

**COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION**

In the Matter of:

**ELECTRONIC EXAMINATION OF THE APPLICATION)
OF THE FUEL ADJUSTMENT CLAUSE OF LOUISVILLE) CASE NO.
GAS AND ELECTRIC COMPANY FROM MAY 1, 2017) 2018-00021
THROUGH OCTOBER 31, 2017)**


**CORRECTED RESPONSE OF
LOUISVILLE GAS AND ELECTRIC COMPANY
TO
ATTACHMENT TO QUESTION NO. 15
TO
INFORMATION REQUESTED IN
APPENDIX OF COMMISSION'S ORDER
DATED FEBRUARY 16, 2018**

FILED: APRIL 4, 2018

VERIFICATION

COMMONWEALTH OF KENTUCKY)
) SS:
COUNTY OF JEFFERSON)

The undersigned, **Michael P. Drake**, being duly sworn, deposes and says that he is Director, Generation Services for LG&E and KU Services Company, and that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge and belief.



Michael P. Drake

Subscribed and sworn to before me, a Notary Public in and before said County and State, this 4~~th~~ day of April 2018.



(SEAL)

Notary Public

My Commission Expires:
JUDY SCHOOLER
Notary Public, State at Large, KY
My commission expires July 11, 2018
Notary ID # 512743

Corrected Attachment to Response to PSC-1 Question No. 15 Filed 4/4/2018 (Changes Highlighted in Grey)

Louisville Gas & Electric Company
May 2017 through October 2017

Unit and Outage Type (F=Forced; S=Scheduled)		Scheduled		Actual*		HOURS OF DURATION		REASON FOR DEVIATION FROM SCHEDULED MAINTENANCE OR REASON FOR FORCED OUTAGE AS APPROPRIATE
		FROM	TO	FROM	TO	Scheduled	Actual*	
Mill Creek Unit 1 - Coal - 303 MW	S	4/1/2017 0:00	4/30/2017 23:59	4/1/2017 0:36	5/1/2017 0:00	719:59	719:24	Minor turbine overhaul
In-service August 1972	S	5/1/2017 0:00	5/1/2017 7:24	5/1/2017 0:00	5/1/2017 7:24	7:24	7:24	Minor turbine overhaul planned extension
Mill Creek Unit 2 - Coal - 301 MW	S	5/2/2017 21:20	5/3/2017 23:37	5/2/2017 21:20	5/3/2017 23:37	26:17	26:17	Deaerator repair
In-service July 1974								
Mill Creek Unit 3 - Coal - 391 MW	F			5/20/2017 1:17	5/20/2017 16:41		15:24	Boiler steam valve packing leak and repair
In-service August 1978	S	5/20/2017 16:41	5/23/2017 0:01	5/20/2017 16:41	5/23/2017 0:01	55:20	55:20	Air preheating coil cleaning
Mill Creek Unit 4 - Coal - 477 MW	S	5/12/2017 21:22	5/13/2017 16:41	5/12/2017 21:22	5/13/2017 16:41	19:19	19:19	Reheat stop valve maintenance
In-service September 1982	F			6/27/2017 12:32	6/28/2017 14:01		25:29	Condenser tube leak repair
	S	10/28/2017 4:00	11/27/2017 3:59	10/27/2017 23:31	11/26/2017 0:00	719:59	696:29	Minor boiler overhaul
Trimble County Unit 1 - Coal - 383 MW	S	6/9/2017 10:09	6/11/2017 23:41	6/9/2017 10:09	6/11/2017 23:41	61:32	61:32	Boiler waterwall tube leak repair
In-service December 1990	S	6/25/2017 12:09	6/27/2017 21:11	6/25/2017 12:09	6/27/2017 21:11	57:02	57:02	Boiler waterwall tube leak repair
75% ownership share of 511 MW	S	9/23/2017 0:00	11/26/2017 23:59	9/24/2017 1:45	11/25/2017 2:05	1559:59	1488:20	Major turbine overhaul
Trimble County Unit 2 - Coal - 549 MW	F			4/26/2017 18:30	5/3/2017 17:01		166:31	Boiler waterwall tube leak repair
In-service January 2011	F			5/31/2017 13:51	6/4/2017 2:31		84:40	Controls system - loss of boiler feed pump control
75% ownership share of 732 MW jointly owned with KU	F			6/4/2017 15:46	6/8/2017 15:18		95:32	Boiler feed pump high vibration
	F			7/30/2017 0:53	8/3/2017 19:06		114:13	Boiler waterwall tube leak repair
	F			9/22/2017 23:57	9/23/2017 13:39		13:42	Repair superheat spray valve
Cane Run Unit 7 - Gas CC - 642 MW	S	5/13/2017 0:00	5/28/2017 23:59	5/12/2017 18:04	5/16/2017 18:07	383:59	96:03	Planned overhaul
In-service June 2015	S	5/22/2017 20:58	5/27/2017 0:00	5/22/2017 20:58	5/27/2017 0:00	99:02	99:02	Heat Recovery Steam Generator (HRSG) drain line replacement
Jointly owned with KU	S	5/27/2017 0:00	5/27/2017 8:53	5/27/2017 0:00	5/27/2017 8:53	8:53	8:53	HRSG drain line replacement maintenance outage extension
	S	6/19/2017 8:57	6/22/2017 12:00	6/19/2017 8:57	6/22/2017 12:00	75:03	75:03	Steam valve repair
	S	9/30/2017 0:00	10/29/2017 23:59	9/29/2017 18:22	10/30/2017 0:00	719:59	725:38	Steam turbine inspection
	S	10/30/2017 0:00	11/17/2017 12:44	10/30/2017 0:00	11/17/2017 12:44	444:44	444:44	Steam turbine inspection extension and repair
E. W. Brown Unit 5 - Gas CT - 112 MW	S	9/23/2017 0:00	11/19/2017 23:59	9/22/2017 9:56	11/14/2017 17:50	1391:59	1279:54	Major overhaul
In-service June 2001								
Jointly owned with KU								

