

COMMONWEALTH OF KENTUCKY
BEFORE THE
PUBLIC SERVICE COMMISSION OF KENTUCKY

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JUN 05 2007

PUBLIC SERVICE
COMMISSION

IN THE MATTER OF:

APPLICATION OF KENTUCKY POWER COMPANY)
FOR AN ORDER APPROVING A PILOT REAL-TIME)
PRICING PROGRAM FOR LARGE COMMERCIAL) CASE NO. 2007-00166
AND INDUSTRIAL CUSTOMERS)

KENTUCKY POWER COMPANY

RESPONSES TO ATTORNEY GENERAL'S FIRST SET OF DATA REQUESTS

June 5, 2007

Kentucky Power Company

REQUEST

Please reference the Foust testimony, at page 3, starting at line 4 through line 14

- A. Provide a detailed explanation, including all relevant determinants or decision-making reasons, for allowing program participants to choose the amount of load they are willing to have subject to real-time pricing.
- B. Does the company believe that allowing participants to choose the amount of load they are willing to have subject to real-time pricing will result in revenue erosion? If not, why?
- C. Does the company believe that allowing participants to choose the amount of load they are willing to have subject to real-time pricing will result in no participants subsidizing program participants? If not, why?

RESPONSE

(A) Allowing customers to choose the amount of load they are willing to have subject to real-time pricing was incorporated into the program to encourage customer participation. It allows customers the ability to experiment with their operations at a level of risk they are willing to accept. All customers have a different level of risk they are willing to accept and all customers' operations are different. Customers are in the best position to determine the level of risk and their ability to adjust their operations.

(B) It is anticipated that customers that participate in any program would do so only if they benefit from participation in that program, thereby providing less revenues to the Company. Some customers could benefit even if they were not allowed to choose the amount of load subject to real-time pricing. Allowing customers to choose the amount of load subject to real-time pricing may encourage more customers to participate.

(C) No. The Company does not believe that allowing participants to choose the amount of load they are willing to have subject to real-time pricing will result in non-participants subsidizing program participants. Non-participating customers will continue to pay the standard tariff rates established in the Company's last base rate case.

WITNESS: Larry C Foust

Kentucky Power Company

REQUEST

Please reference the Foust testimony, at page 3, starting at line 16 through line 18.

- A. Please provide the total number of existing Q.P. and C.I.P.-T.O.D. tariff customers.
- B. Please provide a detailed explanation why the program is limited to only ten (10) customers.
- C. Does the company believe that limiting the program to ten (10) customer will result in a fair representation of the classes of customers under the Q.P. and C.I.P.-T.O.D. tariff? If so, why?
- D. Does the company believe that such a limited program will offer statistically significant results? If so, why?

RESPONSE

(A) 106

(B) Kentucky Power limited the number of participants in the pilot program to limit the amount of fixed expenses associated with the pilot program. Ten participants allow the Company to manually bill the participating customers rather than develop an expensive computer billing program that would be required for a large number of participants.

(C & D) The Company is not attempting to achieve statistically significant load change results from this pilot. Each participant is expected to be unique in their desire and ability to shift load related to this tariff offering, therefore any attempt to utilize statistical sampling techniques during the pilot would be futile. Permitting nearly 10% of the eligible customers to participate should permit nearly all, if not all, customers that want to participate to do so.

WITNESS: Larry C Foust

Kentucky Power Company

REQUEST

Please list any other electric utilities real-time pricing programs and pilots, which the company reviewed, and for the programs listed, provide:

- A. A summary of each program or pilot, which should include the design of same and if implemented, the overall financial affect on the customers;
- B. The information which the company reviewed from each other program or pilot in making the decision to propose this pilot;
- C. The determinants or decision making reasons for determining this pilot to be appropriate; and
- D. The modeling or analyses conducted in reaching the decision.

RESPONSE

(A & B) The Company reviewed 4 programs; one from Public Service Company of Oklahoma in Oklahoma, one from FirstEnergy in Ohio and two from Duke Energy in Kentucky. Below are the website addresses containing descriptions of the programs.

https://www.psoklahoma.com/global/utilities/tariffs/Oklahoma/RTP_05_31_2005.pdf

<http://dis.puc.state.oh.us/TiffToPDF/VRIPMLK3SBLS74YH.pdf>

<http://www.duke-energy.com/pdfs/DE-KY-Rate-RTP-M.pdf>

<http://www.duke-energy.com/pdfs/DE-KY-ratertp.pdf>

(C) The two main factors which shaped the design of the Company's program were the fact that market-based energy prices were much higher than Kentucky's tariff energy prices and the determination of customer baselines used in many programs is subject to manipulation. A review of the AEP zone locational marginal prices (LMP) for 2006 revealed that for over 90% of the hours the LMP prices were higher than the energy rates for Kentucky Power's QP and CIP-TOD tariffs. Also through experience with Public Service Company of Oklahoma's program and participation in PJM working group meetings, determination of customer baselines is subject to much discussion and manipulation. The Company's proposal therefore does not utilize customer baselines and only uses real time LMPs for customer designated usage.

(D) Attached is a file that analyzes the LMP's for 2006.

WITNESS: Larry C Foust

Kentucky Power Company
 Analysis of 2006 AEP Zone LMP Hourly Prices
 Compared to Kentucky Power's Average Realizations

	Day Ahead		Real Time	
Yearly Simple Average of AEP Zone LMP	\$41.39090		\$42.23605	
Hours >= \$75	393		747	
Maximum	\$248.30000		\$747.27279	
KP QP Energy Charge Average	20.18820			
Hours >= \$20.18820	8310	94.86%	8183	93.41%
KP CIP - TOD Energy Charge Average	16.57744			
Hours >= \$16.57744	8608	98.26%	8430	96.23%

DAY AHEAD

Date	PrndID	Name	Zone	Equipment Type	Voltage	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300
20060101	8445784	AEP	ZONE	ZONE	26.46	28.33	26.76	27.46	28.81	28.96	31.03	31.1	30.86	29.59				
20060102	8445784	AEP	ZONE	ZONE	22.21	24.09	22.77	24.6	26.69	30.12	32.13	32.13	32.1	31.84				
20060103	8445784	AEP	ZONE	ZONE	26.49	27.88	27.56	28.81	30.26	43.56	48.52	46.94	40.3	40				
20060104	8445784	AEP	ZONE	ZONE	26.81	27.33	27.24	28.61	33.83	43.99	45.46	44.01	40.03	38.6				
20060105	8445784	AEP	ZONE	ZONE	27.9	28.15	28.78	33.42	42.86	44.07	44.99	44.58	40.93	39.09				
20060106	8445784	AEP	ZONE	ZONE	33.1	33.02	32.5	32.6	49.13	51.03	55.08	55.17	51.6	48.68				
20060107	8445784	AEP	ZONE	ZONE	40.68	38.87	40.05	40.68	40.88	47.55	51.3	49.12	45.44	40.49				
20060108	8445784	AEP	ZONE	ZONE	31.83	33.94	31.94	33.43	33.86	36.18	37.86	36.31	35.67	34.7				
20060109	8445784	AEP	ZONE	ZONE	30.33	30.28	30.42	30.33	39.22	40.8	45.14	45.46	45.67	41.08				
20060110	8445784	AEP	ZONE	ZONE	28.45	28.78	28.56	28.45	42.8	52.88	52.7	52.61	48.26	43.09				
20060111	8445784	AEP	ZONE	ZONE	25.66	25.77	26.13	25.66	42.8	49.38	48.08	49.29	45.86	41.03				
20060112	8445784	AEP	ZONE	ZONE	28.36	28.73	29.05	28.36	42.09	47.59	44.58	44.81	40.95	38.68				
20060113	8445784	AEP	ZONE	ZONE	26.62	26.98	28.3	26.62	36.69	48.18	40.13	40.37	41.78	40.54				
20060114	8445784	AEP	ZONE	ZONE	32.44	32.44	32	32.44	48.36	51.14	51.08	51.08	48.55	46.46				
20060115	8445784	AEP	ZONE	ZONE	39.79	40.13	38.26	39.79	35.59	40.07	41.85	40.93	40.19	36.7				
20060116	8445784	AEP	ZONE	ZONE	33.81	33.81	34.22	33.81	36.81	41.48	41.85	40.93	42.42	41.34				
20060117	8445784	AEP	ZONE	ZONE	31.54	31.54	30.65	31.54	41.86	51.31	47.53	44.2	43.72	43.07				
20060118	8445784	AEP	ZONE	ZONE	34.22	34.22	34.88	34.22	46.01	59.98	66.36	67.07	61.48	52.49				
20060119	8445784	AEP	ZONE	ZONE	36.14	36.14	36.89	36.14	57.22	61.43	56.15	56.15	48.94	43.86				
20060120	8445784	AEP	ZONE	ZONE	30.65	30.65	30.08	30.65	42.84	60.4	52.91	42.6	46.18	41.84				
20060121	8445784	AEP	ZONE	ZONE	28.99	28.99	28.79	28.99	31.11	34.66	37.75	42.6	37.52	35.97				
20060122	8445784	AEP	ZONE	ZONE	31.2	31.2	28.55	31.2	40.64	50.55	50.98	48.63	45.25	50.05				
20060123	8445784	AEP	ZONE	ZONE	28.92	28.92	28.68	28.92	40.64	51.01	45.85	45.85	41.93	38.04				
20060124	8445784	AEP	ZONE	ZONE	31.97	30.11	30.23	31.97	47.49	50.64	51.11	48.63	45.25	44.31				
20060125	8445784	AEP	ZONE	ZONE	31.1	31.1	34.12	31.1	47.49	50.64	45.11	44.42	43.89	40.05				
20060126	8445784	AEP	ZONE	ZONE	35.93	35.93	36.28	35.93	50.67	59.34	55.15	54.23	43.23	40.05				
20060127	8445784	AEP	ZONE	ZONE	39.03	39.03	39.55	39.03	61.86	66.1	53.39	50.82	43.23	34.3				
20060128	8445784	AEP	ZONE	ZONE	32.97	32.97	31.65	32.97	33.47	36.51	39.04	40.7	36.12	34.3				
20060129	8445784	AEP	ZONE	ZONE	27.92	27.92	26.5	27.92	29.74	44.76	46.66	46.16	43.6	41.14				
20060130	8445784	AEP	ZONE	ZONE	25.26	25.26	25.86	25.26	37.94	46.77	46.66	46.16	43.6	41.14				
20060131	8445784	AEP	ZONE	ZONE	27.88	27.88	28.23	27.88	41.89	51.01	46.77	46.64	43.68	41.47				
20060201	8445784	AEP	ZONE	ZONE	31.17	30.81	32.52	31.17	56.92	69.72	53.42	48.4	42.86	39.51				
20060202	8445784	AEP	ZONE	ZONE	32.82	32.82	33.39	32.82	50.26	69.72	53.42	48.4	42.86	39.51				
20060203	8445784	AEP	ZONE	ZONE	27.81	27.88	28.37	27.81	43.71	51.83	45.53	44.48	41.12	38.37				
20060204	8445784	AEP	ZONE	ZONE	28.95	30.16	29.6	28.95	32.97	39.93	46	47.76	44.23	40.51				
20060205	8445784	AEP	ZONE	ZONE	28.15	29.69	27.41	28.15	30.44	34.46	37.14	37.81	38.83	37.83				
20060206	8445784	AEP	ZONE	ZONE	32.78	32.78	34.51	32.78	50.36	62.72	60.26	57.29	48.33	42.84				
20060207	8445784	AEP	ZONE	ZONE	35.02	35.02	35.81	35.02	60.1	73.32	57.64	52.71	45.75	42.88				
20060208	8445784	AEP	ZONE	ZONE	36.4	36.4	37.01	36.4	61.7	56.23	50.89	48.07	44.56	40.46				
20060209	8445784	AEP	ZONE	ZONE	37.15	37.15	38.22	37.15	55.22	61.84	51.75	48.04	43.39	41.61				
20060210	8445784	AEP	ZONE	ZONE	33.23	33.23	35.42	33.23	53.49	65.66	52.65	46.86	43.4	40.41				
20060211	8445784	AEP	ZONE	ZONE	35.72	35.72	35.12	35.72	37.04	40.02	46.66	46.23	43.01	41.08				
20060212	8445784	AEP	ZONE	ZONE	36.27	36.27	34.91	36.27	34.99	38.77	46.21	44.58	44.27	41.59				
20060213	8445784	AEP	ZONE	ZONE	37.75	37.75	40.32	37.75	34.66	43.12	48.21	46.71	57.25	48.08				
20060214	8445784	AEP	ZONE	ZONE	36.36	36.36	37.72	36.36	51.74	89.63	84.42	66.71	57.25	48.08				
20060215	8445784	AEP	ZONE	ZONE	32.21	32.26	32.26	32.21	67.78	53.68	47.5	44.18	42.41	39.61				
20060216	8445784	AEP	ZONE	ZONE	28.17	28.38	28.38	28.17	41.99	62.49	49.42	45.1	40.74	40				
20060217	8445784	AEP	ZONE	ZONE	27.72	28.57	31.72	27.72	46.39	47.44	46.79	44.63	37.14	35.42				
20060218	8445784	AEP	ZONE	ZONE	36.1	36.37	35.32	36.1	51.01	47.44	46.79	44.63	42.69	42.30				
20060219	8445784	AEP	ZONE	ZONE	38.38	38.33	36.21	38.38	44.99	52.57	53.56	46.75	46.75	46.75				
20060220	8445784	AEP	ZONE	ZONE	40.07	38.84	45.1	40.07	48.96	45.13	44.76	42.79	41.33	38.50				
20060221	8445784	AEP	ZONE	ZONE	35.48	35.84	34.55	35.48	54.46	64.92	62.52	60.98	55.66	46.98				
										70	60.1	60.1	55.04	42.75	50			

DAY AHEAD

Date	ProneID	Name	Voltage	Equipment	Type	Zone	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300
20061114	8445784	AEP	24.42	24.08	23.44	23.31	23.94	29.17	56.46	59.72	57.37	54.18	52.95	52.31					
20061115	8445784	AEP	25.61	24.52	24.22	23.95	24.08	28.6	51.91	61.67	55.83	55.41	56.33	53.24					
20061116	8445784	AEP	24.33	23.12	22.74	22.44	22.75	-25.8	43.51	62.06	51.26	56.68	54.81	54.81					
20061117	8445784	AEP	26.71	24.24	23.7	23.62	23.87	29.15	55.74	60.09	59.62	61.77	59.55	56.73					
20061118	8445784	AEP	28.47	25.38	24.01	23.49	23.66	24.19	28.76	34.07	46.92	53.92	47.86	38.39					
20061119	8445784	AEP	27.74	25.46	25.44	24.88	23.86	23.8	25.59	31.13	41.41	41.55	38.42	33.74					
20061120	8445784	AEP	24.81	23.16	22.94	22.9	23.74	31.13	51.03	67	70.7	74.44	66.72	58.95					
20061121	8445784	AEP	27.45	25.24	24.14	23.98	25.8	36.36	66.05	80.51	88.36	61.98	56.04	50.19					
20061122	8445784	AEP	25.24	24.03	23.45	23.26	24.3	28.28	58.31	71.02	88.76	54.2	51.02	43					
20061123	8445784	AEP	24.68	23.39	22.87	22.33	22.39	22.87	33.78	25.32	33.13	36.97	32.2	29.17					
20061124	8445784	AEP	20.43	19.81	18.88	19.65	19.99	21.86	23.64	28.03	29.78	31.45	29.26	28.79					
20061125	8445784	AEP	22.48	21.79	21.02	20.97	21.13	21.61	23.19	25.3	27.03	28.43	28	25.75					
20061126	8445784	AEP	20.55	20.01	19.69	19.61	19.57	20.02	21	22.46	23.32	23.86	22.82	22.62					
20061127	8445784	AEP	19.55	19.55	19.43	19.47	19.75	23.29	33.75	43.61	45.57	43.13	38.98	35.24					
20061128	8445784	AEP	20.42	19.75	19.5	19.41	19.66	22.03	26.15	37.72	37.79	35.23	33.86	30.42					
20061129	8445784	AEP	19.8	19.57	19.1	19.09	19.34	21.92	26.82	37.78	34.97	34.72	34.83	29.82					
20061130	8445784	AEP	20.79	19.79	19.37	18.46	19.8	22.92	26.37	34.03	31.75	35.5	34.99	34.68					
20061201	8445784	AEP	22.99	22.32	21.59	21.66	21.91	24.19	30.86	36.73	38.05	38.22	37.79	36.22					
20061202	8445784	AEP	24.47	24.36	24	24.08	24.33	24.78	27.69	33.7	40.51	42.56	41.06	36.32					
20061203	8445784	AEP	25.43	25.01	24.62	24.38	23.96	24.33	25.13	25.99	28.95	28.61	28.33	27.38					
20061204	8445784	AEP	25.49	25.77	25.58	25.54	26.95	34.43	60.71	77.3	74.91	70.25	68.19	65.33					
20061205	8445784	AEP	27.02	25.73	25.46	25.42	27.15	37.54	62.48	80.95	74.78	69.72	64.25	57.32					
20061206	8445784	AEP	27.89	26.71	25.89	26.19	26.93	30.29	49.49	70.81	69.02	62.09	50.42	45.86					
20061207	8445784	AEP	30.61	27.98	27.57	27.55	28.55	34.42	63.65	79.81	65.93	60.26	56.86	51.59					
20061208	8445784	AEP	33.43	29.24	28.29	28.24	32.63	41.31	68.1	85.81	77.26	67.13	64.31	60.47					
20061209	8445784	AEP	36.69	33.97	32.61	32.72	32	34.1	40.52	48.51	54.57	56.03	52.31	30.99					
20061210	8445784	AEP	32.56	31.64	29.44	29.03	28.71	28.23	29.97	31.97	33.86	31.11	27.32	26.33					
20061211	8445784	AEP	25.56	24.12	23.8	23.95	24.95	27.39	45.48	58.58	55.08	48.94	50.42	39.82					
20061212	8445784	AEP	24.41	23.37	22.97	22.95	23.61	25.99	45.93	45.09	44.8	36.96	34.01	29.81					
20061213	8445784	AEP	23.91	21.82	21.59	21.37	22.17	24.15	32.7	37.47	32.95	31.22	29.73	28.63					
20061214	8445784	AEP	24.86	23.44	23.02	22.85	22.63	24.39	28.81	37.52	34.84	35.79	32.47	29.68					
20061215	8445784	AEP	22.65	22.44	21.95	21.88	22.16	24.1	30.39	45	39.47	33.39	37	28.34					
20061216	8445784	AEP	22.34	21.85	21.61	21.52	21.46	21.72	22.75	26.12	27.81	28.39	28.13	24.09					
20061217	8445784	AEP	21.93	21.23	20.83	20.74	20.14	20.66	21.4	23.54	24.22	23.92	23.34	23.08					
20061218	8445784	AEP	21.93	20.47	20.31	20.24	20.81	22.67	28.34	43.04	37.73	34.13	34.92	32.25					
20061219	8445784	AEP	23.15	22.33	21.79	21.67	22.38	25.05	34.77	48.95	38.21	34.86	34.58	32.41					
20061220	8445784	AEP	25.56	24.38	24.62	24.62	25.26	26.28	44.08	63.09	54.84	49.09	47.48	36.26					
20061221	8445784	AEP	25.83	23.92	23.26	23.1	24.68	26.84	37.28	47.66	39.97	35.94	35.93	32.07					
20061222	8445784	AEP	21.86	19.17	18.6	18.49	19.34	22.5	26.92	35.68	32.81	29.99	28.98	26.21					
20061223	8445784	AEP	20.23	18.56	18.33	18.34	18.24	18.88	20.66	22.77	23.38	25.04	24.98	23.44					
20061224	8445784	AEP	20.82	18.43	19.02	18.83	18.66	18.22	20.89	22.98	23.8	24.94	24.13	22.76					
20061225	8445784	AEP	20.77	19.19	16.34	16.06	18.62	19.81	21.03	21.99	22.65	23.48	23.54	22.75					
20061226	8445784	AEP	20.03	16.75	18.43	18.45	18.74	21.38	23.53	26.47	28.42	28.65	27.39	25.82					
20061227	8445784	AEP	21.26	20.44	19.8	19.73	20.69	22.63	25.3	30.36	30.67	30.68	28.33	26.99					
20061228	8445784	AEP	22.03	21.16	20.7	20.7	21.61	23.92	26.71	34.78	34	33.87	32.73	29.61					
20061229	8445784	AEP	21.48	19.9	19.69	19.75	20.46	22.91	24.87	28.87	32.13	32.04	31.25	25.87					
20061230	8445784	AEP	22.19	21.37	21.12	21.05	20.99	21.84	22.51	23.89	25.48	26.31	26.21	24.7					
20061231	8445784	AEP	20.78	19.41	18.84	18.84	18.85	19.72	20.75	21.57	23.52	24.2	24.34	23.94					

