 mile, 138 kV line, using 795 MCM ACSR conductor, between the South Jessamine Junction and Fayette 138/69 kV substations. Install 138 kV terminal facilities at the Fayette substation.	12/2019
Construct a 138/69 kV substation at or adjacent to the existing Three Links Junction 69 kV switching substation. Construct a 7.5 mile, 138 kV line, using 795 MCM ACSR conductor, between the Three Links Junction and West Berea 138/69 kV substations. Install 138 kV terminal facilities at the West Berea substation.	12/2020

EKPC 15-YEAR TRANSMISSION EXPANSION SCHEDULE (2012-2026)	
A. New Transmission Lines and Transmission Substations (continued)	Needed In-Service Date
<u>Project Description</u>	
Construct a 69 kV switching substation at the existing Penn distribution substation. Operate the Keith-Penn line in the normally closed mode.	6/2021
Construct a 2 nd 2.9-mile 69 kV line, using 556.5 MCM ACSR conductor, between the Plumville and Rectorville substations. Operate this new line normally closed and the existing line normally open to serve the Rectorville substation radially. Install 69 kV terminal facilities at the Plumville substation.	12/2022
Construct 12.8 miles of 69 kV line, using 556.5 MCM ACSR conductor, from Coburg to Green County. Construct a 69 kV switching substation at Coburg Junction. Install a 69 kV line breaker at Green County Substation.	12/2022
Construct a 2 nd 5.7-mile 69 kV line, using 556.5 MCM ACSR conductor, between the Wayne County and Slat substations. Operate this new line normally closed and the existing line normally open to serve the Slat substation radially. Install 69 kV terminal equipment at the Wayne County Substation.	12/2022
Construct approximately 0.5 miles of 138 kV line, using 556.5 MCM ACSR conductor, between the EKPC Thelma and AEP Thelma substations. Install a 138-69 kV, 100 MVA transformer at EKPC's Thelma substation.	12/2022
Construct 10.9 miles of 69 kV line, using 556.5 MCM ACSR conductor, between the Maggard and Magoffin County substations. Construct a 69 kV switching station at Maggard. Install 69 kV terminal equipment at the Magoffin County substation.	12/2023
Construct 3.7 miles of new 69 kV line between Patton Road Junction and Fox Hollow using 556.5 MCM ACSR conductor. Operate this new line as a separate circuit between Summersshade and Fox Hollow by connecting to the existing KH line and constructing 0.15 miles of 69 kV line between Summersshade and Summersshade Junction using 556.5 MCM ACSR conductor. Install 69 kV terminal equipment at the Summersshade and Fox Hollow substations.	6/2024
Install two (2) 69 kV circuit breakers at the Zachariah 69 kV Substation.	6/2024
Construct a new 69 kV switching station at Brodhead connecting EKPC's Three Links Junction-Walnut Grove 69 kV line to KU's Lancaster-Mt. Vernon 69 kV line.	12/2024
Construct 17.7 miles of new 138 kV line between Skaggs and Thelma using 795 MCM ACSR conductor. Install 138 kV terminal facilities at Skaggs and Thelma.	12/2024
Construct a 138-69 kV, 100 MVA substation (Rineyville Junction) near the location where EKPC's Elizabethtown-Radcliff 69 kV line crosses KU's Hardin County-Rogersville 138 kV line.	12/2025

EKPC 15-YEAR TRANSMISSION EXPANSION SCHEDULE (2012-2026)	
B. Transmission Line Re-conductor/Rebuild Projects	Needed In-Service Date
