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Public Service Commission of Kentucky  
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RECEIVED

MAR 30 2009

PUBLIC SERVICE  
COMMISSION

**Kentucky Utilities Company**  
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March 30, 2009

**Re: Annual Report Form No. 1 and Annual Resource Assessment for  
Kentucky Utilities Company Pursuant to Administrative Case No. 387**

Dear Mr. McDowell:

Enclosed is one completed signed copy of Annual Report Form No. 1 for Electric Utilities covering the operations of Kentucky Utilities Company ("KU").

Also enclosed, in accordance with Ordering Paragraph (2) of the Commission's Order in Administrative Case 387, dated October 7, 2005, are an original and five (5) copies of the 2008 Annual Resource Assessment Filing for KU, along with a Petition for Confidential Protection regarding certain information provided in response to Item Nos. 11 and 14.

Sincerely,

Robert M. Conroy

Enclosures

**COMMONWEALTH OF KENTUCKY**  
**BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY**

**RECEIVED**

**MAR 30 2009**

**PUBLIC SERVICE  
COMMISSION**

**In the Matter of:**

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

**ADMINISTRATIVE  
CASE NO. 387**

**2008 ANNUAL RESOURCE ASSESSMENT FILING  
OF  
KENTUCKY UTILITIES COMPANY  
PURSUANT TO APPENDIX G  
OF THE COMMISSION'S ORDER  
DATED DECEMBER 20, 2001  
AS AMENDED BY THE  
COMMISSION'S ORDER  
DATED MARCH 29, 2004**

**FILED: MARCH 2009**

**COMMONWEALTH OF KENTUCKY**  
**BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY**

**In the Matter of:**

<b>A REVIEW OF THE ADEQUACY OF</b>	)	
<b>KENTUCKY'S GENERATION CAPACITY</b>	)	<b>ADMINISTRATIVE</b>
<b>AND TRANSMISSION SYSTEM</b>	)	<b>CASE NO. 387</b>

**2009 ANNUAL RESOURCE ASSESSMENT FILING**  
**OF**  
**KENTUCKY UTILITIES COMPANY**  
**PURSUANT TO APPENDIX G**  
**OF THE COMMISSION'S ORDER**  
**DATED DECEMBER 20, 2001**  
**AS AMENDED BY THE**  
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**DATED MARCH 29, 2004**

**FILED: MARCH 2009**

**KENTUCKY UTILITIES COMPANY**

**2008 ANNUAL RESOURCE ASSESSMENT FILING  
PURSUANT TO APPENDIX G OF THE COMMISSION'S ORDER  
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**ITEM NO. 1**

**ITEM NO. 2**

**ITEM NO. 5**

**ITEM NO. 9**

**ITEM NO. 10**

The information originally requested in the above Items of Appendix G of the Commission's Order dated December 20, 2001, in Administrative Case No. 387, is no longer required pursuant to the Commission's Order of March 29, 2004, amending the previous Order.



**KENTUCKY UTILITIES COMPANY**

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**ITEM NO. 3**

**RESPONDENT: Stuart Wilson/Scott Cooke**

3. Actual and weather-normalized monthly 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:

Please refer to the attached Table KU-3, which shows the actual and weather-normalized native KU peak demands. The normalized native KU stand alone peak demands are available only on a seasonal (summer/winter) basis.

**TABLE KU-3  
NATIVE AND OFF-SYSTEM DEMANDS BY MONTH FOR 2008**

**Kentucky Utilities**

Time of Monthly Native Peak	Actual			Normal Weather (Seasonal) Native Peak	Off-System (1)			Total
	Native Peak	Non-Firm	Firm		Firm (2)	Non-Firm (2)	Total	
1/25/2008 8:00	4,476	48	4,428	4,554	50	0	50	
2/11/2008 8:00	3,938	36	3,902		0	0	0	
3/25/2008 7:00	3,452	41	3,411		0	0	0	
4/15/2008 7:00	3,089	22	3,067		100	0	100	
5/27/2008 17:00	3,090	55	3,035		100	0	100	
6/9/2008 14:00	3,910	21	3,889		50	0	50	
7/21/2008 14:00	3,943	68	3,875	3,963	127	0	127	
8/5/2008 16:00	3,699	35	3,664		0	0	0	
9/3/2008 15:00	3,832	0	3,832		0	0	0	
10/30/2008 8:00	3,069	7	3,062		125	0	125	
11/19/2008 9:00	3,567	33	3,534		463	0	463	
12/22/2008 9:00	4,113	10	4,103		6	0	6	

