

June 24, 2005

Ms. Elizabeth O'Donnell
Executive Director
Commonwealth of Kentucky
Public Service Commission
211 Sower Boulevard
PO Box 615
Frankfort, KY 40602-0615

RECEIVED
JUN 24 2005
PUBLIC SERVICE
COMMISSION

RE: Application for Certificate of Public Convenience and Necessity for the
Construction of a 138 kV Electric Transmission Line in Rowan County,
Kentucky. PSC Case No. 2005-00089

Dear Ms. O'Donnell:

Enclosed please find an original and ten (10) copies of East Kentucky Power Cooperative, Inc.'s Response to the Commission Staff's First Data Request dated June 16, 2005 in the above styled case. Also, enclosed is an original and ten (10) copies each of a Petition for Confidential Treatment of Information and a Second Petition for Confidential Treatment of Information. This pertains to information requested in the Commission Staff's First Data Request in the above styled case.

Should you have any questions or concerns, please advise.

Very truly yours,



Roger R. Cowden
Senior Corporate Counsel

SG/ti

Cc: Parties of Record

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

RECEIVED

JUN 24 2005

In the Matter of:

PUBLIC SERVICE
COMMISSION

THE APPLICATION OF EAST KENTUCKY)
POWER COOPERATIVE, INC. FOR A CERTIFICATE)
OF PUBLIC CONVENIENCE AND NECESSITY FOR) **CASE NO**
FOR THE CONSTRUCTION OF A 138 kV ELECTRIC) **2005-00089**
TRANSMISSION LINE IN ROWAN)
COUNTY, KENTUCKY)

**RESPONSES OF EAST KENTUCKY POWER COOPERATIVE, INC.
TO COMMISSION STAFF'S FIRST DATA REQUEST
DATED JUNE 16, 2005**

EAST KENTUCKY POWER COOPERATIVE, INC.

PSC CASE NO. 2005-00089

INFORMATION REQUEST RESPONSE

COMMISSION STAFF'S 1ST DATA REQUEST DATED 6/16/05

ITEM 1

RESPONSIBLE PARTY: MARY JANE WARNER

REQUEST: Provide a copy of the most recent East Central Area Reliability Council's ("ECAR") transmission assessment.

RESPONSE: The Executive Summary of this document is attached as **Data Response Exhibit 1**. The remainder of this document is the subject of the Applicant's Second Petition for Confidential Treatment and is included in that Second Petition filed this date.

EAST KENTUCKY POWER COOPERATIVE
ASSESSMENT OF EXPECTED SYSTEM PERFORMANCE
2005 SUMMER CONDITIONS

May 4, 2005



EXECUTIVE SUMMARY

This report presents an assessment of the expected performance of the East Kentucky Power Cooperative (EKPC) bulk (138 kV and above) electric transmission system for the 2005 summer period. Also, the LGEE bulk system (considered to be 138 kV and above) was monitored for its response to EKPC contingencies. The results contained in this report were obtained by performing an AC analysis using the following power flow models of 2005 summer peak conditions:

- The ECAR/MEN/VEM 2005 Summer Appraisal Model
- The ECAR/MEN/VEM 2005 Summer Appraisal Model with a 4000 MW north-to-south incremental transfer superimposed

The following table summarizes the results of the powerflow analysis on the base model:

Base Case Results			
	Total number of facilities overloaded	Total number of potential contingencies causing overloads	Range of overloads
Normal Conditions	0	0	--
Single Contingency	0	0	--
Single Contingency plus unit outage	0	0	--
Double Contingency	11	21	101.3 - 149.9%

Two (2) double-contingency scenarios resulted in thermal violations in excess of 130% of a summer emergency rating. For these scenarios, any facilities exceeding this threshold were tripped and the case was then solved to determine if the potential for cascading exists. Of the two scenarios tested, one would not solve after tripping was simulated. However, this scenario is considered a local area issue. The remaining scenario tested returned to a state where no additional tripping was expected.

