Lindsay Baxter
Manager, Regulatory and Clean Energy Strategy
lbaxter@duqlight.com
(412) 393-6224

April 28, 2022

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 – 1st Quarter 2022
Docket No. M-2016-2522508

Dear Secretary Chiavetta:

The report is submitted in two versions, proprietary and non-proprietary. Enclosed is the **non-propriety** version, which can be made available to the public at the above-referenced docket. The proprietary version has been submitted via overnight mail to the Secretary.

If you have any questions regarding the information contained in this filing, please feel free to contact me.

Sincerely,

Lindsay A. Baxter
Manager, Regulatory and Clean Energy Strategy

Enclosure
cc (w/ redacted version):
Dan Searfoorce (dsearfoorc@pa.gov)
Harry Bidelspach (hbidelspac@pa.gov)
John Van Zant (jvanzant@pa.gov)
Patrick Cicero (pcicero@paoca.org)
Steven Gray (sgray@pa.gov)
Sharon Webb (swebb@pa.gov)

Duquesne Light Company
First Quarter 2022

Electric Reliability Report

to the

Pennsylvania Public Utility Commission

April 28, 2022

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.*

No major events occurred during the first quarter of 2022.

(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	*
2022 1Q (Rolling 12 mo.)	190	0.98	193	*

* 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 first quarter of 2022 (rolling 12 months), Duquesne Light's CAIDI and SAIDI are above both the benchmark and the 12-month standard, while SAIFI performance is below both the benchmark and standard. The increase in CAIDI and SAIDI is primarily attributable to weather impacts. Over the past decade, fluctuations have been observed in the average, minimum, and maximum temperature; wind speed; total inches of precipitation; and the number of days with precipitation. Notable increases of approximately 20 mph have been observed in both sustained and gust wind as well as amount of and days with precipitation. During the rolling 12 months, Duquesne Light experienced nine PUC reportable storms impacting our system. Two of those storms

affected over 50,000 customers, which is just below the threshold for an excludable event (10% of customers or approximately 60,000 customers).[1]

Formulas used in calculating the indices

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

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

$$CAIDI = SAIDI/SAIFI$$

Data used in calculating the indices

Total kVA Interrupted for the Period:	7,803,418 kVA
Total kVA-Minutes Interrupted:	1,505,917,458 kVA-Minutes
System Connected Load as of 3/31/22	7,932,778 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

[1] See Docket No. M-2021-3023564, Outage Reports to inform the Commission of utility service outages per 52 Pa. Code § 67.1.

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 operations. 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).

First Quarter 2022 Rolling 12 Month Circuit Data

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
1 22869 Midland-Cooks Ferry Fuse Link	5 Total Outage(s) First Quarter Outage(s): • One outage was caused by icing. Previous Outage(s): • One outage was caused by contact with vehicle. • One outage was caused by tree fall-in Outside ROW. • One outage was caused by outside contractor. • One outage was due to an unknown cause.	• Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2018 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2023. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q2 2018. Scheduled for 2022.
2 23610 Findlay Breaker	1 Total Outage(s) First Quarter Outage(s): • No outage(s). Previous Outage(s): • One outage was caused by storms.	• 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 2021. Proposed for 2026.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
3 23705 North Fuse Link	4 Total Outage(s) First Quarter Outage(s): • One outage was caused by high winds. Previous Outage(s): • Two outages were due to an unknown cause. • One outage was caused by tree fall-in Outside ROW.	• 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. Proposed for 2025.
4 23770 Traverse Run Fuse Link	7 Total Outage(s) First Quarter Outage(s): • Three outages were caused by high winds. • One outage was caused by wires wrapping together which caused a short circuit. • One outage was caused by storms. Previous Outage(s): • Two outages were due to an unknown cause.	• Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2018. • Next Overhead Line Inspection planned for 2023. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q1 2020. Proposed for 2025.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
5 23921 Logans Ferry Sectionalizer	2 Total Outage(s) First Quarter Outage(s): • No outage(s). Previous Outage(s): • One outage was due to an unknown cause. • One outage was caused by tree fall-in Outside ROW.	• Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2017 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2022. • The Company plans to perform reliability enhancements, such as installing additional overhead protective devices. • Vegetation Management completed Q4 2020. Proposed for 2024.
6 23707 North Breaker	2 Total Outage(s) First Quarter Outage(s): • No outage(s). Previous Outage(s): • One outage was caused by tree fall-in Outside ROW. • One outage was caused by equipment failure.	• Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2017. • Next Overhead Line Inspection planned for 2022. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q3 2017. Proposed for 2022.
7 23701 North Breaker	3 Total Outage(s) First Quarter Outage(s): • One outage was due to an unknown cause. Previous Outage(s): • One outage was caused by high winds. • One outage was caused by tree fall-in Outside ROW.	• Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2018. • Next Overhead Line Inspection planned for 2023. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q4 2021. Proposed for 2025.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
8 23743 Oakland Recloser	4 Total Outage(s) First Quarter Outage(s): • One outage was caused by equipment failure. Previous Outage(s): • Two outages were caused by tree fall-in Outside ROW. • One outage was caused by equipment failure.	• Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2021. • Next Overhead Line Inspection planned for 2026. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q2 2020. Proposed for 2024.
9 23614 Findlay Fuse Link	2 Total Outage(s) First Quarter Outage(s): • No outage(s). Previous Outage(s): • One outage was caused by animal contact. • One outage was caused by equipment failure.	• Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2020 and all high priority repairs completed. • Overhead Line Inspection planned for 2025. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q2 2021. Proposed for 2025.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
10 23602 Clinton[2] Fuse Link	7 Total Outage(s) First Quarter Outage(s): • One outage was due to an unknown cause. • One outage was caused by icing. • One outage was caused by high winds. • One outage was caused by storms. Previous Outage(s): • One outage was caused by tree fall-in Outside ROW. • One outage was caused by high winds. • One outage was caused by equipment failure.	• Permanent repairs were made following each outage as necessary. • Overhead Line Inspection planned for 2022. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management proposed for 2025.
11 23868 Wildwood Sectionalizer	3 Total Outage(s) First Quarter Outage(s): • No outage(s). Previous Outage(s): • One outage was caused by tree fall-in Outside ROW. • One outage was caused by high winds. • One outage was caused by equipment failure.	• Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2020 and all high priority repairs completed. • Overhead Line Inspection planned for 2025. • The Company plans to perform reliability enhancements, such as installing new switching devices. • Vegetation Management completed Q3 2020. Proposed for 2025.