Project Description	
Re-conductor the 1/0 ACSR conductor in the Clay Village-New Castle 69 kV line section (14.4 miles) using 556.5 MCM ACSR/TW ("ACTW") wire.	12/2013
Re-conductor the 4/0 ACSR conductor in the Brodhead-Three Links Jct 69 kV line section (8.2 miles) using 556.5 MCM ACTW wire.	12/2014
Re-conductor the 1/0 ACSR conductor in the Cynthiana Jct-Headquarters 69 kV line section (10.2 miles) using 556.5 MCM ACTW wire.	12/2014
Re-conductor the 4/0 ACSR conductor in the Norwood Jct-Shopville 69 kV line section (6.3 miles) using 556.5 MCM ACTW wire.	12/2014
Re-conductor the 266.8 MCM portion (1.3 miles) of the Baker Lane-Holloway Jct 69 kV line using 556.5 MCM ACTW wire.	12/2015
Rebuild the 3.16-mile Davis-Fayette 69 kV line using double circuit 138/69 kV construction. Install only the 69 kV conductor using 556.5 MCM ACTW wire.	12/2016
Rebuild the 4.0-mile Davis-Nicholasville 69 kV line using double circuit 138/69 kV construction. Install only the 69 kV conductor using 556.5 MCM ACTW wire.	12/2017
Re-conductor the 3/0 ACSR conductor in the Fort Knox Jct-Rineyville Jct 69 kV line section (0.44 miles) using 556.5 MCM ACTW wire.	12/2017
Re-conductor the 1/0 ACSR conductor in the W.Bardstown-W.Bardstown Jct 69 kV line section (4.5 miles) using 556.5 MCM ACTW wire.	6/2018
Re-conductor the 2/0 ACSR portion (4.2 miles) of the Nelson County-Colesburg Jct 69 kV line section using 556.5 MCM ACTW wire.	12/2018
Re-conductor the 3/0 ACSR conductor in the Charters-Oak Ridge Jct-Goddard 69 kV line section (8.0 miles) using 556.5 MCM ACTW wire.	12/2019
Re-conductor the 4/0 ACSR conductor in the Hillsboro-Peasticks Jct 69 kV line section (10.5 miles) using 556.5 MCM ACTW wire.	12/2019
Re-conductor the 4/0 ACSR and 266 MCM ACSR conductors in the Carrollton-Hunters Bottom Jct 69 kV line section (8.6 miles) using 556.5 MCM ACTW wire.	12/2020
Re-conductor the 266 MCM ACSR conductor in the Goddard-Plummers Landing Jct 69 kV line section (4.2 miles) using 556.5 MCM ACTW wire.	12/2020
Re-conductor the 4/0 ACSR conductor in the Hope-Peasticks Jct 69 kV line section (8.1 miles) using 556.5 MCM ACTW wire.	12/2020
Re-conductor the 266 MCM ACSR conductor in the Lebanon Jct-Woosley 69 kV line section (8.0 miles) using 556.5 MCM ACTW wire.	6/2021
Re-conductor the 2/0 ACSR conductor in the Lyman B. Williams-Tunnel Hill Jct. 69 kV line section (1.5 miles) using 556.5 MCM ACTW wire.	6/2022

EKPC 15-YEAR TRANSMISSION EXPANSION SCHEDULE (2012-2026)	
B. Transmission Line Re-conductor/Rebuild Projects (continued)	Needed In-Service Date
Project Description	
Reconductor the 2/0 ACSR conductor in the Etown-Tunnel Hill Jct. 69 line section (3.4 miles) using 556.5 MCM ACSR conductor.	6/2022
Reconductor the 2/0 ACSR conductor in the Colesburg Jct.-Lyman B. Williams 69 kV line section (5.5 miles) using 556.5 MCM ACSR conductor.	6/2022
Reconductor the 266 MCM ACSR conductor in the Dale-Newby 69 kV double-circuit line section (11.1 miles) using 556.5 MCM ACSR conductor.	12/2022
Reconductor the 4/0 ACSR conductor in the Boone-Boone Distribution 69 kV line section (0.1 mile) using 556.5 MCM ACSR conductor.	6/2023
Reconductor the 266.8 MCM ACSR portion of the Kargle-Etown KU 69 kV line section (1.4 miles) using 556.5 MCM ACSR conductor.	6/2023