DAY AHEAD

Date	PrncedID	Name	Voltage	Equipment	Type	Zone	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
20060101	8445784	AEP		ZONE		28.57	29.49	29.48	29.57	34.25	36.56	40.8	38.09	34.31	30.93	29.59	
20060102	8445784	AEP		ZONE		30.96	30.64	30.38	31.83	46.18	48.13	48.82	46.14	37.97	32.47	28.57	
20060103	8445784	AEP		ZONE		39.68	36.36	35.94	38.61	69.15	80.38	65.32	57.25	44.35	35.63	33.27	
20060104	8445784	AEP		ZONE		38.41	37.63	37.34	41.32	75.61	78.08	66.81	55.06	43.57	36.16	33.41	
20060105	8445784	AEP		ZONE		38.12	37.32	37.41	42.45	66.33	85.91	66.81	62.15	45.78	36.73	35.63	
20060106	8445784	AEP		ZONE		43.48	41.25	41.18	47.75	78.04	88.87	74.73	68.04	53.48	39.6	38.7	
20060107	8445784	AEP		ZONE		39.13	36.66	36.77	40.15	59.77	66.63	60.27	55.79	47.74	38.86	37.84	
20060108	8445784	AEP		ZONE		34.88	33.93	33.44	35.67	48.74	55.32	53.34	51.71	40.89	36.32	35	
20060109	8445784	AEP		ZONE		40.67	39.96	39.34	40.07	60.17	68.48	63.17	53.94	46.82	38.17	37.65	
20060110	8445784	AEP		ZONE		42.52	42.31	41.26	43.71	59.69	65.46	66.39	54.92	49.26	38.97	34.2	
20060111	8445784	AEP		ZONE		39.4	38.15	37.68	39.39	54.83	67.33	64.14	51.8	45.81	36.52	31.79	
20060112	8445784	AEP		ZONE		37.92	37.22	36.97	38.05	56.01	60.02	56.98	46.39	41.89	35.11	33.56	
20060113	8445784	AEP		ZONE		38.94	38.69	37.71	38.76	52.53	58.03	52.85	45.3	39.32	35.05	32.84	
20060114	8445784	AEP		ZONE		44.5	41.78	41.41	44.32	62.82	68.28	64.06	56	50.54	41.02	41.47	
20060115	8445784	AEP		ZONE		37.98	37.32	37.34	35.61	47.38	68.46	64.91	56.82	54.54	42.85	42.75	
20060116	8445784	AEP		ZONE		39.84	37.86	37.36	39.47	51.57	61.94	59.76	48.16	42.99	37.31	35.79	
20060117	8445784	AEP		ZONE		38.66	37.6	37.54	39.14	51.93	62.97	58.16	46.85	41.08	36.13	34.03	
20060118	8445784	AEP		ZONE		50.76	49.54	47.3	51.35	80.47	89.74	91.29	79.05	62.68	43.77	40	
20060119	8445784	AEP		ZONE		42.64	38.9	38.34	40.11	53.83	65.78	59.73	53.43	44.24	36.85	35.33	
20060120	8445784	AEP		ZONE		40.12	38.84	36.98	37.74	46.95	57.39	53.3	44.58	40.62	35.43	31.85	
20060121	8445784	AEP		ZONE		34.28	32.98	32.38	32.91	41.81	52.44	47.54	39.94	36.09	33.61	30.55	
20060122	8445784	AEP		ZONE		32.9	31.52	30.96	32.62	45.85	60.76	62.28	51.4	39.21	35.75	32.06	
20060123	8445784	AEP		ZONE		43.91	40.71	39.16	40.85	53.65	80	70.8	62.99	50.43	39.2	36.83	
20060124	8445784	AEP		ZONE		38.13	36.38	36.16	37.27	45.56	57.31	54.15	50.12	41.27	35.91	32.44	
20060125	8445784	AEP		ZONE		42.35	39.54	38.51	38.87	53.63	71.8	62.95	56.57	47.92	39.37	37.35	
20060126	8445784	AEP		ZONE		40.48	40.95	40.38	38.91	46.15	67.19	61.8	54.07	44.86	39.78	37.6	
20060127	8445784	AEP		ZONE		38.63	36.25	35.44	35.5	43.47	55.03	50	46.4	39.67	38.7	35.78	
20060128	8445784	AEP		ZONE		32.25	31.8	31.73	32.47	36.8	42.15	40.5	37.33	35.17	33.13	30.03	
20060129	8445784	AEP		ZONE		39.46	37.08	37.51	38.22	45.33	69.72	59.97	46.19	38.81	35.2	28.76	
20060130	8445784	AEP		ZONE		40.37	39.06	38.95	39.86	47.38	71.79	66.1	53.25	45.28	38.55	32.89	
20060201	8445784	AEP		ZONE		39.37	38.11	37.6	36.93	41.3	59.67	52.28	45.08	41.39	35.88	34.77	
20060202	8445784	AEP		ZONE		38.68	37.63	36.84	38.15	44.21	59.68	50.65	46.42	45.25	38.44	34.65	
20060203	8445784	AEP		ZONE		36.98	36.72	36.69	36.49	41.38	47.67	45.8	43.57	39.57	35.63	33.78	
20060204	8445784	AEP		ZONE		38.47	37.98	38.04	38.96	48.15	62.38	60.15	53.45	44.51	38.38	34.76	
20060205	8445784	AEP		ZONE		37.14	37.01	36.84	37.32	47.66	71.12	70.18	63.95	53.19	38.66	34.32	
20060206	8445784	AEP		ZONE		41.85	41.17	40.52	41.43	54.5	81.41	76.24	60.98	50.32	41.42	37.82	
20060207	8445784	AEP		ZONE		41.31	39.02	38.83	38.41	45.99	63.52	64.65	56.73	47.08	40.18	37.38	
20060208	8445784	AEP		ZONE		41.18	36.62	35.99	37.63	42.43	67.18	68.05	61.01	47.7	40.28	34.32	
20060209	8445784	AEP		ZONE		40.42	37.68	35.05	37.75	42.19	61.16	71.24	62.3	47.95	42.31	37.06	
20060210	8445784	AEP		ZONE		37.65	35.1	33.4	34.15	38.97	48.19	48.23	45.93	41.08	38.46	34.61	
20060211	8445784	AEP		ZONE		38.3	37.64	36.25	37.37	42.41	63.79	62.26	49.21	43.52	38.3	33.47	
20060212	8445784	AEP		ZONE		38.06	37.56	37.67	39.62	48.22	70.77	80.22	71.24	58.36	42.81	38.74	
20060213	8445784	AEP		ZONE		44.13	44.04	42.22	42.82	46.86	84.42	90.85	79.85	51.14	44.31	40.29	
20060214	8445784	AEP		ZONE		38.13	35.79	34.33	35.01	39.43	57.72	66.8	56.87	45.67	36.47	35.23	
20060215	8445784	AEP		ZONE		37.84	35.3	34.13	33.73	38.92	70.38	81.1	52.42	45.32	38.11	31.98	
20060216	8445784	AEP		ZONE		34.13	33.84	33.57	33.47	35.46	49.86	50.84	46.59	38.81	32.88	30.2	
20060217	8445784	AEP		ZONE		41.58	39.47	38.42	38.35	44.25	68.19	70.49	65.81	51.82	42.07	38.57	
20060218	8445784	AEP		ZONE		43.68	43.16	42.61	43.85	46.27	73.12	72.82	69.09	60.62	41.55	41.58	
20060219	8445784	AEP		ZONE		37.38	37.5	37.22	37.12	40.65	50.32	61.16	57.43	48.48	39.84	41.25	
20060220	8445784	AEP		ZONE		43.22	40.12	40	40.57	44.05	63.04	73.65	64.92	53	41.11	40.84	
20060221	8445784	AEP		ZONE		40.14	38.35	37.48	37.45	42.25	60.84	79.22	65.08	48.85	39.32	37.98	

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Date	ProdID	Name	Voltage	Equipment Type	Zone	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
20060222	8445784	AEP		ZONE	40.92	38.08	38.09	39.31	43.88	63.08	58.75	52.97	45.66	2200	2300	2400
20060223	8445784	AEP		ZONE	36.45	34.59	34.32	34.93	38.33	47.67	53.45	53.32	47.54	2200	2300	2400
20060224	8445784	AEP		ZONE	40.22	38.1	37.96	38.14	42.42	51.72	52.78	48.9	44.34	2200	2300	2400
20060225	8445784	AEP		ZONE	37.41	33.67	32.92	34.74	38.74	48.34	59.44	49.5	44.41	2200	2300	2400
20060226	8445784	AEP		ZONE	36.42	35.21	34.05	37.06	39.42	52.98	66.26	60.82	49.04	2200	2300	2400
20060227	8445784	AEP		ZONE	41.66	39.4	37.68	39.6	43.96	62.44	73.86	59.52	46.32	2200	2300	2400
20060228	8445784	AEP		ZONE	35.97	33.89	33.06	33.76	37.47	51.16	64.68	51.41	43.47	2200	2300	2400
20060301	8445784	AEP		ZONE	34.15	32.31	31.35	31.96	35.59	43.44	50.7	47.84	39.81	2200	2300	2400
20060302	8445784	AEP		ZONE	38.42	37.28	37	37.13	39.03	54.38	59.14	49.92	45.02	2200	2300	2400
20060303	8445784	AEP		ZONE	40.48	38.05	37.33	37.46	40.6	64.48	66.16	56.04	51.54	2200	2300	2400
20060304	8445784	AEP		ZONE	38.28	34.39	33.17	33.12	38.31	56.16	60.83	54.11	45.17	2200	2300	2400
20060305	8445784	AEP		ZONE	32.77	31.31	30.74	31.23	37.8	47.98	59.82	54.53	45.92	2200	2300	2400
20060306	8445784	AEP		ZONE	43.4	41.15	39.65	40.52	45.92	70.03	78.71	68.95	58.28	2200	2300	2400
20060307	8445784	AEP		ZONE	38	35.97	34.27	35.05	39.49	56.61	66.86	62.45	51.26	2200	2300	2400
20060308	8445784	AEP		ZONE	41.17	38.82	36.26	35.64	40.22	57.74	67.89	62.45	51.26	2200	2300	2400
20060309	8445784	AEP		ZONE	42.1	38.36	36.16	35.3	38.32	51.99	53.98	49.8	41.5	2200	2300	2400
20060310	8445784	AEP		ZONE	35.85	34.07	32.13	32.74	34.57	43.14	49.41	43.16	39.52	2200	2300	2400
20060311	8445784	AEP		ZONE	28.89	28.77	28.28	28.25	29.49	34.38	45.26	39.49	34	29.45	28.49	28.49
20060312	8445784	AEP		ZONE	28.64	27.92	27.55	27.5	28.78	34.69	43.27	38.23	28.88	28.79	28.79	28.79
20060313	8445784	AEP		ZONE	43.94	41.58	38.75	38.37	42.88	57.44	68.23	59.17	47.1	34.3	28.13	28.13
20060314	8445784	AEP		ZONE	40.83	40.13	38.22	40.9	42.16	61.1	75.84	61.1	53.13	37.83	35.25	35.25
20060315	8445784	AEP		ZONE	42.57	38.85	36.14	39.78	40.06	56.75	74.72	63.55	53.62	35.99	39.05	39.05
20060316	8445784	AEP		ZONE	43.58	39.36	38.34	40.16	40.43	63.35	79.07	67.17	55.87	41.42	39.25	39.25
20060317	8445784	AEP		ZONE	42.98	38.3	37.12	36.4	37.56	52.96	65.8	58.71	49.02	38.12	33.28	33.28
20060318	8445784	AEP		ZONE	33.78	32.01	30.31	30.71	32.65	35.98	38.87	39.04	38.73	36.93	33.97	33.97
20060319	8445784	AEP		ZONE	28.88	27.44	27.06	27.44	28.52	37.05	47.41	45.15	40.57	34.56	31.73	31.73
20060320	8445784	AEP		ZONE	39.11	36.72	33.58	34.33	38.22	48.97	58.93	48.97	48.97	35.93	32.42	32.42
20060321	8445784	AEP		ZONE	47.45	42.38	40.83	41.57	46.66	72.29	92	78.78	64.22	44.13	35.35	35.35
20060322	8445784	AEP		ZONE	43.19	40.02	37.77	38.26	40.8	58.68	77.81	69.58	56.8	41.47	33.26	33.26
20060323	8445784	AEP		ZONE	44.17	40.66	38.83	39.1	40.83	57.11	83.77	74.58	61.13	41.64	34.22	34.22
20060324	8445784	AEP		ZONE	47.88	41.98	41.68	40.72	42.05	53.57	68.48	64.86	48.18	45.36	41.76	41.76
20060325	8445784	AEP		ZONE	39.91	36.78	35.58	34.63	37.37	45.85	60.38	54.67	48.18	41.46	37.03	37.03
20060326	8445784	AEP		ZONE	33.39	32.82	32.98	33.07	33.91	42.37	62.57	58.19	47.38	38.59	35.78	35.78
20060327	8445784	AEP		ZONE	40.6	36.55	37.35	37.24	38.88	48.37	69.78	64.39	46.48	38.67	34.26	34.26
20060328	8445784	AEP		ZONE	41.43	39.8	38.52	38.73	41.41	53.9	76.27	67.2	48.5	38.19	33.36	33.36
20060329	8445784	AEP		ZONE	41.4	36.43	36.92	36.51	38.28	49.2	61.47	59.17	48.85	35.81	33.03	33.03
20060330	8445784	AEP		ZONE	40.38	38.38	35.49	36.2	38.89	46.28	71.53	64.55	46.04	34.08	30.32	30.32
20060331	8445784	AEP		ZONE	46.75	40.59	39.47	38.52	40.39	48.48	65.83	54.2	46.53	37.17	33.55	33.55
20060401	8445784	AEP		ZONE	39.89	37.08	34.73	33.79	34.95	43.76	67.29	60.87	43	35.28	29.07	29.07
20060402	8445784	AEP		ZONE	35.74	34.73	33.98	33.95	34.81	38.13	54.95	66.83	58.78	36.9	34.13	34.13
20060403	8445784	AEP		ZONE	56.4	53.88	51.45	51.73	52.19	60.67	75.34	81.94	67.15	45.57	35.36	35.36
20060404	8445784	AEP		ZONE	65.92	63.23	66.15	66.15	65.78	75.04	92.45	81.94	67.15	45.57	35.36	35.36
20060405	8445784	AEP		ZONE	65.78	60.53	55.41	52.33	52.08	56.85	69.25	76.44	71.67	53.84	39.88	39.88
20060406	8445784	AEP		ZONE	54.58	51.21	48.34	46.23	44.06	48.08	60.1	68.79	61.14	43.89	38.86	38.86
20060407	8445784	AEP		ZONE	59.03	56.52	48.88	45.25	41.42	42.72	54.44	64.08	60.13	40.41	38.64	38.64
20060408	8445784	AEP		ZONE	42.39	37.86	35.75	35.12	34.5	36.82	46.85	59.25	51.44	38.23	34.49	34.49
20060409	8445784	AEP		ZONE	32.2	31.73	30.45	30.53	30.8	31.74	42.51	58.83	50.19	35.55	29.73	29.73
20060410	8445784	AEP		ZONE	53.89	48.75	40.37	41.63	39.92	39.88	46.34	60.64	60.32	40.99	31.79	31.79
20060411	8445784	AEP		ZONE	50.83	46.78	42.41	39.31	38.11	37.6	42.54	55.27	50.02	37.08	31.49	31.49
20060412	8445784	AEP		ZONE	55.9	55.12	50.07	47.79	43.88	41.52	47.62	61.5	57.51	39	29.18	29.18
20060413	8445784	AEP		ZONE	58.05	55.24	52.23	53.97	49.78	44.07	47.76	59.86	52.6	39.37	30.95	30.95
20060414	8445784	AEP		ZONE	48.14	48.3	49.42	47.04	39.51	35.64	39.05	44.96	44.48	32.89	26.84	26.84
20060415	8445784	AEP		ZONE	46.63	45.3	45.33	43.73	41.33	37.36	36.82	48.5	48.08	33.39	25.56	25.56

