EAST KENTUCKY POWER COOPERATIVE

September 28, 2007

HAND DELIVERED

Ms. Elizabeth O'Donnell
Executive Director
Public Service Commission
211 Sower Boulevard
Frankfort, KY 40602

Re: PSC Case No. 2007-00168

Dear Ms. O'Donnell:

Please find enclosed for filing with the Commission in the above-referenced case an original and ten copies of the following responses of East Kentucky Power Cooperative, Inc. ("EKPC") to Staff requests for information made during the September 25, 2007 Informal Conference:

1. A schedule of events expected to have impacts on EKPC rates through 2010.

2. A breakdown of annual operations and maintenance costs for the Barge Mounted Pumps installed or planned at Cooper Station, and the proposed Cooling Tower for Cooper Unit No. 2.

If there are any questions about this information, please contact me at EKPC headquarters.

Very truly yours,

Charles A. Lile
Senior Corporate Counsel

Enclosures

Cc: Parties of Record

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EAST KENTUCKY POWER COOPERATIVE, INC.
PSC CASE NO. 2007-00168

SCHEDULE OF EXPECTED MAJOR RATE IMPACTS
2007-2010

Spurlock Station Unit 2 Scrubber System- Approved- PSC Case No. 2005-00417 Operation Date- October 2008 Estimated Cost-	$207,400,000
Spurlock Station Unit 1 Scrubber System- Approved- PSC Case No. 2006-00132 Operation Date- May 2009 Estimated Cost-	$172,900,000
Spurlock Station SCR Modifications for Year-Round Use (Part of EKPC Acid Rain Settlement, not a new facility) Operation Date- June 2009 Estimated Cost-	$ 13,500,000
Spurlock Station Unit No. 4 Approved- PSC Case No. 2004-00423 Operation Date- April 2009 Estimated Cost-	$555,608,000
Smith Station CTs 8-9 Approved- PSC Case No. 2005-00053 Operation Date- June 2009 Estimated Cost-	$155,798,022
Smith-West Garrard Transmission Line- West Garrard Transmission Substation Approved- PSC Case No. 2006-00463 Operation Date- December 2009 Estimated Cost-	$ 44,919,000

EAST KENTUCKY POWER COOPERATIVE, INC.
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OPERATIONS AND MAINTENANCE COSTS FOR COOPER STATION
BARGE MOUNTED PUMPS AND COOLING TOWER

The attached schedules show that the annual Operations and Maintenance costs, including costs of power for operation and other associated costs, for the Barge Mounted Pumps are estimated at $1,372,252. Adding the Cooling Tower for Cooper Station Unit 2 would add an additional estimated $1,362,697 in annual operations and maintenance costs.

East Kentucky Power Cooperative
John Sherman Cooper Station
5/17/2007

Low Water Mitigation Plan

Quantitative Analysis

Scenarios	Estimated Capital Cost	Annual Capital Payment	Annual Capital ($/MWH)	Annual O&M ($/Yr)	O&M ($/MWH)	Annual Total ($)	Total ($/MWH)
1. Barge Mounted Pumps with Coffer Dams (Qty 2)	$ 17,600,000	$ 2,024,000	$ 0.940	$ 2,924,611.97	$ 1.358	$ 4,948,612	$ 2.298
2. Barge Mounted directly connected to each existing intake	$ 13,300,000	$ 1,529,500	$ 0.710	$ 2,924,611.97	$ 1.358	$ 4,454,112	$ 2.069
3. Mechanical Draft Cooling Towers (Qty 2) and New Intake Structure	$ 35,600,000	$ 4,094,000	$ 1.901	$ 2,571,155.01	$ 1.194	$ 6,665,155	$ 3.096
4. Permanent deep water intake	$ 29,300,000	$ 3,369,500	$ 1.565	$ 1,831,408.62	$ 0.851	$ 5,200,909	$ 2.416
5. Cooling Tower for Cooper 2 and Barge mounted pumps for Unit 1	$ 24,000,000	$ 2,760,000	$ 1.282	$ 2,734,949.68	$ 1.270	$ 5,494,950	$ 2.552
*6. Barge Mounted Pumps for Summer 2007 - High Temp Water Plan	$ 2,300,000	$ 264,500	$ 0.123	$ 600,606.17	$ 0.279	$ 865,106	$ 0.402