Only one voltage problem was identified in the base case for single contingency conditions. This voltage was only marginally low (89.6%). Twelve double-contingency combinations resulted in low voltages. The worst of these resulted in voltages as low as 64%.

The following table summarizes the results of the powerflow analysis on the sensitivity case:

Sensitivity Case Results			
	Total number of facilities overloaded	Total Instances of overloads	Range of overloads
Normal Conditions	2	--	107.2 - 124.1%
Single Contingency	4	36	100.4 - 133.1%
Single Contingency plus unit outage	13	154	150.0 - 100.1%
Double Contingency	39	874	164.9-100.1%

The scenarios that resulted in overloads greater than 130% of summer emergency ratings were tested for potential cascading. These scenarios were found to have the potential for cascading and load loss in the central and eastern Kentucky areas.

The facilities of particular concern are the Avon 345-138 kV transformer, the Avon-Boonesboro North Tap 138 kV line, and LGEE's Goddard-Rodburn 138 kV line. These facilities all have the

potential for significant overloading for either single-contingency or double-contingency conditions. Due to this, it is imperative that CT generation in the central Kentucky area be dispatched to avoid excessive loading on these facilities if the critical contingencies were to occur.

In addition to the thermal overloads, significant voltage problems were observed in the stress case for both single-contingency and double-contingency conditions. Many of the single-contingency problems were observed in the Rowan County area. These problems exist due to the delay in the construction of EKPC's Cranston-Rowan County 138 kV line.

Seven double contingency combinations were identified in the stress case which were divergent. Load shedding of up to 90 MW was necessary to obtain acceptable solutions.

The P-V analysis performed shows that voltages on the EKPC system are expected to be stable for incremental north-south transfer levels of up to 7500 MW, provided that a significant amount of CT generation is online in central Kentucky (at JK Smith and Brown). If the CT generation is not online, voltage collapse appears to be a potential problem for incremental transfers above 5500 MW.

This assessment indicates that the EKPC and LGEE interconnected system is expected to perform adequately in 2005 Summer if north-south transfers are not occurring. For the base case, the only potential problems identified were for double contingencies. The sensitivity case indicates that severe problems could occur if significant north-south transfers are ongoing. The sensitivity case and the P-V analysis both indicate the importance of having sufficient generation dispatched in the central Kentucky area. A combination of reduced generation in central Kentucky, north-south transfers, and transmission outages could result in unacceptable conditions for both the EKPC and LGEE systems.

