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October 30, 2024

VIA ELECTRONIC FILING

Ms. Rosemary Chiavetta, Secretary
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
2nd Floor, Room-N201
400 North Street
Harrisburg, PA 17120

Re: **Duquesne Light Company**
Quarterly Electric Reliability Report – 3rd Quarter 2024
Docket No. M-2023-3039027

Dear Secretary Chiavetta:

Enclosed please find Duquesne Light Company's Quarterly Electric Reliability Report for the third quarter of 2024. The report is submitted in two versions, proprietary and non-proprietary. Enclosed is the **non-proprietary** version, which can be made available to the public at the above-referenced docket. The proprietary version has been submitted via overnight mail.

If you have any questions regarding the information contained in this filing, please contact me or Mary Kellam at mkellam@duqlight.com or 412-393-6099.

Sincerely,

A handwritten signature in blue ink that reads "Smaye".

Shelly-Ann Maye
Senior Manager, Regulatory Performance

Enclosure

cc:

Dan Searfoorce (dsearfoorc@pa.gov)
John Van Zant (jvanzant@pa.gov)
Patrick Cicero (ra-oca@paoca.org)
Steven Gray, Sharon Webb (ra-sba@pa.gov)



*Duquesne Light Company
Third Quarter 2024
Electric Reliability Report
to the
Pennsylvania Public Utility Commission*

October 30, 2024

57.195 Reporting Requirements

(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 in the third quarter of 2024.

(e)(2) *Rolling 12-month reliability index values (SAIFI, CAIDI, SAIDI, and if available, MAIFI) for the electric distribution company’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. If MAIFI values are provided, the report shall also include the number of customer momentary interruptions.*

**RELIABILITY BENCHMARKS AND STANDARDS
 Duquesne Light Company**

System Performance Measures with Major Events Excluded

Entire System				
	SAIDI	SAIFI	CAIDI	MAIFI
Benchmark	126	1.17	108	*
12 Month Standard	182	1.40	130	*
2024 3Q (Rolling 12 mo.)	85.4	0.63	135	*

* Sufficient information to calculate MAIFI is unavailable.

Duquesne Light has been a strong performer in reliability over the past 15 years. The Company’s success in this area can be at least partially attributed to the wide deployment of intelligent devices on the system that can quickly isolate a fault to the least number of customers.

Through the third quarter of 2024 (rolling 12 months), Duquesne Light’s CAIDI is above the benchmark and the 12-month standard, while SAIDI and SAIFI performance are below both the benchmark and standard.

Formulae used in calculating the indices

$$SAIFI = \frac{(Total\ kVA - interrupted) - (kVA\ impact\ of\ major\ events)}{System\ Connected\ kVA}$$

$$SAIDI = \frac{(Total\ kVA\ minutes - interrupted) - (kVA\ minute\ impact\ of\ major\ events)}{System\ Connected\ kVA}$$

$$CAIDI = \frac{SAIDI}{SAIFI}$$

Data used in calculating the indices

Total kVA Interrupted for the Period:	5,016,662 kVA
Total kVA-Minutes Interrupted:	675,569,003 kVA-Minutes
System Connected Load as of 9/30/24	7,869,335 kVA

(e)(3) *Rolling 12-month reliability index values (SAIFI, CAIDI, SAIDI, and if available, MAIFI) and other pertinent information such as customers served, number of interruptions, customer minutes interrupted, number of lockouts, and so forth, for the worst performing 5% of the circuits in the system. An explanation of how the electric distribution company defines its worst performing circuits shall be included.*

Circuits are evaluated based on a rolling twelve-month count of lockouts of protective devices (circuit breakers, reclosers, sectionalizers, and line fuses) and on total accumulated kVA-minutes of customer outage time. Circuits that experience multiple lockouts for a device in combination with high total accumulated kVA-minutes of customer outage time in each quarterly rolling twelve-month period are identified and the top 5% are reported as worst-performing circuits.

The list of worst-performing circuits is ranked first by the number of kVA-minutes of outage experienced by customers on these circuits (highest to lowest) and then by device lockouts from highest to lowest. This places a higher priority on circuits with repeat outages affecting customers (SAIFI) while also focusing on outage duration for customers on these circuits (SAIDI).

