EAST KENTUCKY POWER COOPERATIVE

RECEIVED
AUG 07 2009
PUBLIC SERVICE COMMISSION

August 7, 2009

Via Hand-Delivery

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

Re: PSC Case No. 2009-00106

Dear Mr. Derouen:

Please find enclosed for filing with the Commission in the above-referenced case an original and ten copies of the responses of East Kentucky Power Cooperative, Inc. ("EKPC") to the Second Data Request of Commission Staff, the Initial Requests for Information of the Attorney General ("AG"), and the First Set of Data Requests of the Sierra Club, Kentucky Environmental Foundation and Kentuckians for the Commonwealth (collectively, "Public Interest Groups"), all dated July 24, 2009.

Very truly yours,

David Smart
General Counsel

Enclosures

Cc: Parties of Record

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

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

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

2009 INTEGRATED RESOURCE PLAN OF EAST KENTUCKY POWER COOPERATIVE, INC.	) CASE NO.) 2009-00106

RESPONSES TO COMMISSION STAFF'S SECOND DATA REQUEST TO EAST KENTUCKY POWER COOPERATIVE, INC. DATED JULY 24, 2009

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

2009 INTEGRATED RESOURCE PLAN OF EAST KENTUCKY POWER COOPERATIVE, INC.	))	**CASE NO. 2009-00106**

CERTIFICATE

STATE OF KENTUCKY)
)
COUNTY OF CLARK)

George S. Carruba, being duly sworn, states that he has supervised the preparation of the responses of East Kentucky Power Cooperative, Inc. to the Public Service Commission Staff Second Data Request in the above-referenced case dated July 24, 2009, 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 4th day of August, 2009.

Notary Public

My Commission expires: December 8, 2009

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

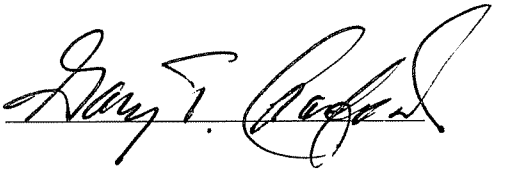
In the Matter of:

2009 INTEGRATED RESOURCE PLAN OF EAST KENTUCKY POWER COOPERATIVE, INC.	))	**CASE NO. 2009-00106**

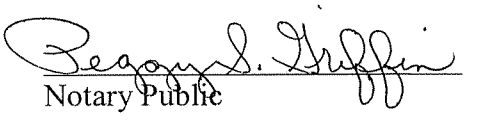
CERTIFICATE

STATE OF KENTUCKY)
)
COUNTY OF CLARK)

Gary T. Crawford, being duly sworn, states that he has supervised the preparation of the responses of East Kentucky Power Cooperative, Inc. to the Public Service Commission Staff Second Data Request in the above-referenced case dated July 24, 2009, 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 4th day of August, 2009.



Notary Public

My Commission expires: December 8, 2009

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

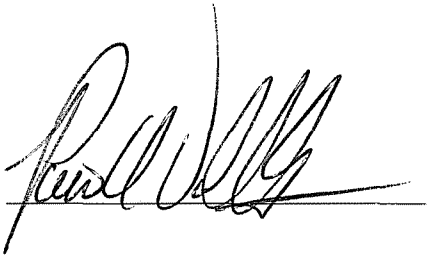
In the Matter of:

2009 INTEGRATED RESOURCE PLAN OF EAST KENTUCKY POWER COOPERATIVE, INC.	))	**CASE NO. 2009-00106**

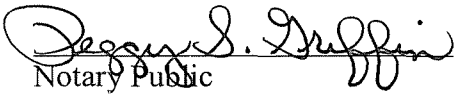
CERTIFICATE

STATE OF KENTUCKY)
)
COUNTY OF CLARK)

Paul A. Dolloff, being duly sworn, states that he has supervised the preparation of the responses of East Kentucky Power Cooperative, Inc. to the Public Service Commission Staff Second Data Request in the above-referenced case dated July 24, 2009, 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 31st day of August, 2009.



Notary Public

My Commission expires: December 8, 2009

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

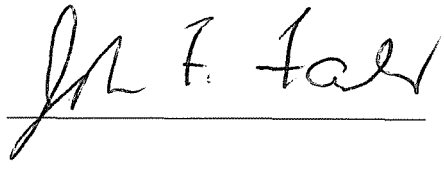
In the Matter of:

2009 INTEGRATED RESOURCE PLAN OF EAST KENTUCKY POWER COOPERATIVE, INC.	))	**CASE NO. 2009-00106**

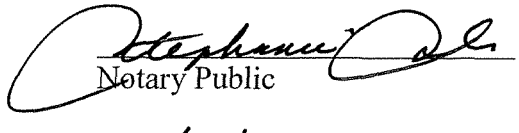
CERTIFICATE

STATE OF RHODE ISLAND)
)
COUNTY OF PROVIDENCE)

John F. Farley, being duly sworn, states that he has supervised the preparation of the responses of East Kentucky Power Cooperative, Inc. to the Public Service Commission Staff Second Data Request in the above-referenced case dated July 24, 2009, 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 5 day of August, 2009.



Notary Public

My Commission expires: 04/08/2013

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

2009 INTEGRATED RESOURCE PLAN OF EAST KENTUCKY POWER COOPERATIVE, INC.	))	**CASE NO. 2009-00106**

CERTIFICATE

STATE OF KENTUCKY)
)
COUNTY OF CLARK)

Craig A. Johnson, being duly sworn, states that he has supervised the preparation of the responses of East Kentucky Power Cooperative, Inc. to the Public Service Commission Staff Second Data Request in the above-referenced case dated July 24, 2009, 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.

Craig A. Johnson

Subscribed and sworn before me on this 4th day of August, 2009.

Peggy S. Griffin
Notary Public

My Commission expires: December 8, 2009

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

2009 INTEGRATED RESOURCE PLAN OF EAST KENTUCKY POWER COOPERATIVE, INC.	))	**CASE NO. 2009-00106**

CERTIFICATE

STATE OF KENTUCKY)
)
COUNTY OF CLARK)

James C. Lamb, Jr., being duly sworn, states that he has supervised the preparation of the responses of East Kentucky Power Cooperative, Inc. to the Public Service Commission Staff Second Data Request in the above-referenced case dated July 24, 2009, 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.

James C. Lamb, Jr.

Subscribed and sworn before me on this 4th day of August, 2009.

Peggy S. Griffin
Notary Public

My Commission expires: December 8, 2009

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

2009 INTEGRATED RESOURCE PLAN OF EAST KENTUCKY POWER COOPERATIVE, INC.	))	**CASE NO. 2009-00106**

CERTIFICATE

STATE OF KENTUCKY)
)
COUNTY OF CLARK)

Isaac S. Scott, being duly sworn, states that he has supervised the preparation of the responses of East Kentucky Power Cooperative, Inc. to the Public Service Commission Staff Second Data Request in the above-referenced case dated July 24, 2009, 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.

Isaac S. Scott

Subscribed and sworn before me on this 4th day of August, 2009.

Peggy S. Griffin
Notary Public

My Commission expires: December 8, 2009

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

2009 INTEGRATED RESOURCE PLAN OF EAST KENTUCKY POWER COOPERATIVE, INC.	))	**CASE NO. 2009-00106**

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 Staff Second Data Request in the above-referenced case dated July 24, 2009, 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.

Julia J. Tucker

Subscribed and sworn before me on this 4th day of August, 2009.

Peggy S. Griffin
Notary Public

My Commission expires: December 8, 2009

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

2009 INTEGRATED RESOURCE PLAN OF EAST KENTUCKY POWER COOPERATIVE, INC.	))	**CASE NO. 2009-00106**

CERTIFICATE

STATE OF KENTUCKY)
)
COUNTY OF CLARK)

Ann F. Wood, being duly sworn, states that she has supervised the preparation of the responses of East Kentucky Power Cooperative, Inc. to the Public Service Commission Staff Second Data Request in the above-referenced case dated July 24, 2009, 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.

Ann F. Wood

Subscribed and sworn before me on this 4th day of August, 2009.

Peggy S. Griffin
Notary Public

My Commission expires: December 8, 2009

EAST KENTUCKY POWER COOPERATIVE, INC.
PSC CASE NO. 2009-00106
SECOND DATA REQUEST RESPONSE

COMMISSION STAFF'S SECOND DATA REQUEST DATED 07/24/09
REQUEST 1
RESPONSIBLE PERSON: **Julia J. Tucker**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 1. Refer to page 5-1 of EKPC's Integrated Resource Plan ("IRP") which indicates that EKPC's peak load in 2008 was 3,051 MW.

Request 1a. Confirm whether the 2008 peak load was a summer or winter peak.

Response 1a. EKPC's 2008 annual peak in of 3,051 MW occurred in January 2008.

Request 1b. Provide EKPC's peak load for the 2008-2009 winter.

Response 1b. EKPC's 2008-2009 winter peak was 3,152 MW and occurred in January 2009.

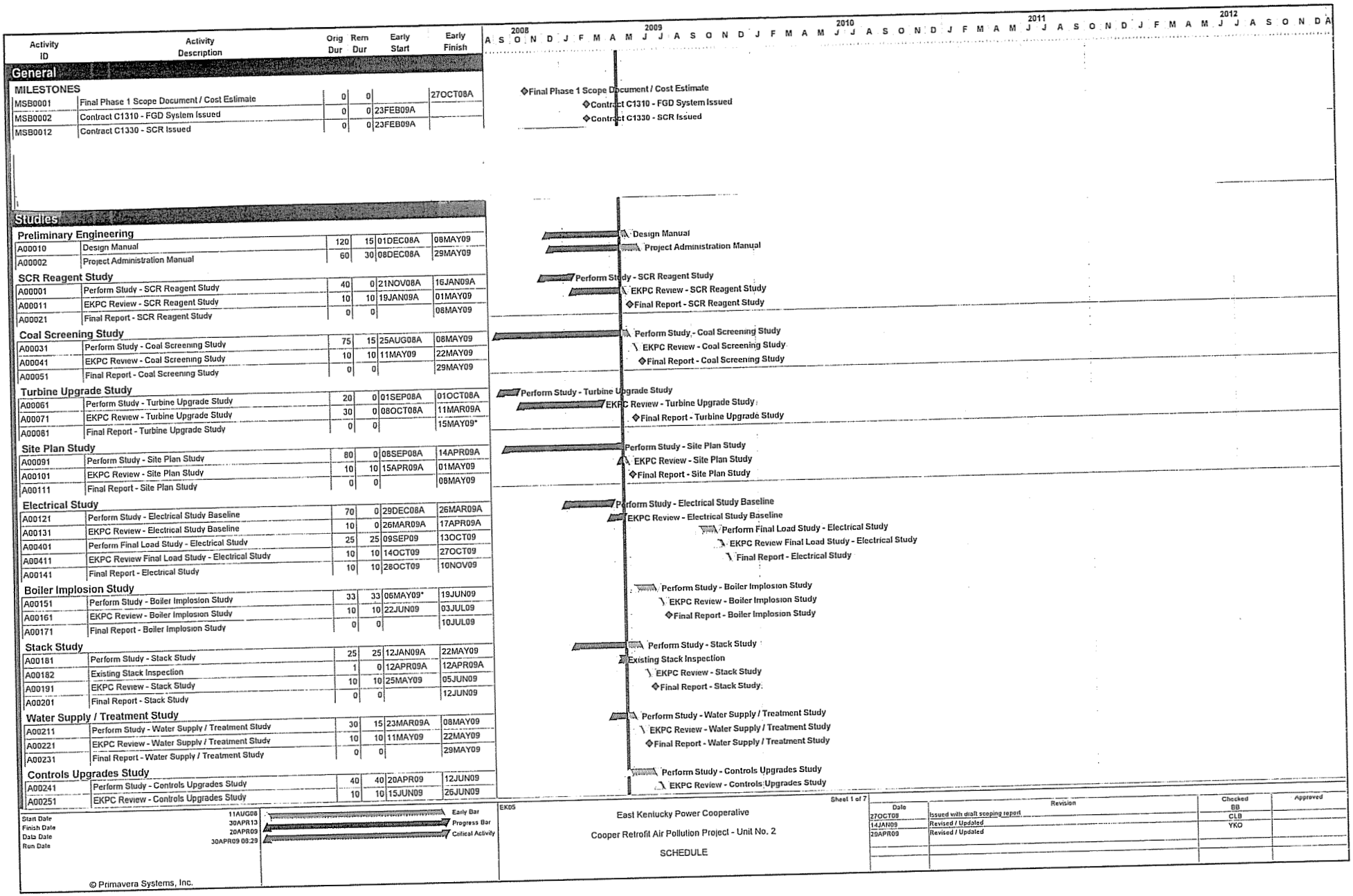
EAST KENTUCKY POWER COOPERATIVE, INC.
PSC CASE NO. 2009-00106
SECOND DATA REQUEST RESPONSE

COMMISSION STAFF'S SECOND DATA REQUEST DATED 07/24/09
REQUEST 2
RESPONSIBLE PERSON: **Gary T. Crawford**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 2. Refer to page 5-10 of the IRP, specifically, the reference to Case No. 2008-00472.[1] Provide the timetable, showing the specific steps involved, for completing the Cooper environmental project approved in that case.

Response 2. The timetable for completing the Cooper environmental project approved in Case No. 2008-00472 is provided on pages 2 through 8 of this response.

[1] Case No. 2008-00472, The Application of East Kentucky Power Cooperative, Inc. for a Certificate of Public Convenience and Necessity for the Construction of an Air Quality Control System at Cooper Power Station (Ky. PSC May 1, 2009).



