KPSC Case No. 2005-00341 KIUC 1<sup>st</sup> Set Data Requests Dated November 10, 2005 Item No. 96 Page 1 of 1

### **Kentucky Power Company**

### REQUEST

If not provided in response to the previous data request, please provide all work papers supporting the development of the monthly coincident peaks by rate class, including adjustments from load research sample data to adjusted test year data, and any other adjustment to census class data.

### **RESPONSE**

The monthly coincident peaks by class/voltage were provided in response to the Attorney General-1st Set, Question No. 182. No adjustments were made to the load research data.

WITNESS Larry C. Foust

KPSC Case No. 2005-00341 KIUC 1<sup>st</sup> Set Data Requests Dated November 10, 2005 Item No. 97 Page 1 of 5

# **Kentucky Power Company**

### REQUEST

Please provide the loss factors used for each rate class and voltage level to adjust the class demands and energy from meter level to the voltage levels used for cost allocation purposes.

#### **RESPONSE**

Please see the attached 4 pages.

WITNESS Larry C. Foust

#### Loss Allocation Study Kentucky Power

Year Ending December 31, 2004

Actual peak internal demand occurred 12/20/2004 at 09:00 hours:

1615.0 MW

Transmission		Subtransmission	ı
Variable Loss Fixed Loss Load	41.0 9.6 1425.6	Variable Loss Fixed Loss Load	19 <sup>1</sup> 3 2.6 1230 1
% Demand Loss Variable Fixed Total	2.9% 0.7% 3.5%	% Demand Loss Variable Fixed Total	Regular Adjusted 1.6% 0.2% 1.8% 1.4%
Load Factor Loss Factor % Energy Loss	0.5491 0.3140 <b>2.9%</b>	Load Factor Loss Factor % Energy Loss	Regular Adjusted 0.5685 0.3370 1.3% 1.0%

zmEND

KPSC Case No. 2005-00341 KIUC 1st Set Data Requests Item No. 97 Page 3 of 5

KENTUCKY POWER COMPANY
TWELVE MONTHS ENDED JUNE 30, 2005
LOSS EQUATION VARIABLES

# KPSC Case No. 2005-00341 KIUC 1<sup>st</sup> Set Data Requests Item No. 97 Page 4 of 5

FUNCTIONAL LEVEL	YEAR	MONTH (3)	DATE (4)	HOUR -	ANNUAL MAXIMUM (6)	MAXIMUM LOSS AMOUNT	COEFFICIENT (B)	ZERO LOAD LOSSES
SECONDARY	5	1	24	10	995,407	27,871	0.000000022102	5,972
PRIMARY	5	1	24	10	1,075,943	37,658	0.000000031600	1,076
SUBTRANSMISSION	4	12	20	. 9	1,206,839	21,723	0.000000013257	2,414
TRANSMISSION	5	1	. 18	9	1,513,070	52,957	0.000000018505	10,591
GENERATION	5	1 .	18	9	1,566,026	•	0.00000000000	. 0

ξς.

#### KENTUCKY POWER COMPANY

#### TWELVE MONTHS ENDED JUNE 30, 2005

### COMPOSITE LOSS FACTOR SUMMARY

VOLTAGE	** * .	DEMAND	METERED	J AT GI DEMAND	ENERATION  ENERGY	- LOSS F  -TO GENE DEMAND	
(1)		(2)	(3)	(4)	(5)	(6)	(7)
SECONDARY		657,814	3,627,512,222	721,962	3,934,430,243	1.09752	1.08461
PRIMARY		54,006	384,284,803	57,737	406,314,030	1.06908	1.05733
SUBTRANSMISSIO	N	345,721	2,742,575,071	361,641	2,857,102,898	1.04605	1.04176
TRANSMISSION	•	30,780	281,519,990	31,720	289,576,589	1.03056	1.02862

	1								
VOLTAGE	- TO SECO	ONDARY -  ENERGY	I TO PR	IMARY   ENERGY		BTRAN  ENERGY	I TO T	RANİ ENERGY	
~~~~~									
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1		1	* .				
SECONDARY	1.00000	1.00000	1.02660	1.02580	1.04920	1.04113	1.06497	1.05443	
PRIMARY	0.97409	0.97485	1.00000	1.00000	1.02202	1.01495	1.03738	1.02791	
SUBTRANSMISSION	0.95310	0.96049	0.97846	0.98527	1.00000	1.00000	1.01503	1.01277	
TRANSMISSION	0.93899	0.94838	0.96397	0.97285	0.98519	0.98739	1.00000	1.00000	

KPSC Case No. 2005-00341 KIUC 1<sup>st</sup> Set Data Requests Item No. 97 Page 5 of 5

KPSC Case No. 2005-00341 KIUC 1<sup>st</sup> Set Data Requests Dated November 10, 2005 Item No. 98 Page 1 of 1

# **Kentucky Power Company**

### REQUEST

Please provide the loss study which was used to develop the loss factors referenced in the previous data request.

### **RESPONSE**

Please see the response to KIUC Question No. 97.

WITNESS Larry C. Foust

KPSC Case No. 2005-00341 KIUC 1<sup>st</sup> Set Data Requests Dated November 10, 2005 Item No. 99 Page 1 of 1

# **Kentucky Power Company**

### **REQUEST**

Please provide all electronic spreadsheets supporting Roush Exhibit DMR-2, with formulas intact.

#### RESPONSE

Please see the enclosed CD for the requested Excel spreadsheet.

WITNESS David M. Roush

KPSC Case No. 2005-00341 KIUC 1<sup>st</sup> Set Data Requests Dated November 10, 2005 Item No. 100 Page 1 of 1

# **Kentucky Power Company**

### **REQUEST**

Please explain what criteria were used by the Company in determining that the appropriate subsidy reduction was 10% (Roush page 7)

#### **RESPONSE**

The Company's choice to reduce subsidies 10%, was based upon the balancing of the objective to eliminate interclass subsidies against the rate impacts caused by such elimination.

WITNESS David M. Roush

u2			

KPSC Case No. 2005-00341 KIUC 1<sup>st</sup> Set Data Requests Dated November 10, 2005 Item No. 101 Page 1 of 1

# **Kentucky Power Company**

### REQUEST

Please provide all work papers supporting the development of the proposed voltage differentials in the Q.P. and C.I.P.-T.O.D. rates.

#### **RESPONSE**

Please see the Company's response to Commission Staff-1st Set, Request No. 8-c, pages 27 through 38.

WITNESS David M. Roush