DATA RESPONSE EXHIBIT 2
EKPC 10 YEAR CONSTRUCTION SCHEDULE FOR 2005

A. New Lines and Substations	In-Service Date
Project Identification	
Add a 3 rd 345-138 kV transformer at Spurlock Substation.	Completed
Construct 3.8 miles of 345 kV double circuit line using 2-954 MCM ACSR from Spurlock Substation to loop in CCD's Stuart-Zimmer 345 kV line.	Completed
Add a 138 kV 4% series reactor at Avon in the Avon-Loudon (KU) circuit.	Completed
Construct 18.5 miles of 138 kV line using 954 MCM ACSR from Flemingsburg to tap the Spurlock-Kenton (KU) #2 circuit. Install a 5% series reactor at Spurlock in both Spurlock-Kenton circuits.	Completed
Install a generator step up (GSU) transformer at Spurlock Station for E.A. Gilbert Unit #3.	Completed
Construct a 69 kV switching substation at East Bernstadt. Loop EKPC's East Bernstadt-Tyner and KU's Pittsburg-East Bernstadt 69 kV lines into the new substation.	5/2005
Construct approximately 0.4 miles of 69 kV line using 266.8 MCM from Laurel County to Keavy. Serve the Keavy substation normally from the Laurel County-Farley 69 kV line	5/2005
Disconnect the Spurlock-Kenton (KU) #2 circuit from KU's Kenton substation and remove the 5% reactor at Spurlock. Rebuild the Flemingsburg-Goddard 69 kV line to 138 kV using 954 MCM ACSR. Convert the Flemingsburg distribution substation to 138 kV. Construct a 138 kV switching substation at Goddard.	5/2005
Construct approximately 7.3 miles of 138 kV line using 795 MCM ACSR from Cranston to Rowan County. Install 3-138 kV breakers at Rowan County. Remove the 138 kV interconnection with KU at Goddard.	3/2006
Install a generator step up (GSU) transformer at JK Smith for CT #8	4/2007
Rebuild the Bullitt County-Lotus 69 kV Line (3.7 miles) using 556.5 MCM ACSR. Construct approximately 6.3 miles of 69 kV line using 556.5 MCM ACSR from Lotus tap the Joe Tichenor-West Bardstown line. Construct a 69 kV switching substation at West Bardstown Junction.	5/2007
Construct approximately 6.2 miles of 69 kV line using 954 MCM ACSR between the Cemetery Road and Floyd substations. Serve the Cemetery Road Substation radially from the Floyd Substation.	5/2007
Construct a 69 kV switching substation at Munk Junction. Operate the Renaker-Williamstown 69 kV line normally closed	5/2007
Install a generator step up (GSU) transformer at JK Smith for CT's #9-10	11/2007
Construct approximately 2.1 miles of 69 kV line using 556.5 MCM ACSR from Beattyville Switching Substation to Beattyville Distribution Substation. Serve the Beattyville distribution substation normally from the Beattyville-Zachariah 69 kV line using the existing 2/0 conductor.	12/2007
Construct approximately 8.7 miles of 69 kV line using 795 MCM ACSR from Mercer County Industrial Park to Van Arsdell. Construct 69 kV switching substations at Hunt Farm Junction and Bonds Mill Junction.	12/2007

DATA RESPONSE EXHIBIT 2
EKPC 10 YEAR CONSTRUCTION SCHEDULE FOR 2005

A. New Lines and Substations(Continued)	In-Service Date
Project Identification	
Build a short 69 kV line (< 0.1 mile) using 556.5 MCM ACSR from Wayne County to Wayne County Junction. Add a 69 kV breaker at Wayne County. Serve the Zula load from Wayne County Substation using the existing 266.8 MCM line.	12/2007
Construct approximately 27 miles of 161 kV line between the Barren County and WRECC General Motors substations using 954 MCM ACSS conductor. Construct 13.5 miles of 161 kV line between WRECC's General Motors and Memphis Junction substations. Construct 27 miles of 161 kV line between WRECC's Aberdeen and East Bowling Green substations using 954 MCM ACSS conductor.	4/2008
Construct approximately 28.5 miles of 161 kV line from WRECC's Aberdeen Substation to BREC's Wilson substation using 954 MCM ACSS conductor.	4/2008
Install a generator step up (GSU) transformer for H. L. Spurlock Unit #4.	4/2008
Construct a 161-69 kV substation at Fall Rock using the existing 50 MVA 161-69 kV transformer bank currently at Tyner Substation. Construct approximately 12 miles of 69 kV line using 954 MCM ACSR from Fall Rock to Tyner. Convert the existing Tyner-Fall Rock 69 kV line to 161 kV operation. Install a 150 MVA 161-69 kV transformer at Tyner to replace the existing 50 MVA bank.	5/2008
Construct approximately 6.9 miles of 69 kV line using 954 MCM ACSR from the Highland Substation to Cemetery Road. Install a 69 kV switching substation adjacent to the Highland Distribution Substation.	5/2008
Construct approximately 17 miles of 345 kV line using bundled 954 MCM ACSR from J.K. Smith to Sideview. Construct a 345-138 kV substation at J.K. Smith with 2-450 MVA transformers. Construct a 345 kV switching substation at Sideview.	5/2008
Install a generator step up (GSU) transformer at JK Smith for CT's #11-12.	11/2008
Install a generator step up (GSU) transformer for JK Smith CFB Unit #1.	5/2009
Construct 12.8 miles of 69 kV line using 954 MCM ACSR from Coburg to Green County. Construct 2.3 miles of 69 kV line using 954 MCM ACSR from Coburg Jct to Columbia. Construct a 69 kV switching substation at Coburg Jct, and serve the EKPC and KU Columbia substations normally from the Coburg Switching sub.	5/2010
Construct approximately 43 miles of 345 kV line using 2-954 MCM ACSR from J.K. Smith to Tyner. Construct a 345-161 kV substation at Tyner.	5/2010
Construct a 161-69 kV substation at London KY, at or near the intersection of the Laurel County-Tyner 161 kV and East Bernstadt-Laurel County 69 kV lines.	5/2010
Construct a 138-69 kV substation in Kenton County, at a new site located near Richardson Substation on the Richardson-Turkey Foot 69 kV line section. Construct approximately 0.8 miles of 138 kV tap line using 954 MCM ACSR from the new Kenton County Substation to Cinergy's Buffington-Hands 138 kV line. Construct a 69 kV switching substation at or near Turkey Foot Junction, along the Boone County-Stanley Parker 69 kV line.	5/2011