*Actual outage dates and hours of duration include scheduled and forced outages.

Louisville Gas & Electric Company
May 2017 through October 2017

Unit and Outage Type (F=Forced; S=Scheduled)	Scheduled		Actual*		HOURS OF DURATION		REASON FOR DEVIATION FROM SCHEDULED MAINTENANCE OR REASON FOR FORCED OUTAGE AS APPROPRIATE	
	FROM	TO	FROM	TO	Scheduled	Actual*		
E. W. Brown Unit 6 - Gas CT - 146 MW	S	9/15/2017 6:08	9/15/2017 16:09	9/15/2017 6:08	9/15/2017 16:09	10:01	10:01	Main transformer - testing
In-service August 1999	S	10/12/2017 6:52	10/12/2017 20:14	10/12/2017 6:52	10/12/2017 20:14	13:22	13:22	Circuit breaker - test and repair
Jointly owned with KU	S	10/27/2017 8:15	10/27/2017 20:09	10/27/2017 8:15	10/27/2017 20:09	11:54	11:54	Circuit breaker - test and repair
E. W. Brown Unit 7 - Gas CT - 146 MW	F			9/14/2017 6:33	9/14/2017 16:09		9:36	Main transformer - testing
In-service August 1999	S							
Jointly owned with KU								
Cane Run Unit 11 - Gas CT - 14 MW	S	6/27/2017 5:11	6/27/2017 18:59	6/27/2017 5:11	6/27/2017 18:59	13:48	13:48	Substation construction
In-service June 1968	S	7/5/2017 6:05	7/5/2017 13:44	7/5/2017 6:05	7/5/2017 13:44	7:39	7:39	Substation construction
	F			7/24/2017 10:43	7/25/2017 10:33		23:50	Switchyard system protection devices
	S	7/31/2017 7:15	8/1/2017 18:17	7/31/2017 7:15	8/1/2017 18:17	35:02	35:02	Substation construction
Paddys Run Unit 11 - Gas CT - 12 MW	S	5/31/2017 7:48	6/1/2017 13:42	5/31/2017 7:48	6/1/2017 13:42	29:54	29:54	Generator cooling system maintenance
In-service June 1968	F			7/13/2017 14:20	7/18/2017 11:18		116:58	Lube oil system instrumentation
	S	7/19/2017 8:05	7/19/2017 16:59	7/19/2017 8:05	7/19/2017 16:59	8:54	8:54	Substation maintenance
Paddys Run Unit 12 - Gas CT - 23 MW	S	8/7/2017 7:30	8/7/2017 15:52	8/7/2017 7:30	8/7/2017 15:52	8:22	8:22	Substation maintenance
In-service July 1968								
Paddys Run Unit 13 - Gas CT - 147 MW	S	5/8/2017 0:22	5/12/2017 13:35	5/8/2017 0:22	5/12/2017 13:35	109:13	109:13	Transmission gas line replacement outage
In-service June 2001	F			10/25/2017 5:03	10/26/2017 13:24		32:21	Hydrogen system meter repair
Jointly owned with KU								
Trimble County Unit 5 - Gas CT - 157 MW	S	3/25/2017 0:00	5/7/2017 23:59	3/25/2017 2:00	5/7/2017 17:15	1055:59	1047:15	Generator and gas path inspection
In-service May 2002	S	8/29/2017 1:18	8/31/2017 19:12	8/29/2017 1:18	8/31/2017 19:12	65:54	65:54	Generator oil system repair
Jointly owned with KU	F			9/25/2017 12:12	9/26/2017 3:13		15:01	"C" Phase motor operated disconnect repair
Trimble County Unit 6 - Gas CT - 157 MW	S	4/22/2017 0:00	4/30/2017 23:59	4/22/2017 0:01	5/1/2017 0:00	215:59	215:59	Gas line inspection and maintenance
In-service May 2002	S	5/1/2017 0:00	5/1/2017 9:15	5/1/2017 0:00	5/1/2017 9:15	9:15	9:15	Gas control valve repair
Jointly owned with KU	S	9/1/2017 10:56	9/4/2017 8:44	9/1/2017 10:56	9/4/2017 8:44	69:48	69:48	Gas detectors repairs

*Actual outage dates and hours of duration include scheduled and forced outages.