**Notes**

- (1) The allocation of off-system sales split between LG&E and KU is handled in the After-the-Fact Billing process in accordance with the Power Supply System Agreement between LG&E and KU. The individual company sales will include an allocation of the sales sourced with purchased power and allocated to the individual company based on each company's contribution to off-system sales.
- (2) The allocation of off-system sales between firm and non-firm is not available from the hourly data in AFB. The breakout is based on the monthly totals for LG&E and KU sales for firm and non-firm sales.





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**ITEM NO. 4**

**RESPONDENT: Stuart Wilson**

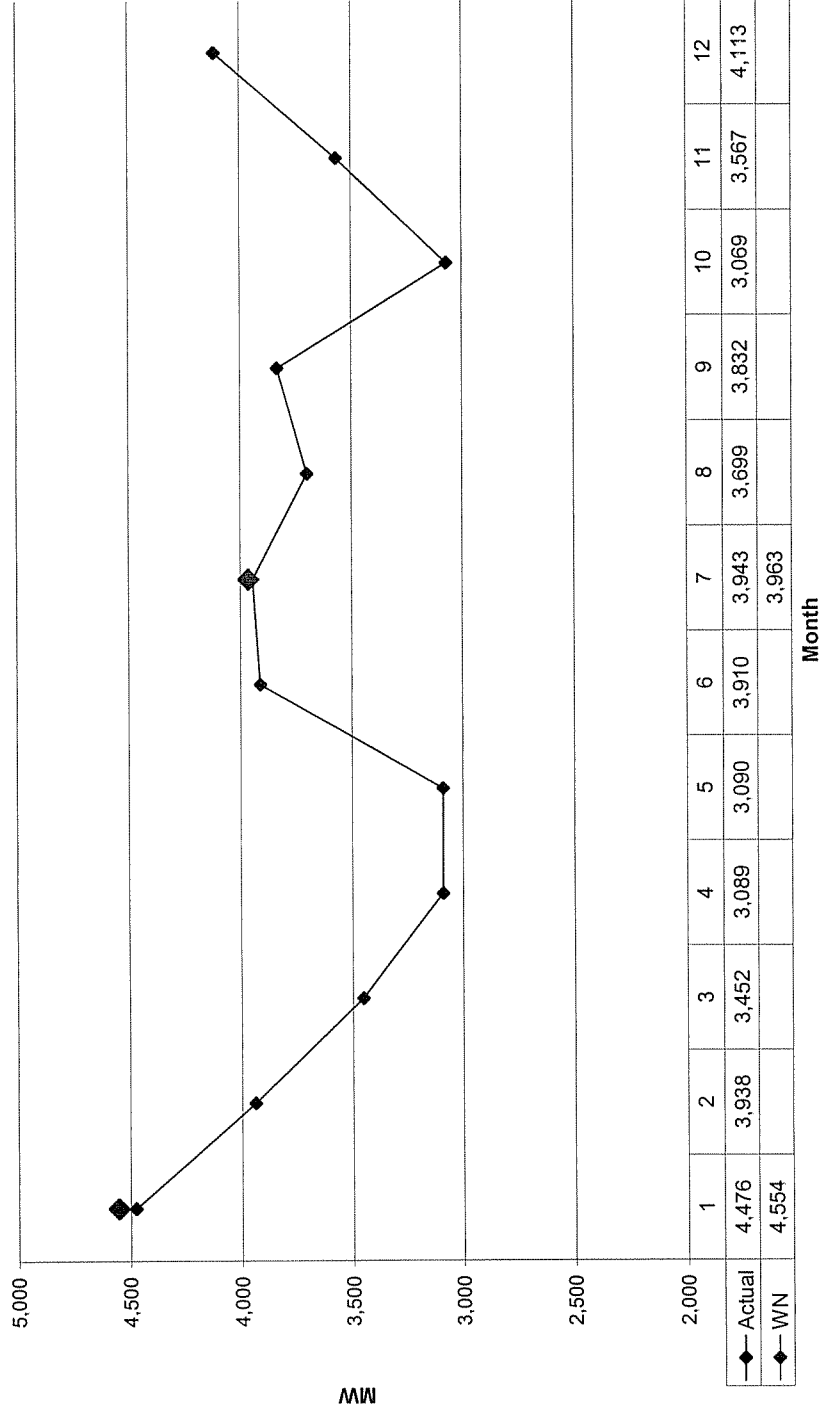
4. Load shape curves that show actual peak demands and weather-normalized peak demands (native load demand and total demand) on a monthly basis for the just completed calendar year.