Re-conductor the 266.8 MCM ACSR conductor in the Murphysville-Plumville 69 kV line (9.9 miles) using 556.5 MCM ACSR conductor.	6/2023
Rebuild the 1/0 ACSR conductor in the Stephensburg-Glendale 69 kV line section (9.0 miles) using 556.5 MCM ACSR conductor.	6/2023
Rebuild the 1/0 ACSR conductor in the Glendale-Hodgenville 69 kV line section (8.7 miles) using 556.5 MCM ACSR conductor.	6/2023
Reconductor the 556.5 MCM ACSR conductor in the Central Hardin-Kargle 69 kV line section (0.6 mile) using 795 MCM ACSR conductor.	6/2023
Reconductor the 266.8 MCM ACSR conductor in the East Somerset-Norwood Jct. 69 kV line (1.3 miles) using 556.5 MCM ACSR conductor.	12/2023
Reconductor the 2/0 ACSR conductor in the Owen County-New Castle 69 kV line section (19.6 miles) using 556.5 MCM ACSR conductor.	12/2023
Reconductor the 2/0 ACSR conductor in the Lees Lick-Penn 69 kV line section (13.6 miles) using 556.5 MCM ACSR conductor.	12/2023
Reconductor the 4/0 ACSR conductor portion (1.5 miles) of the Three Links Junction-Conway Jct. 69 kV line section using 556.5 MCM ACSR conductor.	12/2023
Reconductor the 3/0 ACSR conductor in the Beattyville Distribution-Oakdale Jct. 69 kV line section (3.9 miles) using 556.5 MCM ACSR conductor.	12/2023
Reconductor the 3/0 ACSR conductor in the Leon-Airport Road 69 kV line section (5.7 miles) using 556.5 MCM ACSR conductor	12/2023
Reconductor the 3/0 ACSR conductor in the Fall Rock-Greenbriar Jct. 69 kV line section (3.6 miles) using 556.5 MCM ACSR conductor.	12/2023
Reconductor the 4/0 ACSR conductor in the Albany-Snow Jct. 69 kV line section (4.4 miles) using 556.5 MCM ACSR conductor.	12/2023
Re-conductor the 3/0 ACSR conductor in the Rineyville Junction-Smithersville Junction 69 kV line section (2.9 miles) using 556.5 MCM ACSR conductor.	6/2024

EKPC 15-YEAR TRANSMISSION EXPANSION SCHEDULE (2012-2026)	
B. Transmission Line Re-conductor/Rebuild Projects (continued)	Needed In-Service Date
Project Description	
Reconductor the 556.5 MCM ACSR conductor in the Etown KU-Tharp Jct. 69 kV line section (2.1 miles) using 795 MCM ACSR conductor.	12/2024
Reconductor the 4/0 ACSR conductor in the Headquarters-Millersburg Jct. 69 kV line section (5.1 miles) using 556 MCM ACSR conductor.	12/2024
Reconductor the 4/0 ACSR conductor in the Summershade Jct.-Temple Hill 69 kV line section (9.6 miles) using 556 MCM ACSR conductor.	6/2026

EKPC 15-YEAR TRANSMISSION EXPANSION SCHEDULE (2012-2026)	
C. Transmission Line Conductor Temperature Upgrade Projects	Needed In-Service Date
Project Description	
Increase the maximum operating temperature (MOT) of the Bristow Jct-Richardson Jct 69 kV line section to 167°F.	6/2012
Increase the MOT of the Helechawa-Sublett Junction 69 kV line section to 167°F.	12/2012
Increase the MOT of the Bluegrass Parkway Junction-Woodlawn 69 kV line section to 167°F.	12/2012
Increase the MOT of the Pleasant Grove-Pleasant Grove KU Junction 69 kV line section to 167°F.	12/2012
Increase the MOT of the Keith-Penn 69 kV line section to 167°F.	12/2013
Increase the MOT of the Davis Junction-Fayette 69 kV line section to 248°F.	12/2015
Increase the MOT of the Rineyville Jct.-Smithersville Jct. 69 kV line section to 284°F.	6/2016
Increase the MOT of the Griffin-Griffin Junction 69 kV line section to 167°F.	6/2016