Activity ID	Activity Description	Orig Dur	Rem Dur	Early Start	Early Finish
General					
MILESTONES					
MSB0001	Final Phase 1 Scope Document / Cost Estimate	0	0		27OCT08A
MSB0002	Contract C1310 - FGD System Issued	0	0	23FEB09A	
MSB0012	Contract C1330 - SCR Issued	0	0	23FEB09A	
Studies					
Preliminary Engineering					
A00010	Design Manual	120	15	01DEC08A	08MAY09
A00002	Project Administration Manual	60	30	08DEC08A	29MAY09
SCR Reagent Study					
A00001	Perform Study - SCR Reagent Study	40	0	21NOV08A	16JAN09A
A00011	EKPC Review - SCR Reagent Study	10	10	19JAN09A	01MAY09
A00021	Final Report - SCR Reagent Study	0	0		08MAY09
Coal Screening Study					
A00031	Perform Study - Coal Screening Study	75	15	25AUG08A	08MAY09
A00041	EKPC Review - Coal Screening Study	10	10	11MAY09	22MAY09
A00051	Final Report - Coal Screening Study	0	0		29MAY09
Turbine Upgrade Study					
A00061	Perform Study - Turbine Upgrade Study	20	0	01SEP08A	01OCT08A
A00071	EKPC Review - Turbine Upgrade Study	30	0	08OCT08A	11MAR09A
A00081	Final Report - Turbine Upgrade Study	0	0		15MAY09*
Site Plan Study					
A00091	Perform Study - Site Plan Study	80	0	08SEP08A	14APR09A
A00101	EKPC Review - Site Plan Study	10	10	15APR09A	01MAY09
A00111	Final Report - Site Plan Study	0	0		08MAY09
Electrical Study					
A00121	Perform Study - Electrical Study Baseline	70	0	29DEC08A	26MAR09A
A00131	EKPC Review - Electrical Study Baseline	10	0	26MAR09A	17APR09A
A00401	Perform Final Load Study - Electrical Study	25	25	09SEP09	13OCT09
A00411	EKPC Review Final Load Study - Electrical Study	10	10	14OCT09	27OCT09
A00141	Final Report - Electrical Study	10	10	28OCT09	10NOV09
Boiler Implosion Study					
A00151	Perform Study - Boiler Implosion Study	33	33	06MAY09*	19JUN09
A00161	EKPC Review - Boiler Implosion Study	10	10	22JUN09	03JUL09
A00171	Final Report - Boiler Implosion Study	0	0		10JUL09
Stack Study					
A00181	Perform Study - Stack Study	25	25	12JAN09A	22MAY09
A00182	Existing Stack Inspection	1	0	12APR09A	12APR09A
A00191	EKPC Review - Stack Study	10	10	25MAY09	05JUN09
A00201	Final Report - Stack Study	0	0		12JUN09
Water Supply / Treatment Study					
A00211	Perform Study - Water Supply / Treatment Study	30	15	23MAR09A	08MAY09
A00221	EKPC Review - Water Supply / Treatment Study	10	10	11MAY09	22MAY09
A00231	Final Report - Water Supply / Treatment Study	0	0		29MAY09
Controls Upgrades Study					
A00241	Perform Study - Controls Upgrades Study	40	40	20APR09	12JUN09
A00251	EKPC Review - Controls Upgrades Study	10	10	15JUN09	26JUN09

Start Date 11AUG08
Finish Date 30APR13
Data Date 20APR09
Run Date 30APR09 08:29

Early Bar
Progress Bar
Critical Activity

EK05

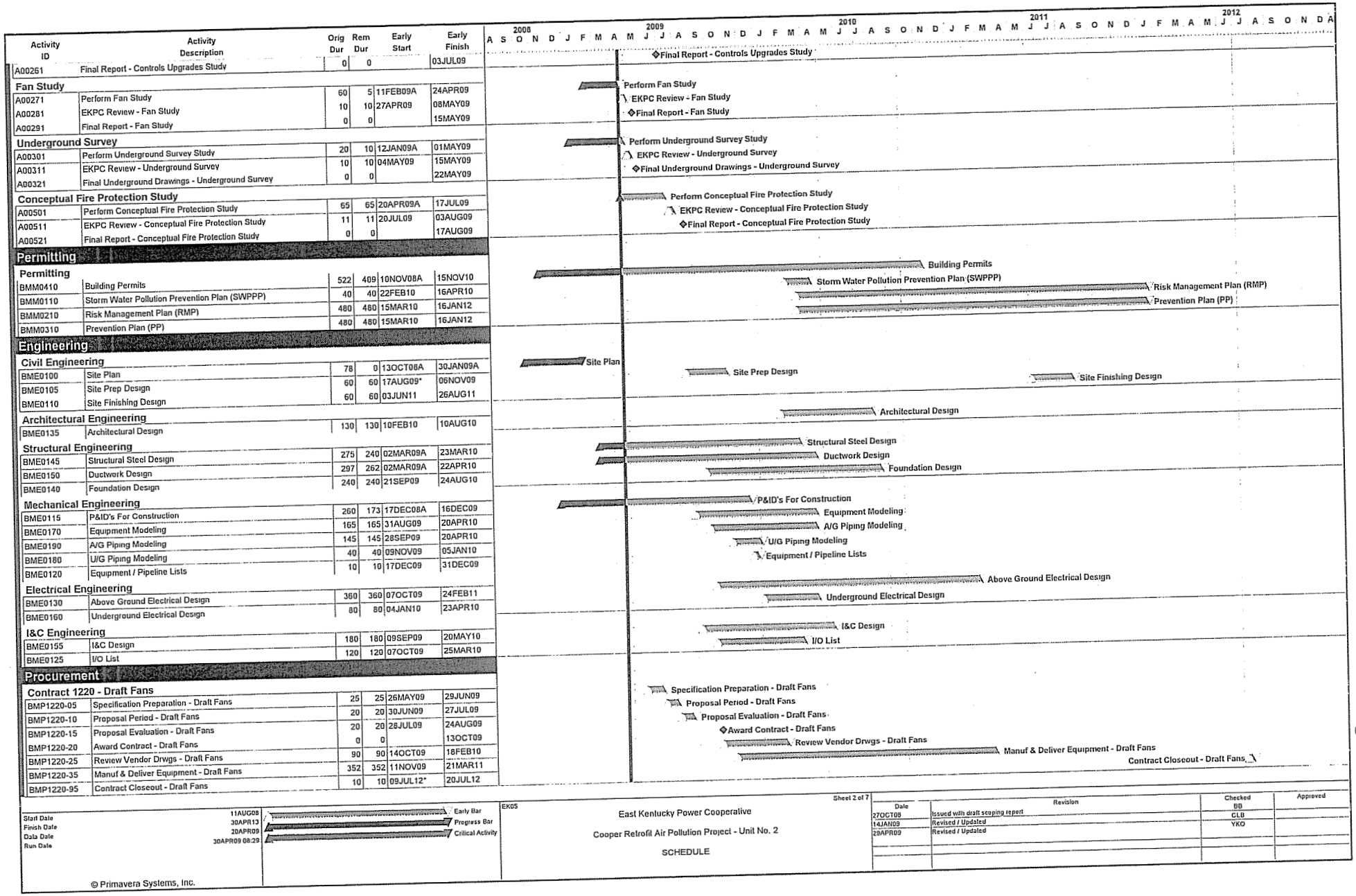
Sheet 1 of 7

East Kentucky Power Cooperative

Cooper Retrofit Air Pollution Project - Unit No. 2

SCHEDULE

Date	Revision	Checked	Approved
27OCT08	Issued with draft scoping report	BB	
14JAN09	Revised / Updated	CLB	
20APR09	Revised / Updated	YKO	



Activity ID	Activity Description	Orig Dur	Rem Dur	Early Start	Early Finish
A00261	Final Report - Controls Upgrades Study	0	0		03JUL09
Fan Study					
A00271	Perform Fan Study	60	5	11FEB09A	24APR09
A00281	EKPC Review - Fan Study	10	10	27APR09	08MAY09
A00291	Final Report - Fan Study	0	0		15MAY09
Underground Survey					
A00301	Perform Underground Survey Study	20	10	12JAN09A	01MAY09
A00311	EKPC Review - Underground Survey	10	10	04MAY09	15MAY09
A00321	Final Underground Drawings - Underground Survey	0	0		22MAY09
Conceptual Fire Protection Study					
A00501	Perform Conceptual Fire Protection Study	65	65	20APR09A	17JUL09
A00511	EKPC Review - Conceptual Fire Protection Study	11	11	20JUL09	03AUG09
A00521	Final Report - Conceptual Fire Protection Study	0	0		17AUG09
Permitting					
Permitting					
BMM0410	Building Permits	522	409	10NOV08A	15NOV10
BMM0110	Storm Water Pollution Prevention Plan (SWPPP)	40	40	22FEB10	16APR10
BMM0210	Risk Management Plan (RMP)	480	480	15MAR10	16JAN12
BMM0310	Prevention Plan (PP)	480	480	15MAR10	16JAN12
Engineering					
Civil Engineering					
BME0100	Site Plan	78	0	13OCT08A	30JAN09A
BME0105	Site Prep Design	60	60	17AUG09*	06NOV09
BME0110	Site Finishing Design	60	60	03JUN11	26AUG11
Architectural Engineering					
BME0135	Architectural Design	130	130	10FEB10	10AUG10
Structural Engineering					
BME0145	Structural Steel Design	275	240	02MAR09A	23MAR10
BME0150	Ductwork Design	297	262	02MAR09A	22APR10
BME0140	Foundation Design	240	240	21SEP09	24AUG10
Mechanical Engineering					
BME0115	P&ID's For Construction	260	173	17DEC08A	16DEC09
BME0170	Equipment Modeling	165	165	31AUG09	20APR10
BME0190	A/G Piping Modeling	145	145	28SEP09	20APR10
BME0180	U/G Piping Modeling	40	40	09NOV09	05JAN10
BME0120	Equipment / Pipeline Lists	10	10	17DEC09	31DEC09
Electrical Engineering					
BME0130	Above Ground Electrical Design	360	360	07OCT09	24FEB11
BME0160	Underground Electrical Design	80	80	04JAN10	23APR10
I&C Engineering					
BME0155	I&C Design	180	180	09SEP09	20MAY10
BME0125	I/O List	120	120	07OCT09	25MAR10
Procurement					
Contract 1220 - Draft Fans					
BMP1220-05	Specification Preparation - Draft Fans	25	25	26MAY09	29JUN09
BMP1220-10	Proposal Period - Draft Fans	20	20	30JUN09	27JUL09
BMP1220-15	Proposal Evaluation - Draft Fans	20	20	28JUL09	24AUG09
BMP1220-20	Award Contract - Draft Fans	0	0		13OCT09
BMP1220-25	Review Vendor Drwgs - Draft Fans	90	90	14OCT09	18FEB10
BMP1220-35	Manuf & Deliver Equipment - Draft Fans	352	352	11NOV09	21MAR11
BMP1220-95	Contract Closeout - Draft Fans	10	10	09JUL12*	20JUL12

Start Date 11AUG08
Finish Date 30APR13
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Run Date 30APR09 08:29

Early Bar
Progress Bar
Critical Activity

Sheet 2 of 7

EKPC

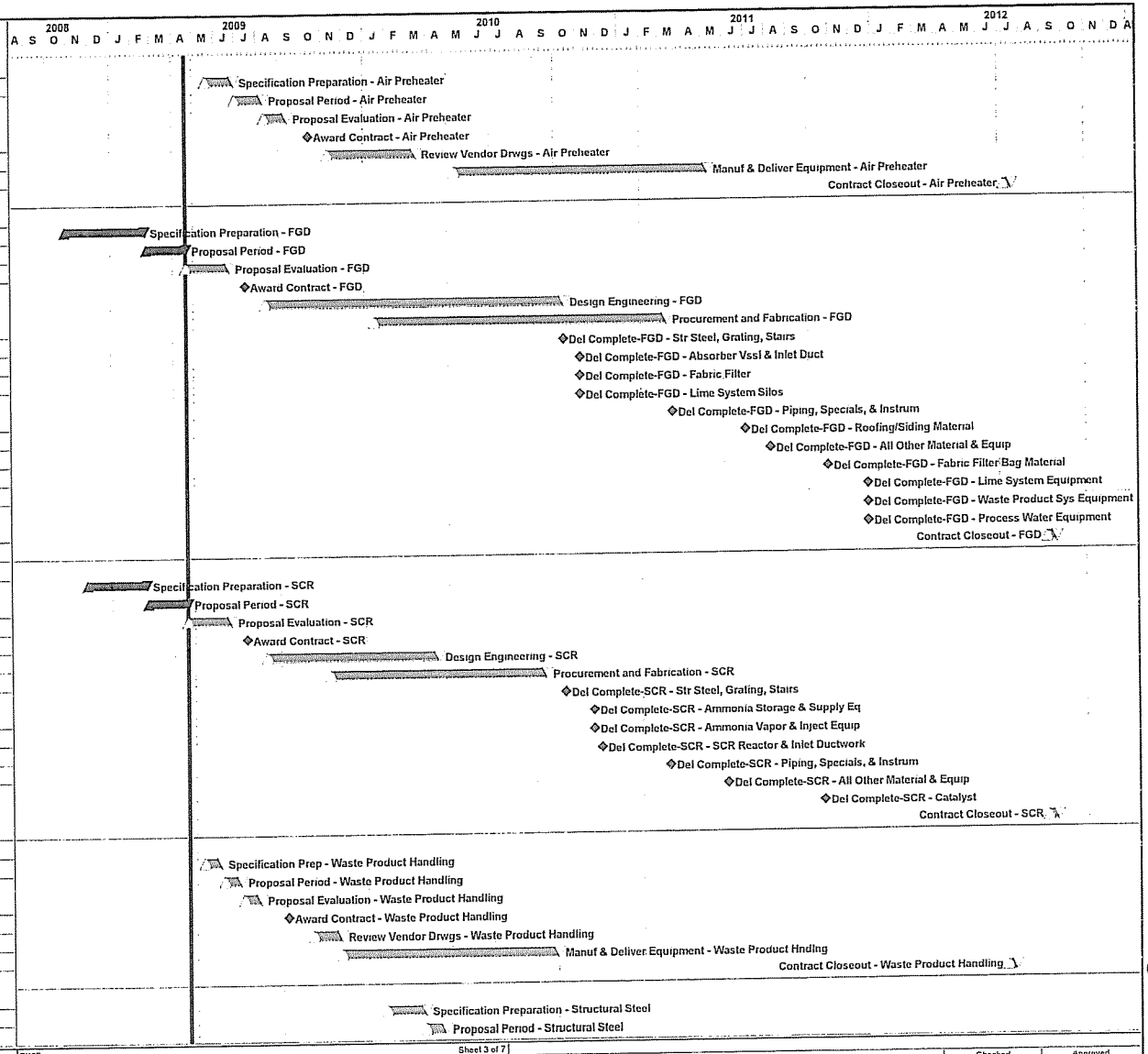
East Kentucky Power Cooperative

Cooper Retrofit Air Pollution Project - Unit No. 2

SCHEDULE

Date	Revision	Checked	Approved
27OCT08	Issued with draft scoping report	BB	
14JAN09	Revised / Updated	CLB	
29APR09	Revised / Updated	YKO	