DATA RESPONSE EXHIBIT 2
EKPC 10 YEAR CONSTRUCTION SCHEDULE FOR 2005

A. New Lines and Substations(Continued) Project Identification	In-Service Date
Construct a 138-69 kV substation at Maytown Junction. Construct 24.9 miles of 138 kV line using 954 MCM ACSR from Maytown Junction to Powell County.	5/2011
Construct 14.3 miles of 161 kV line using 795 MCM ACSR from Fox Hollow Substation to Summer Shade. Construct a 161-69 kV substation at Fox Hollow.	5/2012
Construct a 138-69 kV substation near Meredith KY, at a new site located at or near the crossing point of WRECC's Leitchfield-Oakland 69 kV line and KU's Bonnieville-Shrewsbury 138 kV Line.	5/2012

DATA RESPONSE EXHIBIT 2
EKPC 10 YEAR CONSTRUCTION SCHEDULE FOR 2005

B. Line Reconductor/Rebuild Projects	In-Service Date
Project Identification	
Re-conductor the Bonnierville-Munfordville(EKPC) 69 kV line section (556.5 MCM ACSR).	5/2005
Re-conductor the Colemansville-Renaker 69 kV line section (556.5 MCM ACSR).	5/2005
Reconductor the 1/0 portion of the Grant's Lick-Stanley Parker 69 kV line section (556.5 MCM ACSR).	5/2005
Re-conductor the Nancy-Windsor 69 kV line section (556.5 MCM ACSR).	5/2005
Re-conductor the Avon-Boonesboro Tap 138 kV line section (954 MCM ACSS).	10/2005
Re-conductor the Bowen-High Rock-Zachariah 69 kV line section (556.5 MCM ACSR).	12/2005
Re-conductor the Baker Lane-Holloway Junction 69 kV line section (556.5 MCM ACSR).	5/2006
Re-conductor the Davis-Fayette 69 kV line section (556.5 MCM ACSS).	5/2006
Re-conductor the Fort Knox Jct-Smithersville Junction 69 kV line section (556.5 MCM ACSR).	5/2006
Rebuild the East Bernstadt-Tyner 69 kV line (954 MCM ACSS). Operate the line normally closed. Operate the Beattyville-Tyner 69 kV line normally closed.	5/2007
Re-conductor the Etown-Tunnel Hill Junction 69 kV line section (556.5 MCM ACSR).	5/2007
Re-conductor the Horse Cave-Munfordville(EKPC) 69 kV line section (556.5 MCM ACSR).	5/2007
Re-conductor the McKee-Tyner 69 kV line section (556.5 MCM ACSR).	5/2007
Re-conductor the Bonds Mill Junction-Clay Lick Junction-Van Arsdell 69 kV line section (556.5 MCM ACSR).	12/2007
Re-conductor the Hickory Plains-PPG 69 kV line section (556.5 MCM ACSR).	12/2007
Re-conductor the West Bardstown-West Bardstown Junction 69 kV line section (556.5 MCM ACSR)	12/2007
Re-conductor the Boston (KU)-Woosley 69 kV line section (556.5 MCM ACSR).	5/2008
Re-conductor the 1/0 portion of Bracken County-Griffin Junction 69 kV line section using 556.5 MCM ACSR.	5/2008
Re-conductor the Davis-Nicholasville 69 kV line section (556.5 MCM ACSS).	5/2008
Re-conductor the New Castle-Owen County 69 kV line section (556.5 MCM ACSR).	12/2008
Re-conductor the Cynthiana-Headquarters 69 kV line section (556.5 MCM ACSR)	5/2009
Re-conductor the 3/0 portion of the Pine Knot-Whitley City 69 kV line section (556.5 MCM ACSR)	12/2009
Re-conductor the Grants Lick-Griffin Junction 69 kV line section (556.5 MCM ACSR).	5/2010
Re-conductor the Nelson County-Colesburg Junction 69 kV line section (556.5 MCM ACSR).	5/2010