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Date	PnodeID	Name	Voltage	Equipment	Type	Zone	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
20060416	8445784	AEP	ZONE	ZONE	ZONE	35.09	33.21	32.83	33.26	33.22	34.1	39.15	57.78	51.91	36	27.46	
20060417	8445784	AEP	ZONE	ZONE	ZONE	69.23	66.6	64.01	61.94	53.7	50.16	59.13	74.05	66.94	42.99	36.18	
20060418	8445784	AEP	ZONE	ZONE	ZONE	63.48	62.43	60.02	58.97	51.67	45.06	51.88	78.93	61.64	44.88	33.73	
20060419	8445784	AEP	ZONE	ZONE	ZONE	54.84	57.49	57.21	60.16	52.39	44.97	46.5	65.33	54.31	38.98	31.85	
20060420	8445784	AEP	ZONE	ZONE	ZONE	68.84	68.87	71.66	73.56	67.72	60.93	64.81	79.87	69.73	52.29	37.44	
20060421	8445784	AEP	ZONE	ZONE	ZONE	60.31	59.6	65.04	62.08	53.86	44.93	46.26	55.18	55.18	40.3	32.85	
20060422	8445784	AEP	ZONE	ZONE	ZONE	48.16	44.74	41.73	41.14	39.53	39.59	44.15	56.57	50.16	38.65	31.36	
20060423	8445784	AEP	ZONE	ZONE	ZONE	40.32	39.51	38.94	41.71	40.71	43.03	47.85	64.72	55.03	40.02	30.77	
20060425	8445784	AEP	ZONE	ZONE	ZONE	59.6	62.51	60.15	60.38	61.12	53.63	50.57	62.16	58.92	39.43	30.67	
20060426	8445784	AEP	ZONE	ZONE	ZONE	53.35	56.66	51.12	50.16	46.1	42.53	43.15	59.23	53.5	34.04	31.31	
20060427	8445784	AEP	ZONE	ZONE	ZONE	60.62	62.21	57.43	56.71	50.78	46.28	49.6	68.18	58.83	38.62	31.38	
20060428	8445784	AEP	ZONE	ZONE	ZONE	47.84	49.38	47.25	43.28	39.17	37.13	36.86	45.13	52.47	35.12	32.75	
20060429	8445784	AEP	ZONE	ZONE	ZONE	45.2	40.2	36.94	35.45	35.51	36.44	36.63	50.56	47.68	35.17	27.47	
20060430	8445784	AEP	ZONE	ZONE	ZONE	32.41	30.66	30.04	30.6	31.92	31.07	32.88	45.96	50.54	34.01	26.23	
20060501	8445784	AEP	ZONE	ZONE	ZONE	60.8	59.84	52.75	48.94	46.1	41.27	42.75	52.53	49.9	35.45	28.86	
20060502	8445784	AEP	ZONE	ZONE	ZONE	59.19	58.93	58.86	58.87	57.35	49.47	51.48	60.69	59.04	39.56	31.53	
20060503	8445784	AEP	ZONE	ZONE	ZONE	61.79	64.7	65.09	68.85	61.35	54.51	51.68	61.14	61.04	48.34	33.52	
20060504	8445784	AEP	ZONE	ZONE	ZONE	59.94	58.66	58.17	61.86	57.39	51.79	47.55	55.33	54.87	41.43	32.23	
20060505	8445784	AEP	ZONE	ZONE	ZONE	57.11	57.53	56.03	56.98	52.99	45.71	41.6	48.71	53.13	38.58	33.17	
20060506	8445784	AEP	ZONE	ZONE	ZONE	47.48	47.37	46.16	45.94	44.99	39.88	37.28	48.1	49.67	48.1	35.8	
20060507	8445784	AEP	ZONE	ZONE	ZONE	32.09	31.26	31.37	32.58	34.32	32.46	35.01	52.08	51.46	34.41	27.5	
20060508	8445784	AEP	ZONE	ZONE	ZONE	61.99	61.33	59.76	62.05	59.8	52.63	47.6	59.94	59.64	45.72	34.68	
20060509	8445784	AEP	ZONE	ZONE	ZONE	54.8	53.96	53.52	54	56.42	47.1	43.07	55.61	54.39	38.64	30.8	
20060510	8445784	AEP	ZONE	ZONE	ZONE	55.13	56.39	56.1	55.88	56.34	51.3	48.23	56.1	56.59	43.36	34.53	
20060511	8445784	AEP	ZONE	ZONE	ZONE	54.72	53.41	53.61	52.25	54.32	49.55	46.46	53.64	54.16	37.24	32.3	
20060512	8445784	AEP	ZONE	ZONE	ZONE	46.2	42.44	44.42	43.66	41.69	37.36	34.1	42.12	48.02	34.09	31.61	
20060513	8445784	AEP	ZONE	ZONE	ZONE	38.9	37	36.28	36.88	36.43	34.64	34.69	44.43	44.43	33.16	26.78	
20060514	8445784	AEP	ZONE	ZONE	ZONE	32.02	31.18	30.88	31.41	33.47	36.8	38.25	43.98	42.11	33.16	26.78	
20060515	8445784	AEP	ZONE	ZONE	ZONE	48.16	46.98	46.24	46.18	42.87	40.86	39.69	46.24	45.03	33.68	28.62	
20060516	8445784	AEP	ZONE	ZONE	ZONE	43.29	42.13	41.67	42.34	39.46	38.81	36.21	43.29	44.43	33.55	26.58	
20060517	8445784	AEP	ZONE	ZONE	ZONE	55.77	51.79	49.63	52.36	48.29	47.19	44.55	53.22	51.77	36.5	28.86	
20060518	8445784	AEP	ZONE	ZONE	ZONE	44.04	43.52	41.81	41.59	42.31	39.24	37.65	43.7	42.67	32.88	28.49	
20060519	8445784	AEP	ZONE	ZONE	ZONE	45.02	46.21	44.88	44.28	42.84	38.15	35.94	43.02	43.72	32.31	30.37	
20060520	8445784	AEP	ZONE	ZONE	ZONE	43	41.29	40.32	38.12	39.48	37.21	34.3	46.7	47.9	31.99	25.55	
20060521	8445784	AEP	ZONE	ZONE	ZONE	31.38	31.06	31.29	32.34	33.38	34.85	34.54	44.44	43.93	34.44	25.08	
20060522	8445784	AEP	ZONE	ZONE	ZONE	44.8	45.51	45.52	44.13	43.62	38.52	35.81	43.76	42.19	32.07	28.97	
20060523	8445784	AEP	ZONE	ZONE	ZONE	47.54	47.25	46.16	45.28	44.47	41.59	39.17	47.63	46.54	32.95	28.78	
20060524	8445784	AEP	ZONE	ZONE	ZONE	53.03	53.73	53.34	54.64	54	48.74	42.66	50.25	54.03	33.44	27.41	
20060525	8445784	AEP	ZONE	ZONE	ZONE	56.52	57.3	57.52	59.22	57.23	50.31	43.14	51.32	53.1	38.75	29.71	
20060526	8445784	AEP	ZONE	ZONE	ZONE	60.03	60.93	59.32	56.28	56.34	48.89	42.63	46.62	49.4	38.41	28.71	
20060527	8445784	AEP	ZONE	ZONE	ZONE	51.73	53.5	55.11	52.03	54.58	48.46	41.16	47.9	47.18	35.83	25.37	
20060528	8445784	AEP	ZONE	ZONE	ZONE	55.41	57.98	61.57	64.81	64.13	55.75	53.58	59.22	54.24	40.68	28.69	
20060529	8445784	AEP	ZONE	ZONE	ZONE	58.49	61.54	64.77	68.75	69.58	61.43	55.74	63.62	57.7	45.41	34.74	
20060530	8445784	AEP	ZONE	ZONE	ZONE	66.01	70.56	71.34	70.8	65.61	57.61	53.66	54.67	53.98	43.04	33.82	
20060531	8445784	AEP	ZONE	ZONE	ZONE	68.12	72.96	74.58	77.39	71.06	60.88	56.71	55.05	51.81	42.57	33.62	
20060601	8445784	AEP	ZONE	ZONE	ZONE	71.09	70.52	71.42	70.11	67.49	61.66	58.42	58.39	54.89	41.84	30.08	
20060602	8445784	AEP	ZONE	ZONE	ZONE	69.73	60.8	57.36	54.8	52.87	48.83	43.06	43.89	43.11	32.85	26.42	
20060603	8445784	AEP	ZONE	ZONE	ZONE	37.16	37.67	37.81	37.87	37.85	33.68	30.77	32.26	34.1	30.52	26.26	
20060604	8445784	AEP	ZONE	ZONE	ZONE	35.78	35.81	37.24	38.21	38.86	37.29	36.83	36.41	38.2	34.11	26.03	
20060605	8445784	AEP	ZONE	ZONE	ZONE	61.4	57.57	58.14	59.58	62.19	55.37	52.85	50	49.89	35.59	26.76	
20060606	8445784	AEP	ZONE	ZONE	ZONE	54.89	60.07	60.95	64.23	63.34	55.49	50.39	50.72	50.73	33.84	28.2	
20060607	8445784	AEP	ZONE	ZONE	ZONE	53.17	55.77	57.36	59	57.12	52.47	48.08	50.49	51.84	34.52	26.63	

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Date	PnodeID	Name	Voltage	Equipment Type	Zone	1400	1500	1800	1700	1800	1900	2000	2100	2200	2300	2400
20060608	8445784	AEP		ZONE		55.93	54.91	55.88	57.91	55.88	52.57	47.59	49.91	50.35	34.73	27.21
20060609	8445784	AEP		ZONE		40.18	38.4	38.48	37.74	37.14	36.17	30.27	30.21	31.85	28.67	21.69
20060611	8445784	AEP		ZONE		35.05	34.86	35.84	36.72	37.88	36.7	34.4	39.6	45.13	32.67	23.15
20060612	8445784	AEP		ZONE		47.41	50.53	54.46	54.72	51.66	42.56	38.43	39.54	45.87	32.23	23.08
20060614	8445784	AEP		ZONE		49.36	52.82	51.1	54.51	50.84	51.16	39.51	39.09	41.22	30.66	24.92
20060615	8445784	AEP		ZONE		55.23	60.85	61.54	62.74	62.27	56.08	52.73	50.8	51.21	37.74	28.93
20060616	8445784	AEP		ZONE		74.45	80.53	76.53	80.46	77.88	69.8	63.98	62.05	61.25	50.01	41.23
20060618	8445784	AEP		ZONE		69.12	74.35	73.88	76.78	76.82	68.13	59.67	57.22	59.62	54.44	42.27
20060619	8445784	AEP		ZONE		77.42	80.96	84.26	84.1	82.28	72.86	58.7	55.49	54.87	49.88	32.36
20060620	8445784	AEP		ZONE		63.82	68.87	69.85	72.14	76.47	63.29	68.6	64.96	61.78	50.02	36.1
20060621	8445784	AEP		ZONE		78.03	82.36	80.33	82.36	82.19	72.4	62.5	66.4	61.51	51.83	35.55
20060622	8445784	AEP		ZONE		80.28	80.37	85.56	89.6	82.19	72.4	62.5	66.4	61.51	51.83	35.55
20060623	8445784	AEP		ZONE		69.33	72.87	73.04	72.62	65.97	56.63	51.63	50.09	50.68	43.43	31.07
20060624	8445784	AEP		ZONE		45.23	45.33	44.83	48.15	43.61	34.14	31.48	30.72	30.29	27.71	22.14
20060625	8445784	AEP		ZONE		35.47	35.71	36.83	41.71	41.07	36.57	32.66	32.43	33.46	28.01	25.12
20060626	8445784	AEP		ZONE		55.5	61.83	65.28	66.28	60.01	54.03	48.21	48.03	48.19	35.11	29.61
20060627	8445784	AEP		ZONE		55.15	57.89	59.11	57.92	53.18	48.58	45.35	44.98	45.19	34.87	28.85
20060628	8445784	AEP		ZONE		56.81	58.25	62.49	61.75	57.13	53.54	49.77	47.17	35.59	27.87	25.12
20060629	8445784	AEP		ZONE		58.72	63.89	64.22	67.12	65.13	55.19	49.69	48.03	48.14	36.38	28.73
20060630	8445784	AEP		ZONE		60.08	66.41	67.44	70.45	68.19	61.15	52.66	48.54	51.05	39.41	29.77
20060701	8445784	AEP		ZONE		48.3	52.82	53.93	58.91	63.93	51.38	45.08	43.08	44.23	35.41	29.75
20060702	8445784	AEP		ZONE		49.62	56.44	60.05	66.88	67.07	56.88	51.43	46.05	47.88	40.71	34.15
20060703	8445784	AEP		ZONE		68.67	71.82	74.73	76.55	78.28	68.91	62.51	61.46	60.29	42.75	34.67
20060704	8445784	AEP		ZONE		51.3	47.3	53.35	56.26	54.46	48.49	42.07	43.03	42.44	32.73	28.56
20060705	8445784	AEP		ZONE		52.78	57.92	61.32	61.21	57.29	51.74	44.86	44.2	42.94	33.37	30.44
20060706	8445784	AEP		ZONE		51.28	56.87	57.77	58.76	57.54	48.7	41.42	40.51	39.61	31.38	28.24
20060707	8445784	AEP		ZONE		44.93	52.38	51.02	52.16	51.71	43.36	38.58	35.53	35.44	32.62	29.31
20060708	8445784	AEP		ZONE		36.56	48.49	49.19	51.41	50.18	41.69	36.52	34.36	35.33	32.71	27
20060709	8445784	AEP		ZONE		40.53	50.55	50.97	54.8	55.18	48.93	45.18	42.82	44.84	36.35	22.86
20060710	8445784	AEP		ZONE		48.86	55.82	59.12	61.68	57.79	50.54	45.65	41.27	40.46	34.71	30.1
20060711	8445784	AEP		ZONE		65.26	68.62	71.73	75.32	67.81	56.7	51.1	49.59	44.63	36.8	32.18
20060712	8445784	AEP		ZONE		69.77	78.77	78.93	79.36	79.3	67.06	64.25	62.25	63	47.28	35.38
20060714	8445784	AEP		ZONE		69.84	75.09	77.53	79.25	77.62	67.07	66.76	66.68	66.68	57.29	41.86
20060715	8445784	AEP		ZONE		71.85	83.68	85.01	88.61	87.12	78.95	69.55	66.68	68.29	53.74	47.1
20060716	8445784	AEP		ZONE		90.02	96.15	100.03	101.98	101.06	100.44	94.15	89.38	88.68	75.05	55.26
20060717	8445784	AEP		ZONE		118.7	125.6	142.24	132.54	125.2	111.49	106.96	102	98.42	83.17	65.32
20060718	8445784	AEP		ZONE		90.18	101.13	102.17	97.4	85.61	78.08	69.39	72.28	68.42	52.98	48.52
20060719	8445784	AEP		ZONE		80.9	86.46	92.67	96.59	93.85	86.7	73.31	71.5	66.87	58.26	47.01
20060721	8445784	AEP		ZONE		67.09	78.13	87.87	89.11	81.76	72.73	62.89	61.57	59.9	48.01	40.35
20060722	8445784	AEP		ZONE		53.09	55.15	64.05	58.47	56.52	50.29	46.57	43.65	40.08	34.5	29.28
20060723	8445784	AEP		ZONE		41.48	46.25	48.11	50.32	55.96	62.95	61.93	57.77	48.95	37.9	28.08
20060724	8445784	AEP		ZONE		63.99	71.83	75.73	78.28	77.66	69.33	61.08	50.98	56.47	43.13	30.5
20060725	8445784	AEP		ZONE		80.8	85.85	92.47	93.74	88.55	80.45	73.76	72.51	69.92	52.71	50.5
20060726	8445784	AEP		ZONE		81.32	87.27	94.25	99.4	93.81	84.12	74.84	71.53	68.87	58.41	55.96
20060727	8445784	AEP		ZONE		83.1	90.89	94.86	96.89	92.81	78.3	73.86	71.34	69.87	57.83	51.41
20060728	8445784	AEP		ZONE		86.3	98.97	100.96	104.19	93.85	78.14	73.4	73.9	75.65	56.02	56.02
20060729	8445784	AEP		ZONE		78.62	83.04	91.23	97.76	90.32	83.59	78.2	76.23	74.8	62.99	54.78
20060730	8445784	AEP		ZONE		84.08	86.2	95.28	104.68	100.78	90.79	79.16	81.48	78.46	67.79	55.75

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Date	ProdId	Name	Voltage	Equipment Type	Zone	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
20060731	8445784	AEP	115.51	124.7	136.85	136.78	127.17	115.91	105.17	100.14	99.71	95.19	92.64			2400
20060801	8445784	AEP	152.44	159.39	160.58	177.91	164.83	151.32	134.18	133.16	117.02	85.58	71.58			
20060802	8445784	AEP	181.12	225.59	246.77	248.3	228.95	193.57	157.85	156.92	153.53	121.72	81.44			
20060803	8445784	AEP	148.58	156.1	165.59	163.31	138.13	133.67	126.87	124.14	121.35	84.14	53.44			
20060804	8445784	AEP	110.19	120.28	120.27	111.44	104.8	94.49	82.23	81.95	67.83	63.03	43.44			
20060805	8445784	AEP	63.75	69.17	75.18	85.76	83.92	81.85	65.65	65.42	63.34	48.83	34.88			
20060806	8445784	AEP	62.53	65.37	69.13	78.22	83.87	88.21	74.86	80.86	75.08	60.09	39.68			
20060807	8445784	AEP	86.72	93.3	100.54	99.67	87.15	81.37	78.24	73.16	71.35	56.91	44.49			
20060808	8445784	AEP	63.15	72.49	79.25	80.82	75.08	81.18	57.29	58.49	58.63	45.85	34.8			
20060809	8445784	AEP	68.85	78.6	86.06	89.86	83.97	70.72	63.93	62.13	60.63	46.31	34.44			
20060810	8445784	AEP	72.38	83.94	91.17	88.7	79.89	85.97	59.51	60.54	58.07	47.54	34.4			
20060811	8445784	AEP	78.28	79.66	87.19	89.19	80.5	85.47	58.07	56.33	57.03	41.98	32.07			
20060812	8445784	AEP	37.32	42.11	48.73	60.1	58.25	48.38	40.29	39.22	37.58	32.21	27.87			
20060813	8445784	AEP	37.2	40.44	46.98	55.76	64.59	51.9	41.44	43.75	47.72	33.69	29.57			
20060814	8445784	AEP	70.17	77.7	87.43	94.38	86.1	75.57	62.92	63.3	63.18	49.77	34.22			
20060815	8445784	AEP	62.51	69.95	71.83	74.76	75.19	61.46	55.79	57.33	56.33	39.51	32.2			
20060816	8445784	AEP	61.06	65.84	70.22	75.09	70.27	65.5	56.62	58.9	55.72	40.86	32.01			
20060817	8445784	AEP	60.32	66.19	76.11	87.23	81.59	64.16	55.7	58.56	59.77	41.72	31.83			
20060818	8445784	AEP	60.9	68.73	75.95	76	70.6	57.99	49.91	53.41	54.2	38.5	33.3			
20060819	8445784	AEP	53.39	53.87	58.46	65.46	61.12	54.68	46.67	49.43	48.73	38	33.42			
20060820	8445784	AEP	49.63	51.51	56.31	62.67	62.81	56.75	47.41	54.33	50.01	37.96	31.1			
20060821	8445784	AEP	62.83	69.41	76.66	80.5	80.66	68.38	57.78	60.82	58.8	44.43	32.2			
20060822	8445784	AEP	58.08	65.02	69.44	70.84	70.3	63.36	54.13	55.99	55.59	40.85	31.9			
20060823	8445784	AEP	62.83	65.02	71.3	78.63	75.56	64.8	54.12	59.56	50.18	38.68	35			
20060824	8445784	AEP	66.73	74.15	78.23	86.73	80.84	69.99	64.47	63.68	60.38	45.3	35.34			
20060825	8445784	AEP	69.3	77.72	87.48	93.11	89.43	71.86	67.49	68.35	65.23	52.58	43.51			
20060826	8445784	AEP	73.03	79.34	88.5	94.4	91.07	71.87	66.89	63.99	66.11	55.02	37.78			
20060827	8445784	AEP	56.16	58.67	64.45	70.8	71.82	61.84	59.31	63.13	63.72	45.55	34.38			
20060828	8445784	AEP	73.78	80.91	86.19	93.05	85.63	73.61	64.04	66.13	65.01	51.41	38.44			
20060829	8445784	AEP	62.23	66.8	68.81	68.78	67.63	58.67	53.41	58.9	55.93	41.09	34.34			
20060830	8445784	AEP	50.95	54.35	56.27	58.86	54.29	48.95	45.6	50.4	49.71	32.61	28.4			
20060831	8445784	AEP	48.56	52.9	55.06	59.98	50.66	43.97	39.36	46.14	44.44	30.43	26.14			
20060901	8445784	AEP	40.3	42.2	40.51	40.32	34.41	33.09	32.17	33.66	32.28	28.17	24.29			
20060902	8445784	AEP	32.21	31.92	31.48	31.9	30.7	31.06	28.66	30.7	32	26.71	21.86			
20060903	8445784	AEP	29.77	29.7	29.88	31.01	30.8	30.25	29.5	31.55	31.37	26.82	24.09			
20060904	8445784	AEP	32.25	30.36	31.38	33	33.16	31.72	30.08	42.44	44.77	28.43	25.25			
20060905	8445784	AEP	50.76	52.18	53.25	53.19	47.34	43.25	43.2	54.83	43.56	31.18	25.89			
20060906	8445784	AEP	42.82	49.89	48.9	52	50.73	42.11	42.6	48.83	42.07	31.07	25.08			
20060907	8445784	AEP	49.33	50.19	54.5	51.1	51.79	44.42	47.01	46.8	44.7	32.3	27.63			
20060908	8445784	AEP	53.58	55.54	58.33	56.07	51.86	48.65	47.08	48.18	45.28	32.71	26.92			
20060909	8445784	AEP	44.88	48.71	47.63	50.48	48.88	46.81	44.75	48.85	44.8	33.88	25.55			
20060910	8445784	AEP	33.34	34.4	35.3	34.62	33.5	32.63	36.85	41.32	38.97	30.36	27.08			
20060911	8445784	AEP	50.45	54.6	55.88	57.31	49.98	43.84	48.67	50.58	45.2	32.82	28.89			
20060912	8445784	AEP	43.32	45.89	45.75	45.42	42.77	37.82	41.79	48	37.43	29.74	26.97			
20060913	8445784	AEP	40.33	40.3	39.56	40.15	38.05	35.17	39.35	46.92	37.38	29.49	26.05			
20060914	8445784	AEP	47.8	48.32	47.85	48.71	48.04	44.75	49.31	53.06	43.06	34.96	28.92			
20060915	8445784	AEP	43.37	45.88	45.32	46.68	42.78	38.69	43.08	45.77	38.18	29.32	25.6			
20060916	8445784	AEP	37.73	40.75	40.46	40.55	40.03	38.34	42.16	44.58	41.18	33.67	28.21			
20060917	8445784	AEP	37.51	40.33	43.58	47.14	44.4	38.51	49.79	51.41	46.03	34.69	27.02			
20060918	8445784	AEP	47.89	50.13	50.01	51.73	50.84	42.08	44.62	48.76	47.82	34.45	27.32			
20060919	8445784	AEP	38.86	39.26	38.28	37.27	38.36	33.5	36.95	42.01	34.37	28.59	25.17			
20060920	8445784	AEP	37.81	38.31	36.19	38.32	37.74	33.41	38.38	42.27	35.17	28.14	24.34			
20060921	8445784	AEP	38.91	39.03	39.03	38.92	37.65	33.86	42.93	45.47	39.54	30.77	25.99			