Activity ID	Activity Description	Orig Dur	Rem Dur	Early Start	Early Finish
Contract 1230 - Air Preheater					
BMP1230-05	Specification Preparation - Air Preheater	30	30	19MAY09	29JUN09
BMP1230-10	Proposal Period - Air Preheater	30	30	30JUN09	10AUG09
BMP1230-15	Proposal Evaluation - Air Preheater	25	25	11AUG09	14SEP09
BMP1230-20	Award Contract - Air Preheater	0	0		13OCT09
BMP1230-25	Review Vendor Drwgs - Air Preheater	90	90	11NOV09	18MAR10
BMP1230-35	Manuf & Deliver Equipment - Air Preheater	260	260	12MAY10	10MAY11
BMP1230-95	Contract Closeout - Air Preheater	10	10	09JUL12*	20JUL12
Contract 1310 - CFB Dry FGD System					
BMP1310-05	Specification Preparation - FGD	122	0	28OCT08A	20FEB09A
BMP1310-10	Proposal Period - FGD	41	0	23FEB09A	20APR09A
BMP1310-15	Proposal Evaluation - FGD	46	46	20APR09	22JUN09
BMP1310-20	Award Contract - FGD	0	0		14JUL09
BMP1310-25	Design Engineering - FGD	305	305	12AUG09	14OCT10
BMP1310-30	Procurement and Fabrication - FGD	300	300	15JAN10	10MAR11
BMP1310-31	Del Complete-FGD - Str Steel, Grating, Stairs	0	0		13OCT10*
BMP1310-32	Del Complete-FGD - Absorber Vssl & Inlet Duct	0	0		05NOV10*
BMP1310-33	Del Complete-FGD - Fabric Filter	0	0		05NOV10*
BMP1310-34	Del Complete-FGD - Lime System Silos	0	0		05NOV10*
BMP1310-38	Del Complete-FGD - Piping, Specials, & Instrum	0	0		18MAR11*
BMP1310-39	Del Complete-FGD - Roofing/Siding Material	0	0		01JUL11*
BMP1310-40	Del Complete-FGD - All Other Material & Equip	0	0		05AUG11*
BMP1310-41	Del Complete-FGD - Fabric Filter Bag Material	0	0		28OCT11*
BMP1310-35	Del Complete-FGD - Lime System Equipment	0	0		24DEC11*
BMP1310-36	Del Complete-FGD - Waste Product Sys Equipment	0	0		24DEC11*
BMP1310-37	Del Complete-FGD - Process Water Equipment	0	0		24DEC11*
BMC1310-95	Contract Closeout - FGD	10	10	06SEP12	19SEP12
Contract 1330 - Selective Catalytic Reduction					
BMP1330-05	Specification Preparation - SCR	100	0	27NOV08A	20FEB09A
BMP1330-10	Proposal Period - SCR	41	0	23FEB09A	20APR09A
BMP1330-15	Proposal Evaluation - SCR	46	46	20APR09	22JUN09
BMP1330-20	Award Contract - SCR	0	0		14JUL09
BMP1330-25	Design Engineering - SCR	175	175	12AUG09	15APR10
BMP1330-30	Procurement and Fabrication - SCR	220	220	11NOV09	16SEP10
BMP1330-31	Del Complete-SCR - Str Steel, Grating, Stairs	0	0		13OCT10*
BMP1330-33	Del Complete-SCR - Ammonia Storage & Supply Eq	0	0		22NOV10*
BMP1330-34	Del Complete-SCR - Ammonia Vapor & Inject Equip	0	0		22NOV10*
BMP1330-32	Del Complete-SCR - SCR Reactor & Inlet Ductwork	0	0		03DEC10*
BMP1330-35	Del Complete-SCR - Piping, Specials, & Instrum	0	0		11MAR11*
BMP1330-36	Del Complete-SCR - All Other Material & Equip	0	0		03JUN11*
BMP1330-37	Del Complete-SCR - Catalyst	0	0		20OCT11*
BMC1330-95	Contract Closeout - SCR	10	10	06SEP12	19SEP12
Contract 2640 - Waste Product Handling					
BMP2640-05	Specification Prep - Waste Product Handling	20	20	11MAY09	05JUN09
BMP2640-10	Proposal Period - Waste Product Handling	20	20	08JUN09	03JUL09
BMP2640-15	Proposal Evaluation - Waste Product Handling	20	20	06JUL09	31JUL09
BMP2640-20	Award Contract - Waste Product Handling	0	0		08SEP09
BMP2640-25	Review Vendor Drwgs - Waste Product Handling	30	30	14OCT09	24NOV09
BMP2640-35	Manuf & Deliver Equipment - Waste Product Hndlng	220	220	25NOV09	30SEP10
BMP2640-95	Contract Closeout - Waste Product Handling	10	10	09JUL12*	20JUL12
Contract 4520 - Structural Steel					
BMP4520-05	Specification Preparation - Structural Steel	40	40	27JAN10	23MAR10
BMP4520-10	Proposal Period - Structural Steel	20	20	24MAR10	20APR10



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EK05 Sheet 3 of 7

East Kentucky Power Cooperative

Cooper Retrofit Air Pollution Project - Unit No. 2

SCHEDULE

Date	Revision	Checked	Approved
27OCT08	Issued with draft scoping report	BB	
14JAN09	Revised / Updated	CLB	
29APR09	Revised / Updated	YKO	

Activity ID	Activity Description	Orig Dur	Rem Dur	Early Start	Early Finish
BMP4520-15	Proposal Evaluation - Structural Steel	10	10	21APR10	04MAY10
BMP4520-20	Award Contract - Structural Steel	0	0		08JUN10
BMP4520-30	Vendor Prepare Drwgs - Structural Steel	120	120	09JUN10	23NOV10
BMP4520-25	Review Vendor Drwgs - Structural Steel	180	180	30JUN10	08MAR11
BMP4520-35	Manuf & Deliver Equipment - Structural Steel	275	275	14JUL10	03AUG11
BMP4520-95	Contract Closeout - Structural Steel	10	10	19JAN12	01FEB12
Contract 4540 - Flue Gas Ductwork					
BMP4540-05	Specification Preparation - Flue Gas Ductwork	20	20	26MAR10	22APR10
BMP4540-10	Proposal Period - Flue Gas Ductwork	20	20	23APR10	20MAY10
BMP4540-15	Proposal Evaluation - Flue Gas Ductwork	10	10	21MAY10	03JUN10
BMP4540-20	Award Contract - Flue Gas Ductwork	0	0		13JUL10
BMP4540-40	Vendor Prepare Drwgs - Flue Gas Ductwork	80	80	14JUL10	02NOV10
BMP4540-25	Review Vendor Drwgs - Flue Gas Ductwork	120	120	04AUG10	18JAN11
BMP4540-35	Manuf & Deliver Equipment - Flue Gas Ductwork	260	260	25AUG10	24AUG11
BMP4540-95	Contract Closeout - Flue Gas Ductwork	10	10	25AUG11	07SEP11
Contract 5120 - Large Power Transformers					
BMP5120-05	Specification Preparation - Transformers	40	40	12AUG09	05OCT09
BMP5120-10	Proposal Period - Transformers	30	30	07OCT09	17NOV09
BMP5120-15	Proposal Evaluation - Transformers	20	20	18NOV09	15DEC09
BMP5120-20	Award Contract - Transformers	0	0		12JAN10
BMP5120-40	Vendor Prepare Drwgs - Transformers	60	60	13JAN10	06APR10
BMP5120-30	Review Vendor Drwgs - Transformers	300	300	13JAN10	08MAR11
BMP5120-35	Manuf & Deliver Equipment - Transformers	300	300	13JAN10	29JUN10
BMP5120-25	Review Vendor Drwgs - Transformers	60	60	07APR10	29JUN10
BMP5120-95	Contract Closeout - Transformers	10	10	07MAY12	18MAY12
Contract 5210 - Generator Circuit Breakers					
BMP5210-05	Specification Preparation - Gen Circuit Breakers	30	10	23MAR09A	01MAY09
BMP5210-10	Proposal Period - Gen Circuit Breakers	30	30	04MAY09	12JUN09
BMP5210-15	Proposal Evaluation - Gen Circuit Breakers	20	20	15JUN09	10JUL09
BMP5210-20	Award Contract - Gen Circuit Breakers	0	0		11AUG09
BMP5210-35	Manuf & Deliver Eqpt - Gen Circuit Breakers	180	180	12AUG09	22APR10
BMP5210-25	Review Vendor Drwgs - Gen Circuit Breakers	60	60	09SEP09	01DEC09
BMP5210-95	Contract Closeout - Gen Circuit Breakers	10	10	07MAY12	18MAY12
Contract 5220 - Isophase Bus Modifications					
BMP5220-05	Specification Preparation - Isophase Mods	20	20	31DEC09	28JAN10
BMP5220-10	Proposal Period - Isophase Mods	20	20	10MAR10	06APR10
BMP5220-15	Proposal Evaluation - Isophase Mods	10	10	07APR10	20APR10
BMP5220-20	Award Contract - Isophase Mods	0	0		11MAY10
BMP5220-35	Manuf & Deliver Equipment - Isophase Mods	180	180	07JUN10	11FEB11
BMP5220-25	Review Vendor Drwgs - Isophase Mods	60	60	13AUG10	04NOV10
BMP5220-95	Contract Closeout - Isophase Mods	10	10	07MAY12	18MAY12
Contract 5310 - Power Control Module (PCM)					
BMP5310-05	Specification Preparation - PCM	33	33	07DEC09	22JAN10
BMP5310-10	Proposal Period - PCM	20	20	25JAN10	19FEB10
BMP5310-15	Proposal Evaluation - PCM	20	20	22FEB10	19MAR10
BMP5310-20	Award Contract - PCM	0	0		11MAY10
BMP5310-25	Review Vendor Drwgs - PCM	71	71	01JUN10*	07SEP10
BMP5310-35	Manuf & Deliver Equipment - PCM	190	190	08SEP10	31MAY11
BMP5310-95	Contract Closeout - PCM	10	10	21MAY12	01JUN12
Contract 5320 - Fan Variable Frequency Drives					
BMP5320-05	Specification Preparation - VFD's	20	20	29JAN10	25FEB10
BMP5320-10	Proposal Period - VFD's	20	20	26FEB10	25MAR10
BMP5320-15	Proposal Evaluation - VFD's	20	20	26MAR10	22APR10
BMP5320-20	Award Contract - VFD's	0	0		08JUN10

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East Kentucky Power Cooperative