Increase the MOT of the Glendale-Hodgenville 69 kV line section to 170°F.	12/2016
Increase the MOT of the Oven Fork Jct.-Scotia 69 kV line section to 167°F.	12/2016
Increase the MOT of the Summershade-Summershade TVA 69 kV line section to 167°F.	12/2016
Increase the MOT of the Booneville-Booneville Junction 69 kV line section to 167°F.	6/2017
Increase the MOT of the Elliottville-Rowan County 69 kV line section to 167°F.	6/2017
Increase the MOT of the Arkland Jct-Oven Fork Jct 69 kV line section to 167°F.	6/2017
Increase the MOT of the South Springfield-South Springfield Junction 69 kV line section to 167°F.	6/2017
Increase the MOT of the Floyd-Floyd KU Junction 69 kV line section to 167°F.	6/2017
Increase the MOT of the Ninevah-Ninevah KU Junction 69 kV line section to 167°F.	6/2017
Increase the MOT of the Oakdale-Oakdale Junction 69 kV line section to 167°F.	6/2017
Increase the MOT of the North Corbin-North Corbin KU Junction 69 kV line section to 167°F.	6/2017
Increase the MOT of the Pelfrey-Pelfrey AEP Junction 69 kV line section to 167°F.	6/2017
Increase the MOT of the Carson-New Liberty 69 kV line section to 167°F.	6/2017
Increase the MOT of the Zula-Zula Junction 69 kV line section to 167°F.	6/2017
Increase the MOT of the Colesburg-Colesburg Junction 69 kV line section to 167°F.	6/2017
Increase the MOT of the Upton-Upton Junction 69 kV line section to 167°F.	6/2017
Increase the MOT of the Mount Olive-Mount Olive Junction 69 kV line section to 167°F.	6/2018
Increase the MOT of the Mount Sterling-Reid Village 69 kV line section to 167°F.	6/2018
Increase the MOT of the Chad-Chad KU Junction 69 kV line section to 167°F.	6/2018
Increase the MOT of the Eberle-Eberle Junction 69 kV line section to 167°F.	6/2018

EKPC 15-YEAR TRANSMISSION EXPANSION SCHEDULE (2012-2026)	
C. Transmission Line Conductor Temperature Upgrade Projects (continued)	Needed In-Service Date
Project Description	
Increase the MOT of the Russell Springs #1-Russell Springs #2 69 kV line section to 167°F.	6/2018
Increase the MOT of the Millers Creek-Millers Creek KU Junction 69 kV line section to 167°F.	6/2018
Increase the MOT of the Big Bone-Big Bone Junction 69 kV line section to 167°F.	6/2018
Increase the MOT of the Boone County-Boone Distribution 69 kV line section to 284°F.	6/2018
Increase the MOT of the Loretto-Sulphur Creek 69 kV line section to 167°F.	6/2019
Increase the MOT of the Jellico Creek-Jellico Creek Junction 69 kV line section to 167°F.	6/2019
Increase the MOT of the Loretto-South Springfield Junction 69 kV line section to 167°F.	6/2019
Increase the MOT of the North Springfield-South Springfield Junction 69 kV line section to 167°F.	6/2019
Increase the MOT of the Cave Run-Cave Run KU Junction 69 kV line section to 167°F.	6/2019
Increase the MOT of the Etown EKPC-Tunnel Hill Jct. 69 kV line section to 275°F.	6/2019
Increase the MOT of the Magnolia-Summersville 69 kV line section to 167°F.	6/2020
Increase the MOT of the Bluegrass Parkway Jct.-Owens Illinois Jct. 69 kV line section to 212°F.	6/2022
Increase the MOT of the Stephensburg-Upton Jct. 69 kV line section to 212°F.	6/2022
Increase the MOT of the Glendale-Hodgenville 69 kV line section to at least 266°F.	12/2022
