

Exhibit No.:  
Issues: Net System Input  
Witness: Shawn E. Lange  
Sponsoring Party: MO PSC Staff  
Type of Exhibit: True-Up Direct Testimony  
Case No.: ER-2007-0291  
Date Testimony Prepared: November 2, 2007

**MISSOURI PUBLIC SERVICE COMMISSION**

**UTILITY OPERATIONS DIVISION**

**TRUE-UP DIRECT TESTIMONY**

**OF**

**SHAWN E. LANGE**

**KANSAS CITY POWER & LIGHT COMPANY**

**CASE NO. ER-2007-0291**

**Jefferson City, Missouri  
November 2007**

**BEFORE THE PUBLIC SERVICE COMMISSION  
OF THE STATE OF MISSOURI**

In the Matter of the Application of Kansas )  
City Power and Light Company for )  
Approval to Make Certain Changes in its )  
Charges for Electric Service To )  
Implement Its Regulatory Plan. )

Case No. ER-2007-0291

**AFFIDAVIT OF SHAWN E. LANGE**

STATE OF MISSOURI     )  
                                      ) ss  
COUNTY OF COLE     )

Shawn E. Lange, of lawful age, on his oath states: that he has participated in the preparation of the following True-Up Direct Testimony in question and answer form, consisting of 2 pages of True-Up Direct Testimony to be presented in the above case, that the answers in the following True-Up Direct Testimony were given by him; that he has knowledge of the matters set forth in such answers; and that such matters are true to the best of his knowledge and belief.

  
Shawn E. Lange

Subscribed and sworn to before me this 1<sup>st</sup> day of November, 2007.



SUSAN L. SUNDERMEYER  
My Commission Expires  
September 21, 2010  
Callaway County  
Commission #06942086

  
Notary Public

My commission expires 9-21-10

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**TRUE-UP DIRECT TESTIMONY**  
**OF**  
**SHAWN E. LANGE**  
**KANSAS CITY POWER & LIGHT COMPANY**  
**CASE NO. ER-2007-0291**

Q. Please state your name and business address.

A. My name is Shawn E. Lange and my business address is Missouri Public Service Commission, P. O. Box 360, Jefferson City, Missouri 65102.

Q. What is your present position with the Missouri Public Service Commission?

A. I am a Utility Engineering Specialist II in the Engineering Analysis Section, Energy Department, Utility Operations Division.

Q. Are you the same Shawn E. Lange who has previously filed testimony in this case?

A. Yes, I am.

Q. What is the purpose of your testimony?

A. I am sponsoring two schedules that present Staff's calculation of kilowatt-hour (kWh) sales and net system input (NSI) through the true-up period of September 30, 2007. To remain consistent with the naming scheme used in the Staff's Cost of Service Report, filed July 24, 2007, I have named the schedule entitled Components of Annual Net System Input as True-up Appendix 5 and the schedule entitled Net System Load Normalized for 2006 as True-up Appendix 6.

Q. How does extending the time period used for analysis through September 30, 2007 affect kWh sales and net system input?

1           A.     The number of KCPL customers active on September 30, 2007 (the end of the  
2 true-up period) differs from the number at March 31, 2007 (the end of the update period).  
3 The change in the number of customers, in turn, results in additional retail kWh sales in both  
4 Missouri and Kansas. This change in kWh sales flows through into net system input, the total  
5 company energy including losses, that Staff uses in computing KCPL's fuel and purchased  
6 power expense.

7           Q.     Which Staff witnesses are sponsoring these work-products?

8           A.     Staff witness Graham Vesely is sponsoring the computation of growth in  
9 Missouri and Kansas retail kWh sales due to growth in the number of customers. Staff  
10 witness Curt Wells is sponsoring the additional kWh sales associated with load growth in the  
11 Large Power customer class. True-Up Appendix 5, attached to my testimony, shows the  
12 additional kWh sales computed by both Mr. Vesely and Mr. Wells, and also the revised total  
13 Company kWh sales that I computed.

14           I am also sponsoring the revised annual NSI energy (total system kWh sales plus  
15 losses) shown in total on True-up Appendix 5 and by month in True-up Appendix 6.

16          Q.     Were you responsible for any other work-products?

17          A.     Yes. I adjusted hourly normalized net system load to ensure that it contained  
18 the revised annual NSI energy. These are the hourly loads that Staff witness Leon Bender  
19 uses in Staff's production cost simulation model.

20          Q.     Does this conclude your testimony?

21          A.     Yes, it does.

**KANSAS CITY POWER & LIGHT COMPANY  
COMPONENTS OF ANNUAL NET SYSTEM INPUT  
ER-2007-0291**

	Energy (kWh)	Normalization for Weather	Additional kWh from Days Adj	Additional kWh from Cust Growth/Annualizations/Rate Switchers	Total KCP&L Normalized kWh
Mo Retail*	9,193,766,757	(69,131,327)	8,764,523	70,993,860	9,204,393,812
Non-Mo Retail*	6,768,601,320	(71,525,360)	9,978,274	92,307,297	6,799,361,531
Wholesale*	121,331,682	635,646	-	(20,367,704)	101,599,625
Sub-total	16,083,699,759	(140,021,041)	18,742,796	142,933,454	16,105,354,968
Company Use	22,599,335	-	-	-	22,599,335
Losses					5.59%
Company Use*	23,863,215	-	-	-	23,863,215
NSI*	16,107,562,974	(140,021,041)	18,742,796	142,933,454	16,129,218,183

\* Includes Losses

**KANSAS CITY POWER & LIGHT COMPANY**  
**ER-2007-0291**  
**Net System Load**  
**Normalized for 2006\***

Month	Monthly Usage (MWh)				Monthly Peaks (MW)				Load Factor	
	Actual	Normal	Adj	% Adj	Actual	Normal	Adj	% Adj	Actual	Normal
Jan-06	1,238,730	1,423,504	184,774	14.92%	2,131	2,543	412	19.34%	0.78	0.75
Feb-06	1,170,179	1,208,884	38,705	3.31%	2,273	2,389	116	5.10%	0.77	0.75
Mar-06	1,189,302	1,224,990	35,688	3.00%	2,071	2,201	130	6.27%	0.77	0.75
Apr-06	1,112,819	1,102,917	(9,902)	-0.89%	2,414	2,120	(293)	-12.15%	0.64	0.72
May-06	1,279,429	1,209,569	(69,860)	-5.46%	2,869	2,520	(349)	-12.16%	0.60	0.65
Jun-06	1,533,293	1,486,689	(46,604)	-3.04%	3,182	3,164	(18)	-0.56%	0.67	0.65
Jul-06	1,801,025	1,721,845	(79,180)	-4.40%	3,721	3,608	(113)	-3.04%	0.65	0.64
Aug-06	1,778,507	1,682,950	(95,557)	-5.37%	3,690	3,521	(169)	-4.59%	0.65	0.64
Sep-06	1,202,998	1,292,223	89,225	7.42%	2,633	2,984	351	13.33%	0.63	0.60
Oct-06	1,206,994	1,175,208	(31,786)	-2.63%	2,942	2,219	(723)	-24.57%	0.55	0.71
Nov-06	1,163,223	1,206,530	43,307	3.72%	2,467	2,476	9	0.35%	0.65	0.68
Dec-06	1,301,718	1,393,910	92,192	7.08%	2,385	2,574	189	7.94%	0.73	0.73
Annual	15,978,215	16,129,218	151,003	0.95%	3,721	3,608	(113)	-3.04%	0.49	0.51

\* Normalized for weather, growth, large customers, and including losses