Cooper Retrofit Air Pollution Project - Unit No. 2

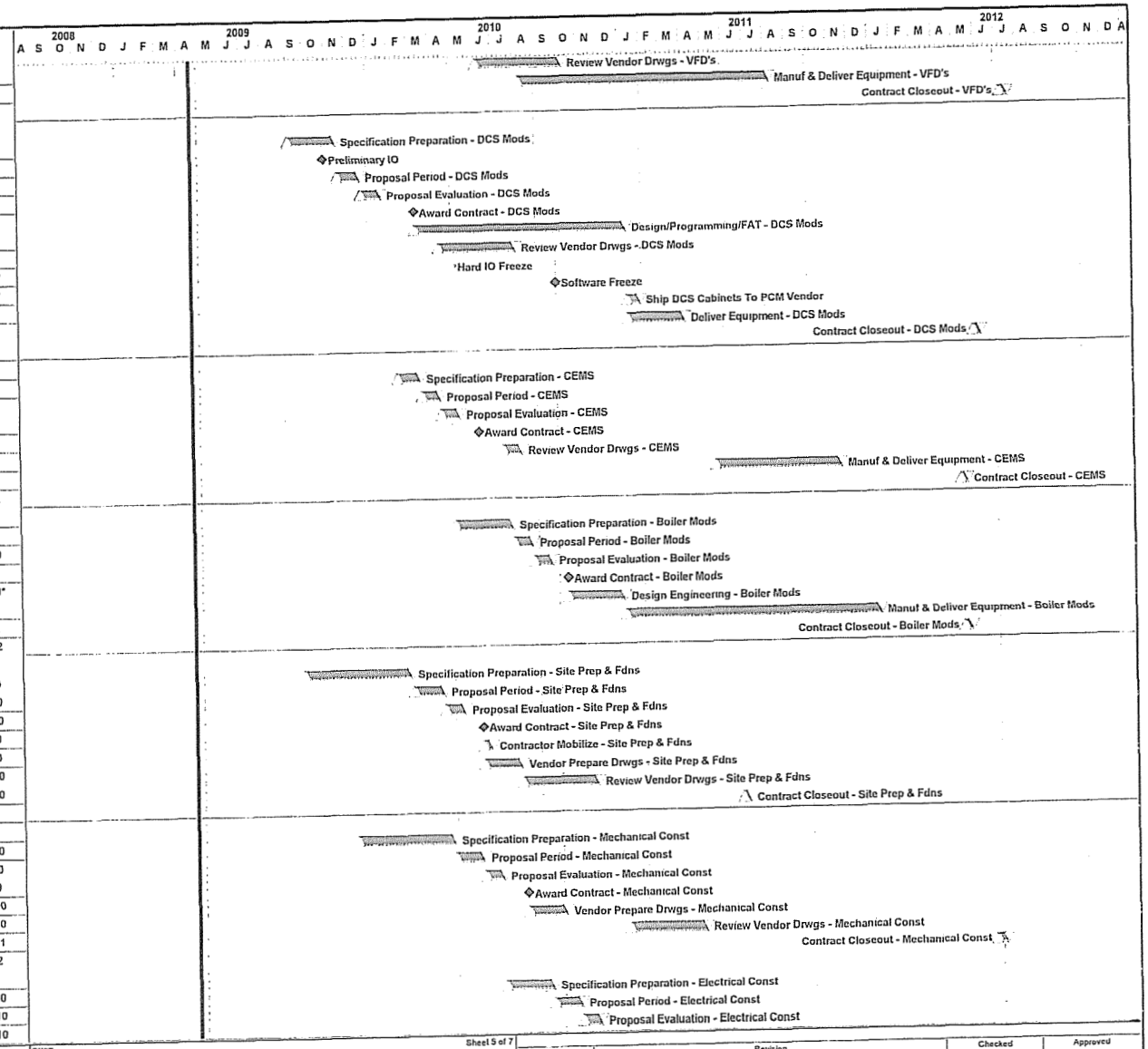
SCHEDULE

11AUG08 Early Bar
30APR13 Progress Bar
20APR09 Critical Activity
30APR09 09:29

Start Date
Finish Date
Data Date
Run Date

EK05

Activity ID	Activity Description	Orig Dur	Rem Dur	Early Start	Early Finish
BMP5320-25	Review Vendor Drwgs - VFD's	90	90	09JUN10	12OCT10
BMP5320-35	Manuf & Deliver Equipment - VFD's	260	260	11AUG10	10AUG11
BMP5320-95	Contract Closeout - VFD's	10	10	09JUL12*	20JUL12
Contract 6110 - DCS Modifications					
BMP6110-05	Specification Preparation - DCS Mods	50	50	09SEP09	17NOV09
BMP6110-07	Preliminary IO	0	0		30OCT09*
BMP6110-10	Proposal Period - DCS Mods	25	25	18NOV09	22DEC09
BMP6110-15	Proposal Evaluation - DCS Mods	20	20	23DEC09	21JAN10
BMP6110-20	Award Contract - DCS Mods	0	0		09MAR10
BMP6110-40	Design/Programming/FAT - DCS Mods	220	220	10MAR10	11JAN11
BMP6110-25	Review Vendor Drwgs - DCS Mods	80	80	14APR10	03AUG10
BMP6110-27	Hard IO Freeze	0	0		03MAY10*
BMP6110-29	Software Freeze	0	0		01OCT10*
BMP6110-45	Ship DCS Cabinets To PCM Vendor	15	15	12JAN11	01FEB11
BMP6110-35	Deliver Equipment - DCS Mods	60	60	12JAN11	05APR11
BMP6110-95	Contract Closeout - DCS Mods	10	10	28MAY12	08JUN12
Contract 6310 - CEM System					
BMP6310-05	Specification Preparation - CEMS	25	25	12FEB10	18MAR10
BMP6310-10	Proposal Period - CEMS	20	20	19MAR10	15APR10
BMP6310-15	Proposal Evaluation - CEMS	20	20	16APR10	13MAY10
BMP6310-20	Award Contract - CEMS	0	0		08JUN10
BMP6310-25	Review Vendor Drwgs - CEMS	20	20	14JUL10	10AUG10
BMP6310-35	Manuf & Deliver Equipment - CEMS	130	130	18MAY11	16NOV11
BMP6310-95	Contract Closeout - CEMS	10	10	07MAY12	18MAY12
Contract 1350 - Boiler Modifications					
BMP1350-05	Specification Preparation - Boiler Mods	60	60	05MAY10	27JUL10
BMP1350-10	Proposal Period - Boiler Mods	20	20	28JUL10	24AUG10
BMP1350-15	Proposal Evaluation - Boiler Mods	20	20	25AUG10	21SEP10
BMP1350-20	Award Contract - Boiler Mods	0	0		12OCT10*
BMP1350-25	Design Engineering - Boiler Mods	60	60	13OCT10	04JAN11
BMP1350-35	Manuf & Deliver Equipment - Boiler Mods	265	265	05JAN11	11JAN12
BMP1350-95	Contract Closeout - Boiler Mods	10	10	10MAY12	23MAY12
Contract 8110 - Site Preparation & Foundations					
BMP8110-05	Specification Preparation - Site Prep & Fdns	110	110	24SEP09	26FEB10
BMP8110-10	Proposal Period - Site Prep & Fdns	33	33	01MAR10	14APR10
BMP8110-15	Proposal Evaluation - Site Prep & Fdns	22	22	15APR10	14MAY10
BMP8110-20	Award Contract - Site Prep & Fdns	0	0		08JUN10
BMC8110-01	Contractor Mobilize - Site Prep & Fdns	10	10	09JUN10	22JUN10
BMP8110-40	Vendor Prepare Drwgs - Site Prep & Fdns	40	40	09JUN10	03AUG10
BMP8110-30	Review Vendor Drwgs - Site Prep & Fdns	80	80	04AUG10	23NOV10
BMC8110-95	Contract Closeout - Site Prep & Fdns	10	10	20JUN11	01JUL11
Contract 8320 - Mechanical Construction					
BMP8320-05	Specification Preparation - Mechanical Const	100	100	07DEC09	27APR10
BMP8320-10	Proposal Period - Mechanical Const	30	30	28APR10	08JUN10
BMP8320-20	Proposal Evaluation - Mechanical Const	20	20	09JUN10	06JUL10
BMP8320-25	Award Contract - Mechanical Const	0	0		10AUG10
BMP8320-40	Vendor Prepare Drwgs - Mechanical Const	40	40	11AUG10	05OCT10
BMP8320-30	Review Vendor Drwgs - Mechanical Const	80	80	05JAN11	26APR11
BMC8320-95	Contract Closeout - Mechanical Const	10	10	21JUN12	05JUL12
Contract 8410 - Electrical Construction					
BMP8410-05	Specification Preparation - Electrical Const	50	50	07JUL10	14SEP10
BMP8410-10	Proposal Period - Electrical Const	30	30	15SEP10	26OCT10
BMP8410-15	Proposal Evaluation - Electrical Const	20	20	27OCT10	23NOV10



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Early Bar
Progress Bar
Critical Activity

EK05

East Kentucky Power Cooperative

Cooper Retrofit Air Pollution Project - Unit No. 2

SCHEDULE

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27OCT08	Issued with draft scoping report	BB	
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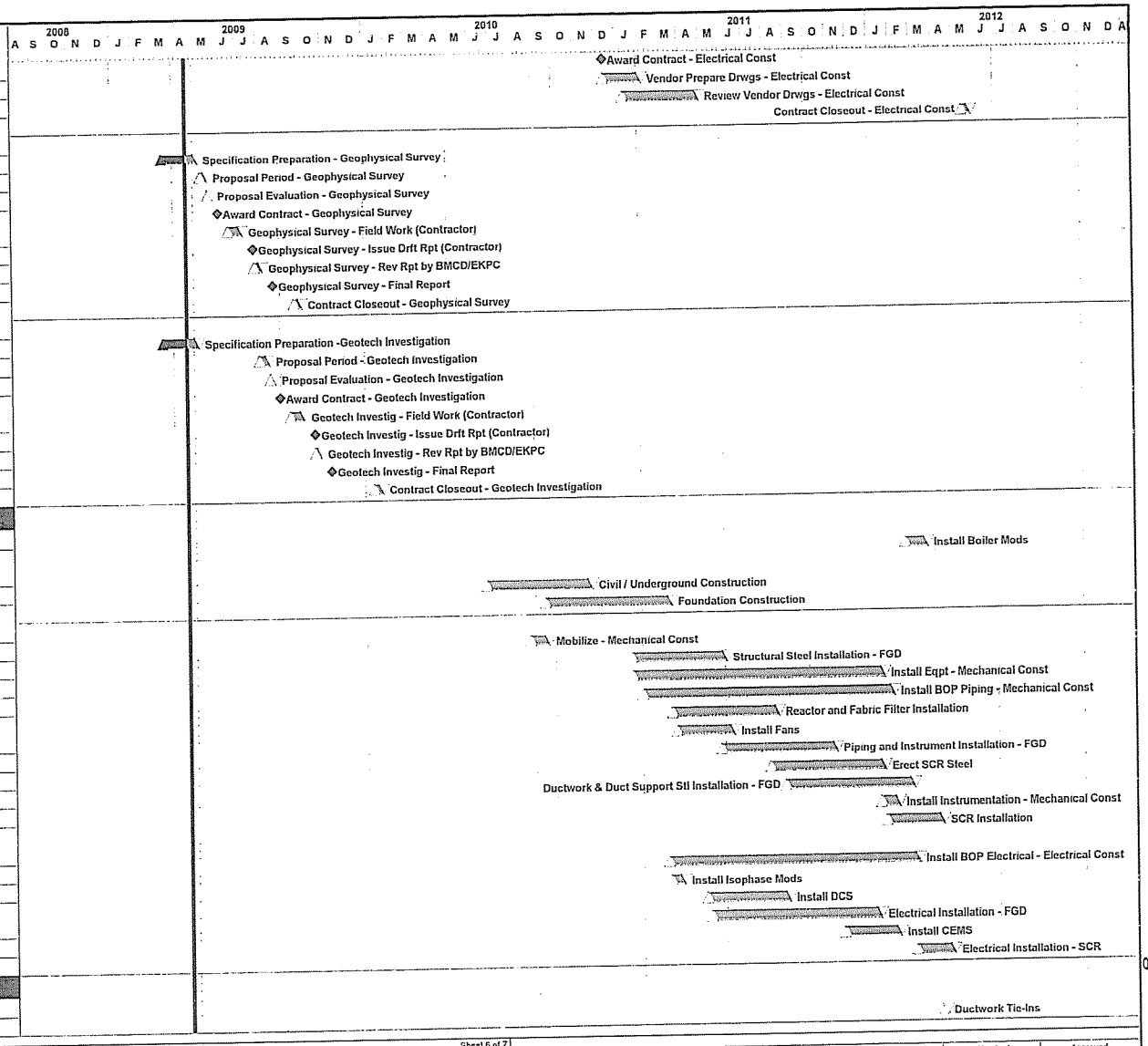
29APR09	Revised / Updated	YKO	