Increase the MOT of the Tharp Junction-Etown EK #1 69 kV line section to at least 284°F.	6/2023
Increase the maximum operating temperature of the 556.5 MCM ACSR Kargle-Etown KU 69 kV line section (2.85 miles) to at least 284°F.	6/2024
Increase the maximum operating temperature of the 2/0 ACSR Tunnel Hill Junction-Lyman B. Williams 69 kV line section (1.45 miles) to at least 275°F.	6/2025
Increase the MOT of the Central Hardin-Kargle-Etown KU 69 kV line section to at least 284°F.	6/2025
Increase the maximum operating temperature of the 556.5 MCM ACSR Etown EK #1-Etown EK #2 69 kV line section (0.04 miles) to at least 284°F.	12/2025
Increase the MOT of the Liberty Church Jct.-Bacon Creek Jct. 69 kV line section to at least 212°F.	6/2026

EKPC 15-YEAR TRANSMISSION EXPANSION SCHEDULE (2012-2026)	
D. Capacitor Bank Additions <u>Project Description</u>	Needed In-Service Date
Resize the existing Cedar Grove 69 kV capacitor bank from 10.8 to 20.41 MVAR.	6/2012
Install an 8.164 MVAR, 69 kV capacitor bank at Hunt Farm Junction Substation.	10/2012
Relocate the existing Parkway 69 kV, 13.2 MVAR capacitor bank to the planned Bon Ayr distribution substation.	12/2012
Resize the existing Tyner 69 kV capacitor bank from 16.33 to 26.53 MVAR.	12/2012
Install an 8.674 MVAR, 34.5 kV capacitor bank at Gallatin County Substation.	6/2013
Relocate the existing Greenbriar 69 kV capacitor bank to Big Creek Substation and resize it to 6.633 MVAR.	12/2013
Resize the existing HT Adams 69 kV capacitor bank from 7.2 to 15.307 MVAR.	12/2013
Resize the Hunt Farm Jct 69 kV capacitor bank from 8.164 to 16.327 MVAR.	12/2013
Install a 25.51 MVAR, 69 kV capacitor bank at Skaggs Substation	12/2013
Install a 20.409 MVAR, 69 kV capacitor bank at Fox Hollow Substation.	6/2014
Resize the existing Nicholasville 69 kV capacitor bank from 19.8 to 22.96 MVAR.	12/2014
Install a 22.96 MVAR, 69 kV capacitor bank at the West London Substation.	12/2014
Install a 35.72 MVAR, 69 kV capacitor bank at EKPC's Elizabethtown #1 Substation.	12/2015
Resize the existing Headquarters 69 kV capacitor bank from 6.123 to 16.327 MVAR.	6/2016
Install a 28.06 MVAR, 69 kV capacitor bank at EKPC's Hodgenville Substation.	6/2016
Resize the existing Sideview 69 kV capacitor bank from 5.533 to 15.307 MVAR.	6/2016
Install an 11.225 MVAR, 69 kV capacitor bank at Oven Fork substation.	12/2016
Install a 15.307 MVAR, 69 kV capacitor bank at Perryville substation.	12/2018
Install a 14.286 MVAR, 69 kV capacitor bank at Magoffin County Substation.	12/2018
Re-size the existing Leon 69 kV, 13.2 MVAR capacitor bank to 18.37 MVAR.	12/2019
Install a 14.286 MVAR, 69 kV capacitor bank at North Madison Substation.	12/2019
Install a 22.96 MVAR, 69 kV capacitor bank at South Jessamine Substation.	12/2019
Install a 20.409 MVAR, 69 kV capacitor bank at Norwood Junction.	12/2020
Install a 15.31 MVAR, 69 kV capacitor bank at Belleview Substation.	6/2022
Install a 14.29 MVAR, 69 kV capacitor bank at Knob Lick Substation.	6/2022
Install a 38.27 MVAR, 69 kV capacitor bank at the Nelson County Substation.	6/2022
Install a 17.86 MVAR, 69 kV capacitor bank at the EKPC Taylorsville Substation.	12/2022
Re-size the existing Clay Village 9.2 MVAR, 69 kV capacitor bank to 11.225 MVAR	12/2022
Install a 16.33 MVAR, 69 kV capacitor bank at the Arkland Substation.	12/2022
