



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

October 29, 2024

**VIA E-FILING**

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

**RE: Amended 2<sup>nd</sup> Quarter Electric System Reliability Report  
12 Months Ending June 30, 2024  
Quarterly Reliability Reporting Docket No. M-2023-3039027  
Major Event Exclusion Docket No. M-2024-3050504**

Dear Secretary Chiavetta:

A Secretarial Letter dated October 15, 2024, at Docket No. M-2024-3050504 found service interruptions occurring on June 21, 2024 at 05:15 PM through June 22, 2024, at 05:16 PM included in UGI Utilities, Inc. - Electric Division (“UGI”)’s request for exclusion of major outage for reliability reporting purposes qualified as a major event. In accordance with 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 hereby files an Amended 2<sup>nd</sup> Quarter System Reliability Report for 2024. This amended report contains SAIDI, SAIFI, and CAIDI results on a 12-month rolling basis for the period ending June 30, 2024, 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, 2024.

	SAIDI	SAIFI	CAIDI
12-Month Standard	256	1.12	228
12-Month Benchmark	140	0.83	169
ORIGINAL 2 <sup>nd</sup> Quarter Filing	101	0.70	145
<b>AMENDED 2<sup>nd</sup> Quarter Filing</b>	83	0.59	140

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](mailto:kstair@ugi.com).

Sincerely,

Eric Sorber  
Vice President & General Manager - Electric Division

Attachment

**CERTIFICATE OF SERVICE**

I hereby certify that a true and correct copy of the foregoing has been served upon the following persons, in the manner indicated, in accordance with the requirements of 52 Pa. Code § 1.54 (relating to service by a participant).

cc: **VIA ELECTRONIC MAIL**

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

Originally Filed: July 31, 2024  
Amended: October 29, 2024

**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.**

One major event occurred during the preceding quarter. The major event occurred Friday, June 21, 2024, at approximately 1700 hours when storms began moving across the UGI service territory in Luzerne County. These storms became severe around 2000 hours. High winds, off-right-of-way vegetation, and lightning caused damage to conductors, poles, and other equipment. Of note, contact from an off-right-of-way tree with UGI’s Mountain to Huntsville 69kV transmission line caused a transient line fault and a corresponding disturbance to the 13kV distribution system at the Company’s Huntsville Substation that resulted in an interruption to 5,836 customers. The disturbance to the distribution system was a significant but momentary depression of A phase voltage due to the transmission line fault followed by elevated feeder in-rush and magnetizing currents on A phase supply due to heavy loading. This inrush created unbalance between phases that triggered an operation of a 13kV bus protection scheme, isolating the 13kV bus and interrupting supply to customers. In all, storm damage resulted in 34 outage cases, 6,373 customer outages, and 1,097,330 customer minutes interrupted.

UGI was granted an exemption for this major event by Secretarial Letter dated October 15, 2024, at Docket No. M-2024-3050504. As such, the interruption data related to this major event is excluded from the calculation of the metrics in this quarterly update.

**§ 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
<b>12-Month Standard</b>	<b>256</b>	<b>1.12</b>	<b>228</b>
<b>12-Month Benchmark</b>	<b>140</b>	<b>0.83</b>	<b>169</b>
12 months Ended June 30, 2024	83	0.59	140

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 2023 through June 2024**

<b>Month</b>	<b>SI</b>	<b>TCI</b>	<b>TCB</b>	<b>TMCI</b>
Jul-2023	63	2,251	62,371	353,739
Aug-2023	57	1,918	62,405	216,667
Sep-2023	30	2,940	62,470	341,292
Oct-2023	41	1,469	62,383	152,287
Nov-2023	23	1,088	62,374	56,421
Dec-2023	33	2,656	62,422	142,372
Jan-2024	84	3,184	62,232	457,166
Feb-2024	32	941	62,681	108,675
Mar-2024	46	3,673	62,723	424,850
Apr-2024	39	3,051	62,627	291,633
May-2024	37	4,422	62,589	301,464
Jun-2024	143	9,505	62,626	2,359,094
<b>TOTAL</b>	<b>628</b>	<b>37,098</b>	<b>62,492 *</b>	<b>5,205,660</b>

\* 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 2024 is 83. This result has increased 54% from the results reported through March 2024.

**SAIFI**

The 12-month rolling SAIFI index is 0.59, which has increased 18% since the result reported for the period ending March 2024.

**CAIDI**

The CAIDI result of 140 for the 12-month reporting period ending June 2024 has increased 31% 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 2023 through June 2024**

Cause	% of Total Incidents	Number of Interruptions	Customers Interrupted	Minutes Interrupted
Animal	17.36%	109	797	80,229
Company Agent	1.75%	11	11	1,057
Construction Error	0.32%	2	332	47,642
Customer Problem	0.00%	0	0	0
Dig In	0.48%	3	3	375
Equipment Failure	12.10%	76	3,811	165,197
Lightning	1.27%	8	295	62,799
Motor Vehicle	3.18%	20	4,251	351,353
Other	1.91%	12	860	79,720
Public	1.11%	7	142	23,076
Structure Fire	0.32%	2	373	27,391
Trees	54.62%	343	25,484	4,307,781
Unknown	4.78%	30	733	54,736
Weather Related	0.80%	5	6	4,304
Weather/Snow	0.00%	0	0	0
Weather/Ice	0.00%	0	0	0
Weather/Wind	0.00%	0	0	0
<b>TOTAL</b>	<b>100.00%</b>	<b>628</b>	<b>37,098</b>	<b>5,205,660</b>

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

### **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 weather-initiated vegetation issues which continue to be the primary source of interruptions and minutes interrupted. 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 and other severe weather events. Of note regarding vegetation management, UGI continues operating at an elevated resource level to increase hazard tree removals and continues 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 (LTIIP), including wood poles, porcelain insulators, underground cable, and open wire secondary. The Company has also recognized a high number of animal related outages over the last year which has resulted in additional steps to increase animal guard protection in substations and review distribution animal guarding standards.

Weather has been identified as a significant factor for initiating vegetation related 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.