While repairs are made as quickly as possible following every customer outage, circuits that appear on the worst performing circuits list are targeted for more extensive remediation based on a detailed review of historical outage records looking at root cause problems, field evaluations, and engineering analysis. Project scopes developed as a result of this analysis are incorporated into the Company's Work Plan for engineering, design, and construction. Since the focus is on reducing future customer outage duration and not just outage frequency, special attention is given to establishing/optimizing sectionalizing switch locations and alternate feeds to problem-prone areas of circuits and, where possible, replacing or eliminating equipment that has historically required lengthy repair times as well as a high failure rates.

At the end of each quarter, all previously identified circuits are reviewed to verify that past remediation efforts are working and to look for new reliability issues that may be developing. Serious new reliability problems are addressed immediately without waiting additional periods to collect information. This analysis method provides for timely review of circuit performance by in-house staff and it adapts to the dynamic nature of Duquesne Light's distribution system.

Special Note: *Because of sophisticated protection and remote automation technologies that the Company uses on its distribution circuits, not all customers on a circuit identified as a worst performing circuit actually experience significant reliability issues. Circuit problems are generally isolated to one load block of a circuit in less than five minutes with downstream customers only experiencing short momentary outages. Customers upstream of a circuit problem may not even experience a momentary outage. Therefore, many customers on a circuit identified as a poor performer do not experience problems with reliability.*

See Attachment A for a list of worst-performing circuits showing feeder device lockouts and reliability index values associated with each circuit.

(e)(4) Specific remedial efforts taken and planned for the worst performing 5% of the circuits as identified in paragraph (3).