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Date	ProdID	Name	Voltage	Equipment Type	Zone	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
20060922	8445784	AEP		ZONE		38.06	38.16	38.76	38.33	35.08	38.24	38.41	35.81	29.83	25.09	
20060923	8445784	AEP		ZONE		41.12	37.57	39.1	41.09	38.74	38.34	46.69	45.8	43.26	31.5	27.15
20060924	8445784	AEP		ZONE		34.91	34.69	34.98	34.01	32.77	30.42	40.46	40.2	31.99	28.02	23.87
20060925	8445784	AEP		ZONE		39.89	38.73	38.56	38.31	37.66	33.42	40.21	44.63	35.35	27.86	25.12
20060926	8445784	AEP		ZONE		37.86	36.87	37.01	37.15	36.29	33.13	40.35	45.41	35.72	27.89	24.62
20060927	8445784	AEP		ZONE		38.42	37.88	36.25	36.47	35.96	32.98	44.19	45.36	35.95	28.4	25.22
20060928	8445784	AEP		ZONE		38.05	38.75	38.18	37.18	36.93	34.4	44.42	44.5	35.89	28.75	25.25
20060928	8445784	AEP		ZONE		34.21	33.2	31.34	30.29	28.17	26.55	34.37	34.75	30.9	25.94	24.63
20060930	8445784	AEP		ZONE		28.11	27.24	26.89	26.92	26.68	26.46	28.79	31.8	27.43	28.41	24.33
20061001	8445784	AEP		ZONE		24.91	25	25.07	25.17	25.02	26.16	31.16	38.45	28.38	25.55	22.71
20061002	8445784	AEP		ZONE		35.03	36.26	38.32	36.93	35.07	32.36	38.63	40.85	34.33	27.8	24.46
20061003	8445784	AEP		ZONE		41.91	43.56	45.72	45.58	42.57	42.05	44.76	46.69	36.56	28.84	25.63
20061004	8445784	AEP		ZONE		37.21	37.98	38.17	38.28	35.28	32.25	40.51	40.71	30.3	28.63	25.16
20061005	8445784	AEP		ZONE		42.28	40.83	43.27	41.78	37.28	36.74	50.8	52.11	38.04	28.27	25.27
20061006	8445784	AEP		ZONE		42.79	41.48	39.18	38.12	37.59	46.74	46.74	46.24	38.07	28.45	24.73
20061007	8445784	AEP		ZONE		29.55	28.04	27.31	27.28	27.48	29.18	38.61	42.26	31.04	26.35	24.28
20061008	8445784	AEP		ZONE		26.69	26.37	25.85	26.08	26.95	27.85	39.96	43.26	31.97	28.38	24.21
20061009	8445784	AEP		ZONE		40.62	40.04	38.54	36.82	37.1	38.72	51.13	49.81	40.89	29.5	24.72
20061010	8445784	AEP		ZONE		38.44	39.26	38.24	38.02	36.13	38.01	52.09	48.61	42.04	27.92	25.11
20061011	8445784	AEP		ZONE		41.51	41.34	40.51	41.19	40.46	41.47	54.33	52.43	39.98	30.64	25.49
20061012	8445784	AEP		ZONE		39.63	39.3	39.35	41.09	40.32	45.36	60.49	58.1	43.74	31.36	25.92
20061013	8445784	AEP		ZONE		36.57	33.37	32.25	32.63	33.55	39.56	46.61	46.75	34.1	29.39	28.95
20061014	8445784	AEP		ZONE		30.42	28.71	27.87	27.69	29.4	33.64	46.11	40.94	37.95	29.72	28.17
20061015	8445784	AEP		ZONE		26.45	26.15	25.98	25.99	27	38.71	50.78	43.95	35.95	29.73	27.03
20061016	8445784	AEP		ZONE		37.88	37.21	35.48	35.86	36.44	44.66	54.4	49.69	39.34	33.25	26.47
20061017	8445784	AEP		ZONE		38.64	38.59	37.52	38.54	40.19	43.57	53.85	49.72	40.36	28.54	25.63
20061018	8445784	AEP		ZONE		47.86	47.46	47.98	47.42	48.95	50.71	67.04	57.36	49.66	34.68	28.82
20061019	8445784	AEP		ZONE		49.76	49.04	47.87	45.28	48.13	51.28	68.26	59.75	48.94	32.21	27.49
20061020	8445784	AEP		ZONE		50.53	49.68	43.79	43.34	42.6	48.01	57.02	49.69	44.97	31.91	27.33
20061021	8445784	AEP		ZONE		29.9	27.74	28.78	28.64	29.12	35	41.8	39.67	38.29	29.45	28.33
20061022	8445784	AEP		ZONE		30.45	30	29.28	31.07	30.3	45.4	56.47	49.35	41.39	31.05	29.41
20061023	8445784	AEP		ZONE		59.38	55.27	54.29	54.94	58.11	69.43	84.26	74.39	61.2	50.23	35.01
20061024	8445784	AEP		ZONE		63.79	61.08	57.89	59.76	63.08	79.01	92.99	78.82	67.98	57.09	44.87
20061025	8445784	AEP		ZONE		55.31	50.6	47.69	48.33	54.01	68.75	85.91	73.3	63.22	52.53	40.89
20061026	8445784	AEP		ZONE		49.8	45.42	43.24	43.88	49.55	64.88	77.94	69.32	56.23	40.51	36.33
20061027	8445784	AEP		ZONE		50.91	46.62	43.04	42.88	48.47	60.65	78	68.93	52.59	38.91	29.39
20061028	8445784	AEP		ZONE		32.24	28.88	27.78	28.41	32.86	44.32	56.52	46.45	40.94	29.98	27.92
20061029	8445784	AEP		ZONE		26.25	25.99	26.26	27.82	40.99	55.97	57.2	40.38	30.74	27.84	23.24
20061030	8445784	AEP		ZONE		43.92	41.37	40.84	42.86	52.62	68.74	67.27	50.11	40.34	26.15	24.85
20061101	8445784	AEP		ZONE		51.53	48.69	47.46	52.52	70.3	88.97	78.48	61.75	51.36	40.21	27.97
20061102	8445784	AEP		ZONE		50.82	46.97	45.97	52.18	73.25	80.11	82.1	67.89	59.45	45.58	33.55
20061103	8445784	AEP		ZONE		52.86	49.79	48.16	53.8	78.68	95.32	88.81	71.01	64.68	53.99	47.9
20061104	8445784	AEP		ZONE		52.28	42.13	41.1	46.19	68.38	83.65	76.68	67.12	62.11	51.66	42.7
20061105	8445784	AEP		ZONE		30.85	28.4	28.4	34.05	66.39	80.64	77.84	68.99	62.62	44.81	35.98
20061106	8445784	AEP		ZONE		57.67	53.1	49.89	58.52	80.78	84.26	88.35	78.21	66.28	56.37	40.14
20061107	8445784	AEP		ZONE		51	46.38	44.23	52.54	72.21	82.57	73.21	62.45	56.46	41.57	27.92
20061108	8445784	AEP		ZONE		50.78	45.22	42.04	51.4	69	75.83	67.88	53.55	48.06	31.73	27.22
20061109	8445784	AEP		ZONE		47.08	41.41	39.32	45.23	67.11	76.94	68.74	56.32	41.74	27.44	25.07
20061110	8445784	AEP		ZONE		56.81	51.09	47.61	54.57	75.5	79.19	68.84	57.34	42.49	29.85	26.1
20061111	8445784	AEP		ZONE		32.15	28.96	28.13	35.27	54.16	60.13	50.11	39.79	37.7	27.55	26.59
20061112	8445784	AEP		ZONE		26.13	25.5	25.53	32.8	59.28	63.11	57.36	47.36	35.88	27.45	25.23
20061113	8445784	AEP		ZONE		50.35	45.77	43.62	50	67.79	78.8	71.47	57.64	48.53	35.22	29.52

23.6

DAY AHEAD

Date	ProdId	Name	Voltage	Equipment Type	Zone	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
20061114	8445784	AEP	ZONE	ZONE	51.3	43.92	42.28	48.28	70.72	77.63	65.59	59.79	48.41	32.04	28.8	
20061115	8445784	AEP	ZONE	ZONE	52.17	45.88	45.23	51.91	73.87	82.71	69.81	57.91	47.11	28.88	27.17	
20061116	8445784	AEP	ZONE	ZONE	52.34	44.8	44.2	50.97	66.74	81.7	70.89	60.19	52.03	30.71	26.37	
20061117	8445784	AEP	ZONE	ZONE	59.76	49.5	46.53	52.35	65.38	80.99	70.18	60.9	54.45	38.75	35.44	
20061118	8445784	AEP	ZONE	ZONE	33.36	29.66	28.21	36.57	61.29	69.15	63	55.7	50.37	30.57	29.76	
20061119	8445784	AEP	ZONE	ZONE	32.54	30.52	30.04	37.87	65.59	75	73.78	67.39	59.94	42.07	29.78	
20061120	8445784	AEP	ZONE	ZONE	57.59	49.67	48.34	53.57	74.87	85.16	72.78	67.15	62.29	45.9	31.41	
20061121	8445784	AEP	ZONE	ZONE	50.82	43.07	41.36	47.11	75.22	91.24	80.74	61.92	62.24	42.83	30.88	
20061122	8445784	AEP	ZONE	ZONE	39.47	34.38	29.22	35.47	54.99	63.96	54.56	48.93	41.25	28.67	24.42	
20061123	8445784	AEP	ZONE	ZONE	26.2	24.09	23.55	25.07	30.36	29.75	29.52	28.77	24.76	23.54	23.54	
20061124	8445784	AEP	ZONE	ZONE	26.2	25.05	24.89	27.59	37.05	51.66	44.68	38.46	34.28	27.75	22.57	
20061125	8445784	AEP	ZONE	ZONE	24.36	23.72	23.65	24.72	30.1	32.72	32.62	28.49	27.83	24.8	22.76	
20061126	8445784	AEP	ZONE	ZONE	21.69	21.14	21.39	23.38	34.63	44.35	42.47	36.57	29.48	25.17	22.37	
20061127	8445784	AEP	ZONE	ZONE	28.87	27.65	26.93	30.71	45.44	53.1	47.7	38.63	34.13	25.82	22.05	
20061128	8445784	AEP	ZONE	ZONE	27.07	26.44	25.93	31.56	53.88	61.71	43.69	34.89	29.63	25.97	21.35	
20061129	8445784	AEP	ZONE	ZONE	28.9	28.79	28.54	32.14	61.82	64.72	47.88	40.04	32.89	28.03	22.27	
20061130	8445784	AEP	ZONE	ZONE	34.36	33.07	33.68	37.98	73.37	81.11	62.16	52.11	41.1	27.41	23.37	
20061201	8445784	AEP	ZONE	ZONE	35.55	34.33	36.34	41.93	76.41	73.24	59.72	46.44	41.39	30.98	26.74	
20061202	8445784	AEP	ZONE	ZONE	30.53	28.39	28.17	35.16	75.42	79.58	65.42	56.81	48	33.42	28.16	
20061203	8445784	AEP	ZONE	ZONE	26.29	25.61	25.46	30.7	69.47	77.37	66.65	58.24	45.9	31.11	26.04	
20061204	8445784	AEP	ZONE	ZONE	50.23	44.08	42.48	56.55	90.68	102.71	84.21	82.73	71.44	53.96	38.33	
20061205	8445784	AEP	ZONE	ZONE	43.51	37.49	35.05	50.85	77.31	96.89	83.03	75.12	67.21	51.05	35.71	
20061206	8445784	AEP	ZONE	ZONE	39.87	34.52	31.87	43.08	74.99	87.74	73.28	63.84	59.89	41.57	27.3	
20061207	8445784	AEP	ZONE	ZONE	49.26	44.45	41.27	56.87	79.65	95	83.12	75.6	70.28	56.66	39.05	
20061208	8445784	AEP	ZONE	ZONE	48.85	42.94	40.09	53.17	77.69	91.11	75.91	68.59	67.36	57.64	41.27	
20061209	8445784	AEP	ZONE	ZONE	28.47	27.56	26.65	28.65	51.04	76.81	57.92	52.47	43.87	30.21	30.1	
20061210	8445784	AEP	ZONE	ZONE	25.36	24.4	24.91	27.21	49.59	61.97	50.87	46.81	36.92	29.13	26.93	
20061211	8445784	AEP	ZONE	ZONE	30.66	28.62	27.86	31.67	84.86	98.51	72.8	61.8	54.81	31.19	26.39	
20061212	8445784	AEP	ZONE	ZONE	27.72	26.95	27.06	29.25	59.31	65.47	55.87	48.98	36.87	26.31	24.96	
20061213	8445784	AEP	ZONE	ZONE	27.05	26.29	26.06	28.41	61.38	70.57	61.55	51.18	37.56	25.74	24.7	
20061214	8445784	AEP	ZONE	ZONE	28.99	26.66	26.21	29.11	57.06	67.86	56.8	48.8	38.14	26.42	24.32	
20061215	8445784	AEP	ZONE	ZONE	26.72	25.98	26.11	28.29	49.24	63.07	44.88	39.87	32.65	25.57	23.81	
20061216	8445784	AEP	ZONE	ZONE	23.55	23.15	22.78	23.83	31.6	44.39	33.63	31.75	31.09	25.09	22.2	
20061217	8445784	AEP	ZONE	ZONE	23.01	22.81	22.82	23.92	33.36	40.65	34.74	33.86	29.07	24.63	22.51	
20061218	8445784	AEP	ZONE	ZONE	28.7	27.7	27.7	31.07	54.91	68.5	54.52	55.34	39.66	26.9	23.43	
20061219	8445784	AEP	ZONE	ZONE	29.93	28.71	29.07	33.88	66.69	83.22	68.74	63.79	56.46	31.6	27.95	
20061220	8445784	AEP	ZONE	ZONE	30.81	29.34	29.38	35.39	58.46	77.94	63.66	59.47	49.15	32.45	26.3	
20061221	8445784	AEP	ZONE	ZONE	28.01	27.36	27.76	29.3	56.45	70.57	60.58	56.25	46.78	27.43	24.98	
20061222	8445784	AEP	ZONE	ZONE	25.53	25.25	25.2	25.77	37.45	48.33	42.13	37.68	31.18	24.88	22.57	
20061223	8445784	AEP	ZONE	ZONE	22.14	21.49	21.22	22.29	32.26	31.88	27.67	27.3	25.82	23.11	20.68	
20061224	8445784	AEP	ZONE	ZONE	21.84	21.15	21.01	22.42	28.1	27.32	25.91	26.14	25.39	23.08	21.42	
20061225	8445784	AEP	ZONE	ZONE	21.81	21.36	21.39	22.38	25.86	26.46	25.15	25.84	24.52	22.94	21.43	
20061226	8445784	AEP	ZONE	ZONE	25.85	24.65	24.42	26.74	50.24	65.54	57.57	53.31	41.64	25.74	23.25	
20061227	8445784	AEP	ZONE	ZONE	25.49	24.93	24.15	25.47	45.03	57.44	49.44	42.57	33.4	25.7	23.23	
20061228	8445784	AEP	ZONE	ZONE	25.95	24.91	24.54	27	48.71	54.59	47.56	41.29	35.21	25.74	23.55	
20061229	8445784	AEP	ZONE	ZONE	23.8	23.5	23.41	24.33	38.92	49.28	41.53	34.74	26.48	24.1	23.2	
20061230	8445784	AEP	ZONE	ZONE	22.64	22.18	21.94	23.46	34.51	40.62	37.4	33.52	26.06	23.34	22.11	
20061231	8445784	AEP	ZONE	ZONE	22.93	22.73	22.71	24.11	28.78	34.88	28.27	26.24	24.67	23.17	21.88	

