



LG&E Energy LLC
220 West Main Street (40202)
P.O. Box 32030
Louisville, Kentucky 40232

July 11, 2005

RECEIVED

JUL 11 2005

PUBLIC SERVICE
COMMISSION

Elizabeth O'Donnell
Executive Director
Kentucky Public Service Commission
211 Sower Boulevard
Frankfort, Kentucky 40602-0615

RE: Joint Application of Louisville Gas and Electric Company and Kentucky Utilities Company for a Certificate of Public Convenience and Necessity, and a Site Compatibility Certificate, for the Expansion of the Trimble County Generating Station
Case No. 2004-00507

Dear Ms. O'Donnell:

Enclosed please find an original and ten (10) copies of Louisville Gas and Electric Company's ("LG&E") and Kentucky Utilities Company's ("KU") Response to the Post-Hearing Data Request dated June 28, 2005, in the above-referenced docket.

Should you have any questions concerning the enclosed, please do not hesitate to contact me at (502) 627-4110.

Sincerely,

John Wolfram
Manager, Regulatory Affairs

cc: Parties of Record

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

JOINT APPLICATION OF LOUISVILLE GAS)	
AND ELECTRIC COMPANY AND KENTUCKY)	
UTILITIES COMPANY FOR A CERTIFICATE)	
OF PUBLIC CONVENIENCE AND NECESSITY,)	CASE NO: 2004-00507
AND A SITE COMPATIBILITY CERTIFICATE,)	
FOR THE EXPANSION OF THE TRIMBLE)	
COUNTY GENERATING STATION)	

RESPONSE OF
LOUISVILLE GAS AND ELECTRIC COMPANY
AND
KENTUCKY UTILITIES COMPANY
TO
POST-HEARING DATA REQUESTS
DATED JUNE 28, 2005

FILED: July 11, 2005

**LOUISVILLE GAS AND ELECTRIC COMPANY
KENTUCKY UTILITIES COMPANY**

CASE NO. 2004-00507

**Response to Post-Hearing Data Request
Dated: June 28, 2005**

Question No. 1

Responding Witness: David S. Sinclair

Q-1. Please provide the actual temperature for Lexington and KU's other major weather stations for the specific hour and date of the KU record winter peak.

A-1.

**Temperature at 8 AM EST on January 18, 2005
in localities served by KU
(NOAA weather station data)**

Station	Temperature (F)
Lexington (LEX)	6
London (LOZ)	7
Frankfort (FFT)	7
Somerset (SME)	9
Henderson City (EHR)	12
Paducah (PAH)	16

**LOUISVILLE GAS AND ELECTRIC COMPANY
KENTUCKY UTILITIES COMPANY**

CASE NO. 2004-00507

**Response to Post-Hearing Data Request
Dated: June 28, 2005**

Question No. 2

Responding Witness: John P. Malloy

Q-2. Please provide revised values for Appendix F (Native Load Only Scenario) of the Resource Assessment based on the recently revised federal and state income tax rates.

A-2. Please refer to the attachment. The revised composite federal and state tax rate used for the entire study period is 38.90% (reduced from 40.3625%).

Note that Case 5, with TC2 in 2010 and Marketer F in 2013, remains the least cost alternative in this updated analysis.

Updated Summary of All Plans (Excluding Transmission) - TC2 CCN Evaluation with New State and Federal Tax Rates
Native Load Only Scenario