Third Quarter 2024 Rolling 12-Month Circuit Data

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
<p>1 23781 Valley Recloser</p>	<p>3 Total Outage(s) 3rd Quarter Outages:</p> <ul style="list-style-type: none"> • Three outages were caused by tree fall-in Inside ROW. <p>Previous Quarter Outages:</p> <ul style="list-style-type: none"> • No outage(s). 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2023 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2028. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q4 2023. Next maintenance proposed for 2029.
<p>2 23650 Neville Fuse Link</p>	<p>4 Total Outage(s) 3rd Quarter Outages:</p> <ul style="list-style-type: none"> • No outage(s). <p>Previous Quarter Outages:</p> <ul style="list-style-type: none"> • Three outages were by unknown causes. • One outage was caused by animal contact. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2022 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2027. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q3 2023. Next maintenance proposed for 2027.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
<p>3 22869 Midland-Cooks Ferry Recloser</p>	<p>3 Total Outage(s) 3rd Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by a storm. <p>Previous Quarter Outages:</p> <ul style="list-style-type: none"> • Two outages were by unknown causes. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2024 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2029. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q4 2022. Performed mid-cycle maintenance Q4 2023. Next maintenance proposed for 2027.
<p>4 23970 Port Perry Breaker</p>	<p>2 Total Outage(s) 3rd Quarter Outages:</p> <ul style="list-style-type: none"> • Two outages were by unknown causes. <p>Previous Quarter Outages:</p> <ul style="list-style-type: none"> • No outage(s). 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2024 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2029. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management will be completed Q4 2024. Next maintenance proposed for 2029.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
<p>5 23804 Elwyn Recloser</p>	<p>2 Total Outage(s) 3rd Quarter Outages:</p> <ul style="list-style-type: none"> • No outage(s). <p>Previous Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by contact with company equipment by vehicle. • One outage was caused by equipment failure. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2024 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2029. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q2 2024. Next maintenance proposed for 2027.
<p>6 23690 Brunot Island Recloser</p>	<p>1 Total Outage(s) 3rd Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by tree fall-in Outside ROW. <p>Previous Quarter Outages:</p> <ul style="list-style-type: none"> • No outage(s). 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2023 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2028. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q4 2022. Next maintenance proposed for 2026.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
<p>7 23870 Mt. Nebo Fuse Link</p>	<p>4 Total Outage(s) 3rd Quarter Outages:</p> <ul style="list-style-type: none"> • No outage(s). <p>Previous Quarter Outages:</p> <ul style="list-style-type: none"> • Three outages were caused by tree fall-in Outside ROW. • One outage was by an unknown cause. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2022 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2027. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q4 2021. Performed mid-cycle maintenance Q4 2023. Next maintenance proposed for 2025.
<p>8 23612 Findlay Breaker</p>	<p>5 Total Outage(s) 3rd Quarter Outages:</p> <ul style="list-style-type: none"> • No outage(s). <p>Previous Quarter Outages:</p> <ul style="list-style-type: none"> • Four outages were caused by equipment failure. • One outage was caused by a storm. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2022 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2027. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q1 2021. Next maintenance proposed for 2025.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
<p>9 23716 Pine Creek Fuse Link</p>	<p>6 Total Outage(s) 3rd Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by animal contact. • One outage was by an unknown cause. <p>Previous Quarter Outages:</p> <ul style="list-style-type: none"> • Two outages were by unknown causes. • One outage was caused by a grow-in by tree, brush, or vine. • One outage was caused by a storm. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2023 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2026. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q4 2023. Next maintenance proposed for 2027.
<p>10 23620 Raccoon Fuse Link</p>	<p>3 Total Outage(s) 3rd Quarter Outages:</p> <ul style="list-style-type: none"> • No outage(s). <p>Previous Quarter Outages:</p> <ul style="list-style-type: none"> • Two outages were caused by tree fall-in Outside ROW. • One outage was by an unknown cause. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2023 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2028. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management to be completed Q4 2024. Next maintenance proposed for 2029.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
<p>11 23670 Montour Fuse Link</p>	<p>1 Total Outage(s) 3rd Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by tree fall-in Outside ROW. <p>Previous Quarter Outages:</p> <ul style="list-style-type: none"> • No outage(s). 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2021 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2026. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q3 2022. Next maintenance proposed for 2026.
<p>12 23791 Legionville Recloser</p>	<p>4 Total Outage(s) 3rd Quarter Outages:</p> <ul style="list-style-type: none"> • No outage(s). <p>Previous Quarter Outages:</p> <ul style="list-style-type: none"> • Two outages were caused by tree fall-in Outside ROW. • One outage was by an unknown cause. • One outage was caused by a storm. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2023 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2028. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management will be completed Q4 2024. Next maintenance proposed for 2029.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
<p>13 23614 Findlay Fuse Link</p>	<p>1 Total Outage(s) 3rd Quarter Outages:</p> <ul style="list-style-type: none"> • No outage(s). <p>Previous Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by equipment failure. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2021 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2026. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q4 2021. Next maintenance proposed for 2026.
<p>14 23843 Arsenal Recloser</p>	<p>2 Total Outage(s) 3rd Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was by an unknown cause. • One outage was caused by a storm. <p>Previous Quarter Outages:</p> <ul style="list-style-type: none"> • No outage(s). 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2021 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2026. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q4 2022. Next maintenance proposed for 2026.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
<p>15 23640 Midland Breaker</p>	<p>3 Total Outage(s) 3rd Quarter Outages:</p> <ul style="list-style-type: none"> • No outage(s). <p>Previous Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was by an unknown cause. • One outage was caused by tree fall-in Outside ROW. • One outage was caused by equipment failure. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2022 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2027. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management will be completed Q4 2024. Next maintenance proposed for 2029.
<p>16 23750 Dravosburg Fuse Link</p>	<p>3 Total Outage(s) 3rd Quarter Outages:</p> <ul style="list-style-type: none"> • Two outages were caused by animal contact. <p>Previous Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by animal contact. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2023 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2026. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q4 2022. Next maintenance proposed for 2026.
<p>17 4628 Trafford Fuse Link</p>	<p>1 Total Outage(s) 3rd Quarter Outages:</p> <ul style="list-style-type: none"> • No outage(s). <p>Previous Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by a storm. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2023 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2028. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q2 2023. Next maintenance proposed for 2028.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
<p>18 23695 Brunot Island Recloser</p>	<p>1 Total Outage(s) 3rd Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by a storm. <p>Previous Quarter Outages:</p> <ul style="list-style-type: none"> • No outage(s). 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2024 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2029. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q4 2023. Next maintenance proposed for 2029.
<p>19 23953 Evergreen Breaker</p>	<p>6 Total Outage(s) 3rd Quarter Outages:</p> <ul style="list-style-type: none"> • Two outages were by unknown causes. • One outage was caused by equipment failure <p>Previous Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by contact with plane, helicopter, balloon, etc. • One outage was caused by contact with company equipment by vehicle. • One outage was caused by high winds where wires were blown together. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2020 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2025. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q2 2022. Next maintenance proposed for 2025.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
<p>20 22862 Crescent-Sewickley Breaker</p>	<p>1 Total Outage(s) 3rd Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by animal contact. <p>Previous Quarter Outages:</p> <ul style="list-style-type: none"> • No outage(s). 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2020 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2025. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q4 2021. Next maintenance proposed for 2025.
<p>21 23842 Arsenal Recloser</p>	<p>4 Total Outage(s) 3rd Quarter Outages:</p> <ul style="list-style-type: none"> • No outage(s). <p>Previous Quarter Outages:</p> <ul style="list-style-type: none"> • Two outages were caused by equipment failure. • One outage was caused by tree fall-in Outside ROW. • One outage was by an unknown cause. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2020 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2025. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q4 2022. Next maintenance proposed for 2026.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
<p>22 23714 Pine Creek Recloser</p>	<p>4 Total Outage(s) 3rd Quarter Outages:</p> <ul style="list-style-type: none"> • No outage(s). <p>Previous Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by tree fall-in Outside ROW. • One outage was caused by company personnel operating error. • One outage was caused by a storm. • One outage was caused by equipment failure. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2023 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2028. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management will be completed Q4 2024. Next maintenance proposed for 2029.
<p>23 23882 Rankin Breaker</p>	<p>1 Total Outage(s) 3rd Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by tree fall-in Outside ROW. <p>Previous Quarter Outages:</p> <ul style="list-style-type: none"> • No outage(s). 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2020 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2025. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q3 2021. Next maintenance proposed for 2026.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
<p>24 23707 North Fuse Link</p>	<p>3 Total Outage(s) 3rd Quarter Outages:</p> <ul style="list-style-type: none"> • No outage(s). <p>Previous Quarter Outages:</p> <ul style="list-style-type: none"> • Three outages were caused by equipment failure. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2022 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2027. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q4 2022. Next maintenance proposed for 2027.
<p>25 22359 Woodville- Columbia Steel Breaker</p>	<p>2 Total Outage(s) 3rd Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by a storm. • One outage was caused by equipment failure. <p>Previous Quarter Outages:</p> <ul style="list-style-type: none"> • No outage(s). 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2023 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2028. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q4 2021. Next maintenance proposed for 2026.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
<p>26 23646 Wolfe Run Breaker</p>	<p>6 Total Outage(s) 3rd Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by contact with company equipment by vehicle. • One outage was caused by tree fall-in Outside ROW. • One outage was by an unknown cause. • One outage was caused by equipment failure. <p>Previous Quarter Outages:</p> <ul style="list-style-type: none"> • Two outages were caused by tree fall-in Outside ROW. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2023 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2028. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q4 2023. Next maintenance proposed for 2029.
<p>27 23869 Wildwood Fuse Link</p>	<p>2 Total Outage(s) 3rd Quarter Outages:</p> <ul style="list-style-type: none"> • No outage(s). <p>Previous Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by tree fall-in Outside ROW. • One outage was caused by tree fall-in Inside ROW. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2023 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2026. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q4 2020. Next maintenance proposed for 2025.