REAL TIME

Date	ProcidID	Name	Voltage	Equipment Type	Zone
20060302	8445784	AEP	100	ZONE	24.9
20060303	8445784	AEP	200	ZONE	19.0632
20060304	8445784	AEP	300	ZONE	26.42079
20060305	8445784	AEP	400	ZONE	9.673114
20060306	8445784	AEP	500	ZONE	28.31873
20060307	8445784	AEP	600	ZONE	40.114386
20060308	8445784	AEP	700	ZONE	37.19553
20060309	8445784	AEP	800	ZONE	44.70595
20060310	8445784	AEP	900	ZONE	51.61932
20060311	8445784	AEP	1000	ZONE	48.0782
20060312	8445784	AEP	1100	ZONE	49.57617
20060313	8445784	AEP	1200	ZONE	49.57617
20060314	8445784	AEP	1300	ZONE	43.9194
20060315	8445784	AEP	1400	ZONE	42.49094
20060316	8445784	AEP	1500	ZONE	42.49094
20060317	8445784	AEP	1600	ZONE	42.49094
20060318	8445784	AEP	1700	ZONE	42.49094
20060319	8445784	AEP	1800	ZONE	42.49094
20060320	8445784	AEP	1900	ZONE	42.49094
20060321	8445784	AEP	2000	ZONE	42.49094
20060322	8445784	AEP	2100	ZONE	42.49094
20060323	8445784	AEP	2200	ZONE	42.49094
20060324	8445784	AEP	2300	ZONE	42.49094
20060325	8445784	AEP	2400	ZONE	42.49094
20060326	8445784	AEP	2500	ZONE	42.49094
20060327	8445784	AEP	2600	ZONE	42.49094
20060328	8445784	AEP	2700	ZONE	42.49094
20060329	8445784	AEP	2800	ZONE	42.49094
20060330	8445784	AEP	2900	ZONE	42.49094
20060331	8445784	AEP	3000	ZONE	42.49094
20060401	8445784	AEP	3100	ZONE	42.49094
20060402	8445784	AEP	3200	ZONE	42.49094
20060403	8445784	AEP	3300	ZONE	42.49094
20060404	8445784	AEP	3400	ZONE	42.49094
20060405	8445784	AEP	3500	ZONE	42.49094
20060406	8445784	AEP	3600	ZONE	42.49094
20060407	8445784	AEP	3700	ZONE	42.49094
20060408	8445784	AEP	3800	ZONE	42.49094
20060409	8445784	AEP	3900	ZONE	42.49094
20060410	8445784	AEP	4000	ZONE	42.49094
20060411	8445784	AEP	4100	ZONE	42.49094
20060412	8445784	AEP	4200	ZONE	42.49094
20060413	8445784	AEP	4300	ZONE	42.49094
20060414	8445784	AEP	4400	ZONE	42.49094
20060415	8445784	AEP	4500	ZONE	42.49094
20060416	8445784	AEP	4600	ZONE	42.49094
20060417	8445784	AEP	4700	ZONE	42.49094
20060418	8445784	AEP	4800	ZONE	42.49094
20060419	8445784	AEP	4900	ZONE	42.49094
20060420	8445784	AEP	5000	ZONE	42.49094
20060421	8445784	AEP	5100	ZONE	42.49094
20060422	8445784	AEP	5200	ZONE	42.49094
20060423	8445784	AEP	5300	ZONE	42.49094
20060424	8445784	AEP	5400	ZONE	42.49094
20060425	8445784	AEP	5500	ZONE	42.49094
20060426	8445784	AEP	5600	ZONE	42.49094
20060427	8445784	AEP	5700	ZONE	42.49094
20060428	8445784	AEP	5800	ZONE	42.49094
20060429	8445784	AEP	5900	ZONE	42.49094
20060430	8445784	AEP	6000	ZONE	42.49094
20060501	8445784	AEP	6100	ZONE	42.49094

Kentucky Power Company

REQUEST

Are there any equipment additions or modifications required to participants metering systems contemplated or anticipated under the pilot program? If so, please provide a detailed explanation of what types of additions or modifications are necessary along with the costs associated with such additions or modifications.

RESPONSE

No changes to the customer's metering system are required to participate.

WITNESS: Larry C Foust

Kentucky Power Company

REQUEST

Please reference the Foust testimony, at page 5, starting at line 5 through line 6.

- A. Please provide a detailed explanation of how real-time pricing information will be disseminated to participants.
- B. In addition to information regarding real-time pricing, what other information will be available to participants? (i.e., current or real-time consumption data, previous consumption data, daily, yearly or monthly consumption data or a running total)?
- C. Please provide a detailed explanation of when real-time pricing data will be posted for view/use by participants and when such pricing will take effect.
- D. Please provide a detailed explanation of why final settlement prices may be delayed several days.
- E. Based upon the last 12 calendar months, how much has final settlement prices deviated from real-time prices as listed by PJM?
- F. Base upon the last five (5) years, how much have final settlement prices deviated from real-time prices as listed by PJM?
- G. If the hourly prices are posted near the end of the business day, does the company believe that customers will be able to respond adequately to the pricing signal? If so, why?

RESPONSE

A. Kentucky Power's sister operating company, Public Service of Oklahoma, currently offers a real-time pricing program. The web-based system used to disseminate hourly prices to Oklahoma customers is known as the Customer Communications System (CCS). Kentucky Power plans to use CCS to provide Kentucky real-time customers with hourly pricing information. Real-time pricing customers can log into CCS using their ID/password to view the prices and/or elect to receive an e-mail containing the forecasted day-ahead hourly prices.

B. Kentucky Power plans to display the real-time customer's consumption data collected hourly from the revenue meter.

C. PJM forecasts on a day-ahead basis the hourly price for electricity at 3000 points in the PJM system. The prices are referred to as Locational Marginal Pricing (LMP). The day-ahead LMPs are generally issued by 4pm every PJM business day. Day-ahead prices are posted every day of the year. Kentucky Power plans to provide a day-ahead hourly price to its real-time customers shortly after PJM releases their day-ahead LMPs. Every hour, PJM calculates the average LMP for the previous hour. Kentucky Power plans to calculate the average real-time price for the previous hour and overlay it on the day-ahead real-time price for that hour on CCS display. Generally around noon the next business day, PJM settles the previous day's LMPs. The settled LMP will be used to calculate the real-time price used for billing. CCS will be updated to reflect these prices.

D. PJM does not make settlement hourly Locational Marginal Prices (LMPs) available until the business day following the operating hour. In the event that an operating hour occurs on a day preceding a weekend or preceding a holiday weekend where the holiday occurs immediately before or subsequent to a weekend, the delay in PJM posting the desired LMP(s) can be several days.

E. AEP is not able to determine the frequency or magnitude of final PJM settlement LMP deviations versus the LMPs PJM initially posts on the first business day following an operating hour. However, through the stakeholder process, PJM has indicated that corrections to LMPs can and do occur.

F. See the Company's response to AG 1st Set, Item No. 5E.

G. As mentioned in Response C, the day-ahead LMPs are generally issued by 4pm every PJM business day. Kentucky Power plans to provide a day-ahead hourly price to its real-time customers shortly after PJM releases their day-ahead LMPs. This should give the customer an early indication of real-time hourly prices in advance. Whether a customer can respond adequately to the information depends largely on the individual customer's business operations and knowledge of the electrical energy market. The key is whether a customer can modify its operations on an hour-to-hour basis as real-time prices change in the current day.

WITNESS: Larry C Foust

Kentucky Power Company

REQUEST

Please reference the Foust testimony, at page 5, starting at line 13 through line 23.

- A. Please provide a detailed estimate of the anticipated administrative costs of the program.
- B. Which of these costs are independent of the number of participants? Which of these costs are incremental costs that will be incurred based on the number of participants?
- C. What costs does the company expect to recover through the proposed administration fee?
- D. What costs does the company expect to recover through its base rates?
- E. As participants are to be charged for a portion of load they designate at their current tariff rate plus any portion of additional load they designate as subject to real-time pricing, does the possibility exist for over or under recovery from individual participants? If so, how does the company propose to allocate such over or under recovered funds?

RESPONSE

(A) The Company has not prepared a detailed estimate of the anticipated administrative costs. Because the tariff is being offered at the direction of the Commission and as a pilot project with limited availability, the Company does not anticipate developing a detailed estimate until the Commission finally approves the project and its features.

(B) Incremental costs for billing customers is dependent upon the number of customers participating. Other costs such as customer communication system improvements or program information materials would be independent from the number of customers participating.

(C & D) The proposed administration fee was not set to recover any certain costs. It was set at a level which the Company felt would not discourage customers from participating in the program. Any costs that the Company over- or under-recovers will be deferred and the Company will seek an adjustment through a later proceeding.

(E) No, the Company believes that individual participants will pay for the costs they cause the Company to incur. The current tariff rates are cost based and the price paid for usage under real-time pricing reflects the costs customers would incur if they purchased the electricity in the competitive market.

WITNESS: Larry C Foust

Kentucky Power Company

REQUEST

Is there a point when the company believes the lack of adequate participation in the program would require its modification or cancellation (i.e., a point where the lack of participation would make the program unfeasible or unreasonably burdensome)?

RESPONSE

The Company is unable to respond at this time, however any modifications or cancellation of the program would need the approval of the Commission.

WITNESS: Larry C Foust

Kentucky Power Company

REQUEST

What steps or efforts will the company utilize to educate or otherwise inform Pilot participants on ways to reduce energy consumption or shift their load? Will these efforts be continuous and on going in nature?

RESPONSE

Customers that are eligible to participate in the program are large sophisticated users of electricity and usually employ energy managers to best match their company's operations with the Kentucky Power's rate offerings. The Company does not have the basis to inform customers of their optimal operational strategy.

WITNESS: Larry C Foust

Kentucky Power Company

REQUEST

Please describe the anticipated demographics of the expected pilot program participants (i.e., industry type, size, location, etc.)

RESPONSE

The Company does not know what customers will participate in the program. However the type of customers that make up the QP and CIP-TOD tariffs include, among other types, coal mining, chemicals and petroleum, retail stores, hospitals, electric, gas and sanitary facilities, primary metals and food, textiles and apparel.

WITNESS: Larry C Foust

Kentucky Power Company

REQUEST

Did the company consider splitting the program costs between ratepayers and shareholders?

RESPONSE

No. The Company believes that mandated programs should be funded by ratepayers.

WITNESS: Errol K. Wagner, Larry C Foust

Kentucky Power Company

REQUEST

What type of communication technology will be deployed as part of the pilot to monitor customers' electrical usage? Is the communication technology to be utilized failsafe with no possibility of error? If not, what are the precautions undertaken by the company to eliminate any possible errors?

RESPONSE

Customer's electrical usage information will be collected by Kentucky Power hourly via a telephone line or cellular phone by its interval usage metering interrogation and validation system (MV90). The stored usage interval data is accessed by the Customer Communications System (CCS) for presentation to the customer. Meters and communications system can fail, interrupting the availability of usage information. Interval data meters are designed to store information for about 33 days, which can be accessed when communications are re-established. This information will then be available for customer viewing. Both MV90 and CCS have been considered business critical systems for which disaster recovery schemes have been designed.

WITNESS: Larry C Foust

Kentucky Power Company

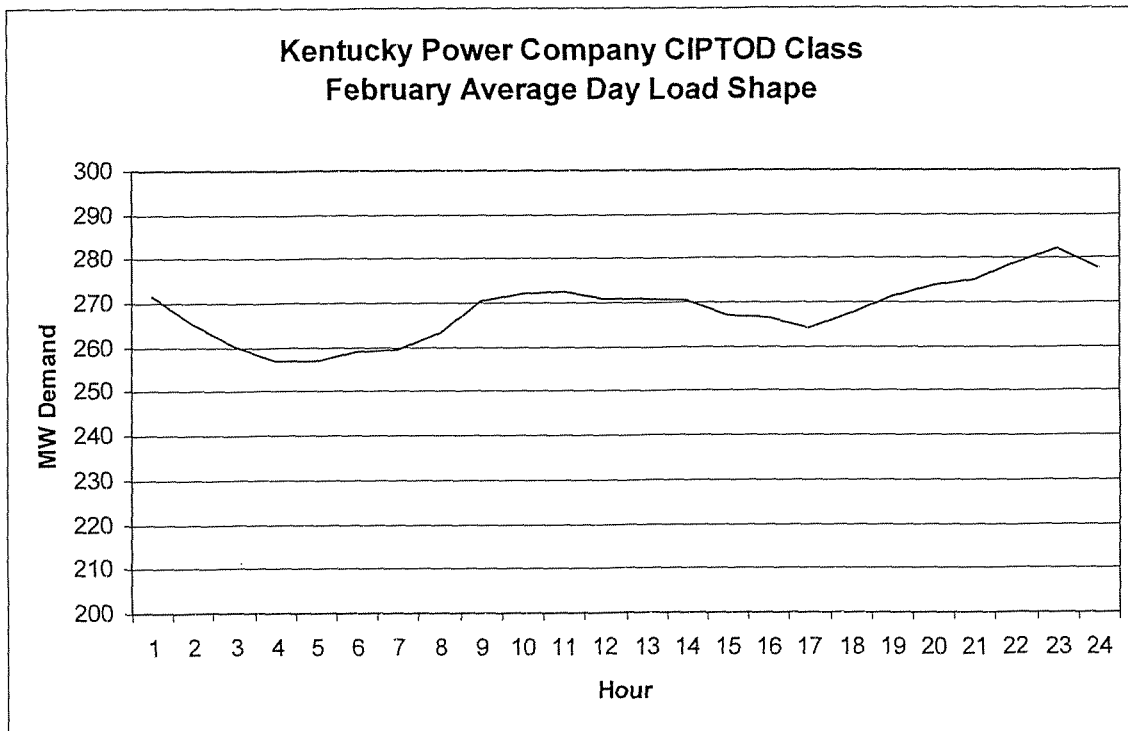
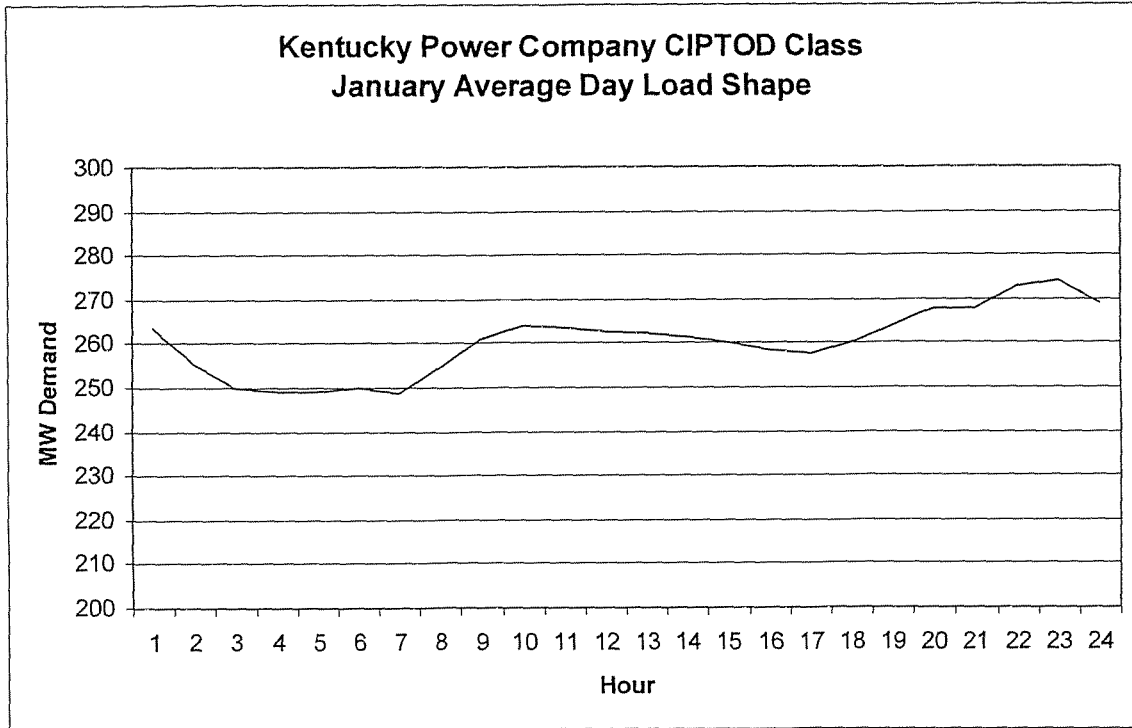
REQUEST

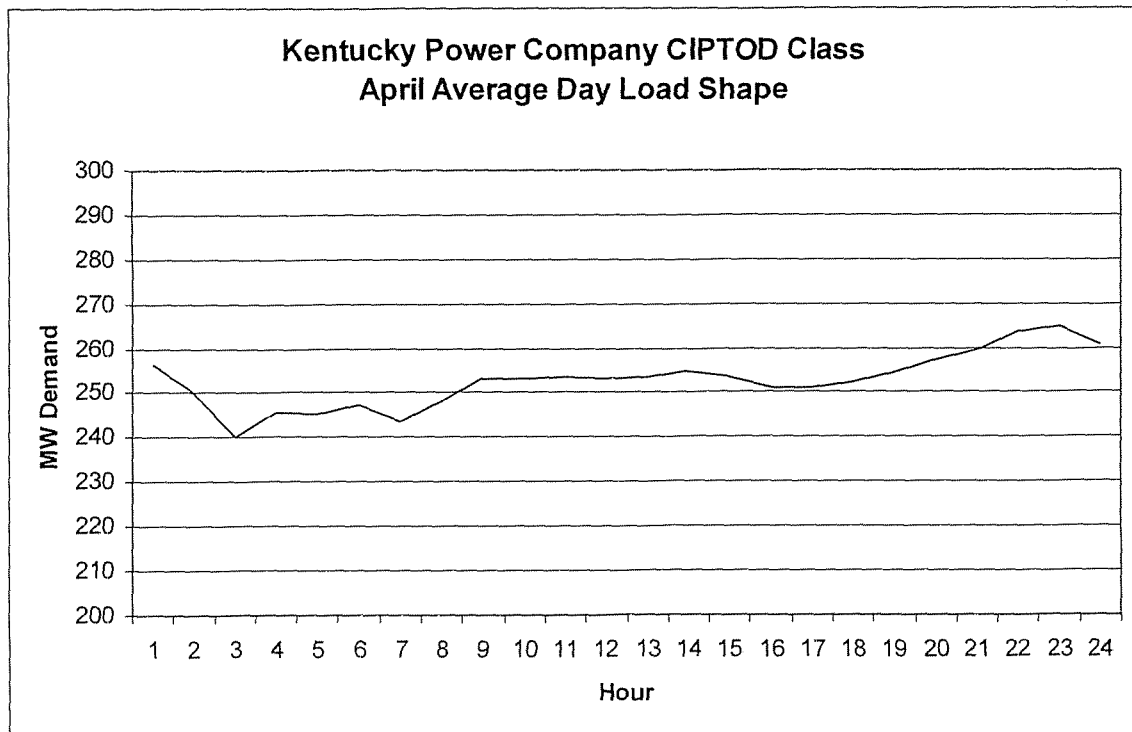
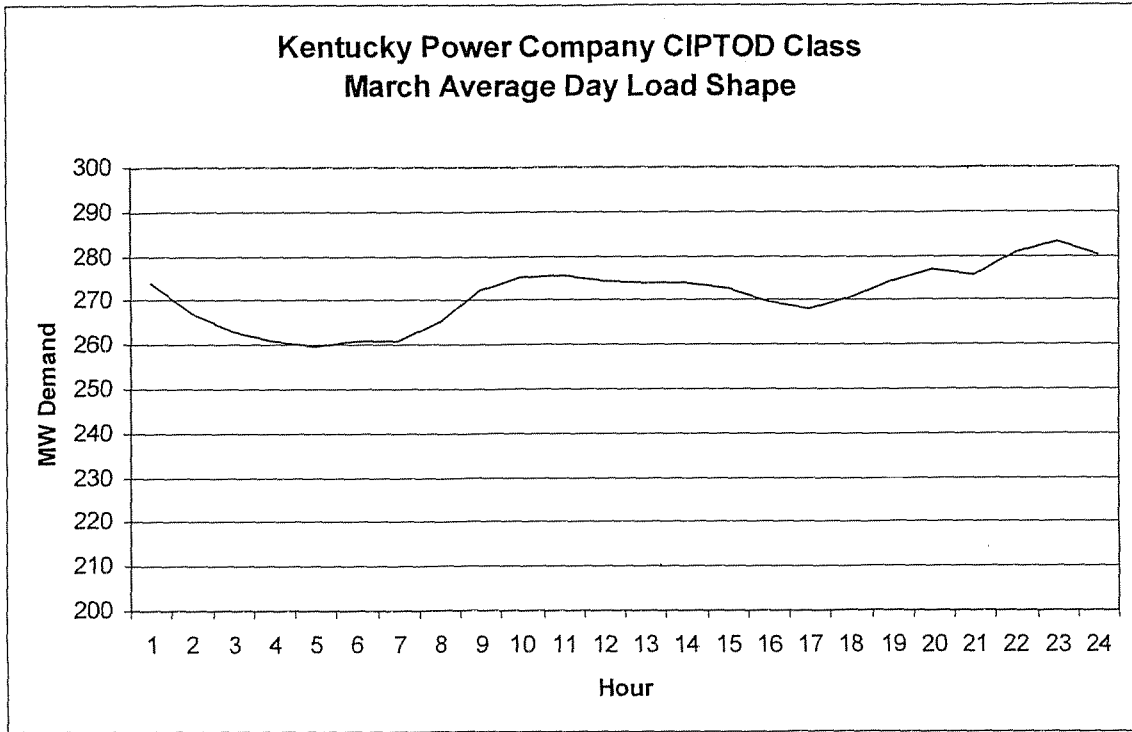
Please provide a graph, for each month of the year, demonstrating the average daily usage on the hour for all 24 hours for: 1) Q.P. tariff customers and 2) C.I.P.-T.O.D. customers. (This should be interpreted to mean that each graph will depict the average for all days of that month and normalized over a 30-year period.)