Case/ Exp Plan:	Case 1	Case 2	Case 3	Case 4	Case 5	Case 6	Case 7	Case 8	Case 9
2003	1-TC2	2-148G 1-TC2	F & 1-TC2	F 1-TC2	1-TC2	E	2-148G E	E & F	2-148G 1-148G 1-148G
2004	2-148G	1-148G	1-148G	1-148G	1-148G	2-148G	1-148G	1-148G	1-148G
2005	1-148G	1-148G	2-148G	2-148G	2-148G	1-148G	1-148G	2-148G	2-148G
2006	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G
2007	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G
2008	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G
2009	2-148G	2-148G	2-148G	2-148G	2-148G	2-148G	2-148G	2-148G	2-148G
2010	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G
2011	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G
2012	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G
2013	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G
2014	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G
2015	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G
2016	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G
2017	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G
2018	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G
2019	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G
2020	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G
2021	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G
2022	2-148G	2-148G	2-148G	2-148G	2-148G	2-148G	2-148G	2-148G	2-148G
2023	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G
2024	2-148G	2-148G	2-148G	2-148G	2-148G	2-148G	2-148G	2-148G	2-148G
2025	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G
2026	2-148G	2-148G	2-148G	2-148G	2-148G	2-148G	2-148G	2-148G	2-148G
2027	1-148G	1-148G	2-148G	2-148G	2-148G	1-148G	1-148G	2-148G	2-148G
2028	1-CC#2	1-CC#2	1-CC#2	1-CC#2	1-CC#2	1-CC#2	1-CC#2	1-CC#2	1-CC#2
2029	1-CC#2	1-CC#2	1-CC#2	1-CC#2	1-CC#2	1-CC#2	1-CC#2	1-CC#2	1-CC#2
2031	1-CC#2	1-CC#2	1-CC#2	1-CC#2	1-CC#2	1-CC#2	1-CC#2	1-CC#2	1-CC#2
2032	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G
2033	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G	1-148G
30 Yr PVRR (\$000)	16,424,093	16,431,247	16,380,547	16,358,773	16,351,309	16,488,491	16,492,868	16,443,094	16,838,776
Cost Delta	72,785	79,938	29,238	7,465	-	137,183	141,559	91,786	487,467
Plan Rank (Low to High)	4	5	3	2	1	7	8	6	9
Capital Cost PVRR	1,488,582	1,463,109	1,433,054	1,390,054	1,433,054	1,512,671	1,485,623	1,457,142	918,914
Variable Cost PVRR	13,746,614	13,776,494	13,778,486	13,804,999	13,749,248	13,773,792	13,803,346	13,803,815	14,735,763
Fixed Cost PVRR	1,168,897	1,191,644	1,169,007	1,163,720	1,169,007	1,202,028	1,203,899	1,182,138	1,184,099
Total PVRR	16,424,093	16,431,247	16,380,547	16,358,773	16,351,309	16,488,491	16,492,868	16,443,094	16,838,776
Capital Ranking	8	6	3	2	3	9	7	5	1
Variable Cost Ranking	1	4	5	8	2	3	6	7	9
Fixed Cost Ranking	6	7	2	1	3	8	9	4	5

Updated Appendix F (New Tax Rates): Native Load Only Scenario Capital Costs (\$000)

	Case1	Case2	Case3	Case4	Case5	Case6	Case7	Case8	Case9
2004	-	-	-	-	-	-	-	-	-
2005	717	-	717	-	717	-	-	-	-
2006	4,669	730	4,669	730	4,669	1,559	-	1,559	-
2007	18,398	4,758	18,398	4,758	18,398	8,508	1,588	8,508	-
2008	55,820	19,408	55,820	18,747	55,820	39,883	9,330	39,883	660
2009	78,903	66,971	78,903	56,881	78,903	82,369	50,731	82,369	10,427
2010	107,592	98,445	107,592	80,402	107,592	114,977	101,977	114,977	22,665
2011	104,406	126,868	103,705	109,637	103,705	111,538	134,392	110,837	31,240
2012	111,073	122,504	100,365	106,033	100,365	117,964	129,771	107,256	39,637
2013	120,539	123,491	102,676	108,098	102,676	127,199	130,512	109,336	48,239
2014	126,278	128,174	114,403	119,596	114,403	132,718	134,961	120,843	61,538
2015	131,980	133,838	123,310	128,289	123,310	138,209	140,401	129,539	72,933
2016	137,652	139,454	130,354	135,133	130,354	143,678	145,801	136,380	81,370
2017	143,692	145,407	136,689	141,281	136,689	149,523	151,547	142,520	88,628
2018	154,855	156,552	148,132	152,647	148,132	160,493	162,493	153,769	96,164
2019	163,957	165,637	157,517	161,977	157,517	169,401	171,382	162,961	108,917
2020	170,266	171,930	164,132	168,536	164,132	175,516	177,478	169,382	119,578
2021	180,858	182,507	175,040	179,388	175,040	185,915	187,857	180,096	127,400
2022	189,717	191,350	183,778	188,071	183,778	194,581	196,503	188,641	139,593
2023	200,980	202,597	189,579	193,816	189,579	205,649	207,552	194,248	150,016
2024	209,245	210,846	199,948	204,130	199,948	213,721	215,604	204,424	162,892
2025	220,025	221,772	208,488	212,615	208,488	224,307	226,333	212,771	172,872
2026	229,207	231,262	221,569	225,640	221,569	233,296	235,626	225,657	187,653
2027	260,694	263,056	256,924	260,940	256,924	264,589	267,223	260,819	224,881
2028	275,099	277,597	272,734	276,694	272,734	278,801	281,566	276,436	242,749
2029	304,216	306,676	301,743	305,647	301,743	307,724	310,448	305,251	273,915
2030	317,175	318,816	314,701	317,768	314,701	320,538	322,391	318,063	288,249
2031	348,125	348,961	345,755	348,000	345,755	351,389	352,387	349,020	319,897
2032	365,656	366,485	363,406	365,625	363,406	368,823	369,811	366,572	338,142
2033	361,272	362,093	359,154	361,347	359,154	364,341	365,320	362,223	334,485
NPV	1,488,582	1,463,109	1,433,054	1,390,054	1,433,054	1,512,671	1,485,623	1,457,142	918,914
Rank Difference	8	6	3	2	3	9	7	5	1
	569,668	544,196	514,140	471,140	514,140	593,757	566,709	538,228	-