Louisville Gas & Electric Company
May 2017 through October 2017

Unit and Outage Type (F=Forced; S=Scheduled)	Scheduled		Actual*		HOURS OF DURATION		REASON FOR DEVIATION FROM SCHEDULED MAINTENANCE OR REASON FOR FORCED OUTAGE AS APPROPRIATE	
	FROM	TO	FROM	TO	Scheduled	Actual*		
Trimble County Unit 7 - Gas CT - 157 MW	S	5/31/2017 3:04	6/1/2017 14:47	5/31/2017 3:04	6/1/2017 14:47	35:43	35:43	Fuel piping and valve maintenance
In-service June 2004	S	6/28/2017 6:18	6/28/2017 13:13	6/28/2017 6:18	6/28/2017 13:13	6:55	6:55	Compressor washing
Jointly owned with KU	S	10/7/2017 0:00	10/15/2017 23:59	10/10/2017 1:06	10/19/2017 0:00	215:59	214:54	Borescope inspection
	F			10/19/2017 0:00	10/26/2017 14:47		182:47	Repair generator gas side hydrogen seals
Trimble County Unit 8 - Gas CT - 157 MW	F			8/18/2017 12:47	8/18/2017 23:23		10:36	Generator breaker failure and repair
In-service June 2004	S	10/7/2017 0:00	10/15/2017 23:59	10/10/2017 1:06	10/18/2017 16:08	215:59	207:02	Borescope inspection
Jointly owned with KU	S	10/20/2017 4:50	10/20/2017 13:45	10/20/2017 4:50	10/20/2017 13:45	8:55	8:55	Starting system - load commutated inverter (TC7 shared)
Trimble County Unit 9 - Gas CT - 157 MW	S	6/10/2017 3:02	6/10/2017 10:16	6/10/2017 3:02	6/10/2017 10:16	7:14	7:14	Preparation work for emergency auxiliary generator tie-in
In-service July 2004	S	6/24/2017 3:30	6/24/2017 13:21	6/24/2017 3:30	6/24/2017 13:21	9:51	9:51	Preparation work for emergency auxiliary generator tie-in
Jointly owned with KU	S	7/3/2017 6:10	7/3/2017 12:16	7/3/2017 6:10	7/3/2017 12:16	6:06	6:06	Compressor washing
Trimble County Unit 10 - Gas CT - 157 MW	S	6/10/2017 3:02	6/10/2017 10:16	6/10/2017 3:02	6/10/2017 10:16	7:14	7:14	Preparation work for emergency auxiliary generator tie-in
In-service July 2004	S	6/24/2017 3:30	6/24/2017 13:48	6/24/2017 3:30	6/24/2017 13:48	10:18	10:18	Preparation work for emergency auxiliary generator tie-in
Jointly owned with KU	F			10/11/2017 8:24	10/11/2017 16:19		7:55	Starting system - load commutated inverter
Zorn Unit 1 - Gas CT - 14 MW	S	5/3/2017 8:00	5/4/2017 6:59	5/3/2017 8:00	5/4/2017 6:59	22:59	22:59	Gas line maintenance
In-service May 1969	F			5/30/2017 7:50	6/5/2017 11:01		147:11	Air compressor repair
	S	9/7/2017 5:37	9/7/2017 19:43	9/7/2017 5:37	9/7/2017 19:43	14:06	14:06	Gas line maintenance
	S	10/9/2017 20:00	11/7/2017 8:45	10/9/2017 20:00	11/7/2017 8:45	684:45	684:45	Gas line repair

*Actual outage dates and hours of duration include scheduled and forced outages.

Original Attachment to Response to PSC-1 Question No. 15 Filed 3/2/2018