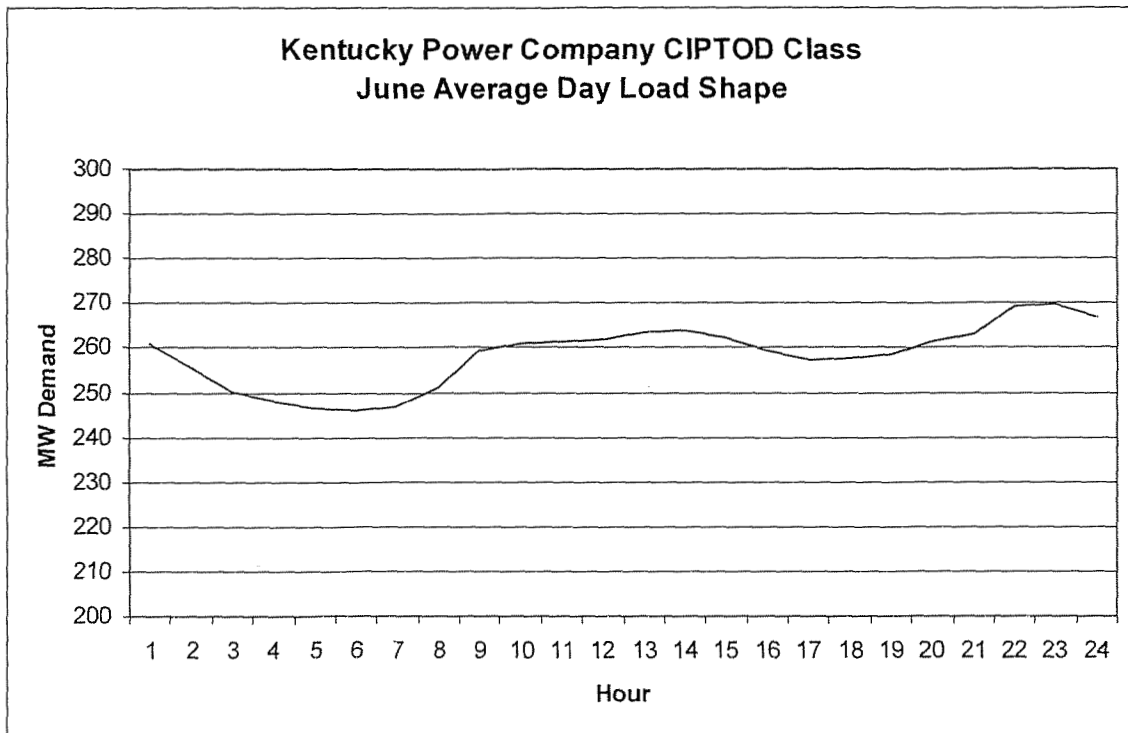
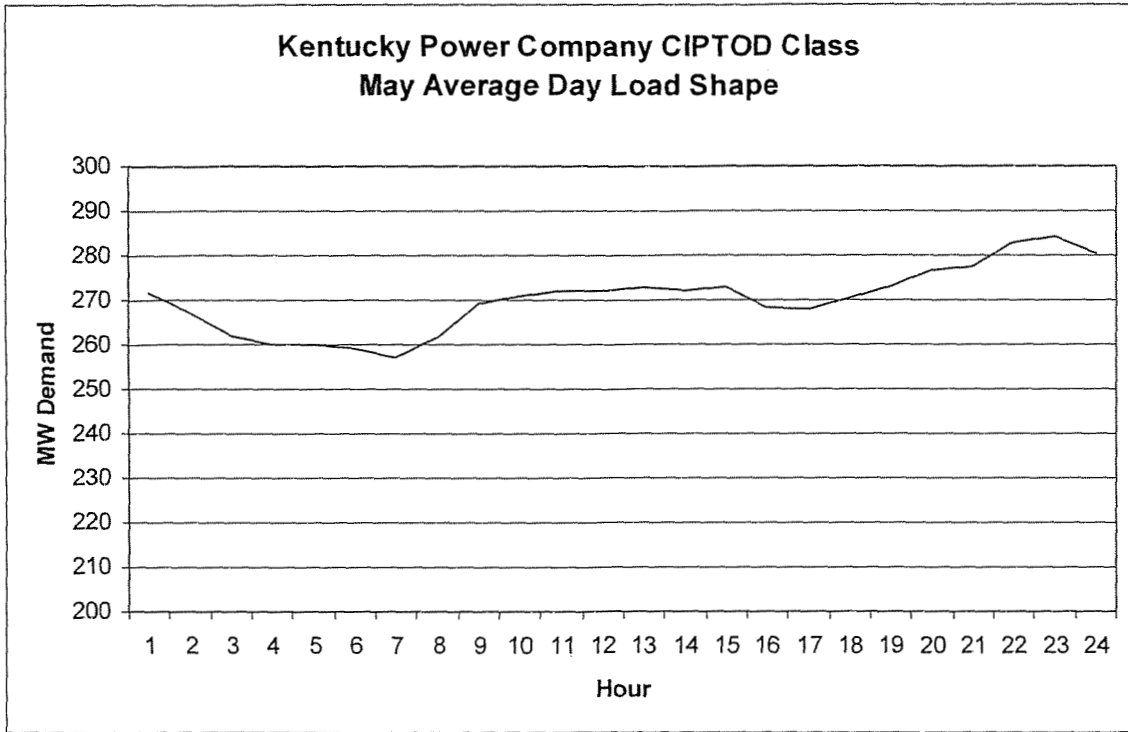
RESPONSE

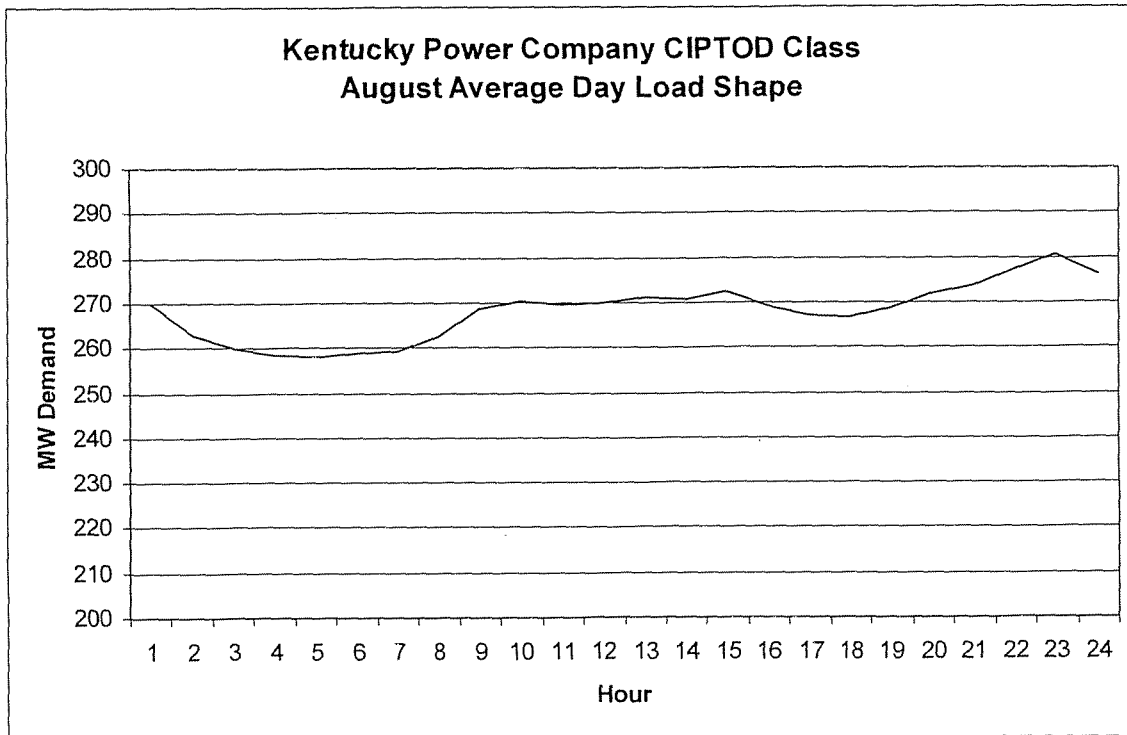
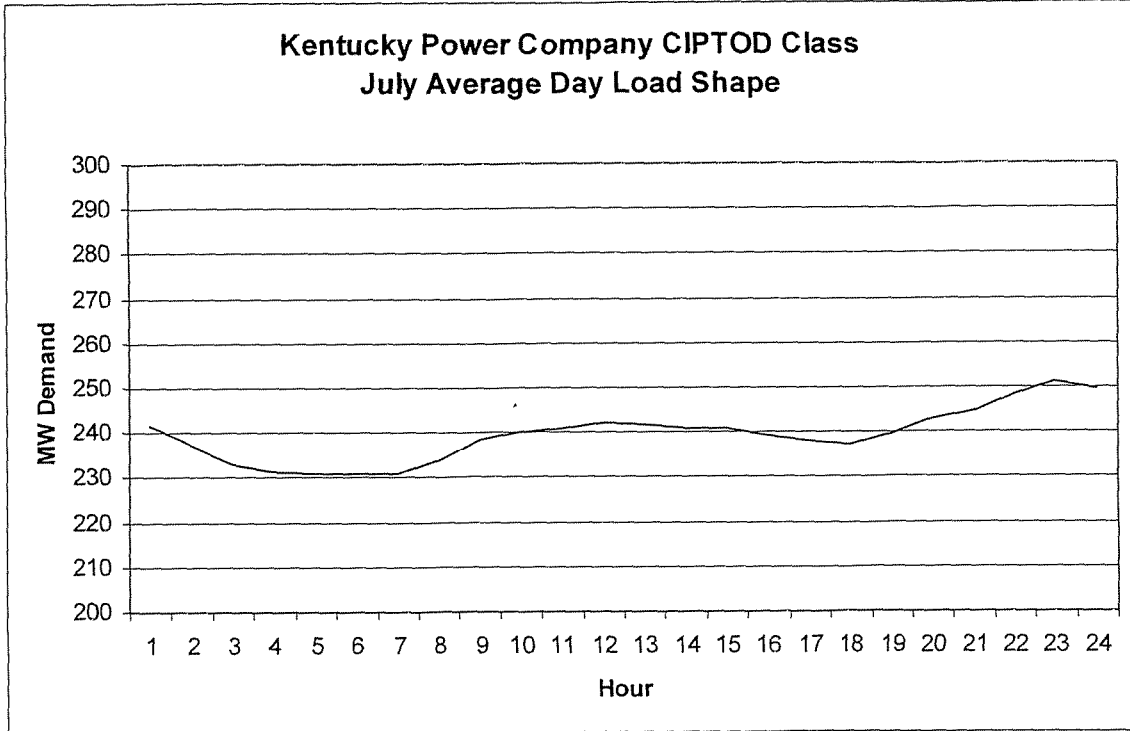
The attached document contains the requested graphs. Values represent 2006 total class usage at the meter. 30-year normalized values are not available, as no weather normalization of demands is regularly performed for these classes.

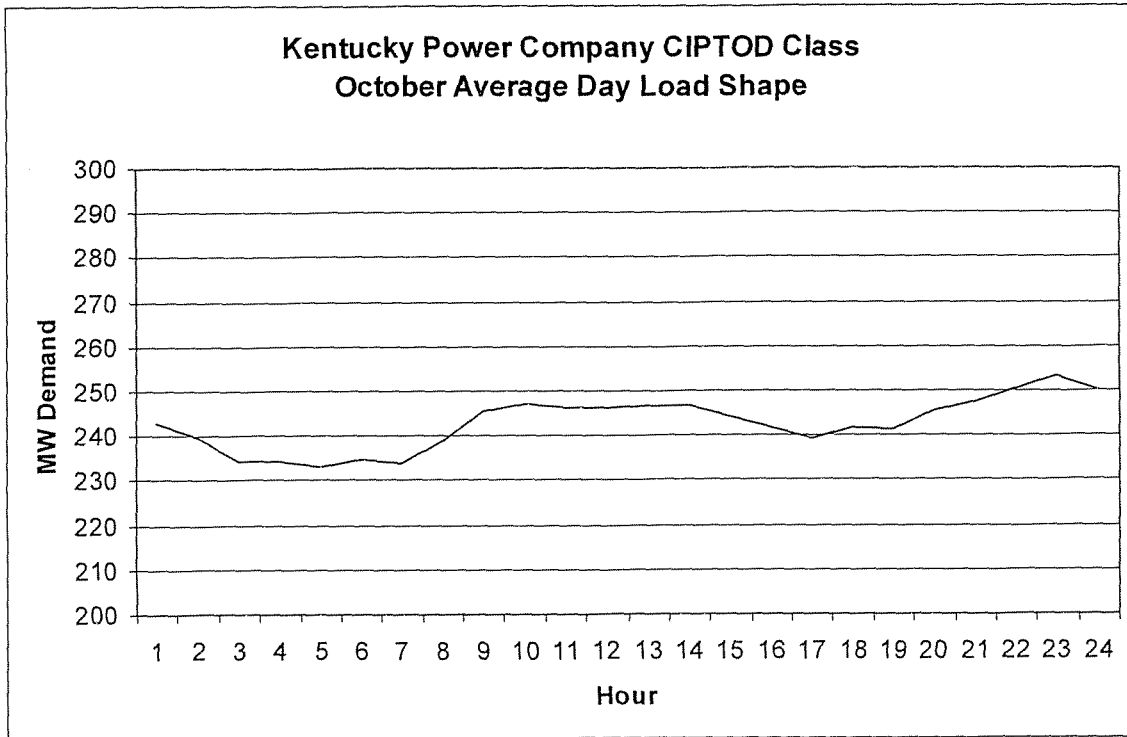
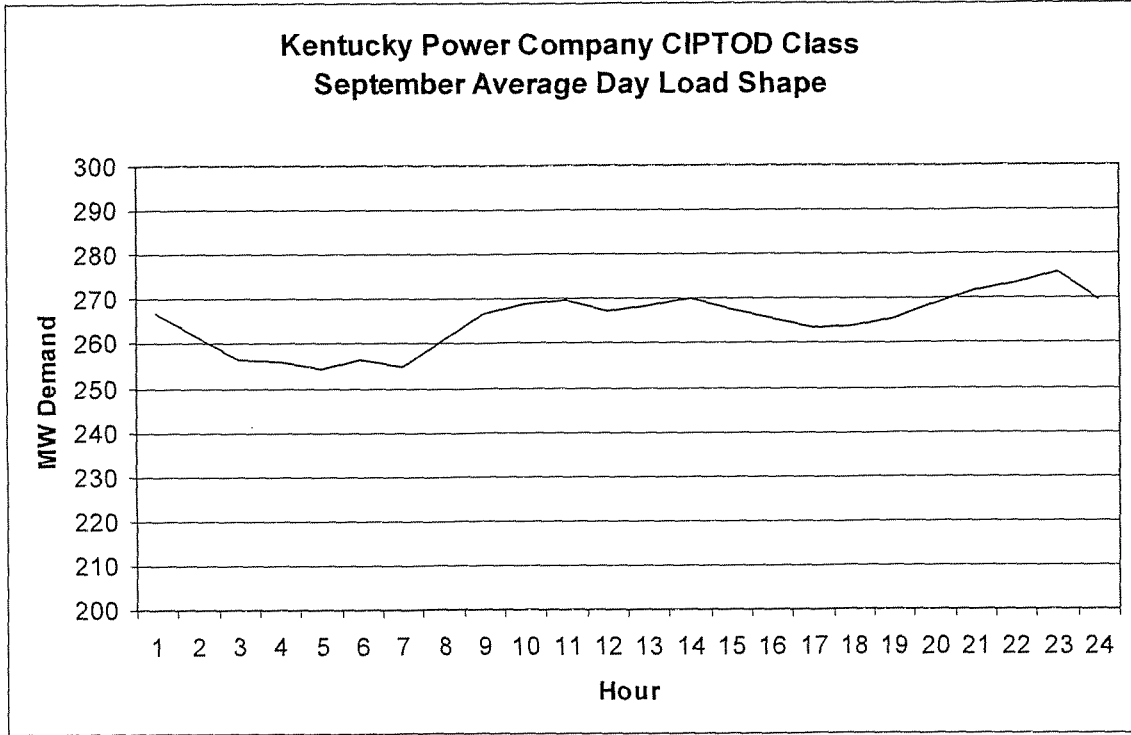
WITNESS: Larry C Foust