Updated Appendix F (New Tax Rates): Native Load Only Scenario Variable Costs (\$000)

	Case1	Case2	Case3	Case4	Case5	Case6	Case7	Case8	Case9
2004	-	-	-	-	-	-	-	-	-
2005	666,559	666,559	666,559	666,559	666,559	666,559	666,559	666,559	666,559
2006	758,319	758,319	758,319	758,319	758,319	758,319	758,319	758,319	758,319
2007	783,874	783,874	783,874	783,874	783,874	783,874	783,874	783,874	783,874
2008	803,833	803,833	803,833	803,833	803,833	803,833	803,833	803,833	803,833
2009	779,333	779,333	779,333	779,333	779,333	779,333	779,333	779,333	779,333
2010	775,112	805,754	788,954	815,150	775,112	759,785	805,754	775,141	805,754
2011	803,621	820,307	819,909	834,809	803,621	804,754	804,158	821,132	857,693
2012	840,991	840,822	858,416	858,416	840,991	841,842	841,696	859,222	901,121
2013	885,852	884,776	903,858	903,858	903,858	886,591	885,872	905,023	952,491
2014	936,935	936,935	952,158	952,158	952,158	938,505	938,505	953,917	1,016,785
2015	984,952	984,952	996,451	996,451	996,451	987,041	987,041	997,604	1,074,742
2016	1,038,303	1,038,303	1,055,373	1,055,373	1,055,373	1,041,470	1,041,470	1,058,481	1,133,799
2017	1,111,903	1,111,903	1,125,665	1,125,665	1,125,665	1,115,795	1,115,795	1,128,914	1,219,436
2018	1,151,713	1,151,713	1,165,912	1,165,912	1,165,912	1,155,142	1,155,142	1,169,644	1,267,045
2019	1,275,988	1,275,988	1,283,559	1,283,559	1,283,559	1,281,340	1,281,340	1,287,124	1,409,095
2020	1,344,448	1,344,448	1,353,770	1,353,770	1,353,770	1,348,761	1,348,761	1,356,921	1,480,040
2021	1,422,061	1,422,061	1,423,608	1,423,608	1,423,608	1,427,174	1,427,174	1,428,328	1,573,814
2022	1,509,109	1,509,109	1,507,608	1,507,608	1,507,608	1,516,103	1,516,103	1,512,730	1,669,654
2023	1,594,052	1,594,052	1,589,949	1,589,949	1,589,949	1,601,381	1,601,381	1,596,218	1,764,675
2024	1,718,502	1,718,502	1,710,107	1,710,107	1,710,107	1,726,857	1,726,857	1,719,140	1,893,579
2025	1,826,353	1,826,353	1,817,676	1,817,676	1,817,676	1,835,448	1,835,448	1,826,122	2,015,770
2026	1,958,172	1,958,172	1,943,167	1,943,167	1,943,167	1,968,274	1,968,274	1,951,396	2,164,644
2027	2,061,495	2,061,495	2,048,835	2,048,835	2,048,835	2,074,046	2,074,046	2,058,993	2,281,709
2028	2,207,360	2,207,360	2,181,194	2,181,194	2,181,194	2,218,189	2,218,189	2,192,774	2,432,339
2029	2,373,249	2,373,249	2,349,729	2,349,729	2,349,729	2,384,203	2,384,203	2,360,910	2,616,914
2030	2,512,291	2,512,291	2,486,352	2,486,352	2,486,352	2,524,152	2,524,152	2,497,834	2,762,867
2031	2,666,743	2,666,743	2,623,851	2,623,851	2,623,851	2,680,401	2,680,401	2,636,660	2,922,138
2032	2,796,039	2,796,039	2,750,431	2,750,431	2,750,431	2,808,283	2,808,283	2,764,198	3,052,461
2033	3,076,184	3,076,184	3,028,508	3,028,508	3,028,508	3,089,852	3,089,852	3,042,530	3,355,517
NPV	13,746,614	13,776,494	13,778,486	13,804,999	13,749,248	13,773,792	13,803,346	13,803,815	14,735,763
Rank	1	4	5	8	2	3	6	7	9
Difference	-	29,879	31,871	58,385	2,633	27,178	56,731	57,200	989,148