DATA RESPONSE EXHIBIT 2
EKPC 10 YEAR CONSTRUCTION SCHEDULE FOR 2005

B. Line Reconductor/Rebuild Projects (Continued)	In-Service Date
Project Identification	
Re-conductor the Index Junction-Maytown Junction 69 kV line section (556.5 MCM ACSR).	12/2011
Re-conductor the Kenton County-Richardson Junction 69 kV line section (556.5 MCM ACSR).	12/2011
Re-conductor the Etown EKPC-Etown KU 69 kV line (556.5 MCM ACSS).	5/2012
Re-conductor the Dale-Newby 69 kV DC line section (556.5 MCM ACSR)	12/2012
Re-conductor the Lyman B. Williams Junction-Tunnel Hill Junction 69 kV line section (556.5 MCM ACSR).	5/2012
Re-conductor the 4/0 portions of the Carrollton-Hunters Bottom Tap 69 kV line using 556.5 MCM ACSR.	5/2013
Re-conductor the Colesburg Junction-Lyman B. Williams Junction 69 kV line section (556.5 MCM ACSR).	5/2013
Re-conductor the Murphysville-Plumville 69 kV line (556.5 MCM ACSR).	5/2013
Re-conductor the Bloomfield-North Springfield 69 kV line section (556.5 MCM ACSR).	12/2013
Re-conductor the Bourne-Newby 69 kV line section (556.5 MCM ACSR).	12/2013
Re-conductor the Burkesville-Snow Junction 69 kV line section (556.5 MCM ACSR).	12/2013