Louisville Gas & Electric Company
May 2017 through October 2017

Unit and Outage Type (F=Forced; S=Scheduled)	Scheduled		Actual*		HOURS OF DURATION		REASON FOR DEVIATION FROM SCHEDULED MAINTENANCE OR REASON FOR FORCED OUTAGE AS APPROPRIATE	
	FROM	TO	FROM	TO	Scheduled	Actual*		
Mill Creek Unit 1 - Coal - 303 MW	No outages > or = 6 hours							
In-service August 1972								
Mill Creek Unit 2 - Coal - 301 MW	No outages > or = 6 hours							
In-service July 1974								
Mill Creek Unit 3 - Coal - 391 MW	No outages > or = 6 hours							
In-service August 1978								
Mill Creek Unit 4 - Coal - 477 MW	F		6/27/2017 12:32	6/28/2017 14:01		25:29	Condenser tube leak repair	
In-service September 1982	S	10/28/2017 4:00	11/27/2017 3:59	10/27/2017 23:31	11/26/2017 0:00	719:59	696:29	Minor boiler overhaul
Trimble County Unit 1 - Coal - 383 MW	S	6/9/2017 10:09	6/11/2017 23:41	6/9/2017 10:09	6/11/2017 23:41	61:32	61:32	Boiler waterwall tube leak repair
In-service December 1990	S	6/25/2017 12:09	6/27/2017 21:11	6/25/2017 12:09	6/27/2017 21:11	57:02	57:02	Boiler waterwall tube leak repair
75% ownership share of 511 MW	S	9/23/2017 0:00	11/26/2017 23:59	9/24/2017 1:45	11/25/2017 2:05	1559:59	1488:20	Major turbine overhaul
Trimble County Unit 2 - Coal - 549 MW	F			5/31/2017 13:51	6/4/2017 2:31		84:40	Controls system - loss of boiler feed pump control
In-service January 2011	F			6/4/2017 15:46	6/8/2017 15:18		95:32	Boiler feed pump high vibration
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	F			9/22/2017 23:57	9/23/2017 13:39		13:42	Repair superheat spray valve
Cane Run Unit 7 - Gas CC - 642 MW	S	6/19/2017 8:57	6/22/2017 12:00	6/19/2017 8:57	6/22/2017 12:00	75:03	75:03	Steam valve repair
In-service June 2015	S	9/30/2017 4:00	10/30/2017 3:59	9/29/2017 18:22	10/30/2017 0:00	719:59	725:38	Steam turbine inspection
Jointly owned with KU	S	10/30/2017 0:00	11/17/2017 12:44	10/30/2017 0:00	11/17/2017 12:44	444:44	444:44	Steam turbine inspection extension and repair
E. W. Brown Unit 5 - Gas CT - 112 MW	S	9/23/2017 4:00	11/20/2017 4:59	9/22/2017 9:56	11/14/2017 17:50	1392:59	1279:54	Major overhaul
In-service June 2001								
Jointly owned with KU								
E. W. Brown Unit 6 - Gas CT - 146 MW	S	9/15/2017 6:08	9/15/2017 16:09	9/15/2017 6:08	9/15/2017 16:09	10:01	10:01	Main transformer - testing
In-service August 1999	S	10/12/2017 6:52	10/12/2017 20:14	10/12/2017 6:52	10/12/2017 20:14	13:22	13:22	Circuit breaker - test and repair
Jointly owned with KU	S	10/27/2017 8:15	10/27/2017 20:09	10/27/2017 8:15	10/27/2017 20:09	11:54	11:54	Instrumentation - maintenance

