



UGI Utilities, Inc.
1 UGI Drive
Denver, PA 17517

July 19, 2023

M-2023-3039027- jbs

VIA E-FILING

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

**RE: UGI Utilities, Inc. – Electric Division
Quarterly Electric System Reliability Report
12 Months Ending June 30, 2023
Docket No. 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 No. M-2016-2522508, 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 June 30, 2023 along with the raw data from the same period. Also included is a breakdown of outages by cause for the 12 months ending June 30, 2023.

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 Kyle Stair at (570) 407-2641 or email kstair@ugi.com.

Sincerely,

Eric Sorber
Vice President & General Manager - Electric Division

Attachment

cc: **VIA ELECTRONIC MAIL**

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

July 19, 2023

**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.

No major events occurred 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 June 30, 2023	100	0.76	132

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

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

Raw Data: July 2022 through June 2023

Month	SI	TCI	TCB	TMCI
Jul-2022	132	8,629	62,588	1,995,307
Aug-2022	55	3,836	62,512	229,286
Sep-2022	63	6,443	62,558	628,767
Oct-2022	40	1,059	62,434	257,124
Nov-2022	46	3,505	62,463	330,500
Dec-2022	55	2,259	62,499	288,226
Jan-2023	31	5,470	62,428	507,155
Feb-2023	32	2,951	62,650	632,356
Mar-2023	45	1,829	62,598	284,612
Apr-2023	58	3,510	62,423	275,427
May-2023	34	3,250	62,435	363,679
Jun-2023	65	4,540	62,388	454,974
TOTAL	656	47,281	62,498 *	6,247,413

* 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 June 2023 is 100. This result has decreased 21% from the results reported through March 2023.

SAIFI

The 12-month rolling SAIFI index is 0.76, which has decreased 5% since the result reported for the period ending March 2023.

CAIDI

The CAIDI result of 132 for the 12-month reporting period ending June 2023 has decreased 17% from our last quarterly report.

SAIFI, SAIDI, and CAIDI are all below the 12-Month Standard and the 12-Month Benchmark.

**UGI Utilities, Inc. – Electric Division
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: July 2022 through June 2023

Cause	% of Total Incidents	Number of Interruptions	Customers Interrupted	Minutes Interrupted
Animal	15.70%	103	2,074	98,810
Company Agent	1.98%	13	1,016	15,760
Construction Error	0.30%	2	11	1,097
Customer Problem	0.00%	0	0	0
Dig In	0.61%	4	87	12,276
Equipment Failure	14.18%	93	11,450	1,174,962
Lightning	0.76%	5	439	61,523
Motor Vehicle	3.35%	22	2,734	561,153
Other	1.37%	9	385	12,207
Public	1.07%	7	1,404	357,061
Structure Fire	0.61%	4	101	18,212
Trees	50.91%	334	25,817	3,665,739
Unknown	7.77%	51	1,727	259,556
Weather Related	1.22%	8	35	8,739
Weather/Snow	0.00%	0	0	0
Weather/Ice	0.00%	0	0	0
Weather/Wind	0.15%	1	1	318
TOTAL	100.00%	656	47,281	6,247,413

Proposed Solutions to Identified Problems:

UGI conducted a review of the quarter and found that the most significant contributions to the reliability metrics were associated with vegetation, equipment failures, and wildlife contacts. Off right-of-way tree related outages initiated by severe weather events continue to be the primary outage cause. UGI continues to focus on key capital reliability initiatives in addition to maintaining an aggressive vegetation management program to reduce the frequency of interruptions during high-wind weather events. Of note regarding vegetation management, UGI continues operating at an elevated resource level to increase hazard tree removals and to begin the process of reducing the vegetation trim cycles from nearly 6 years to a goal of 4.5 years. To address equipment failures, UGI continues to replace aging system components through our Long-Term Infrastructure Improvement Plan (LTIP), including wood poles, porcelain insulators, underground cable and open wire secondary. The Company has also recognized a

UGI Utilities, Inc. – Electric Division System Reliability Report

high number of animal related substation outages over the last year which has resulted in additional steps to increase animal guard protection in substations. Looking forward the Company has incorporated animal guard protection as a specific component of all future substation designs.

Weather has also been identified as a significant factor for initiating vegetation and equipment failure outages. UGI continues to storm harden the system through infrastructure upgrades, such as constructing inter-substation tie lines, relocations, adding sectionalizing points, and maintaining an aggressive vegetation management program to mitigate damages from frequent weather events. To aid in overall system reliability, UGI continues to add Distribution Automation (DA) devices, controllable from its Control Center, reducing outage duration by providing remote switching capability. When eventually coupled with fault location, isolation and service restoration technology (FLISR), UGI expects to reduce the amount of sustained customer interruptions and customer minutes interrupted on many poorly performing feeders.