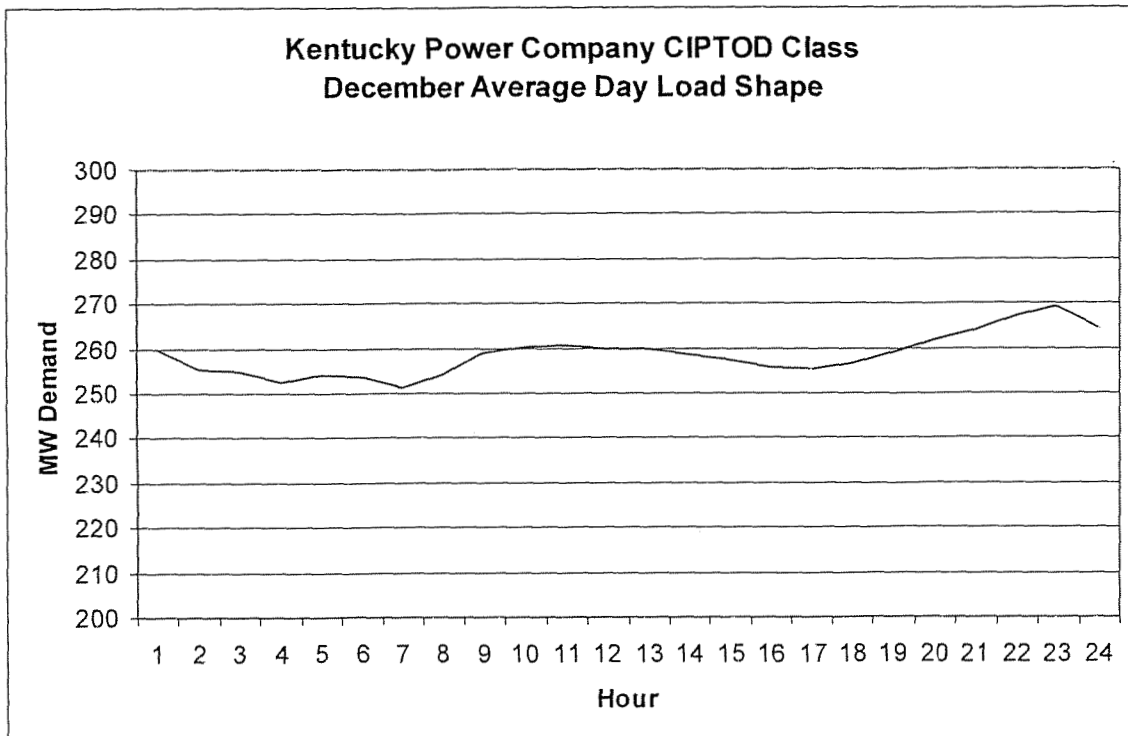
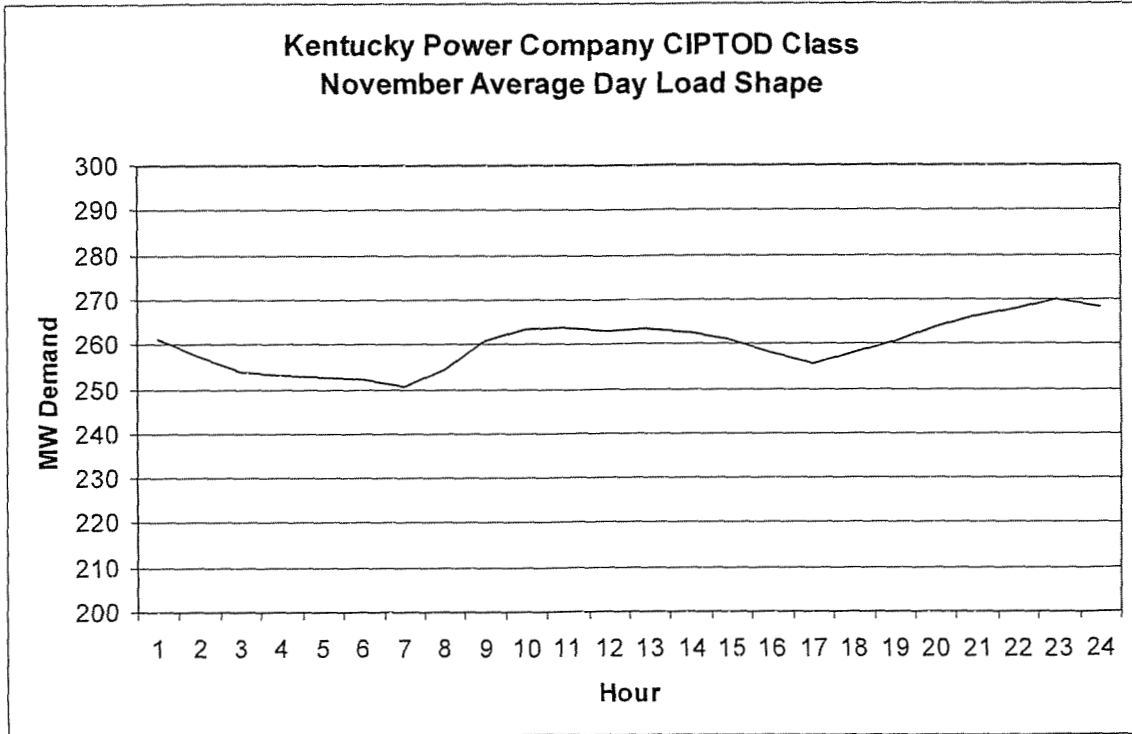


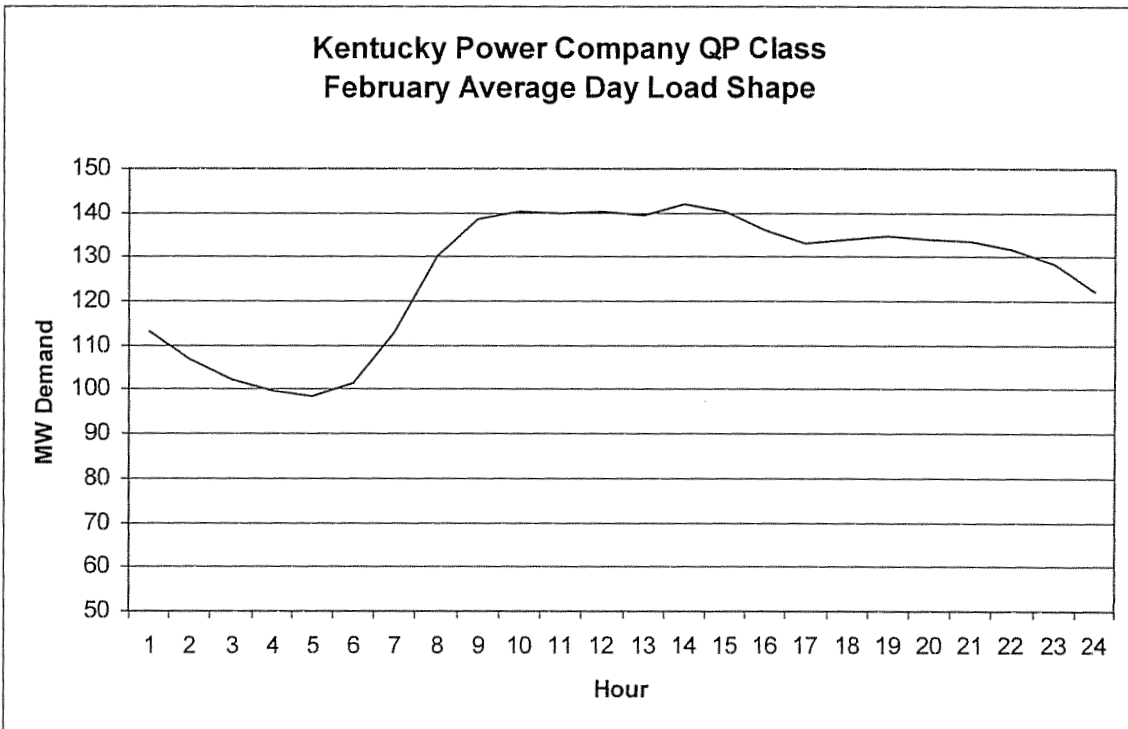
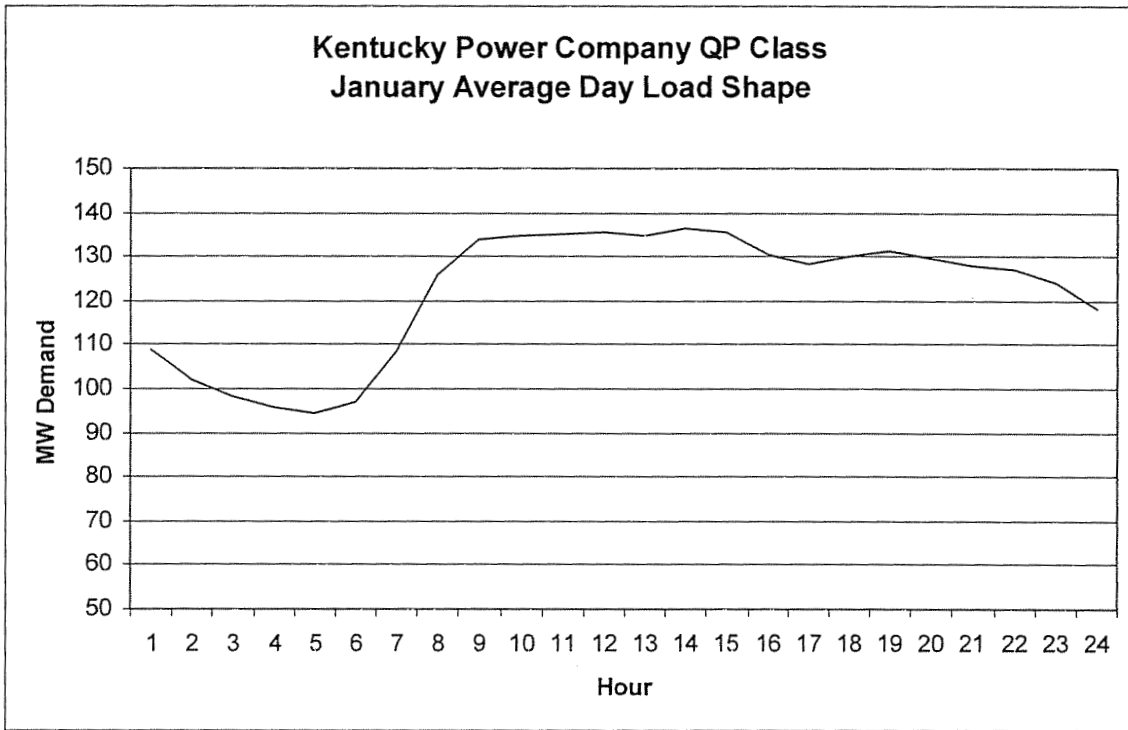


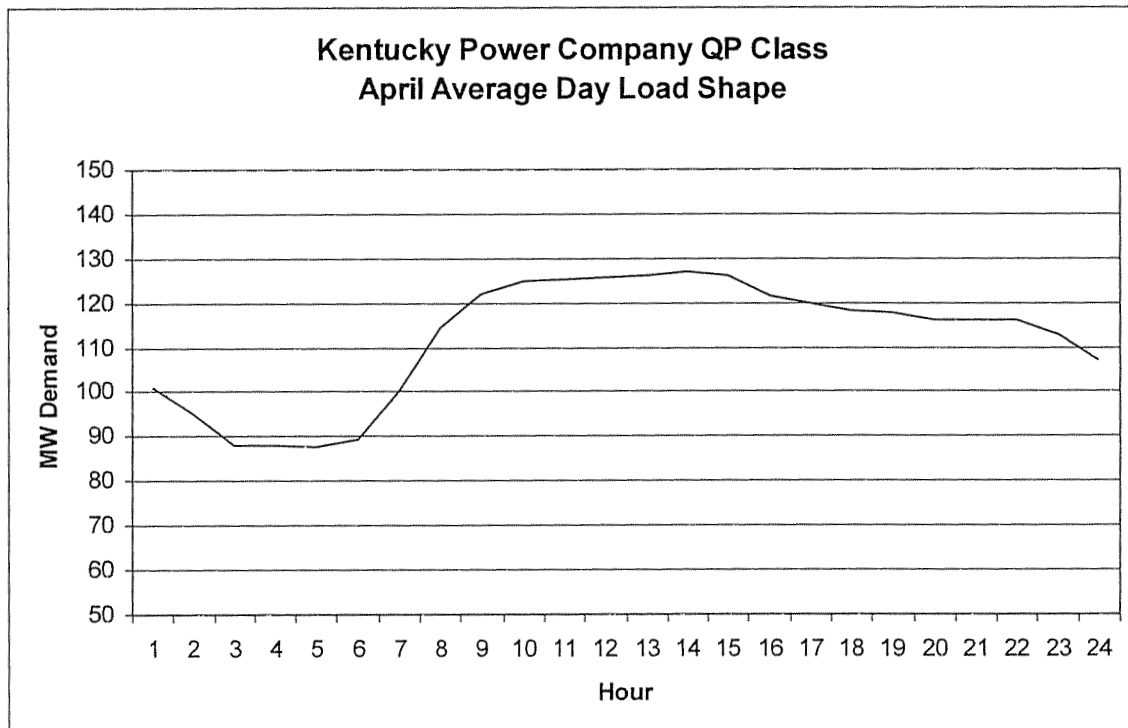
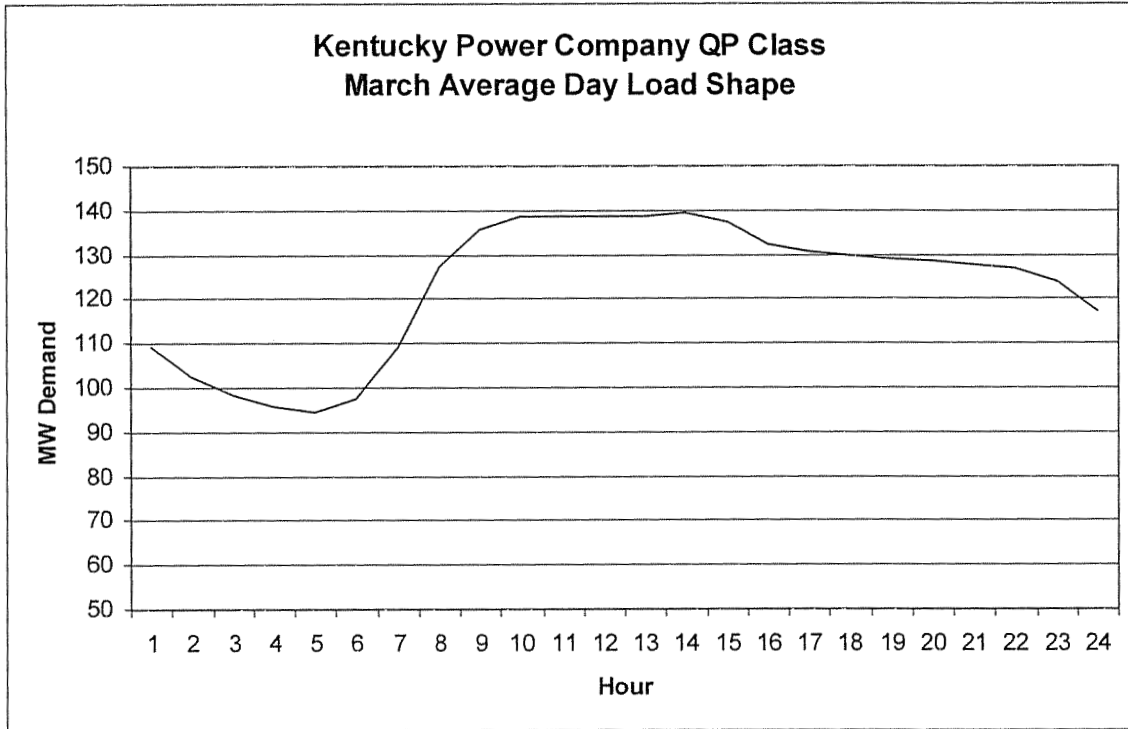


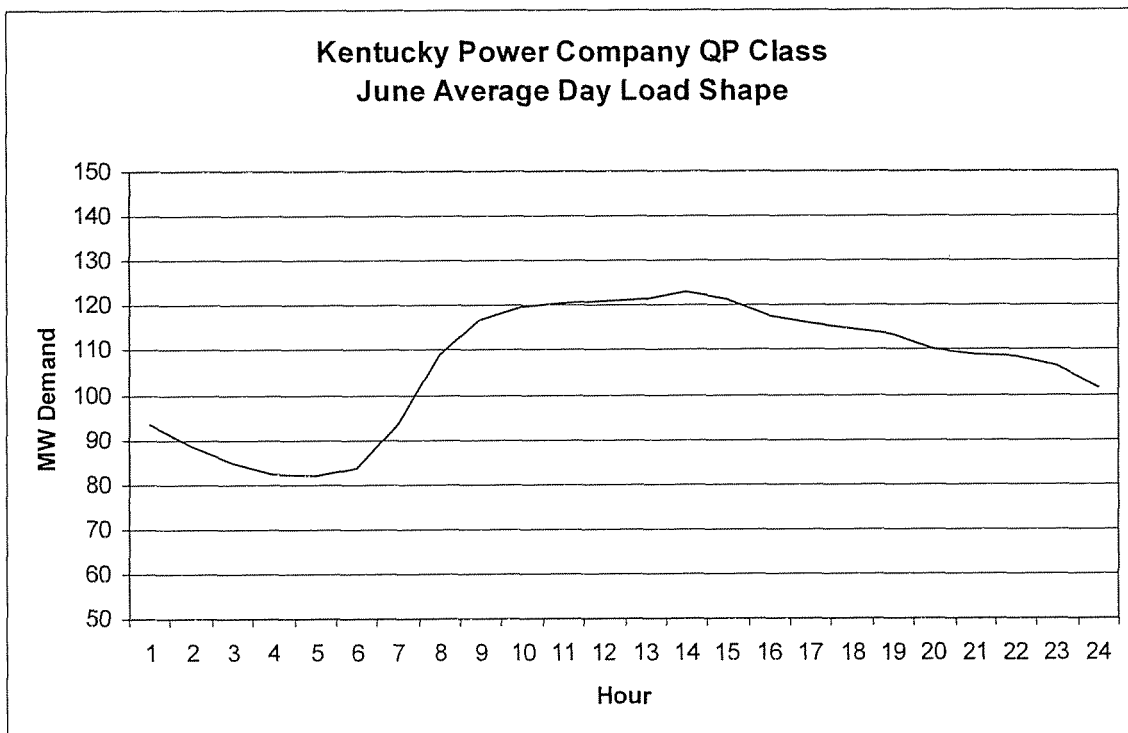
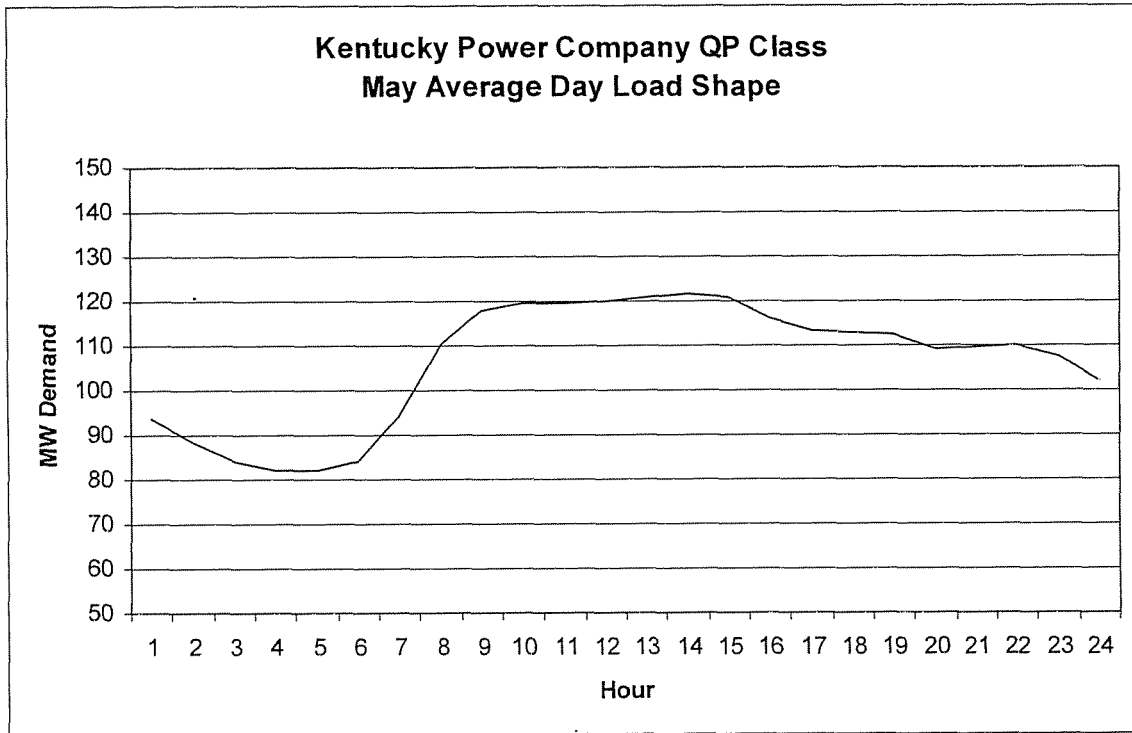