Activity ID	Activity Description	Orig Dur	Rem Dur	Early Start	Early Finish
BMP8410-20	Award Contract - Electrical Const	0	0		14DEC10
BMP8410-40	Vendor Prepare Drwgs - Electrical Const	40	40	15DEC10	08FEB11
BMP8410-30	Review Vendor Drwgs - Electrical Const	80	80	12JAN11	03MAY11
BMC8410-95	Contract Closeout - Electrical Const	10	10	17MAY12	30MAY12
Contract 9050A - Geophysical Survey					
BMP905A-05	Specification Preparation - Geophysical Survey	40	15	16MAR09A	08MAY09
BMP905A-10	Proposal Period - Geophysical Survey	9	9	11MAY09	21MAY09
BMP905A-15	Proposal Evaluation - Geophysical Survey	5	5	22MAY09	28MAY09
BMP905A-20	Award Contract - Geophysical Survey	0	0		04JUN09
BMP905A-25	Geophysical Survey - Field Work (Contractor)	16	16	19JUN09	10JUL09
BMP905A-26	Geophysical Survey - Issue Drft Rpt (Contractor)	0	0		24JUL09
BMP905A-27	Geophysical Survey - Rev Rpt by BMCD/EKPC	10	10	27JUL09	07AUG09
BMP905A-28	Geophysical Survey - Final Report	0	0		21AUG09
BMP905A-95	Contract Closeout - Geophysical Survey	10	10	21SEP09	02OCT09
Contract 9050B - Geotechnical Investigation					
BMP905B-05	Specification Preparation -Geotech Investigation	40	15	16MAR09A	08MAY09
BMP905B-10	Proposal Period - Geotech Investigation	11	11	03AUG09	17AUG09
BMP905B-15	Proposal Evaluation - Geotech Investigation	5	5	18AUG09	24AUG09
BMP905B-20	Award Contract - Geotech Investigation	0	0		31AUG09
BMP905B-25	Geotech Investig - Field Work (Contractor)	16	16	15SEP09	06OCT09
BMP905B-26	Geotech Investig - Issue Drft Rpt (Contractor)	0	0		20OCT09
BMP905B-27	Geotech Investig - Rev Rpt by BMCD/EKPC	8	8	21OCT09	30OCT09
BMP905B-28	Geotech Investig - Final Report	0	0		13NOV09
BMP905B-95	Contract Closeout - Geotech Investigation	10	10	13JAN10	26JAN10
Construction					
Contract 1350 - Boiler Modifications					
BMC1350-40	Install Boiler Mods	35	35	18FEB12	23MAR12
Contract 8110 - Site Preparation & Foundations					
BMC8110-05	Civil / Underground Construction	110	110	23JUN10	23NOV10
BMC8110-10	Foundation Construction	132	132	15SEP10	17MAR11
Contract 8320 - Mechanical Construction					
BMP8320-35	Mobilize - Mechanical Const	20	20	25AUG10	21SEP10
BMC8320-45	Structural Steel Installation - FGD	100	100	17JAN11	03JUN11
BMC8320-05	Install Eqpt - Mechanical Const	260	260	19JAN11	18JAN12
BMC8320-10	Install BOP Piping - Mechanical Const	260	260	02FEB11	01FEB12
BMC8320-50	Reactor and Fabric Filter Installation	110	110	16MAR11	17AUG11
BMC8320-70	Install Fans	60	60	22MAR11	13JUN11
BMC8320-60	Piping and Instrument Installation - FGD	120	120	25MAY11	09NOV11
BMC8320-16	Erect SCR Steel	120	120	04AUG11	16JAN12
BMC8320-65	Ductwork & Duct Support Stl Installation - FGD	135	135	25AUG11	29FEB12
BMC8320-15	Install Instrumentation - Mechanical Const	20	20	12JAN12	08FEB12
BMC8320-17	SCR Installation	60	60	19JAN12	11APR12
Contract 8410 - Electrical Construction					
BMC8410-10	Install BOP Electrical - Electrical Const	260	260	09MAR11	07MAR12
BMC8410-42	Install Isophase Mods	21	21	12MAR11	01APR11
BMC8410-45	Install DCS	85	85	04MAY11	31AUG11
BMC8410-55	Electrical Installation - FGD	176	176	10MAY11	11JAN12
BMC8410-40	Install CEMS	60	60	17NOV11	08FEB12
BMC8410-75	Electrical Installation - SCR	40	40	01MAR12	25APR12
Startup & Testing					
MILESTONES					
0030	Ductwork Tie-Ins	5	5	09APR12*	13APR12



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East Kentucky Power Cooperative

Cooper Retrofit Air Pollution Project - Unit No. 2

SCHEDULE

Date	Revision	Checked	Approved
27OCT08	Issued with draft scoping report	BB	
14JAN09	Revised / Updated	CLB	
29APR09	Revised / Updated	YKO	

Activity ID	Activity Description	Orig Dur	Rem Dur	Early Start	Early Finish
0025	CD Date - FGD System In Service	0	0		30JUN12*
Contract 1310 - CFB Dry FGD System		0	0		30JUN12*
BMC1310-90	Substantial Completion - FGD				
Contract 1330 - Selective Catalytic Reduction		0	0		30JUN12*
BMC1330-90	Substantial Completion - SCR				
Contract 1350 - Boiler Modifications		20	20	24MAR12	12APR12
BMS1350-05	Startup & Commissioning - Boiler Mods				
Contract 8320 - Mechanical Construction		120	120	10NOV11	25APR12
BMS8320-05	Startup & Commissioning - Mechanical Const	0	0		01FEB12
BMC8320-90	Substantial Completion - Mechanical Const				
Contract 8410 - Electrical Construction		120	120	24NOV11	09MAY12
BMS8410-05	SU and Commissioning Support - Electrical Const	0	0		07MAR12
BMC8410-90	Substantial Completion - Electrical Const				
Start Up & Commissioning		5	5	19MAR12*	23MAR12
SUA1020	Start Up & Test PF and FD Fans	10	10	19MAR12*	30MAR12
SUA1040	Start Up Air Heater	5	5	26MAR12	30MAR12
SUA1030	Start Up & Test ID Fans (Air)	3	3	02APR12	04APR12
SUA1050	Precoat Fabric Filter Bags	5	5	05APR12	11APR12
SUA1060	Start Up Lime Prep and Feed System	0	0		13APR12
SUA1070	Gas Path Complete for Operation	0	0	16APR12	
SUC2000	Unit Start Up	5	5	16APR12	20APR12
SUC2010	Air Heater Checkout	5	5	16APR12	20APR12
SUC2050	CEMS Start Up	20	20	16APR12	11MAY12
SUC2020	SCR Start Up	20	20	16APR12	11MAY12
SUC2030	FGD Start Up	20	20	16APR12	11MAY12
SUC2040	Baghouse Checkout				
Testing		7	7	23APR12	01MAY12
SUT3000	CEMS Drift Test	1	1	02MAY12	02MAY12
SUT3010	CEMS High Load RATA	1	1	03MAY12	03MAY12
SUT3020	CEMS Mid & Low RATA	1	1	04MAY12	04MAY12
SUT3030	CEMS High Load PM RATA	1	1	14MAY12	14MAY12
SUT3040	FGD Performance Test A	1	1	14MAY12	14MAY12
SUT3070	SCR Performance Test A	23	23	14MAY12	13JUN12
SUT3050	FGD Performance Test B	23	23	14MAY12	13JUN12
SUT4000	CD Demonstration Period	128	128	14JUN12	11DEC12
SUT3060	FGD Reliability Demonstration	1	1	30OCT12*	30OCT12
SUT3080	SCR Performance Test B (16000hrs / 2yrs)	128	128	31OCT12	30APR13
SUT3090	SCR Reliability Demonstration				

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East Kentucky Power Cooperative
Cooper Retrofit Air Pollution Project - Unit No. 2
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EAST KENTUCKY POWER COOPERATIVE, INC.
PSC CASE NO. 2009-00106
SECOND DATA REQUEST RESPONSE

COMMISSION STAFF'S SECOND DATA REQUEST DATED 07/24/09
REQUEST 3
RESPONSIBLE PERSON: **Julia J. Tucker**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 3. Refer to page 5-11 of the IRP, specifically, the discussion of EKPC's key forecast assumptions.

Request 3a. Appliance efficiency improvements are expected to reduce residential sales by roughly 500,000 MWh over the forecast period. Explain whether a decrease in peak demand is also expected due to these improvements.

Response 3a. A decrease in peak demand is expected due to energy efficiency improvements of appliances. This decrease will be seen gradually over the forecast period as the appliance stock changes from the existing less efficient appliances.

Request 3b. EKPC's forecast load growth reflects normal weather as defined by the National Oceanic and Atmospheric Administration ("NOAA"). Confirm whether this is based on the traditional 30-year "normals" developed by NOAA and identify the specific period on which it is based.

Response 3b. EKPC's normal weather is based on NOAA data for the 20 year period of 1988 through 2007.

EAST KENTUCKY POWER COOPERATIVE, INC.
PSC CASE NO. 2009-00106
SECOND DATA REQUEST RESPONSE

COMMISSION STAFF'S SECOND DATA REQUEST DATED 07/24/09
REQUEST 4
RESPONSIBLE PERSON: **Julia J. Tucker**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 4. Refer to Table 5(4)-1 on page 5-16 of the IRP. Explain why the amount of existing resources is shown decreasing from 3,130 MW in 2009 to 2,720 MW in 2010.

Request 4. The referenced table's column heading is "Existing Resources"; the numbers include resources that were existing as of January 1, 2009 and reflect any changes to those resources. The decrease from 3,130 MW in 2009 to 2,720 MW in 2010 reflects the expiration of seasonal power purchase contracts that were needed to serve load prior to Spurlock 4 becoming operational. Spurlock 4 capacity has not been added to the 2,720 MW total since it was not operational as of January 1, 2009. From 2010 to 2011, there is a decrease of 35 MW in the winter capacity resources, which reflects the Greenup Hydro contract expiration on December 31, 2010. The 10 MW decrease in resources from 2011 to 2012 is the expected impact of adding the air quality control system on Cooper 2.

EAST KENTUCKY POWER COOPERATIVE, INC.
PSC CASE NO. 2009-00106
SECOND DATA REQUEST RESPONSE

COMMISSION STAFF'S SECOND DATA REQUEST DATED 07/24/09
REQUEST 5
RESPONSIBLE PERSON: **Ann F. Wood**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 5. Refer to page 5-19 of the IRP, specifically, the reference to rate design changes EKPC plans over the forecast period. As part of the settlement in Case No. 2008-00409,[2] EKPC agreed not to make the rate design changes it had proposed in its application.

Request 5a. In general, when does EKPC expect to file its next base rate case?

Response 5a. Based on EKPC's twenty-year financial forecast, EKPC expects to file its next base rate case in 2011 to be effective in 2012. Please note that EKPC continues to evaluate its financial condition and will request a rate increase sooner if circumstances warrant. Please also see the response to Request 5b below.

Request 5b. Explain whether EKPC expects to propose rate design changes in its next base rate case similar to those it proposed in Case No. 2008-00409.

Response 5b. In 2010, EKPC intends to conduct a wholesale cost of service study. Subject to the results of this study, EKPC may file a base rate case for the sole purpose of rate design changes. At present, these rate design changes will be along the lines of the Phase II concept in Case No. 2008-00409.

EAST KENTUCKY POWER COOPERATIVE, INC.
PSC CASE NO. 2009-00106
SECOND DATA REQUEST RESPONSE

COMMISSION STAFF'S SECOND DATA REQUEST DATED 07/24/09
REQUEST 6
RESPONSIBLE PERSON: **James C. Lamb, Jr.**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 6. Refer to page 5-19 of the IRP, specifically, the discussion of natural gas prices during 2008. Provide, for calendar year 2008 and the first six months of 2009, EKPC's average monthly price incurred for natural gas purchases.

Response 6. Shown below is EKPC's average monthly price incurred for natural gas purchases for 2008 and for January – June 2009. These prices reflect reported numbers in EKPC's monthly fuel adjustment clause filing and associated reports.

Month and Year	Dollars per MMBtu
January 2008	9.33
February 2008	9.71
March 2008	10.20
April 2008	15.31
May 2008	11.39
June 2008	12.74
July 2008	9.45
August 2008	9.12
September 2008	8.80
October 2008	7.64
November 2008	9.52
December 2008	8.94
January2009	7.79
February 2009	8.10
March 2009	6.97
April 2009	4.15
May 2009	15.70
June 2009	6.98

EAST KENTUCKY POWER COOPERATIVE, INC.
PSC CASE NO. 2009-00106
SECOND DATA REQUEST RESPONSE

COMMISSION STAFF'S SECOND DATA REQUEST DATED 07/24/09
REQUEST 7
RESPONSIBLE PERSON: **John F. Farley**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 7. Refer to page 6-3 of the IRP. Identify the environmental stewards and other parties from whom EKPC received feedback regarding proposed Demand-Side Management ("DSM") measures.

Response 7. EKPC received feedback regarding Demand-Side Management programs from the following environmental stewards and other parties:

Kentucky Environmental Foundation[1]
Kentuckians for the Commonwealth
Sierra Club

University of Kentucky
Other utilities, including LG&E/KU, TVA, and Great River Energy
GoodCents Solutions
Florida Solar Energy Association

[1] In February 2008, the Kentucky Environmental Foundation, Kentuckians for the Commonwealth, and the Sierra Club provided EKPC a set of recommendations and suggestions concerning a portfolio of DSM programs for EKPC in their report titled "A Portfolio of Energy Efficiency and Renewable Energy *Options for East Kentucky* Power Cooperative", February 2008.

EAST KENTUCKY POWER COOPERATIVE, INC.
PSC CASE NO. 2009-00106
SECOND DATA REQUEST RESPONSE

COMMISSION STAFF'S SECOND DATA REQUEST DATED 07/24/09
REQUEST 8
RESPONSIBLE PERSON: **Julia J. Tucker**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 8. Refer to the table on page 7-1 of the IRP. Generally, the most significant impacts of the weakened economy have been experienced in 2008 and 2009. In light of that experience, describe:

Request 8a. What accounts for the loss of 400 commercial customers on the EKPC system from 2005 to 2006; and

Response 8a. The reported loss of commercial customers is due to a data reclassification from the commercial class to the residential class by one of EKPC's member distribution cooperatives, and does not represent an actual loss of customers.

Request 8b. What accounts for the loss of 13, or approximately 10 percent, of the industrial customers on the EKPC system from 2006 to 2007.

Response 8b. The reported loss of industrial customers is due to a data reclassification from the industrial class to the commercial class by one of EKPC's member distribution cooperatives, and does not represent an actual loss of customers.