(e)(5) *A 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 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.*

Proposed solutions to identified service problems are listed in Section (e)(4) above.

October 1, 2023 through September 30, 2024

No Major Event Exclusions

CAUSE	NO. OF OUTAGES	OUTAGE PERCENTAGE	kVA TOTAL	kVA PERCENTAGE	kVA-Minute TOTAL	kVA-Minute PERCENTAGE
Storms	320	11%	683,386	14%	141,704,103	21%
Trees (Inside ROW)	204	7%	283,485	6%	42,021,352	6%
Trees (Outside ROW)	712	25%	1,338,407	27%	210,566,407	31%
Equipment Failures	571	20%	1,384,477	28%	148,735,615	22%
Overloads	11	0%	9,291	0%	86,963	0%
Vehicles	375	13%	499,424	10%	58,180,664	9%
Contact/Dig In	28	1%	52,740	1%	4,707,554	1%
Animal Contact	115	4%	158,449	3%	14,096,730	2%
Unknown	339	12%	370,310	7%	33,116,509	5%
Other	132	5%	236,693	5%	22,353,106	3%
TOTALS	2,807	100%	5,016,662	100%	675,569,003	100%

(e)(6) Quarterly and year-to-date information on progress toward meeting transmission and distribution inspection and maintenance goals/ objectives.