Response:

Please refer to the attached Figure KU-4.

Figure KU-4

KU 2008  
 Actual and Weather Normalized Seasonal Peak





**KENTUCKY UTILITIES COMPANY**

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**ITEM NO. 6**

**RESPONDENT: Stuart Wilson/Scott Cooke**

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:

- a) Please see the attached Table KU-6a.
- b) Off-system sales ("OSS") projections for 2009-2013 contained in Table KU-6b are based on the combined Companies' current plan. For OSS, only base case total sales energy projections exist for 2009-2013. The projections consist of the expected market sales, dubbed "Wholesale OSS". In the long-range model, wholesale financially Firm and Non-firm sales are not distinguished but are combined into an overall expected sales energy.

Table KU-6a

Kentucky Utilities	2009	2010	2011	2012	2013
Base Case Energy Sales (GWh)	20,640	20,707	21,135	21,809	22,241
High Case Energy Sales (GWh)	22,051	22,522	22,974	23,485	23,927
Base Case Energy Requirements (GWh)	21,943	22,021	22,488	23,201	23,665
High Case Energy Requirements (GWh)	23,444	23,952	24,445	24,984	25,458
Base Case Native Peak Demand (MW)	4,307	4,313	4,395	4,513	4,623
High Case Native Peak Demand (MW)	4,601	4,691	4,777	4,859	4,973

**Table KU-6b**  
**Total Base Case Off-System Sales Energy Projection**

	2009	2010	2011	2012	2013
Existing OSS (GWH)	0	0	0	0	0
Wholesale OSS (GWH)	1,234	1,944	2,585	1,329	1,443
Total OSS (GWH)	1,234	1,944	2,585	1,329	1,443



**KENTUCKY UTILITIES COMPANY  
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**ITEM NO. 7**

**RESPONDENT: Scott Cooke**

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 for the change.

Response:

The Companies established an optimal reserve margin range of 13% to 15%, with 14% recommended for planning purposes. The range provides an optimum level of reliability through various system operating conditions. The reserve margin analysis was performed as part of the 2008 Integrated Resource Plan ("2008 IRP"), filed with the Commission in April 2008.

The Companies utilized a planning reserve margin target of 12% in 2001 and 14% in 2002 based on a reserve margin range of 11%-14% established in the Companies' 1999 IRP. A detailed explanation of the current target reserve margin is documented in the report titled "2008 Analysis of Reserve Margin Planning Criterion" included in Volume III of the Companies' 2008 IRP. The Companies have utilized a 14% planning reserve margin target since 2002.





**KENTUCKY UTILITIES COMPANY**

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**ITEM NO. 8**

**RESPONDENT: Scott Cooke**

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:

Please see the attached Table KU-8.