EAST KENTUCKY POWER COOPERATIVE, INC.
PSC CASE NO. 2009-00106
SECOND DATA REQUEST RESPONSE

COMMISSION STAFF'S SECOND DATA REQUEST DATED 07/24/09
REQUEST 9
RESPONSIBLE PERSON: **Julia J. Tucker**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 9. Refer to page 7-17 of the IRP. For each of the four customer groups listed at the bottom of the page provide the following information:

Request 9a. The number of customers on the EKPC system that fall within each of the groups as of the most recent date for which such information is available; and

Response 9a. 1. Residential customers – 416,309

2. Small Commercial & Industrial – 26,964

3. Medium Commercial & Industrial – 1,292

4. Large Power - 315

Request 9b. An explanation of how the number of load profile meters installed was determined for each customer group.

Response 9b. Ratio estimation is used by EKPC for load research and this technique takes advantage of the correlation of the x and y variables to obtain increased precision. The ratio estimation technique can be applied if the relationship of x and y is approximately linear and passes through the origin. Class demands estimates for rate

classes and other populations with known total energy use (X) are adjusted by the ratio of demand (y) to energy use (x) for the sample. Energy use for the sample and target populations must be for the same time period, usually the monthly billing period or the calendar month in which the demands of interest fall. Ratio estimation using customer demands metered for billing purposes is also an option for certain groups of commercial and industrial customers.

The residential sample design uses ratio-estimation. The sample design interval data is used to create mean kW estimates from the population billing data. The design was based on the 15-minute winter peak kW and provides at least +-10% precision with 90% confidence (90/10) regardless of season.

The small commercial design reflects its mean demand growth and is based on kW measurements instead of kWh.

Medium commercial sample design was created to provide 5% relative accuracy with 95% confidence. Now it is providing 4% relative accuracy with 95% confidence, and 3% relative accuracy with 90% confidence. As a result, its sample sizes were left the same, although they could be decreased without ill effect.

Large power is customers whose peak demands are greater than 350 kW and are census metered to the best of our ability.

The billing kWh data was calendarized prior to performing analysis. Calendarization is the process of re-stating the customer's kWh so that they are based on a monthly calendar basis rather than a billing date to billing date basis.

Monthly kW estimates were also calculated from billing kWh data for non-demand billed commercial accounts by multiplying monthly consumption by the ratio of peak kW to monthly kWh derived for each class and strata from existing MV-90 load research data.

The current sample design sample sizes and their associated levels of confidence and accuracy were based on statistics derived from the population's 2000/2001 winter peak month billing data and from existing load research sample 2001/2002 winter peak interval data. (March 4, 2002 @ 7:15 A.M.)

EAST KENTUCKY POWER COOPERATIVE, INC.
PSC CASE NO. 2009-00106
SECOND DATA REQUEST RESPONSE

COMMISSION STAFF'S SECOND DATA REQUEST DATED 07/24/09
REQUEST 10
RESPONSIBLE PERSON: **Isaac S. Scott**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 10. Refer to page 7-18 of the IRP. Provide the anticipated timetable for the education and training of member cooperative personnel and the eventual rollout of the Real Time Pricing pilot program.

Response 10. While specific dates have not been established, it is anticipated that the education and training of member cooperative personnel for the Real Time Pricing (RTP) pilot program would occur over a six-week to two-month period. EKPC continues to work on the development of the RTP price components, making the secure website operational, and developing procedures for accurate and current RTP price postings. Given the work that remains to be accomplished, including the education and training of the member cooperative personnel, EKPC's target is to rollout the RTP pilot program by January 2010.

EAST KENTUCKY POWER COOPERATIVE, INC.
PSC CASE NO. 2009-00106
SECOND DATA REQUEST RESPONSE

COMMISSION STAFF'S SECOND DATA REQUEST DATED 07/24/09
REQUEST 11
RESPONSIBLE PERSON: **Paul A. Dolloff**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 11. Refer to page 8-3 of the IRP. The section on "Carbon Capture Research" indicates that EKPC is a member of the Carbon Management Research Group ("CMRG") along with the four jurisdictional investor-owned electric utilities ("IOUs"). However, EKPC was not a co-applicant in Case No. 2008-00308[3] in which the Commission authorized the IOUs to establish regulatory assets in which to record and defer the amounts they were contributing to the CMRG. Identify when EKPC became a member of the CMRG and provide the amount of its contribution thereto.

Response 11. EKPC was not an applicant to the petition (2008-00308) since, at the time of filing, dollars had neither been budgeted for 2008 nor approved by the Board for 2009.

EKPC became a member of CAER on January 5, 2009 for the annual membership fee of $200,000. The membership and associated fee will be evaluated by EKPC on an annual basis.

[3] Case No. 2008-00308, Joint Application of Duke Energy Kentucky, Inc., Kentucky Power Company, Kentucky Utilities Company and Louisville Gas and Electric Company for an Order Approving Accounting Practices to Establish Regulatory Assets and Liabilities Related to Certain Payments Made to the Carbon Management Research Group and the Kentucky Consortium for Carbon Storage (Ky. PSC Oct. 30, 2008).

EAST KENTUCKY POWER COOPERATIVE, INC.
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SECOND DATA REQUEST RESPONSE

COMMISSION STAFF'S SECOND DATA REQUEST DATED 07/24/09
REQUEST 12
RESPONSIBLE PERSON: **Paul A. Dolloff**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 12. Refer to page 8-4 of the IRP. Provide a description of the Cooperative Research Network ("CRN"), and state whether EKPC is a member thereof. If so, provide the amount of the membership dues or fees it pays CRN.

Response 12. EKPC and all of its Member Systems are members of the Cooperative Research Network. In 2008, EKPC paid $ 75,275 in CRN dues.

The Cooperative Research Network is a service of the National Rural Electric Cooperative Association, a trade association headquartered in Arlington, Virginia. The mission of the Cooperative Research Network is to monitor, evaluate and apply technologies that help electric cooperative utilities control costs, increase productivity, and enhance service to their consumer–members.

CRN is a benefit of NRECA membership, with its results available to all NRECA voting members. Members access information through this website by entering their Cooperative.com username and password at the sign-on prompt.

CRN meets its mission through collaborative research into a wide range of technologies and services. This research may result in the development of new products and services of particular value to the cooperative industry, often features cooperative-specific demonstrations and deployment of technology, and always includes the transfer of knowledge to its users through on-line and published reports, handbooks, newsletters, web conferences, seminars and other means of disseminating information.

CRN offers:

- Research designed specifically for electric cooperatives
- Intelligence on technology innovations affecting the utility industry
- New member service and revenue generation opportunities
- Creative technical and management approaches to cost control
- New products and services developed for co-op delivery
- Opportunity to invest research dollars in areas critical to success

The key decisions on research project selection and funding, as well as policies related to the funding of the program, are guided by NRECA member input and direction obtained through the CRN Advisory structure. An advisory task force, consisting of CRN members, is assigned to oversee research efforts in the following six areas:

1. Energy Innovations
2. Information Management and Telecommunications
3. Distribution Operations Best Practices
4. Renewable and Distributed Energy
5. Transmission and Substation Assets
6. Generation, Fuels, and Environment

EAST KENTUCKY POWER COOPERATIVE, INC.
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SECOND DATA REQUEST RESPONSE

COMMISSION STAFF'S SECOND DATA REQUEST DATED 07/24/09
REQUEST 13
RESPONSIBLE PERSON: **George S. Carruba**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 13. Refer to page 8-5 of the IRP. Provide the Southeast Electric Reliability Corporation's report on its recent audit of EKPC's compliance with the reliability standards of the North American Reliability Corporation.

Response 13. EKPC has not yet received the Southeast Electric Reliability Corporation's final audit report on EKPC's compliance with the reliability standards of the North American Reliability Corporation.

EAST KENTUCKY POWER COOPERATIVE, INC.
PSC CASE NO. 2009-00106
SECOND DATA REQUEST RESPONSE

COMMISSION STAFF'S SECOND DATA REQUEST DATED 07/24/09
REQUEST 14
RESPONSIBLE PERSON: **James C. Lamb, Jr.**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 14. Refer to page 8-13 of the IRP. Provide a description of the National Renewables Cooperative Organization ("NRCO"), and state whether EKPC is a member thereof. If so, provide the amount of the membership dues or fees it pays NRCO.

Response 14. Please see the NRCO website at www.nrco.coop

What is the National Renewables Cooperative Organization?
In the tradition of working together, cooperatives across the country have formed the National Renewables Cooperative Organization (NRCO) to promote and facilitate the development of renewable energy resources for members.

Who is eligible to join?
Membership in the NRCO is open to generation and transmission cooperatives (G&T's) and distribution cooperatives with the legal ability to buy power in the wholesale market.

How is the NRCO supported?
The NRCO receives financial support from its members: each participant must commit $100,000, with an upfront investment of $25,000.

How many cooperatives belong to NRCO?
As of May 22, the NRCO had 24 members serving 24 members in 20 states. Of these members, four are unaffiliated distribution cooperatives.

How is the NRCO administered?
The NRCO has been incorporated as a 501(c)(12), a not-for-profit cooperative, and will be

governed by its members. The Board, elected in April 2008, is comprised of cooperative executives.

The NRCO will engage an energy management company. The National Rural Electric Cooperative Association and the Cooperative Research Network will provide assistance in communications and research.

What will the NRCO do?
The NRCO will allow cooperatives to pool their expertise, so that the knowledge base of cooperatives with experience in developing renewable energy will be available to all. At the outset, the NRCO will serve in a consulting capacity, evaluating renewable resource opportunities, facilitating participation in renewable energy projects and assist in creating optimal arrangements for its members.

The NRCO will also assist cooperatives in the on-going management of renewable resources.

Specific NRCO functions include:

- Serving as a clearinghouse for renewable resource development opportunities available to cooperatives
- Packaging development opportunities for evaluation by members
- Aggregating renewable energy request for proposals (RFPs) for members

EKPC is a member and owner of NRCO, and is on the Board of Directors. Fees for 2009 are $76,433.

EAST KENTUCKY POWER COOPERATIVE, INC.
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COMMISSION STAFF'S SECOND DATA REQUEST DATED 07/24/09
REQUEST 15
RESPONSIBLE PERSON: **Julia J. Tucker**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 15. Refer to page 8-14 of the IRP where Table 8(2)(c)-1 identifies the resource alternatives included in the optimization model for this IRP. The paragraph immediately following the table lists other resources that, apparently, were not included in the optimization model. Explain why supercritical pulverized coal units, hydropower, wind power and landfill gas projects were not included in the optimization model.

Response 15. Supercritical pulverized coal units typically are large (750 MW) units, which are too big for the EKPC system by itself. Such a unit would require EKPC be in a partnership with one or more other entities to obtain the benefit of such a unit. EKPC is not opposed to partnering with others in such a unit, and has, in fact, evaluated such proposals in the past. However, at this time, EKPC is not aware of a partnering opportunity that would meet its needs so this specific unit was not evaluated in this IRP. Once EKPC determines it needs to begin the procurement process for its next baseload supply source, then an RFP for capacity will be issued. EKPC would expect to solicit proposals from the developer(s) of any supercritical pulverized coal units that are available for purchase at that time and perform a very detailed analysis of that technology as compared to other available alternatives.

Similar to the above discussion, EKPC is not aware of any viable hydro projects that are available to be developed or to purchase output from. EKPC currently purchases the output of the Greenup Hydro unit and SEPA power projects. EKPC would willingly entertain the evaluation of a viable hydro project if one were brought forward. In the past, EKPC evaluated hydro in its IRP analysis because there were projects that were available for development and the developers provided proposals to EKPC.

EKPC evaluated wind power in its evaluation of the proposals received in response to the RFP that was issued for Renewable Power in April 2008. These proposals continue to be evaluated and negotiated, so no report has been written on the details of this evaluation at this time. No new legislation or environmental rules were assumed in the 2009 IRP analysis, and without such requirements, the renewables analysis indicated that wind is not an economic choice for EKPC members. EKPC continues to monitor renewable requirements and will update its analysis if the requirements materialize.

Landfill gas projects are very site specific. EKPC has six projects on-line and will continue to actively pursue additional projects. These projects tend to be small, 1.5 to 3.5 MW, and are hard to evaluate when considering 3,000 MW of total system capacity. EKPC will continue evaluating and justifying these projects on a site specific basis. The absence of them from the optimization is in no way an indication that EKPC does not intend to pursue continued development of these projects.

EAST KENTUCKY POWER COOPERATIVE, INC.
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COMMISSION STAFF'S SECOND DATA REQUEST DATED 07/24/09
REQUEST 16
RESPONSIBLE PERSON: **James C. Lamb, Jr.**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 16. Refer to page 8-16 of the IRP, specifically, the discussion of the project to study the use of switchgrass as fuel in EKPC's power plants. The text refers to the December 2008 mix of 70 tons of switchgrass into the coal feedstock of the Gilbert Unit ("Gilbert") and that the proposed Smith Unit 1 is also planned to feature the same technology as Gilbert. Clarify whether Spurlock 4, which became commercial in the spring of 2009, also features that same technology.

Response 16. As noted in the IRP, page 8-16, both circulating fluidized bed units at Spurlock Power Station feature the same technology which may allow the economical use of switchgrass. The two units are the Gilbert Unit and Spurlock 4.

EAST KENTUCKY POWER COOPERATIVE, INC.
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SECOND DATA REQUEST RESPONSE

COMMISSION STAFF'S SECOND DATA REQUEST DATED 07/24/09
REQUEST 17
RESPONSIBLE PERSON: **John F. Farley**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 17. Refer to pages DSM-8 through DSM-10 in the DSM Technical Appendix. Provide the individual qualitative screening results of each of the DSM measures listed.

Response 17. The tables on pages 2 through 4 of this response provide the individual qualitative screening results of each of the DSM measures listed.