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Louisville Gas & Electric Company
May 2017 through October 2017

Unit and Outage Type (F=Forced; S=Scheduled)	Scheduled		Actual*		HOURS OF DURATION		REASON FOR DEVIATION FROM SCHEDULED MAINTENANCE OR REASON FOR FORCED OUTAGE AS APPROPRIATE	
	FROM	TO	FROM	TO	Scheduled	Actual*		
E. W. Brown Unit 7 - Gas CT - 146 MW	S	9/14/2017 6:33	9/14/2017 16:09	9/14/2017 6:33	9/14/2017 16:09	9:36	9:36	Main transformer - testing
In-service August 1999								
Jointly owned with KU								
Cane Run Unit 11 - Gas CT - 14 MW	S	6/27/2017 5:11	6/27/2017 18:59	6/27/2017 5:11	6/27/2017 18:59	13:48	13:48	Substation construction
In-service June 1968	S	7/5/2017 6:05	7/5/2017 13:44	7/5/2017 6:05	7/5/2017 13:44	7:39	7:39	Substation construction
	F			7/24/2017 10:43	7/25/2017 10:33		23:50	Switchyard system protection devices
	S	7/31/2017 7:15	8/1/2017 18:17	7/31/2017 7:15	8/1/2017 18:17	35:02	35:02	Substation construction
Paddys Run Unit 11 - Gas CT - 12 MW	S	5/31/2017 7:48	6/1/2017 13:42	5/31/2017 7:48	6/1/2017 13:42	29:54	29:54	Generator cooling system maintenance
In-service June 1968	F			7/13/2017 14:20	7/18/2017 11:18		116:58	Lube oil system instrumentation
	S	7/19/2017 8:05	7/19/2017 16:59	7/19/2017 8:05	7/19/2017 16:59	8:54	8:54	Substation maintenance
Paddys Run Unit 12 - Gas CT - 23 MW	S	8/7/2017 7:30	8/7/2017 15:52	8/7/2017 7:30	8/7/2017 15:52	8:22	8:22	Substation maintenance
In-service July 1968								
Paddys Run Unit 13 - Gas CT - 147 MW	F			10/25/2017 5:03	10/26/2017 13:24		32:21	Hydrogen system meter repair
In-service June 2001								
Jointly owned with KU								
Trimble County Unit 5 - Gas CT - 157 MW	S	8/29/2017 1:18	8/31/2017 19:12	8/29/2017 1:18	8/31/2017 19:12	65:54	65:54	Generator oil system repair
In-service May 2002	F			9/25/2017 12:12	9/26/2017 3:13		15:01	"C" Phase motor operated disconnect repair
Jointly owned with KU								
Trimble County Unit 6 - Gas CT - 157 MW	S	9/1/2017 10:56	9/4/2017 8:44	9/1/2017 10:56	9/4/2017 8:44	69:48	69:48	Gas detectors repairs
In-service May 2002								
Jointly owned with KU								
Trimble County Unit 7 - Gas CT - 157 MW	S	5/31/2017 3:04	6/1/2017 14:47	5/31/2017 3:04	6/1/2017 14:47	35:43	35:43	Fuel piping and valve maintenance
In-service June 2004	S	6/28/2017 6:18	6/28/2017 13:13	6/28/2017 6:18	6/28/2017 13:13	6:55	6:55	Compressor washing
Jointly owned with KU	S	10/7/2017 4:00	10/16/2017 3:59	10/10/2017 1:06	10/19/2017 0:00	215:59	214:54	Borescope inspection
	F			10/19/2017 0:00	10/26/2017 14:47		182:47	Repair generator gas side hydrogen seals