Re-size the existing East Bernstadt 69 kV, 16.2 MVAR capacitor bank to 30.6 MVAR.	12/2022
Re-size the existing Booneville 69 kV, 9.6 MVAR capacitor bank to 13.2 MVAR.	12/2022
Install a 12.25 MVAR, 69 kV capacitor bank at Maggard Substation.	12/2022
Install a 14.29 MVAR, 69 kV capacitor bank at the Campground Substation.	12/2022

EKPC 15-YEAR TRANSMISSION EXPANSION SCHEDULE (2012-2026)	
D. Capacitor Bank Additions (continued)	Needed In-
<u>Project Description</u>	Service Date
Install a 16.33 MVAR, 69 kV capacitor bank at the Homestead Lane Substation	12/2022
Move the Slat 20.41 MVAR capacitor bank to Wayne County and resize it to 28.06 MVARs.	12/2022
Install a 14.29 MVAR, 69 kV capacitor bank at the Carpenter Substation	12/2022
Install a 28.06 MVAR, 69 kV capacitor bank at the Hinkle Substation	12/2022
Install a 24.49 MVAR, 69 kV capacitor bank at the Sewellton Junction Substation	12/2022
Re-size the existing Thelma 69 kV, 16.84 MVAR capacitor bank to 30.61 MVAR	12/2022
Install a 16.84 MVAR, 69 kV capacitor bank at the Goodnight Substation	6/2023
Install a 10.72 MVAR, 69 kV capacitor bank at the Elliottville Substation	12/2023
Re-size the Maggard 69 kV, 12.25 MVAR capacitor bank to 15.31 MVAR	12/2023
Re-size the Magoffin County 69 kV, 14.29 MVAR capacitor bank to 16.2 MVAR	12/2023
Install a 24.49 MVAR, 69 kV capacitor bank at the Bonnieville Substation	6/2024
Re-size the existing West Bardstown 69 kV, 13.78 MVAR capacitor bank to 16.84 MVAR	12/2024
Install a 17.86 MVAR, 69 kV capacitor bank at the Phil Substation	12/2024
Install an 8.16 MVAR, 69 kV capacitor bank at the Oakdale Substation	12/2024
Re-size the existing Three Links Jct. 69 kV, 16.2 MVAR capacitor bank to 28.06 MVAR	12/2024
Install a 22.96 MVAR, 69 kV capacitor bank at the Bullitt County Substation	6/2025
Install a 20.41 MVAR, 69 kV capacitor bank at the Glendale Substation	6/2025
Install a 28.1 MVAR, 69 kV capacitor bank at the Murphysville Substation	12/2025
Install a 40.82 MVAR, 69 kV capacitor bank at Rineyville Junction	12/2025

EKPC 15-YEAR TRANSMISSION EXPANSION SCHEDULE (2012-2026)	
<u>E. Terminal Facility Upgrades</u> <u>Project Description</u>	Needed In-Service Date
Increase the Zone 3 distance relay setting at Three Links Junction (Tyner line) to 74 MVA.	12/2012
Increase the Zone 3 distance relay setting at Dale (Dale-Powell County 69 kV line) to 88 MVA.	12/2015
Change the metering CT setting at Laurel County Substation (KU Hopewell Line) to support increased MVA line flows due to normal load growth.	12/2018
Change the Zone 3 distance relay setting at Murphysville (Plumville line) to 88 MVA.	12/2020
Upgrade the 4/0 copper bus and jumpers at the Green County substation associated with the Green County-KU Greensburg 69 kV line.	6/2022
Upgrade the 300A metering CT at the Stephensburg substation associated with the Stephensburg-KU Eastview 69 kV line.	6/2022
Replace the 138 kV, 1200A line traps at the J.K. Smith and Dale substations associated with the J.K. Smith-Dale 138 kV line.	12/2022
Replace the 138 kV, 1200A line traps at the J.K. Smith and Fawkes substations associated with the J.K. Smith-Fawkes 138 kV line.	12/2022
Upgrade the 69 kV 600A switch S81-605 at the Hickory Plains tap point to 1200A.	12/2022