Complete List of DSM Measures & Results of Qualitative Screen
Measures that passed the Qualitative Screen are IN BOLD

Residential

		Customer Acceptance	Measure Applicability	Savings Potential	Cost Effectiveness		Total Score
1	**Residential Efficient Lighting**	4.0	4.5	4.0	4.2		**16.7**
2	**Direct Load Control - air conditioners & water heaters**	3.8	4.8	4.8	4.2		**17.7**
3	**Programmable thermostats with electric furnace heat**	4.2	4.3	4.2	4.4		**17.0**
4	**ENERGY STAR Refrigerator**	5.0	5.0	4.0	3.0		**17.0**
5	**ENERGY STAR Room Air Conditioner**	5.0	5.0	3.0	3.0		**16.0**
6	**ENERGY STAR Clothes Washers**	4.0	5.0	3.0	4.0		**16.0**
7	Cold climate heat pump	2.5	3.5	3.5	4.5		14.0
8	**Heat retrofit/ early replace: resistance to heat pump**	3.3	3.5	4.3	4.7		**15.8**
9	Inefficient heat pump to geothermal early replacement	1.8	3.0	3.8	3.5		12.2
10	SEER 10 heat pump to SEER 15 early replacement	2.8	3.2	3.3	3.2		12.5
11	Ductless mini-split heat pump	2.7	3.0	3.7	3.7		13.0
12	*Inefficient Central Air Conditioner to SEER 15*	2.7	3.0	3.7	3.3		12.7
13	High efficiency furnace fan motors	3.0	3.3	3.0	3.3		12.5
14	**Low income weatherization**	4.7	4.3	4.3	4.2		**17.5**
15	**Enhanced Button-Up (air sealing)**	3.8	4.3	3.8	3.8		**15.8**
16	**Enhanced Tune-Up (duct sealing)**	4.2	4.3	4.5	4.5		**17.5**
17	**Enhanced Touchstone Home (thermal sealing/bypass)**	3.7	4.0	4.3	4.3		**16.3**
18	Ceiling Fans	3.5	2.8	2.8	3.3		12.3
19	Multi-family program	5.0	3.0	4.0	3.0		15.0
20	**Mobile home retrofit program**	3.0	3.8	4.3	4.2		**15.3**
21	Polarized Refrigerant oxidant agent	3.5	2.5	3.0	2.5		11.5
22	**ENERGY STAR Central Air Conditioner**	4.2	3.8	3.8	3.8		**15.7**
23	Low flow showerhead with faucet aerator/pipe insulation	3.0	3.0	3.3	3.8		13.2
24	Heat pump water heater	3.0	3.8	4.0	3.8		14.5
25	Instantaneous water heater	3.2	2.4	2.2	2.2		10.0
26	Solar water heater	2.2	3.2	2.8	2.2		10.3
27	Room AC exchange & recycle program	2.8	3.0	2.7	2.7		11.2
28	ENERGY STAR Dishwashers	4.0	3.7	3.0	3.0		13.7
29	Refrigerator/Freezer Recycling	3.5	2.7	3.0	3.0		12.2
30	Remove old second refrigerators	3.0	2.8	3.7	3.3		12.8
31	Removed old second freezers	3.0	2.8	3.7	3.5		13.0
32	ENERGY STAR Freezers	3.8	3.5	3.8	3.5		14.7
33	ENERGY STAR Home electronics	3.5	3.5	3.5	3.3		13.8
34	ENERGY STAR Windows	3.3	3.2	3.0	2.5		12.0
35	ENERGY STAR Dehumidifiers	3.3	3.3	3.0	3.3		12.8
36	Heat pump dryer	2.8	3.0	3.3	2.8		11.8
37	Efficient pool pump	3.5	3.3	3.0	3.3		13.0
38	Well water pump	3.3	3.0	3.0	3.0		12.3
39	High efficiency outdoor lighting	3.0	3.2	2.8	2.8		11.8
40	LED lighting	3.3	3.7	4.0	3.2		14.2
41	**Direct load control - pool pump**	3.8	4.3	4.0	4.0		**16.0**
42	**Time of use rates**	2.8	4.3	4.2	4.5		**15.8**
43	Inclining block rates	2.0	3.7	4.0	5.0		14.7
44	Passive Solar (new construction)	3.8	3.0	3.0	3.4		13.2
45	Photovoltaics (customer sited)	2.7	2.7	2.8	1.8		10.0
46	Wind turbine (customer sited)	2.0	2.8	1.8	1.7		8.3

Commercial

		Customer Acceptance	Measure Applicability	Savings Potential	Cost Effectiveness		Total Score
1	**Commercial HVAC**	3.8	4.0	4.3	4.0		**16.0**
2	**Demand Response**	2.8	4.5	4.5	5.0		**16.8**
3	**Commercial Building Performance**	3.5	4.0	4.5	4.0		**16.0**
4	**Commercial New Construction**	3.7	4.7	4.7	4.7		**17.7**
5	**Efficient refrigeration equipment**	4.0	4.5	4.5	4.5		**17.5**
6	**Small C&I audit program**	4.5	4.8	4.3	3.5		**17.0**
7	Building operator certification program	3.5	4.0	3.5	4.0		15.0
8	**Geothermal heat pump**	3.3	4.3	4.8	4.5		**16.8**
9	Evaporative cooling	3.0	3.0	4.5	4.0		14.5
10	Advanced ventilation	3.3	3.7	4.3	3.3		14.7
11	High efficiency HVAC motors	3.0	3.0	3.3	3.3		12.7
12	**Early replacement inefficient unitary/split system HVAC**	4.3	4.3	3.3	3.0		**15.0**
13	Cool roof program	2.7	3.0	4.3	4.3		14.3
14	High performance glazings	3.0	3.0	4.0	4.0		14.0
15	**Duct sealing**	4.3	4.3	4.8	4.0		**17.3**
16	Thermal energy storage	2.7	3.0	4.3	3.3		13.3
17	Heat pump water heaters	2.5	3.0	3.5	3.5		12.5
18	Drain heat recovery water heaters	3.5	3.0	3.5	4.0		14.0
19	**LED exit signs**	4.3	4.5	4.5	4.5		**17.8**
20	**Advanced lighting program**	4.3	4.3	4.8	4.8		**18.0**
21	Efficient cooking equipment	2.7	4.0	3.0	3.3		13.0
22	Efficient clothes washers	3.7	4.0	3.7	3.3		14.7
23	**ENERGY STAR Vending machines**	4.3	4.3	4.3	4.0		**17.0**
24	Energy Management Systems	3.5	3.5	4.0	4.0		15.0
25	DLC of irrigation pumps	2.5	3.0	3.0	3.5		12.0
26	**DLC of central air conditioners**	3.0	4.7	4.7	4.7		**17.0**
27	**Energy efficient schools**	4.3	4.7	4.0	4.3		**17.3**
28	Farms program: fans, pumps, irrigation	3.5	4.0	3.5	4.0		15.0
29	Time of use rates	2.5	3.5	3.5	4.0		13.5
30	Combined heat & power	3.0	3.0	4.0	4.0		14.0
31	Stand-by generation program	3.5	3.0	4.0	3.0		13.5
32	Daylighting	3.0	3.0	3.0	4.0		13.0
33	Solar hot water	3.5	3.5	3.0	3.0		13.0
34	Photovoltaics	2.5	3.0	3.0	3.0		11.5
35	Wind turbine	2.5	3.0	3.0	3.0		11.5

Industrial/Other

		Customer Acceptance	Measure Applicability	Savings Potential	Cost Effectiveness		Total Score
1	**Motors**	3.6	4.5	4.3	4.4		**16.8**
2	**Variable speed drives**	3.5	4.3	4.3	4.3		**16.3**
3	**Demand Response**	2.8	4.3	4.3	4.3		**15.5**
4	**Compressed air**	3.5	4.0	4.0	4.3		**15.8**
5	Industrial process	2.5	3.0	3.5	4.0		13.0
6	Process cooling	3.7	3.3	3.7	4.3		15.0
7	Refrigerated Warehouse	4.0	3.3	3.7	4.0		15.0
8	High efficiency transformers	3.0	4.0	3.0	3.0		13.0
9	Automotive and transportation sector equipment	4.0	3.5	3.5	3.5		14.5
10	Livestock, equine, poultry and meat processing sector	3.5	3.5	3.5	3.5		14.0
11	Chemicals sector	4.0	4.0	3.0	3.0		14.0
12	Machinery/machine tools sector	4.0	3.0	3.0	3.0		13.0
13	Aluminum sector	4.0	3.0	3.0	3.0		13.0
14	Plastics sector	4.0	3.0	3.0	3.0		13.0
15	Computer and electronics sector	4.0	3.0	3.0	3.0		13.0
16	Combined heat and power	4.0	3.0	4.0	3.0		14.0
17	Other onsite generation (conventional)	3.0	3.0	3.0	3.0		12.0
18	Photovoltaics	2.5	3.0	3.0	2.0		10.5
19	Wind turbine	2.5	3.0	3.0	3.0		11.5
20	LED Traffic signals	4.5	2.5	4.0	4.0		15.0
21	**Water/Wastewater Treatment facilities**	4.0	4.0	3.5	4.0		**15.5**
22	Conservation Voltage Reduction	3.0	3.0	3.0	4.0		13.0

EAST KENTUCKY POWER COOPERATIVE, INC.
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SECOND DATA REQUEST RESPONSE

COMMISSION STAFF'S SECOND DATA REQUEST DATED 07/24/09
REQUEST 18
RESPONSIBLE PERSON: **John F. Farley**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 18. Refer to pages DSM-5 and DSM-10 in the DSM Technical Appendix of the IRP, specifically, EKPC's qualitative screening criteria.

Request 18a. Explain whether the criteria were developed by EKPC independent of any reliance on similar criteria developed by other utilities, energy service providers, DSM specialists, etc.

Response 18a. The qualitative screening criteria were originally developed for use in the 2006 EKPC IRP. At that time, EKPC did review similar criteria used by other utilities.

Request 18b. Describe how EKPC determined that 15 out of a possible 20 was the score required in order for a measure to pass the qualitative screening.

Response 18b. The cutoff score is a matter of judgment. EKPC decided that a measure should be scoring better than mediocre (all 3s), and that (A) three 4s and one 3, or (B) one 5, one 4, and two 3s were examples of minimum scores below which a measure should not pass qualitative screening.

Request 18c. Identify the individuals at EKPC who conduct the qualitative screening, provide the relevant portions of their backgrounds that make them qualified to conduct the screening, and provide a general description of the steps and/or procedures that constitute the qualitative screening process.

Response 18c. Many individuals participated in the qualitative screening of the programs. John Farley, the primary consultant working with EKPC on these analyses, completed a screening form. Mr. Farley has 25 years of experience in the planning, design, implementation, and evaluation of DSM programs. In addition to the consultant, EKPC experts participated in the screening, including: Senior Vice President of Power Supply, Director of Power Supply Planning, Member Services Manager, Resource Planning Manager, Manager and Senior Engineer of Envision Services (a group that specializes in commercial and industrial load usage), and the Energy Advisors at EKPC as well as different member systems' Energy Advisors. All of these individuals have the knowledge and experience to provide input concerning these programs.

There is a general description of the steps/procedures that constitute the qualitative screening process in the DSM Technical Appendix. The steps are:

1. Develop a comprehensive list of DSM measures to consider.
2. Develop the criteria to screen the DSM measures.
3. Provide the list of measures, and the criteria, to the professionals who score the measures according to the criteria.
4. Tally the results and provide final scores for each measure.
5. Screen the measures based on a cutoff score.

EAST KENTUCKY POWER COOPERATIVE, INC.
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COMMISSION STAFF'S SECOND DATA REQUEST DATED 07/24/09
REQUEST 19
RESPONSIBLE PERSON: **John F. Farley**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 19. Refer to pages 1 of 26 through 26 of 26 of Exhibit DSM-3. For each new DSM program, provide a detailed explanation of how the projected participation levels were determined.

Response 19. The projected participation level targets for each new DSM program are presented on each page of exhibit DSM-3 under column heading 'Source'. The targets are based on consultant's expertise in industry data to determine the share of the available market, and that is combined with the estimated size of the market.

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COMMISSION STAFF'S SECOND DATA REQUEST DATED 07/24/09
REQUEST 20
RESPONSIBLE PERSON: **John F. Farley**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 20. Refer to pages 1 of 23 through 9 of 23 in Exhibit DSM-7. Explain why the number of participants and the energy and demand impacts of all the existing DSM programs are reflected at levels that remain fixed for the entire 15-year forecast period ending in 2024.

Response 20. The reason why the number of participants and the load impacts of all the existing DSM programs show fixed levels in this Exhibit is because the impacts of these programs are embedded in the load forecast. Since there are no incremental load impacts projected as incremental DSM in the resource plan, these levels are presented as remaining fixed for the forecast period.

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COMMISSION STAFF'S SECOND DATA REQUEST DATED 07/24/09
REQUEST 21
RESPONSIBLE PERSON: **John F. Farley**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 21. Refer to pages 12 of 23 through 23 of 23 of Exhibit DSM-7. Explain why, for several of the new DSM programs, the number of participants and/or the energy and demand impacts reach a plateau within a few years and either remain at that level or decline over the remainder of the 15-year forecast period. Provide individual responses addressing each of the new programs.

Response 21. The general answer is the relationship between the program implementation period and the lifetime of the measure savings. The program implementation period refers to the number of years that the program is adding new participants. The lifetime of the measure savings refers to the number of years that the measure savings for any one participant persist. Programs with short implementation periods will see a leveling off sooner than programs with longer implementation periods. Programs with short savings lifetimes and short implementation periods will see a decline in the latter years of the forecast period.