**Table KU-8  
Combined Company  
Reserve Margin Needs (MW)**

<u>Current Values</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>
Peak Load	6,969	7,093	7,173	7,263	7,452
CSR/Interrupt	-100	-100	-100	-100	-100
DSM	-189	-253	-319	-380	-441
Net Load	6,681	6,741	6,755	6,783	6,911
Existing Capability	7,417	7,412	7,400	7,471	7,473
New Capacity	0	549	549	549	549
Dynegy Purchase	165	0	0	0	0
OMU	167	0	0	0	0
OVEC	179	179	179	179	179
Total Supply	7,928	8,140	8,128	8,199	8,201
MW Margin	1,247	1,399	1,373	1,416	1,290
Reserve Margin %	18.7%	20.8%	20.3%	20.9%	18.7%
Capacity Need for 14%	(312)	(456)	(427)	(466)	(322)



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**ITEM NO. 11**

**RESPONDENT: Scott Cooke**

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

Response:

The planned maintenance outage schedule for 2009 through 2013 is being provided pursuant to a Petition for Confidential Protection. The schedule is regularly modified based on actual operating conditions, forced outages, changes in the schedule required to meet environmental compliance regulations, fluctuations in wholesale prices, and other unforeseen events. On February 14, 2009, KU placed Tyrone 3 on reserve status as a result of decreasing load caused by the general economic slow down, but the unit will be available, if needed, within days. KU will continue to monitor its load and the economic dispatch of its units to determine the optimal time to return Tyrone 3 to full operational status.



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**ITEM NO. 12**

**RESPONDENT: Scott Cooke**

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:

Please see the attached Table KU-12.

Table KU-12  
 Planned Capacity Additions (2009-2018)

In Service Date	Type	Future Site	Summer Capacity (MW)	Winter Capacity (MW)
June 2010	Supercritical Pulverized Coal	Trimble County Plant	549	563
June 2017	2x1 Combined Cycle Combustion Turbine	Undecided	475	551





KENTUCKY UTILITIES COMPANY

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ITEM NO. 13

RESPONDENT: Keith Yocum

13. The following transmission energy data for the just completed calendar year and the forecast for the current year and the following four years:
- a. Total energy received from all interconnections and generation sources connected to the transmission system.
  - b. Total energy delivered to all interconnections on the transmission system.
  - c. Peak load capacity of the transmission system.
  - d. Peak demand for summer and winter seasons on the transmission system.

Response:

Data exists for 2008. The Company does not forecast this type of data; therefore no forecast exists for 2009-2012.

- a. LG&E and KU operate as a single NERC Control area that contains several generators not owned by LG&E and KU; the non-Company owned facilities are also included as sources below:

Tie Lines Received (MWH)	16,511,814
Net Generation-LG&E (MWH)	17,202,747
Net Generation-KU (MWH)	18,295,536
Net Received from OMU (MWH)	1,130,065
Net Generation-IPPs (MWH)	<u>1,121,778</u>
Total Sources (MWH)	54,420,415

- b. LG&E and KU operate as a single Control Area, the amount of energy delivered at the interconnections of the single Control area were 18,896,814 MWH(s).
- c. There is no set number for peak load capacity for the transmission system. The system is built to support Network Service and firm PTP customers as tested under the E.ON Transmission Planning Guidelines. Actual transmission capacity available for Network customers, import, export or thru-flow will vary depending on which facilities (generation, load or transmission) in the interconnected transmission system of the eastern interconnect are connected and operated at any given time.
- d. The maximum summer peak transmission load for the combined LG&E/KU transmission system was 7042 MW for the peak hour of 7/29/2008 at 4PM.

The maximum winter peak transmission load for the combined LG&E/KU transmission system was 7067 for the peak hour of 1/25/2008 at 8 AM.



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**ITEM NO. 14**

**RESPONDENT: Keith Yocum**

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:

The response to this item is being provided pursuant to a Petition for Confidential Protection.