2024 Transmission and Distribution Goals and Objectives							
Program Project	Unit of Measurement	Target for 2024 3Q	Actual for 2024 3Q	3Q % Complete	Targets for Year 2024	Actual YTD for 2024	Year End % Complete
Communications Goals							
Communication Battery Maintenance	Batteries	28	28	100%	112	84	75%
Overhead Distribution Goals							
Recloser Inspections	Circuits	34	30	88%	114	94	82%
Pole Inspections	Poles	5,716	6,642	116%	17,742	16,400	92%
OH Line Inspections	Circuits	34	30	88%	114	94	82%
OH Transformer Inspections	Circuits	34	30	88%	114	94	82%
Padmount & Below Grade Insp	Circuits	0	0	N/A	78	79	101%
Overhead Transmission Goals							
Helicopter Inspections	Structures	0	0	N/A	590	590	100%
Ground Inspections	Circuits	0	0	N/A	7	10	143%
Substations Goals							
Circuit Breaker Maintenance	Breakers	75	65	87%	305	263	86%
Station Transformer Maintenance	Transformers	12	19	158%	48	39	81%
Station Battery Maintenance	Batteries	213	222	104%	852	618	73%
Station Relay Maintenance	Relays	291	262	90%	1,359	1,146	84%
Station Inspections*	Sites	471	470	100%	1,884	1,412	75%
Underground Distribution Goals							
Manhole Inspections	Manholes	174	95	55%	700	637	91%
Major Network Insp (Prot Relay)	Ntwk Protectors	23	13	57%	92	73	79%
Minor Network Visual Inspection (Transformer/Protector/Vault)	Ntwk Transformers	144	0	0%	576	571	99%
Underground Transmission Goals							
Pressurization and Cathodic Protection Plant Inspection	Work Orders	106	134	126%	424	315	74%
Vegetation Management Goals							
Overhead Line Clearance	Circuit Overhead Miles	350	292	83%	1,300	815	63%

From September 27 through 30, 2024, DLC deployed 41 people outside its service territory to assist with restoration efforts in response to Hurricane Helene.

* The quarterly Station Inspection target was fully met. Only 470 were available for inspection because one substation (Cochran) is currently out of service and being converted to a Distribution Load Center, which will be on a different inspection schedule.

(e)(7) *Quarterly and year-to-date information on budgeted versus actual transmission and distribution operation and maintenance expenditures in total and detailed by the EDC's own functional account code or FERC account code as available.*

Budget Variance Recap – O&M Expenses
For the Three Months Ending September 30, 2024
(In Whole Dollars)
Favorable/(Unfavorable)

	Total Actual	Total Budget	Variance
Customer Service	\$68,202,430	\$51,229,621	(\$16,972,809)
Human Resources	\$6,908,735	\$17,651,896	\$10,743,161
Operations/Operation Services	\$39,584,427	\$39,177,123	(\$407,304)
Technology	\$37,671,495	\$40,601,201	\$2,929,706
General Corporate*	\$60,486,940	\$52,871,164	(\$7,615,776)
Total	\$212,854,027	\$201,531,005	(\$11,323,022)

*Includes Finance, Office of General Counsel, and Senior Management costs.

Budget Variance Recap – O&M Expenses
Year to Date through September 30, 2024
(In Whole Dollars)
Favorable/(Unfavorable)

	Total Actual	Total Budget	Variance
Customer Service	\$23,237,943	\$17,690,066	(\$5,547,877)
Human Resources	\$6,231,676	\$5,889,302	(\$342,374)
Operations/Operation Services	\$14,081,055	\$13,357,225	(\$723,830)
Technology	\$13,008,526	\$13,577,282	\$568,756
General Corporate*	\$21,882,041	\$17,236,554	(\$4,645,487)
Total	\$78,441,241	\$67,750,429	(\$10,690,812)

*Includes Finance, Office of General Counsel, and Senior Management costs.