The individual program implementation periods (new participants) and measure savings lifetimes appear in Table 8.(3) (e)(2) – 2 on page 8-20 of the IRP.

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COMMISSION STAFF'S SECOND DATA REQUEST DATED 07/24/09
REQUEST 22
RESPONSIBLE PERSON: **Julia J. Tucker**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 22. Refer to the Load Forecast Technical Appendix, Table 1-4, page 9.

Request 22a. Define Office Use (MWh) shown in column 3.

Response 22a. 'Office Use' refers to the sum of the energy used for the member system buildings if served by EKPC.

Request 22b. Define % Loss in column 4 and explain how it is calculated.

Response 22b. The % Loss column represents the total distribution losses of the member systems. The calculation is as follows:

$\sum$ EKPC Sales to Members (Column 5)	**minus**	$\sum$ Member System Total Retail Sales (Column 2)	**minus**	$\sum$ Office Use (Column 3)

divided by

($\sum$ EKPC Sales to Members (Column 5)) **multiplied by** 100.

Request 22c. Explain how EKPC Sales to Members in column 5 is calculated.

Response 22c. EKPC Sales to Members is not calculated. It is taken from member distribution cooperatives' RUS Form 7, Part O, Power Requirements Database, line 15.

Request 22d. Summing columns 5 and 6 and adding in the transmission losses percentage in column 7 does not equal the amount for Total System Requirements in column 8. Explain how Total System Requirements is calculated.

Response 22d. The Total System Requirements for history is not calculated. It is reported on RUS Form 12. If calculating this based on the losses shown in the table, there are rounding issues resulting in the difference. In 2005, for example, the calculated loss value is 3.798% instead of the 3.8%. This results in a 169 MWh variance. For the forecast, total requirements are developed using a software modeling package, MetrixLT. An assumption about future transmission loss based on the historical trend and internal input with regard to system upgrades is applied. After making adjustments for distribution office use and EKPC office use, the resulting total requirements is different by 0.1%.

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COMMISSION STAFF'S SECOND DATA REQUEST DATED 07/24/09
REQUEST 23
RESPONSIBLE PERSON: **Julia J. Tucker**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 23. Refer to the Load Forecast Technical Appendix, Section 3.0, at page 19. Over the forecast period, explain whether all new households with electric heat are assumed to install the most efficient HVAC equipment and whether this efficiency improvement is included in the estimated 500,000 MWh decrease in residential sales.

Response 23. Yes. The forecast assumes new households will install HVAC and household appliances that meet the DOE Efficiency standards for any given year. The forecast reflects improvements in these efficiencies throughout the forecast period as estimated by the Energy Information Administration (EIA). These are reflected in the 500,000 MWh decrease.

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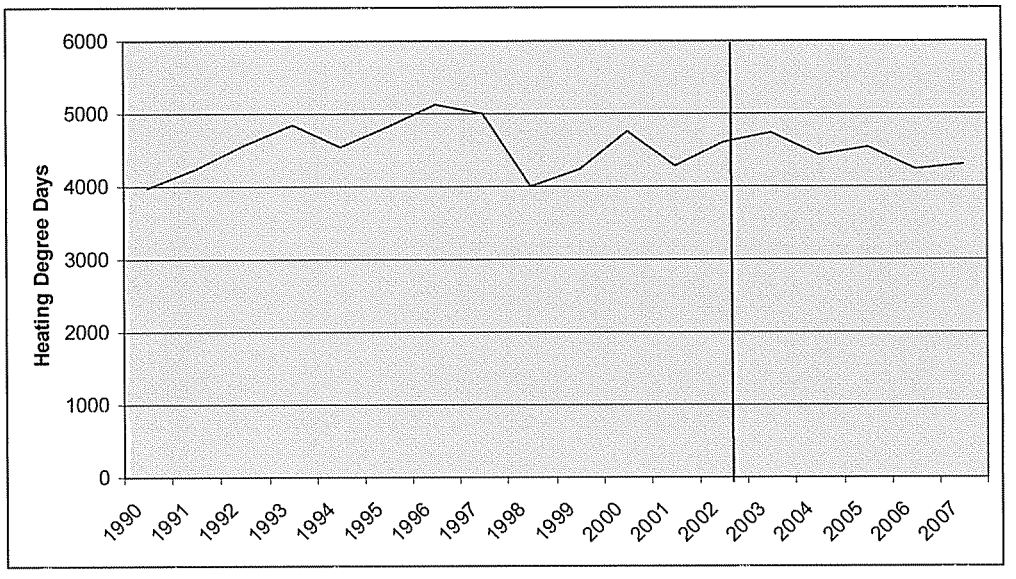
COMMISSION STAFF'S SECOND DATA REQUEST DATED 07/24/09
REQUEST 24
RESPONSIBLE PERSON: **Julia J. Tucker**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 24. Refer to the Load Forecast Technical Appendix, Section 3, Figure 3-5 on page 23. The annual system load factor appears to be much less variable from 2003 - 2007 than in previous years. Provide an explanation for the apparent decrease in load factor variability.

Response 24. The overall winter seasons for the years 2003 to 2007 have been mild. Since the winters have been milder than the previous 10 years, and given EKPC is a winter peaker, the load factor has not been as variable for the last 5 years.

Year	Heating Degree Days
1990	3973
1991	4245
1992	4556
1993	4855
1994	4553
1995	4833
1996	5135
1997	5001
1998	4006
1999	4246
2000	4757
2001	4288
2002	4602
2003	4736
2004	4441
2005	4547
2006	4248
2007	4303



1990 to 2007 Standard Deviation = 328
2003 to 2007 Standard Deviation = 196

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COMMISSION STAFF'S SECOND DATA REQUEST DATED 07/24/09
REQUEST 25
RESPONSIBLE PERSON: **Julia J. Tucker**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 25. Refer to the Load Forecast Technical Appendix, Section 3.0 and the IRP Section 7(2)(g) at page 7-4 and Section 8(3)(e) at pages 8-17 through 8-43. Aside from the direct load control program's winter and summer peak reductions referenced on page 28 in the Technical Appendix, there is no discussion of how DSM programs have been included in either the Total System Requirements or peak Demand Forecasts or how the programs may affect the forecasts. Provide a detailed explanation of how the results of EKPC's DSM programs have been modeled and included in the total system requirements and peak demand forecasts at each stage of the forecasting process.

Response 25. The total requirements reported in the Load Forecast Technical Appendix represent the collective load needed by the EKPC system in order to supply distribution cooperative customers. Existing DSM programs and the impacts listed on pages 8-21 through 8-31 of the IRP document have been occurring for many years. The impacts of these are in load history and are assumed to continue at the same trend as history. Of these, the DLC program is the most recent offering and is very expansive in its scope. A formal implementation plan is in place. All member systems are participating and have goals for participation for the implementation period, the next 5 years. Therefore, the DLC program is treated as an existing program and the impacts are

reflected in the Total Requirements reported in the Load Forecast. New programs listed on pages 8-32 through 8-43 of the IRP document are in the initial phases of planning for implementation. Cost benefit analyses of these programs show there is a savings to EKPC to put these programs in place and avoid building generation. Therefore, these are included in the production modeling and are considered a power supply option. Load impacts are reflected in this modeling and are shown on page 5-8 of the IRP document.

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COMMISSION STAFF'S SECOND DATA REQUEST DATED 07/24/09
REQUEST 26
RESPONSIBLE PERSON: **Julia J. Tucker**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 26. Refer to the Load Forecast Technical Appendix, Sections 4.0 and 5.0. It does not appear that greenhouse gas emission (GHG) constraints have been included in any of the forecasts.

Request 26a. Explain how GHG constraints have been included in any of the base case forecasts.

Response 26a. GHG constraints have not been added in any of the base case forecasts.

Request 26b. Provide a general discussion of the sensitivity of the regional economic model results to an increase in the price of electricity that might occur if GHG constraints were to be implemented.

Response 26b. If GHG constraints are implemented, as proposed in the current Waxman-Markey legislation, the EKPC member consumers could see a 10-15% increase in their electric prices. Such an increase will tend to reduce member consumer consumption and will deter member cooperatives from being able to attract new business into their regions.

Request 26c. Provide a specific discussion of the sensitivity of commercial and industrial customers as employers in the region to increases in the price of electricity.

Response 26c. Kentucky's economic development has historically focused on the manufacturing industry. As a consequence, the state has a relatively high number of manufacturing companies in the state and EKPC member systems serve several manufacturing plants. As the price of electricity increases, holding everything else constant, the relative competitiveness of Kentucky manufacturing declines, and employment will tend to decline.

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COMMISSION STAFF'S SECOND DATA REQUEST DATED 07/24/09
REQUEST 27
RESPONSIBLE PERSON: **Julia J. Tucker**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 27. Refer to the Load Forecast Technical Appendix, Section 8.0, and the IRP at pages 7-11 and 7-12. It does not appear that GHG constraints have been included in any of the peak demand or scenario forecasts.

Request 27a. Explain how GHG constraints have been included or, if not, could be included in any of these forecasts or analyzed separately in another scenario.

Response 27a. GHG constraints have not been included in the load forecast scenarios. The GHG constraints or costs have been modeled in the production costing analysis portion of the IRP. The load forecast would only reflect the GHG constraints via increased costs to member consumers as an input into developing the load forecast. That step has not been completed at this time.

Request 27b. Provide a discussion of the sensitivity of the peak demand forecasts and the scenario forecasts to an increase in the price of electricity due to GHG constraints.

Response 27b. Peak demand and energy are positively correlated. In general, as electricity prices increase, consumption decreases, resulting in lower energy use as well as lower peak demands.

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COMMISSION STAFF'S SECOND DATA REQUEST DATED 07/24/09
REQUEST 28
RESPONSIBLE PERSON: **Julia J. Tucker**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 28. Refer to the Load Forecast Technical Appendix, Section 8.3, pages 76-77 and page 7-12 of the IRP. Clarify whether Case 2 should refer to "mild weather" and "lower loads."

Response 28. Page 77, Case 2 should read 'Most probable economic assumptions with mild weather causing lower loads'.

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COMMISSION STAFF'S SECOND DATA REQUEST DATED 07/24/09
REQUEST 29
RESPONSIBLE PERSON: **Julia J. Tucker**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 29. Explain how EKPC has factored current and future technology improvements into its long-term plan to provide electric service more economically, efficiently and reliably, with better environmental performance.

Response 29. EKPC is the only utility in the state of Kentucky that utilizes the Circulating Fluidized Bed Boiler technology for coal burning plants. EKPC has two such units in operation at Spurlock Station near Maysville, KY. Those plants meet and/or exceed Maximum Achievable Control Technology ("MACT") standards today, ahead of when it would be required. EKPC has installed FGD, or scrubber, technology, as well as Wet Electrostatic Precipitators ("WESP"), at both Spurlock Units 1 and 2. The addition of these technologies has significantly improved the environmental performance of these units. They are able to meet the strictest environmental compliance requirements. Spurlock Station houses over 70% of EKPC's coal fired generation. An air quality control system will be added to the Cooper 2 generating unit in 2012, also increasing its environmental compliance capabilities. Additionally, EKPC is currently adding two General Electric LMS100 combustion turbines at the Smith site. These units are highly efficient gas turbines utilizing state of the art technology.

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COMMISSION STAFF'S SECOND DATA REQUEST DATED 07/24/09
REQUEST 30
RESPONSIBLE PERSON: **James C. Lamb, Jr.**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 30. Describe EKPC's efforts to establish a fuel mix diversification policy.

Response 30. EKPC currently has a fuel mix diversification policy and strategy in place. Based on EKPC's policy and strategy, EKPC will evaluate the source and location of fuel on any purchase. Also, EKPC will procure its coal requirements through a diversity of long-term and short-term contracts as well as spot deliveries. These quantities will be larger in the near term with decreasing quantities over time. The mix will have staggered expiration dates, and external factors may change the mix. Fuel oil purchases will typically be purchased on the spot market based on limited storage capabilities. Natural gas will be purchased on the spot market based on the variable usage of the combustion turbines. Alternative/renewable fuels will be evaluated on an ongoing basis to determine their economic benefit as well as their environmental compliance benefit.

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COMMISSION STAFF'S SECOND DATA REQUEST DATED 07/24/09
REQUEST 31
RESPONSIBLE PERSON: **Julia J. Tucker**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 31. Refer to page 8-13 of EKPC's IRP. What is the actual or estimated capacity associated with the 14 potential renewable energy projects to be located in Kentucky.

Response 31. The 14 proposals that were for projects to be located in Kentucky added up to a total of 744.6 MW of proposed capacity. Those numbers have not been verified by EKPC.

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COMMISSION STAFF'S SECOND DATA REQUEST DATED 07/24/09
REQUEST 32
RESPONSIBLE PERSON: **Craig A. Johnson**
COMPANY: **East Kentucky Power Cooperative, Inc.**

Request 32. Refer to pages 8-2 and 8-3 of EKPC's IRP regarding the Maintaining Electrical and Generating Equipment Reliability ("MEAGER") program utilized to assess and analyze the fitness of EKPC's generating facilities and equipment and the most cost-effective means of maintaining and operating those facilities. Explain if the MEAGER program is also used by other utilities in Kentucky.

Response 32. The MEAGER program was developed by EKPC. EKPC does not know which long-term planning tool is used by other utilities in Kentucky.