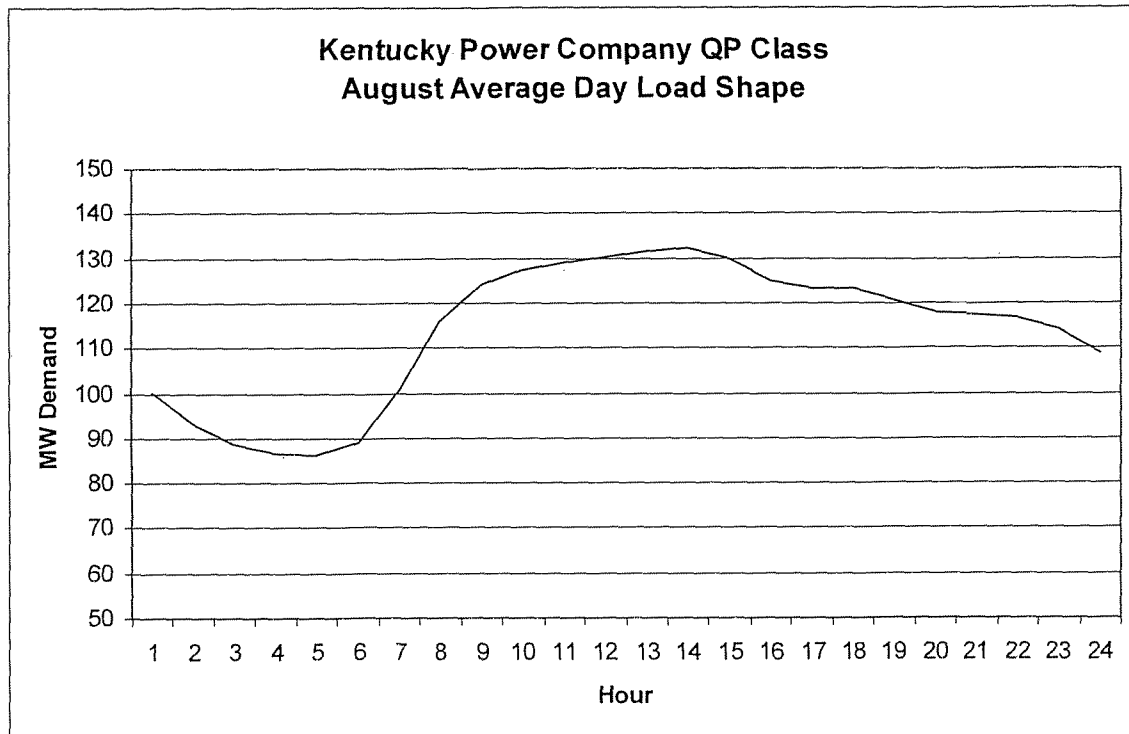
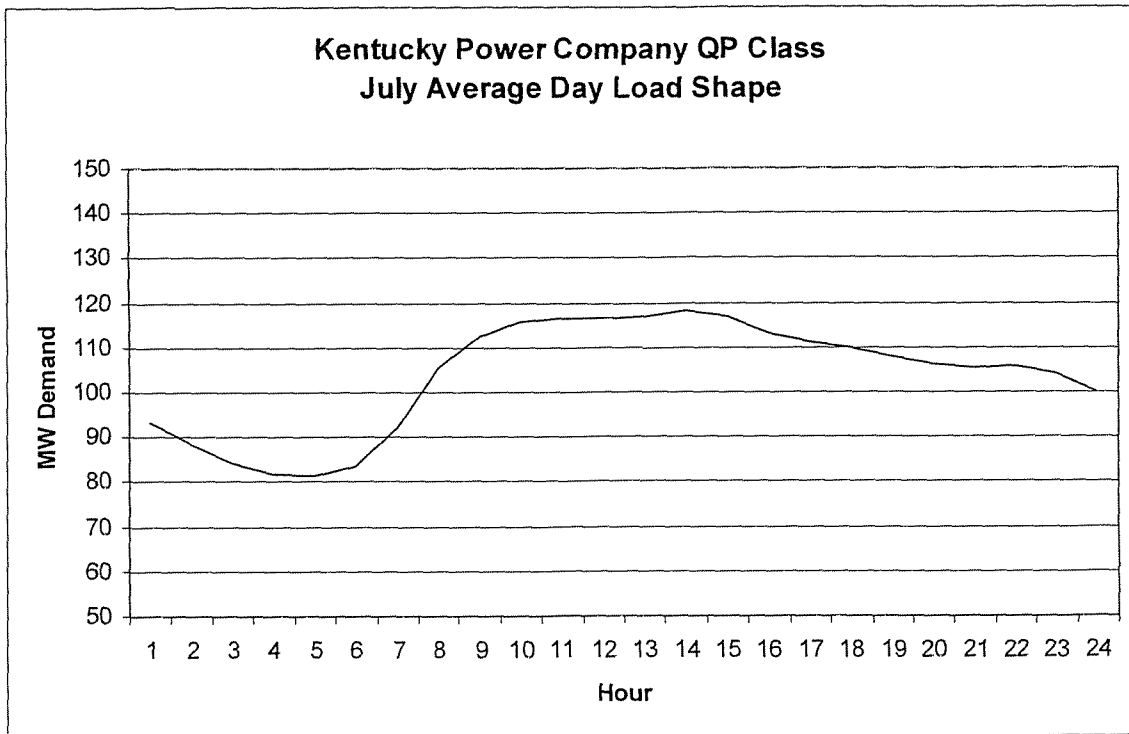


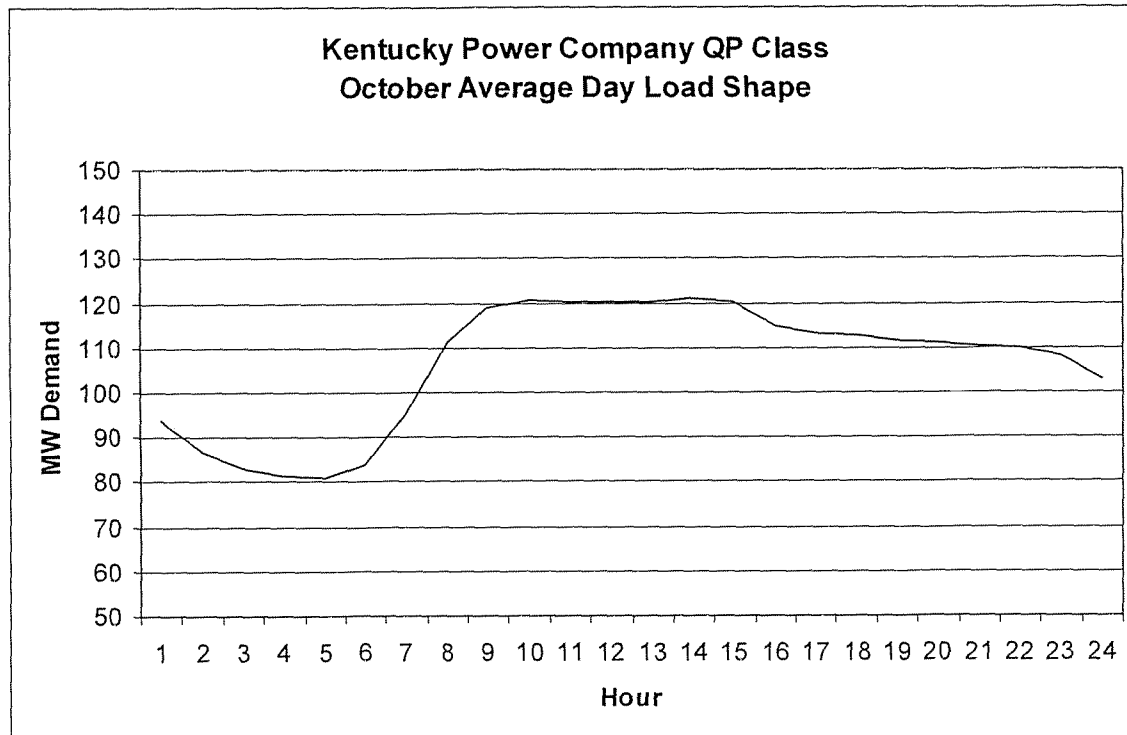
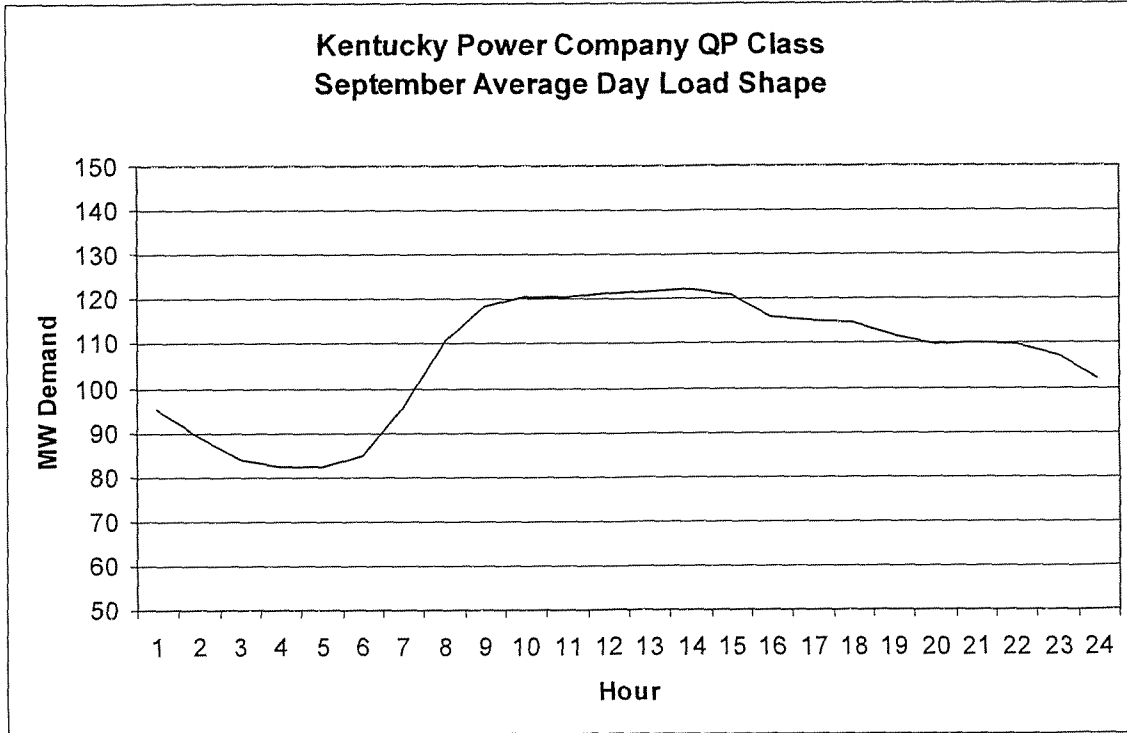


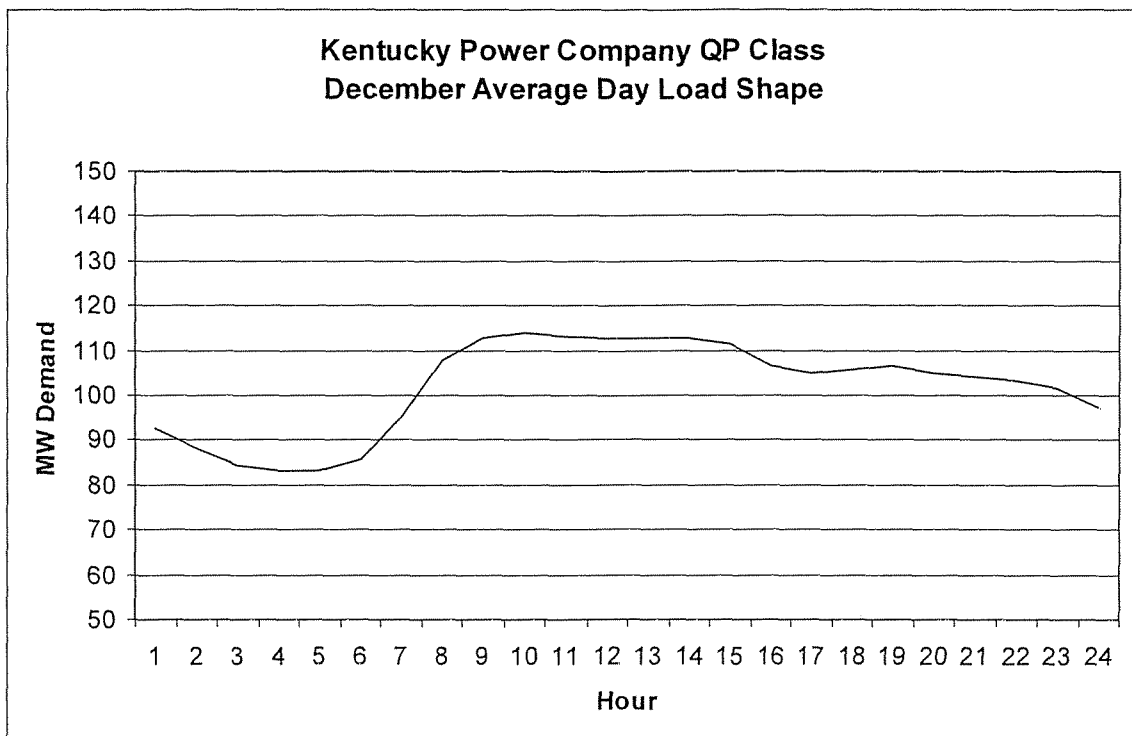
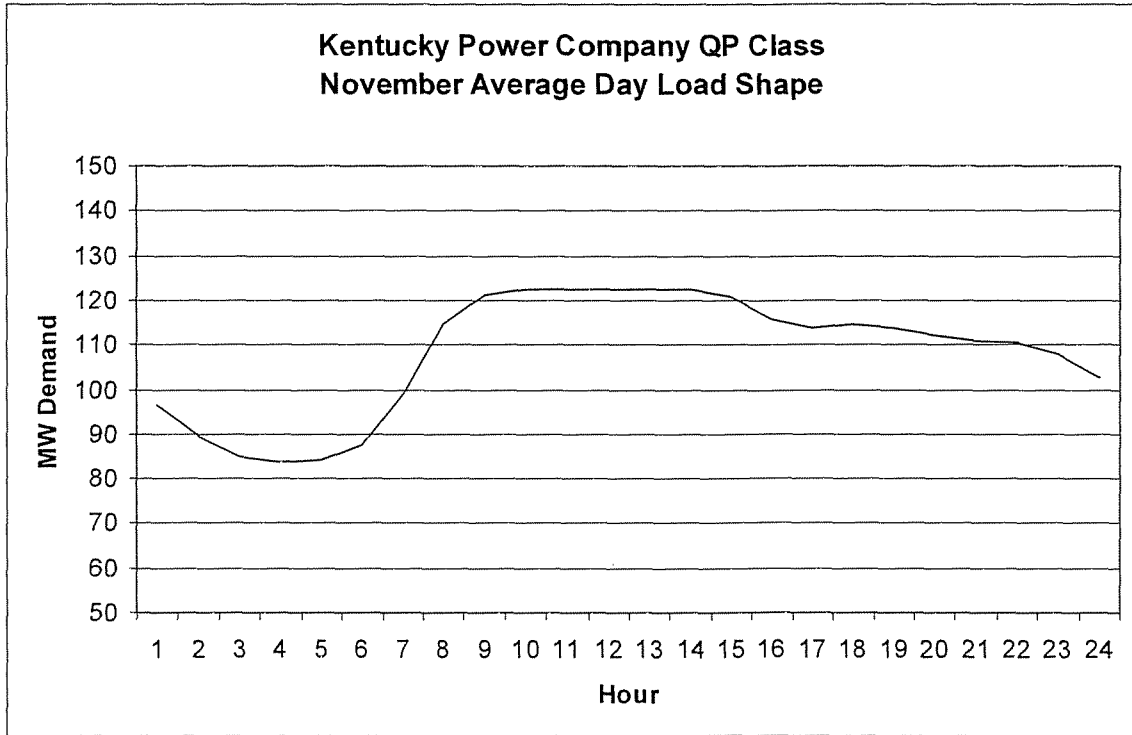












Kentucky Power Company

REQUEST

Please provide a graph, for each month of the year, demonstrating the projected or anticipated change in the average daily usage on the hour for all 24 hours for: 1) Q.P. tariff program participants and 2) C.I.P. -T.O.D. program participants.

RESPONSE

Kentucky Power Company has not projected the change in usage that may occur as a result of this tariff offering.

WITNESS: Larry C Foust

Kentucky Power Company

REQUEST

What type of demand reduction does the company hope to obtain from this program(i.e., reductions in peak demand, base demand, or both)? Which type of reduction is more important to the company and why?

RESPONSE

The Company hopes to reduce its peak demand. A reduction in the peak demand utilizes the Company's existing facilities more efficiently and delays the need for additional facilities.

WITNESS: Larry C Foust

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY

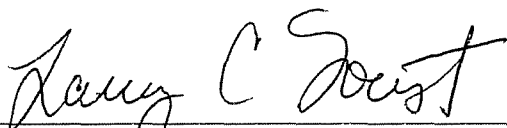
STATE OF OHIO

CASE NO. 2007-00166

COUNTY OF FRANKLIN

AFFIDAVIT

Larry C. Foust, upon first being duly sworn, hereby makes oath that if the foregoing questions were propounded to him at a hearing before the Public Service Commission of Kentucky, he would give the answers recorded following each of said questions and that said answers are true.



Larry C. Foust

Subscribed and sworn before me by Larry C. Foust this 23rd day of May, 2007.



Notary Public



CATHERINE HURSTON
Notary Public, State of Ohio
My Commission Expires 11/15/2009

My Commission Expires _____