Replace the 600-amp switch S408-605 near the Russell Springs KU 69 kV tap point with a 1200-amp switch.	12/2022
Upgrade the 4/0 copper bus and jumpers at the East Bardstown substation associated with the East Bardstown-KU Bardstown Industrial 69 kV line.	12/2022
Increase the Zone 3 distance relay setting at the Murphysville substation associated with the Murphysville-KU Kenton 69 kV line to at least 85 MVA.	12/2022
Increase the Zone 3 distance relay setting at the Elizabethtown substation associated with the Elizabethtown-Smithersville Junction 69 kV line to at least 98 MVA.	12/2022
Replace the 600-amp switch N55-605 near the Duro 69 kV tap point with a 1200-amp switch.	12/2024
Increase the overcurrent relay setting on the Powell County 138-69 kV transformer to at least 178 MVA.	12/2024
Replace the 138 kV, 1200A line traps at the J.K. Smith and Powell County substations associated with the J.K. Smith-Powell County 138 kV line.	12/2025
Replace the 138 kV, 1200A metering CTs at the Fawkes substation associated with the Fawkes-KU Fawkes/Lake Reba Tap 138 kV line with a minimum of 1600A equipment.	12/2025

EKPC 15-YEAR TRANSMISSION EXPANSION SCHEDULE (2012-2026)	
F. Distribution Substation Projects (2012-2015 ONLY)	Needed In-Service Date
Project Description	
Construct a new West Glasgow #2 69-25 kV, 12/16/20 MVA Substation and associated 69 kV tap line (0.1 mile)	5/2012
Construct a new Cane Ridge 69-12.5 kV, 5.6/7 MVA distribution substation and associated 69 kV tap line (0.1 mile).	6/2012
Construct a new Mercer County Industrial #2 69-12.5 kV, 15/20/25 MVA Substation and associated 69 kV tap line (0.1 mile)	8/2012
Construct a new MBUSA 69-12.5 kV, 15/20/25 MVA Substation and associated 69 kV tap line (0.1 mile)	10/2012
Construct a new Bon Ayr 69-25 kV, 12/16/20 MVA Substation and associated 69 kV tap line (3.0 miles)	12/2012
Construct a new Becknerville 138-25 kV, 12/16/20 MVA Substation and associated 138 kV tap line (0.1 mile)	12/2012
Upgrade the existing Burlington 69-12.5 kV, 11.2/14 MVA Substation to 15/20/25 MVA.	6/2013
Upgrade the existing Turkey Foot 69-12.5 kV, 11.2/14 MVA Substation to 12/16/20 MVA.	6/2013
Upgrade the existing Long Run 69-12.5 kV, 5.6/7 MVA Substation to 12/16/20 MVA.	12/2013
Construct a new Jonesville 69-25 kV, 12/16/20 MVA Substation and associated 69 kV tap line (0.1 mile)	12/2013
Construct a new Pleasant Grove #2 69-12.5 kV, 12/16/20 MVA Substation and associated 69 kV tap line (0.1 mile)	6/2014
Upgrade the existing Rectorville 69-12.5 kV, 11.2/14 MVA Substation to 12/16/20 MVA, and convert to 25 kV low-side.	6/2014
Upgrade the existing Cynthiana 69-12.5 kV, 11.2/14 MVA Substation to 12/16/20 MVA.	6/2014
Construct a new Big Woods 69-12.5 kV, 12/16/20 MVA Substation and associated 69 kV tap line (0.2 mile)	12/2014
Construct a new Roseville 69-25 kV, 12/16/20 MVA Substation and associated 69 kV tap line (3.5 miles)	12/2014
Upgrade the existing Williamstown 69-12.5 kV, 11.2/14 MVA Substation to 15/20/25 MVA.	3/2015
Construct a new Hebron #2 138-12.5 kV, 12/16/20 MVA Substation and associated 138 kV tap line (0.1 mile)	6/2015
Upgrade the existing Jellico Creek 69-13.2 kV, 5.6/7 MVA Substation to 12/16/20 MVA, and convert to 25 kV low-side.	12/2015
Upgrade the Van Arsdell 69-12.5 kV, 11.2/14 MVA Substation to 12/16/20 MVA.	12/2015