*Actual outage dates and hours of duration include scheduled and forced outages.

Louisville Gas & Electric Company
 May 2017 through October 2017

Unit and Outage Type (F=Forced; S=Scheduled)	Scheduled		Actual*		HOURS OF DURATION		REASON FOR DEVIATION FROM SCHEDULED MAINTENANCE OR REASON FOR FORCED OUTAGE AS APPROPRIATE	
	FROM	TO	FROM	TO	Scheduled	Actual*		
Trimble County Unit 8 - Gas CT - 157 MW	F		8/18/2017 12:47	8/18/2017 23:23		10:36	Generator breaker failure and repair	
In-service June 2004	S	10/7/2017 4:00	10/16/2017 3:59	10/10/2017 1:06	10/18/2017 16:08	215:59	207:02	Borescope inspection
Jointly owned with KU	S	10/20/2017 4:50	10/20/2017 13:45	10/20/2017 4:50	10/20/2017 13:45	8:55	8:55	Starting system - load commutated inverter (TC7 shared)
Trimble County Unit 9 - Gas CT - 157 MW	S	6/10/2017 3:02	6/10/2017 10:16	6/10/2017 3:02	6/10/2017 10:16	7:14	7:14	Preparation work for emergency auxiliary generator tie-in
In-service July 2004	S	6/24/2017 3:30	6/24/2017 13:21	6/24/2017 3:30	6/24/2017 13:21	9:51	9:51	Preparation work for emergency auxiliary generator tie-in
Jointly owned with KU	S	7/3/2017 6:10	7/3/2017 12:16	7/3/2017 6:10	7/3/2017 12:16	6:06	6:06	Compressor washing
Trimble County Unit 10 - Gas CT - 157 MW	S	6/10/2017 3:02	6/10/2017 10:16	6/10/2017 3:02	6/10/2017 10:16	7:14	7:14	Preparation work for emergency auxiliary generator tie-in
In-service July 2004	S	6/24/2017 3:30	6/24/2017 13:48	6/24/2017 3:30	6/24/2017 13:48	10:18	10:18	Preparation work for emergency auxiliary generator tie-in
Jointly owned with KU	F			10/11/2017 8:24	10/11/2017 16:19		7:55	Starting system - load commutated inverter
Zorn Unit 1 - Gas CT - 14 MW	F			5/30/2017 7:50	6/5/2017 11:01		147:11	Air compressor repair
In-service May 1969	S	9/7/2017 5:37	9/7/2017 19:43	9/7/2017 5:37	9/7/2017 19:43	14:06	14:06	Gas line maintenance
	S	10/9/2017 20:00	11/7/2017 8:45	10/9/2017 20:00	11/7/2017 8:45	684:45	684:45	Gas line repair

*Actual outage dates and hours of duration include scheduled and forced outages.