**COMMONWEALTH OF KENTUCKY**  
**BEFORE THE PUBLIC SERVICE COMMISSION**

**RECEIVED**

MAR 30 2009

PUBLIC SERVICE  
COMMISSION

ADM CASE NO. 387

**In the Matter of:**

**PETITION FOR CONFIDENTIAL PROTECTION OF )  
KENTUCKY UTILITIES COMPANY OF CERTAIN )  
PLANNING-RELATED INFORMATION FILED )  
IN CONNECTION WITH ITS 2008 ANNUAL REPORT )**

**PETITION OF  
KENTUCKY UTILITIES COMPANY  
FOR CONFIDENTIAL PROTECTION**

Kentucky Utilities Company ("KU") petitions the Public Service Commission of Kentucky ("Commission") pursuant to 807 KAR 5:001, Section 7, to grant confidential protection to certain planning-related information it is required to submit in connection with its annual report. In support of this Petition, KU states as follows:

1. By Order of December 20, 2001, in *In the Matter of: A Review of the Adequacy of Kentucky's Generation Capacity and Transmission System*, Administrative Case No. 387, the Commission established findings regarding the adequacy of Kentucky's generation capacity and transmission system. In an effort to continue monitoring these issues, however, the Commission ordered Kentucky's six major jurisdictional electric utilities to file annually certain planning-related information, as defined in Appendix G to its Order, and as amended in its subsequent Order dated March 29, 2004. By Order of October 7, 2005, the Commission closed Administrative Case No. 387, but required jurisdictional utilities to continue to submit such information as a supplement to their annual report (such annual report being the FERC Form No. 1).

2. Simultaneous with the filing of this Petition, KU is filing its annual report including the planning-related information required by Appendix G to the Commission's

December 20, 2001 Order. KU's response to Item No. 14 of Appendix G regarding the need for transmission capacity additions contains confidential information the disclosure of which has a reasonable likelihood of threatening public safety. Additionally, KU's response to Item No. 11 of Appendix G regarding scheduled outages or retirements of generating capacity contains confidential commercial information the disclosure of which would cause KU competitive injury. Therefore, KU's responses to Item Nos. 11 and 14 are being submitted with this request for confidential treatment.

### **Transmission Capacity Additions**

3. Pursuant to Item No. 14 of Appendix G to the Commission's December 20, 2001 Order in Administrative Case No. 387, jurisdictional electric utilities must file annually all planned transmission capacity additions for the 10 years following such filing including such facility's expected in-service date, size and site, as well as, identify the transmission need each addition is intended to address.

4. On June 20, 2005, the Kentucky General Assembly amended the Kentucky Open Records Act to protect from disclosure certain information that has a reasonable likelihood of threatening public safety by exposing a vulnerability "in preventing, protecting against, mitigating, or responding to a terrorist act." KRS 61.878(1)(m). This includes infrastructure records exposing such a vulnerability in the location, configuration, or security of critical systems, including electrical systems. KRS 61.878(1)(m)(1)(f).

5. The information provided in response to Item No. 14 reveals information regarding KU's transmission capacity additions and the need that such additions are intended to address. If such information is made available in the public record, individuals seeking to induce public harm will have critical information concerning the present vulnerabilities of KU's

transmission system. Knowledge of such vulnerabilities may allow such a person to cause public harm through the disruption of the electric transmission system.

6. The information contained in response to Item No. 14 for which KU is seeking confidential treatment is not known outside of KU, and it is not disseminated within KU except to those employees with a legitimate business need to know and act upon the information.

#### **Scheduled Outages**

7. Pursuant to Item No. 11 of Appendix G to the Commission's December 20, 2001 Order in Administrative Case No. 387, jurisdictional electric utilities also must file annually information concerning scheduled outages or retirements of generating capacity.

8. The Kentucky Open Records Act protects commercial information, generally recognized as confidential or proprietary, if its public disclosure would cause competitive injury to the disclosing entity. KRS 61.878(1)(c). Competitive injury occurs when disclosure of the information would give competitors an unfair business advantage. The information contained in the response to Item No. 11 contains such competitive and proprietary information, and is therefore being submitted with this request for confidential treatment.