(e)(8) *Quarterly and year-to-date information on budgeted versus actual transmission and distribution capital expenditures in total and detailed by the EDC's own functional account code or FERC account code as available.*

Budget Variance Recap – Capital
 For the Three Months Ending September 30, 2024
 (In Whole Dollars)
 Favorable/(Unfavorable)

	Total Actual	Total Budget	Variance
Customer Service	\$8,723,418	\$16,935,522	\$8,212,104
Human Resources	\$17,387,580	\$12,801,440	(\$4,586,140)
Operations/Operation Services	\$274,767,385	\$283,957,099	\$9,189,714
Technology	\$41,775,298	\$36,268,115	(\$5,507,183)
General Corporate*	\$71,829,557	\$67,781,492	(\$4,048,065)
Total	\$414,483,238	\$417,743,668	\$3,260,430

*Includes Finance, Office of General Counsel, and Senior Management costs.

Budget Variance Recap – Capital
 Year to Date through September 30, 2024
 (In Whole Dollars)
 Favorable/(Unfavorable)

	Total Actual	Total Budget	Variance
Customer Service	\$3,306,118	\$5,573,474	\$2,267,356
Human Resources	\$6,285,540	\$4,399,884	(\$1,885,656)
Operations/Operation Services	\$118,762,796	\$100,819,492	(\$17,943,304)
Technology	\$15,854,558	\$8,831,781	(\$7,022,777)
General Corporate*	\$25,027,426	\$22,455,883	(\$2,571,543)
Total	\$169,236,438	\$142,080,514	(\$27,155,924)

*Includes Finance, Office of General Counsel, and Senior Management costs.

(e)(9) *Dedicated staffing levels for transmission and distribution operation and maintenance at the end of the quarter, in total and by specific category (e.g., linemen, technician, and electrician).*

Job Title	Number of Employees
Telecom Splicer/Trouble Tech	6
Electronic Technician	15
Telecom Technician	2
Total Telecom	23
Electrical Equipment Technician	37
Protection & Control Technician	36
Yard Group Leader	2
Rigger	6
Laborer	3
Total Substation	84
UG Splicer	49
UG Cable Inspector	11
Cable Tester	0
Network Operator	9
Equipment Material Handler	1
Total Underground	70
Apprentice T&D	0
General Lineworker Apprentice	78
Equipment Attendant	1
Lineworker	133
Service Crew Leader	5
Equipment Material Handler	4
Total Overhead	221
Right of Way Agent	5
Surveyor	4
Total Real Estate	9
Total Street Light Changer	5
Engineering Technician	53
GIS Technician	11
T&D Mobile Worker	7
Test Technician, Mobile	5
Total Engineering	76
Senior Operator Apprentice	0
Senior Operator	34
Troubleshooter	15
Total Senior Operator/Troubleshooter	49
Total Switching Dispatcher	14
Total Employees	551

(e)(10) *Quarterly and year-to-date information on contractor hours and dollars for transmission and distribution operation and maintenance.*

CONFIDENTIAL INFORMATION

REDACTED

(e)(11) *Monthly call-out acceptance rate for transmission and distribution maintenance workers presented in terms of both the percentage of accepted call-outs and the amount of time it takes the EDC to obtain the necessary personnel. A brief description of the EDC's call-out procedure should be included when appropriate.*

CONFIDENTIAL INFORMATION

Call-Out Acceptance Rate – 3rd Quarter 2024

REDACTED

Amount of Time it Takes to Obtain the Necessary Personnel – 3rd Quarter 2024

REDACTED

(d)(2) *The name, title, telephone number and e-mail address of the persons who have knowledge of the matters, and can respond to inquiries.*

Matthew Thimons – General Manager, Asset Management
(412) 393-8639, mthimons@duqlight.com

Jaime Bachota – Assistant Controller, Accounting & Financial Reporting
(412) 393-1122, jbachota@duqlight.com

Wesley Terek – General Manager, System Planning & Protection
(412) 393-8324, wterek@duqlight.com

ATTACHMENT A

(e)(3) *Rolling 12-month reliability index values (SAIFI, CAIDI, SAIDI, and if available, MAIFI) and other pertinent information such as customers served, number of interruptions, customer minutes interrupted, number of lockouts, and so forth, for the worst performing 5% of the circuits in the system.¹*