Updated Appendix F (New Tax Rates): Native Load Only Scenario Fixed Costs (\$000)

	Case1	Case2	Case3	Case4	Case5	Case6	Case7	Case8	Case9
2004									
2005	61,620	61,620	61,620	61,620	61,620	61,620	61,620	61,620	61,620
2006	61,803	61,803	61,803	61,803	61,803	61,803	61,803	61,803	61,803
2007	63,856	63,856	63,856	63,856	63,856	63,856	63,856	63,856	63,856
2008	67,431	67,431	67,431	67,431	67,431	67,431	67,431	67,431	67,431
2009	70,147	70,147	70,147	70,147	70,147	70,147	70,147	70,147	70,147
2010	76,500	74,243	76,500	71,683	76,500	81,003	74,243	81,003	74,243
2011	81,648	82,677	81,648	78,243	81,648	82,813	87,247	82,813	79,052
2012	83,394	87,929	83,394	83,394	83,394	84,585	89,120	84,585	83,015
2013	87,754	89,599	84,986	84,986	84,986	88,966	90,811	86,198	86,917
2014	92,812	92,812	88,107	88,107	88,107	94,048	94,048	89,343	91,017
2015	97,648	97,648	94,255	94,255	94,255	98,909	98,909	95,516	97,224
2016	102,366	102,366	99,911	99,911	99,911	103,655	103,655	101,201	102,948
2017	105,575	105,575	103,078	103,078	103,078	106,887	106,887	104,390	106,167
2018	109,408	109,408	106,861	106,861	106,861	110,746	110,746	108,199	110,012
2019	115,575	115,575	112,978	112,978	112,978	116,940	116,940	114,343	114,633
2020	112,391	112,391	109,734	109,734	109,734	113,787	113,787	111,130	111,918
2021	117,254	117,254	114,552	114,552	114,552	118,674	118,674	115,972	117,895
2022	124,020	124,020	121,263	121,263	121,263	125,468	125,468	122,711	123,042
2023	131,152	131,152	128,341	128,341	128,341	132,630	132,630	129,818	130,679
2024	138,927	138,927	134,331	134,331	134,331	140,438	140,438	135,842	137,889
2025	144,605	144,605	140,518	140,518	140,518	146,142	146,142	142,055	144,137
2026	151,617	151,617	146,884	146,884	146,884	153,184	153,184	148,451	150,575
2027	159,049	159,049	154,755	154,755	154,755	160,648	160,648	156,354	158,520
2028	170,535	170,535	167,423	167,423	167,423	172,171	172,171	169,058	171,274
2029	178,246	178,246	175,079	175,079	175,079	179,909	179,909	176,743	178,997
2030	188,744	188,744	185,514	185,514	185,514	190,441	190,441	187,211	189,510
2031	197,274	197,274	193,979	193,979	193,979	199,005	199,005	195,710	198,055
2032	208,120	208,120	204,751	204,751	204,751	209,891	209,891	206,521	208,919
2033	218,562	218,562	215,135	215,135	215,135	220,363	220,363	216,936	219,375
NPV	1,188,897	1,191,644	1,169,007	1,163,720	1,169,007	1,202,028	1,203,899	1,182,138	1,184,099
Rank Difference	6	7	2	1	3	8	9	4	5
	25,177	27,923	5,286	-	5,286	38,308	40,178	18,417	20,379

**LOUISVILLE GAS AND ELECTRIC COMPANY
KENTUCKY UTILITIES COMPANY**

CASE NO. 2004-00507

**Response to Post-Hearing Data Request
Dated: June 28, 2005**

Question No. 3

Responding Witness: John N. Voyles

- Q-3. Please provide copies of the EPC RFP responses with clarifications and copies of the Companies' analyses of the RFPs, subject to necessary confidentiality and timing constraints.
- A-3. The Companies have not yet completed their assimilation of EPC clarifications or their analysis of the RFPs. The documents under review by the Companies are voluminous in nature. Accordingly, and with the understanding that the information is commercially sensitive and not yet final, the Companies will make the documents available for inspection upon request during regular business hours at the offices of LG&E Energy LLC in Louisville, Kentucky, subject to the appropriate confidentiality agreements.