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VIA FEDERAL EXPRESS

January 28, 2019

Ms. Rosemary Chiavetta, Secretary
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
400 North Street
Harrisburg, PA 17120

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PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

**RE: Quarterly Electric System Reliability Report
12 Months Ending December 31, 2018
Docket Nos. M-2016-2522508**

Dear Secretary Chiavetta:

Pursuant to the Commission's May 7, 2004 Final Rulemaking Order amending Electric Service Reliability Regulations (52 Pa. Code §§57.191 - 57.197) at Docket Nos. L-00030161 and M-00991220, UGI Utilities, Inc. - Electric Division ("UGI") hereby files its Quarterly System Reliability Report. This report contains SAIDI, SAIFI, and CAIDI results on a 12-month rolling basis for the period ending December 31, 2018 along with the raw data from the same period. Also included is a breakdown of outages by cause for the 12 months ending December 31, 2018. The actual statistics for SAIDI and CAIDI are favorable to the standard adopted for UGI.

The Office of Consumer Advocate, the Office of Small Business Advocate, the Bureau of Audits, and the Bureau of Technical Utility Services are each being served with copies of this filing.

Questions related to the attached report should be directed to Mr. Vince DeGiusto, Jr. at (570) 830-1289 or email vdegiustojr@ugi.com.

Sincerely,

Eric Sorber
Electric Division, Director - Engineering & Operations

Attachment

cc:

VIA FEDERAL EXPRESS

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**UGI Utilities, Inc. – Electric Division
System Reliability Report:
Quarterly Update**

February 1, 2019

**UGI Utilities, Inc. – Electric Division
System Reliability Report**

§ 57.195(e)(1) – A description of each major event that occurred during the preceding quarter, including the time and duration of the event, the number of customers affected, the cause of the event and any modified procedures adopted in order to avoid or minimize the impact of similar events in the future.

There were no major events during the preceding quarter.

§ 57.195(e)(2) – Rolling 12-month reliability index values (SAIFI, CAIDI, SAIDI and if available, MAIFI) for the EDC’s service territory for the preceding quarter. The report shall include the data used in calculating the indices, namely the average number of customers served, the number of sustained customer interruptions, the number of customers affected and the customer minutes of interruption.

The 12 month rolling reliability results for UGI’s service area are as follows:

	SAIDI	SAIFI	CAIDI
12-Month Standard	256	1.12	228
12-Month Benchmark	140	0.83	169
12 months Ended December 31, 2018	213	1.19	178

SAIDI: System Average Interruption Duration Index
SAIFI: System Average Interruption Frequency Index
CAIDI: Customer Average Interruption Duration Index

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Raw Data: January 2018 – December 2018

Month	SI	TCI	TCB	TMCI
Jan-2018	35	3,397	63,491	676,409
Feb-2018	12	116	63,352	16,175
Mar-2018	91	3,991	63,311	2,916,858
Apr-2018	52	4,494	63,226	1,050,570
May-2018	90	10,269	63,098	2,082,790
Jun-2018	47	7,643	63,023	560,989
Jul-2018	79	26,392	62,999	2,726,606
Aug-2018	32	6,696	62,864	754,177
Sep-2018	39	7,043	62,771	2,103,322
Oct-2018	36	1,017	62,587	158,744
Nov-2018	28	3,083	62,585	221,274
Dec-2018	22	1,264	62,520	174,493
TOTAL	563	75,405	62,986 *	13,442,407

* 12-month arithmetic average

SI: Sustained Interruptions
 TCI: Total Customers Interrupted
 TCB: Total Customer Base
 TMCI: Total Minutes Customer Interruption

SAIDI

The SAIDI value for the 12 months ending December 2018 is 213. This result is 4% lower than results reported through September 2018.

SAIFI

The 12-month rolling SAIFI index decreased from 1.20 in our last quarterly report to 1.19 for the period ending December 2018.

CAIDI

The CAIDI result of 178 for the 12-month reporting period ending December 2018 is down 3% from our last report.

SAIDI and CAIDI index values are above the benchmark levels but fell below the standard levels. The SAIFI index value was above both the benchmark and standard levels. Given the decrease in reliability in 2018, UGI conducted a review of the outage incidents that impacted the UGI service territory over the 12-month period ending September 2018. The data indicates the change in reliability is a result of several significant storm events compounded by the record wet weather in 2018, that resulted in an elevated number of tree related outages as well as two equipment failures/mis-operations. Together these events negatively impacted our facilities, customers, and the resulting metrics. UGI has several ongoing reliability projects and continues

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System Reliability Report**

to look for new reliability solutions that will address some of the problem areas identified in our review. This includes development of new tie-lines, feeder segmentation, line relocations, distribution automation and targeted vegetation management.

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System Reliability Report**

§57.195(e)(5)–Rolling 12 month breakdown and analysis of outage causes during the preceding quarter, including the number and percentage of service outages, the number of customers interrupted, and the customer interruption minutes categorized by outage cause such as equipment failure, animal contact, tree related and so forth. Proposed solutions to identified service problems shall be reported.

Outage by Cause: January 2018 – December 2018

Outage Cause	% Of Total Incidents	Number of Interruptions	Customers Interrupted	Minutes Interrupted
Animal	10.66%	60	536	49,473
Company Agent	0.53%	3	339	2,475
Construction Error	0.00%	0	0	0
Customer Problem	0.36%	2	688	68,712
Dig In	0.18%	1	3	420
Equipment Failure	22.38%	126	21,189	1,841,366
Lightning	4.09%	23	852	102,495
Motor Vehicle	5.33%	30	8,486	1,608,124
Other	1.07%	6	1,178	20,406
Public	0.71%	4	4,321	177,529
Structure Fire	0.00%	0	0	0
Trees	37.30%	210	20,830	6,210,036
Unknown	2.84%	16	2,042	314,706
Weather Related	4.09%	23	10,961	1,795,637
Weather/Snow	0.18%	1	75	27,750
Weather/Ice	0.18%	1	18	1,962
Weather/Wind	10.12%	57	3,887	1,221,316
	100.00%	563	75,405	13,442,407

Proposed Solutions to Identified Problems:

UGI has identified and is addressing an increased number of danger trees resulting from the decline of the Pennsylvania ash tree. This species has been impacted by the Emerald Ash Borer throughout the UGI service territory. UGI has added an additional vegetation crew to assist with an increased number of danger tree removals.