Rank	Circuit No	Circuit Name	Equipment Type	Device	Last Lockout	Ckt KVA	Total KVA Min Interrupted	Total KVA Interrupted	SAIDI	SAIFI	CAIDI
1	23781	Valley	RECLOSER	WR535	2024-09-12	22318	17999859	86434	806.517563	3.872837	208.249751
2	23650	Neville	FUSE LINK	Pole # 370835	2024-05-01	37675	16620484	55222	441.127882	1.465626	300.97577
3	22869	Midland-Cooks Ferry	RECLOSER	WR946	2024-07-10	31120	13110435	61444	421.286471	1.974421	213.372094
4	23970	Port Perry	S.S. BREAKER	BREAKER	2024-08-29	37754	12813710	64244	339.400062	1.701646	199.453801
5	23804	Elwyn	RECLOSER	ER268	2024-03-09	16419	12518608	31914	762.446433	1.943723	392.2607
6	23690	Brunot Is.	RECLOSER	WR394	2024-08-07	22166	11656888	13875	525.913271	0.626223	840.136072
7	23870	Mt. Nebo	FUSE LINK	Pole # 226181	2024-06-26	36855	11561645	113360	316.266359	3.10235	101.990516
8	23612	Findlay	S.S. BREAKER	BREAKER	2024-05-11	39849	11435262	173331	286.964842	4.349695	65.973553
9	23716	Pine Creek	FUSE LINK	Pole # 39414	2024-07-06	37926	10901448	77581	287.691943	2.047313	140.516982
10	23620	Raccoon	FUSE LINK	Pole # 128264	2024-06-11	28166	10296114	34859	365.55116	1.237626	295.364583
11	23670	Montour	FUSE LINK	Pole # 139679	2024-07-17	29050	10244505	81399	348.263966	2.733999	125.855415
12	23791	Legionville	RECLOSER	WR559	2024-04-17	17678	10168034	41829	575.18011	2.366161	243.085753
13	23614	Findlay	FUSE LINK	Pole # 337220	2024-06-07	30512	10155446	36417	332.834491	1.19353	278.865529
14	23843	Arsenal	RECLOSER	WR678	2024-08-06	22975	8997678	63394	391.629074	2.759259	141.932643
15	23640	Midland	S.S. BREAKER	BREAKER	2024-05-23	31306	8872086	81349	283.3989	2.59851	109.062016
16	23750	Dravosburg	FUSE LINK	Pole # 161642	2024-09-10	30215	8622610	68169	285.375144	2.25613	126.488726
17	4628	Trafford	FUSE LINK	Pole # 172740	2024-06-18	5770	7714928	6911	1337.075909	1.197746	1116.325857
18	23695	Brunot Is.	RECLOSER	ER136	2024-08-30	26281	7343096	58216	279.407023	2.215136	126.135357
19	23953	Evergreen	S.S. BREAKER	BREAKER	2024-08-06	36135	7210906	42693	199.554613	1.181485	168.901365
20	22862	Crescent-Sewickley	S.S. BREAKER	BREAKER	2024-07-25	20413	7159304	59544	350.722774	2.916964	120.235523
21	23842	Arsenal	RECLOSER	WR697	2024-05-25	33185	7062539	75650	212.823232	2.279644	93.358083
22	23714	Pine Creek	RECLOSER	WR976	2024-05-25	23632	6866384	51387	289.843973	2.168862	133.621032
23	23882	Rankin	S.S. BREAKER	BREAKER	2024-08-17	17924	6541652	50886	364.966078	2.838986	128.555044
24	23707	North	FUSE LINK	Pole # 63489	2024-06-06	25430	6450047	19789	253.639283	0.778175	325.941027
25	22359	Woodville-Columbia Steel	S.S. BREAKER	BREAKER	2024-08-30	877	6087161	4221	6940.890535	4.812998	1442.11348
26	23646	Wolfe Run	S.S. BREAKER	BREAKER	2024-09-19	32060	6086001	91581	189.831596	2.856549	66.454843
27	23869	Wildwood	FUSE LINK	Pole # 126251	2024-05-27	27897	5887892	34149	211.072206	1.224175	172.417698

¹ The "Device" column indicates the device that most frequently operated and locked out in response to a fault.