DATA RESPONSE EXHIBIT 2
EKPC 10 YEAR CONSTRUCTION SCHEDULE FOR 2005

C. Line Upgrade Projects	In-Service Date
Project Identification	
Increase the maximum operating temperature of the Liberty Jct.-Liberty (KU) 69 kV line section to 167°F or 212°F.	5/2004
Increase the maximum operating temperature of the Norwood-Norwood Jct. 69 kV line section to 167°F or 212°F.	5/2004
Increase the maximum operating temperature of the Ballard-Hunt Farm Jct. 69 kV line section to 167°F or 212°F.	5/2005
Increase the maximum operating temperature of the Knob Lick-McKinney's Corner Jct. 69 kV line section to 167°F or 212°F.	5/2005
Increase the maximum operating temperature of the Helechawa-Magoffin County 69 kV line section to 167°F or 212°F.	5/2005
Increase the maximum operating temperature of the Hunters Bottom-Milton 69 kV line section to 167°F or 212°F.	5/2005
Increase the maximum operating temperature of the Owens Illinois Jct-Woodlawn 69 kV line section to 167°F or 212°F.	5/2005
Increase the maximum operating temperature of the Russell Springs distribution tap line to 167°F or 212°F.	5/2005
Increase the maximum operating temperature of the Stephensburg-Upton Jct. 69 kV line section to 167°F or 212°F.	5/2005
Increase the maximum operating temperature of the Tunnel Hill distribution substation tap line to 167°F or 212°F.	5/2005
Increase the maximum operating temperature of the Radcliff-Vine Grove 69 kV line section to 167°F or 212°F.	5/2007
Increase the maximum operating temperature of the Boone Dist-Bullittsville 69 kV line section to 167°F or 212°F.	5/2008
Increase the maximum operating temperature of the Hunt Farm Jct.-Perryville 69 kV line section to 167°F or 212°F.	5/2008
Increase the maximum operating temperature of the Bedford-Milton 69 kV line section to 167°F or 212°F.	5/2010
Increase the maximum operating temperature of the Coburg-Coburg Jct 69 kV line section to 167°F or 212°F.	5/2010
Increase the maximum operating temperature of the East Bernstadt-London EK-Laurel Industrial Junction line section to 212°F.	5/2010
Increase the maximum operating temperature of the Bronston Jct.-Denny 69 kV line section to 167°F or 212°F.	5/2011
Increase the maximum operating temperature of the Laurel Industrial Junction-West London 69 kV line section to 212°F.	5/2011
Increase the maximum operating temperature of the Smithersville-Smithersville Jct 69 kV line section to 167°F or 212°F.	5/2011

**DATA RESPONSE EXHIBIT 2
EKPC 10 YEAR CONSTRUCTION SCHEDULE FOR 2005**

C. Line Upgrade Projects (Continued) Project Identification	In-Service Date
Increase the maximum operating temperature of the Clay Village-Clay Village Jct 69 kV line section to 212°F.	5/2012
Increase the maximum operating temperature of the North Springfield-South Springfield Jct. 69 kV line section to 167°F or 212°F.	5/2013
Increase the maximum operating temperature of the Liberty Tap-Peyton's Store 69 kV line section to 167°F or 212°F.	5/2014