*Summer 2007 only

East Kentucky Power Cooperative
John Sherman Cooper Station
5/17/2007

Low Water Mitigation Plan
Quantitative Analysis

					Pumps/Barges	Cooling Tower	
Assumptions:	**Plan 1**	**Plan 2**	**Plan 3**	**Plan 4**	**Plan 5**	**Plan 5**	**Plan 6**
Electrical Consumption internal charge rate, Cooper O&M	$ 27.357	$ 27.357	$ 27.357	$ 27.357	$ 27.357	$ 27.357	$ 27.357
Capital Carrying Cost(interest, dep, taxes, insurance)	0.115	0.115	0.115	0.115	0.115	0.115	0.115
Power Consumption, KW	6,700	6,700	4,750	3,750	3,680	2,600	1,700
Power Consumption, KWH	154,000	154,000	114,000	90,000	80,000	62,400	26,800
Capacity Charge /Demand Charge, based on Gilbert, $/KWY	$ 190	$ 190	$ 190	$ 190	$ 190	$ 190	$ 190
Generation, Net MWH	2,153,046	2,153,046	2,166,712	2,173,720	2,155,990	2,155,990	2,188,086
80% capacity factor, Cooling Tower, 70% Pumps							
Operations	$ 50,000	$ 50,000	$ -	$ -	$ 50,000	$ -	$ -
Maintenance	$ 63,875	$ 63,875	$ 330,330	$ 220,231	$ 63,875	$ 220,231	$ 10,000
Water Treatment	$ -	$ -	$ 200,000	$ -	$ -	$ 150,000	$ -
Power Consumption, $	$ 1,537,737	$ 1,537,737	$ 1,138,325	$ 898,677	$ 559,177	$ 498,466	$ 267,606
Capacity Chg, @$190/KW*Yr, $	$ 1,273,000	$ 1,273,000	$ 902,500	$ 712,500	$ 699,200	$ 494,000	$ 323,000
Total O&M	**$ 2,924,611.97**	**$ 2,924,611.97**	**$ 2,571,155.01**	**$ 1,831,408.62**	**$ 1,372,252.08**	**$ 1,362,697.60**	**$ 600,606.17**

$ 2,397,548.50
$ 2,734,949.68

East Kentucky Power Cooperative
John Sherman Cooper Station
3/30/2007

Low Water Mitigation Plan
Quantitative Analysis

Notes:

Assumptions:	
Electrical Consumption internal charge rate, Cooper O&M	Based on 2006 yearly report Production Operation & Maintenance Costs
Capital Carrying Cost(interest, dep, taxes, insurance)	Based on rate supplied from Finance March 29, 2007
Power Consumption, KW	per Stanley study Cooper Station Circulating Water Intake Study March 2007
Power Consumption, KWH	per Stanley study Cooper Station Circulating Water Intake Study March 2007
Capacity Charge /Demand Charge, based on Gilbert, $/KWY	Based on Gilbert Unit Spurlock for next increment of baseload power
Generation, Net MWH	Historical generation for Cooper Station minus power consumption for each scenario
O&M	
Operations	Budget number for account
Maintenance	Pump maintenance from Godwin, temporary pump experts
Water Treatment	Based on Spurlock Cooling tower costs scaled to (1) tower 242 MW and (2) towers 366 MW
Power Consumption, $	Cooper process only cost per kWh times power consumption for each scenario
Capacity Chg, @$190/KW*Yr, $	Capacity chg rate from Gilbert times power consumption demand for each scenario.