9. KU's response to Item No. 11 regarding scheduled maintenance outages and retirements of generation capacity contains sensitive commercial information, the disclosure of which would unfairly advantage KU's competitors for wholesale power sales. This information would allow competitors of KU to know when KU's generating plants will be down for maintenance and thus know a crucial input into KU's generating costs and need for power and energy during those periods. The commercial risk of the disclosure of this information is that potential suppliers will be able to manipulate the price of power bid to KU in order to maximize



their revenues, thereby causing higher prices for KU's customers and giving a commercial advantage to KU's competitors.

10. Further, disclosure of this information will damage KU's competitive position and business interests. The information provided in response to Item No. 11 regarding scheduled outages is highly sensitive information that, if made public, would enable prospective purchasers of KU's power supply to manipulate the bidding process to the detriment of KU. Thus, disclosure of this information may detrimentally impact KU's ability to contract for off-system sales during the same time period. Any impairment of KU's ability to obtain fair prices for its power supply will decrease the price KU is paid for its power supply. As a result, KU will not get the same quality of offers that would be produced by a system protected by the confidentiality employed by unregulated business and KU will not be able to compete effectively for off-system sales.

11. The information contained in response to Item No. 11 of the Commission's Order for which KU is seeking confidential treatment is not known outside of KU, and it is not disseminated within KU except to those employees with a legitimate business need to know and act upon the information. This information is not on file with the Federal Energy Regulatory Commission, the Securities and Exchange Commission or other public agencies, and is not available from any commercial or other source outside of KU.

12. The information contained in response to Item No. 11 and for which KU is seeking confidential protection is identical in nature to that provided to the Commission in response to the Commission's requests for information in Case No. 2000-497 and previously in this proceeding. The Commission granted confidential protection to KU's planned maintenance schedule for each of KU's generating units.

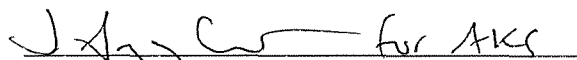
13. The information provided in response to Item Nos. 11 and 14 of Appendix G to the Commission's December 20, 2001 Order demonstrates on its face that it merits confidential protection. If the Commission disagrees, however, it must hold an evidentiary hearing to protect the due process rights of KU and supply the Commission with a complete record to enable it to reach a decision with regard to this matter. *Utility Regulatory Commission v. Kentucky Water Service Company, Inc.*, Ky. App., 642 S.W.2d 591, 592-94 (1982).

14. KU does not object to disclosure of the confidential information, pursuant to a protective agreement, to intervenors with a legitimate interest in reviewing the confidential information for the purpose of assisting the Commission's review in this proceeding.

15. In accordance with the provisions of 807 KAR 5:001 Section 7, one copy of KU's response to the Commission's request with the confidential information highlighted and ten (10) copies of KU's response without the confidential information is herewith filed with the Commission.

**WHEREFORE**, Kentucky Utilities Company respectfully requests that the Commission grant confidential protection, or in the alternative, schedule an evidentiary hearing on all factual issues.

Respectfully submitted,



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Senior Corporate Attorney  
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(502) 627-2088

COUNSEL FOR  
KENTUCKY UTILITIES COMPANY

**KENTUCKY UTILITIES COMPANY**

**2008 ANNUAL RESOURCE ASSESSMENT FILING  
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**ITEM NO. 11**

**RESPONDENT: Scott Cooke**

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

Response:

The planned maintenance outage schedule for 2009 through 2013 is being provided pursuant to a Petition for Confidential Protection. The schedule is regularly modified based on actual operating conditions, forced outages, changes in the schedule required to meet environmental compliance regulations, fluctuations in wholesale prices, and other unforeseen events. On February 14, 2009, KU placed Tyrone 3 on reserve status as a result of decreasing load caused by the general economic slow down, but the unit will be available, if needed, within days. KU will continue to monitor its load and the economic dispatch of its units to determine the optimal time to return Tyrone 3 to full operational status.

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**ITEM NO. 14**

**RESPONDENT: Keith Yocum**

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:

The response to this item is being provided pursuant to a Petition for Confidential Protection.