DATA RESPONSE EXHIBIT 2
EKPC 10 YEAR CONSTRUCTION SCHEDULE FOR 2005

D. Capacitor Bank Additions	In-Service Date
Project Identification	Date
Replace the East Bernstadt 69 kV 16.2 MVAR capacitor bank with a 28.06 MVAR capacitor bank.	5/2005
Remove the 19.8 and 23.4 MVAR capacitor banks at Goddard Substation.	5/2005
Install a 30.61 MVAR, 69 kV capacitor bank at Boone County Substation	12/2005
Install a 12.25 MVAR, 69 kV capacitor bank at Clay Village Substation	12/2005
Install a 6.12 MVAR, 69 kV capacitor bank at Sideview Substation	12/2005
Install a 13.78 MVAR, 69 kV capacitor bank at Sinai Substation	12/2005
Install a 12.25 MVAR, 69 kV capacitor bank at Tommy Gooch Substation.	12/2005
Install a 16.33 MVAR, 69 kV capacitor bank at Tyner Substation.	12/2005
Install a 6.12 MVAR, 69 kV capacitor bank at Bedford Substation	5/2006
Install a 10.2 MVAR, 69 kV capacitor bank at Blevins Valley Substation	5/2006
Install a 9.18 MVAR, 69 kV capacitor bank at Griffin Substation	5/2006
Install a 14.29 MVAR, 69 kV capacitor bank at Knob Lick Substation	5/2006
Install a 20.41 MVAR, 69 kV capacitor bank at Norwood Substation	5/2006
Install a 20.41 MVAR, 69 kV capacitor bank at W.M Smith Substation	5/2006
Install a 10.2 MVAR, 69 kV capacitor bank at Maytown Substation	12/2006
Install a 9.18 MVAR, 69 kV capacitor bank at Hillsboro Substation	5/2007
Re-size the Leon 69 kV, 13.2 MVAR capacitor bank to 20.41 MVAR	5/2007
Install a 10.2 MVAR, 69 kV capacitor bank at Milton Substation	5/2007
Install a 25.51 MVAR, 69 kV capacitor bank (#2) at Shelby County Substation	5/2007
Increase the Tyner 69 kV, 16.33 MVAR capacitor bank size to 26.53 MVAR	5/2007
Install a 13.78 MVAR, 69 kV capacitor bank at Van Arsdell Substation	12/2007
Install a 20.41 MVAR, 69 kV capacitor bank at Downing Substation	5/2008
Install a 8.16 MVAR, 69 kV capacitor bank at Keith Substation	5/2008
Install a 30.61 MVAR, 69 kV capacitor bank at Stanley Parker Substation	5/2008
Install a 35.72 MVAR, 69 kV capacitor bank at Denny Substation.	12/2008
Install a 9.18 MVAR, 69 kV capacitor bank at Mazie Substation	5/2009
Re-size the Peyton's Store 69 kV, 7.14 MVAR capacitor bank to 13.27 MVAR	5/2010
Re-size the Coburg 69 kV, 8.4 MVAR capacitor bank to 14.4 MVAR	12/2010
Install a 13.78 MVAR, 69 kV capacitor bank at EKPC Bromley Substation	5/2011
Install a 12.25 MVAR, 69 kV capacitor bank at Elliottville Substation	5/2011
Install a 23.4 MVAR, 69 kV capacitor bank at Goddard Substation	5/2011
Install a 16.33 MVAR, 69 kV capacitor bank at Holloway Substation	5/2011
Install a 25.51 MVAR, 69 kV capacitor bank at Hickory Plains Substation.	12/2011
Install a 25.51 MVAR, 69 kV capacitor bank at Murphysville Substation	5/2012
Install a 13.78 MVAR, 69 kV capacitor bank at East Pine Knot Substation	12/2012
Install a 15.31 MVAR, 69 kV capacitor bank at Bullittsville Substation.	5/2013
Install a 12.25 MVAR, 69 kV capacitor bank at Martin County Substation	12/2013

DATA RESPONSE EXHIBIT 2
EKPC 10 YEAR CONSTRUCTION SCHEDULE FOR 2005

E. Terminal Facility Upgrades Project Identification	In-Service Date
Change the metering CT setting of the East Bardstown-Bardstown (KU) 69 kV line from 300/5 to 600/5.	5/2005
Change the metering CT setting of the Green County-Greensburg (KU) 69 kV line from 300/5 to 600/5.	5/2005
Increase the ratings of the JK Smith-Dale and JK Smith-Fawkes line terminals to support conductor thermal capability. Increase the rating of the Avon line terminal at Dale to 2000A.	10/2005
Change the metering CT setting of the Shelby County- KU 69 kV line from 300/5 to 600/5.	12/2006
Increase the terminal facility ratings of the JK Smith-Powell County 138 kV line to support line thermal capability.	12/2007

EAST KENTUCKY POWER COOPERATIVE, INC.

PSC CASE NO. 2005-00089

INFORMATION REQUEST RESPONSE

COMMISSION STAFF'S 1ST DATA REQUEST DATED 6/16/05

ITEM 3

RESPONSIBLE PARTY: MARY JANE WARNER

REQUEST: Provide a map showing the locations of East Kentucky's generation and transmission systems as well as a map showing the details of generation and transmission systems of other utilities that are affected by or affect East Kentucky's proposed Rowan-Cranston project or alternatives to that project.

RESPONSE: See the following attached **Data Response 3**.