[2] Clinton 23602 was established as a new circuit in 2021 which absorbed a portion of the existing Traverse Run Circuit D23770 (inspected in 2018).

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
12 23670 Montour Fuse Link	3 Total Outage(s) First Quarter Outage(s): • One outage was caused by tree fall-in Outside ROW. • One outage was caused by tree fall-in Inside ROW. Previous Outage(s): • One outage was caused by wires wrapping together which caused a short circuit.	• Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2021. • Overhead Line Inspection planned for 2026. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q3 2018. Proposed for 2022.
13 23700 North Breaker	2 Total Outage(s) First Quarter Outage(s): • No outage(s). Previous Outage(s): • Two outages were caused by equipment failure.	• Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2017. • Next Overhead Line Inspection planned for 2022. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q3 2017. Proposed for 2022.
14 23816 Bellevue Recloser	3 Total Outage(s) First Quarter Outage(s): • One outage was caused by contact with vehicle. • One outage was caused by equipment failure. Previous Outage(s): • One outage was caused by tree fall-in Inside ROW.	• Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2017 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2022. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q2 2017. Proposed for 2023.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
15 23706 North Fuse Link	4 Total Outage(s) First Quarter Outage(s): • One outage was due to an unknown cause. Previous Outage(s): • One outage was caused by animal contact. • One outage was caused by storms. • One outage was caused by equipment failure.	• Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2018 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2023. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q3 2018. Proposed for 2022.
16 23869 Wildwood Fuse Link	4 Total Outage(s) First Quarter Outage(s): • One outage was caused by tree fall-in Outside ROW. Previous Outage(s): • Three outages were caused by tree fall-in Outside ROW.	• Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2017 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2022. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q2 2018. Proposed for 2025.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
17 23745 Oakland Fuse Link	1 Total Outage(s) First Quarter Outage(s): • No outage(s). Previous Outage(s): • One outage was caused by equipment failure.	• 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 2020. Proposed for 2024.
18 23750 Dravosburg Recloser	3 Total Outage(s) First Quarter Outage(s): • One outage was caused by equipment failure. Previous Outage(s): • One outage was caused by tree fall-in Outside ROW. • One outage was due to an unknown cause.	• 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 2018. Proposed for 2022.
19 23709 North Fuse Link	2 Total Outage(s) First Quarter Outage(s): • No outage(s). Previous Outage(s): • One outage was caused by storms. • One outage was caused by tree fall-in Outside ROW.	• 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 2017. Proposed for 2022.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
20 23802 Elywn Fuse Link	1 Total Outage(s) First Quarter Outage(s): • One outage was caused by equipment failure. Previous Outage(s): • No outage(s).	• Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2017 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2022. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q2 2020. Proposed for 2024.
21 23612 Findlay Sectionalizer	2 Total Outage(s) First Quarter Outage(s): • Two outages were caused by tree fall-in Outside ROW. Previous Outage(s): • No outage(s).	• Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2017 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2022. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q1 2021. Proposed for 2025.
22 23841 Arsenal Fuse Link	2 Total Outage(s) First Quarter Outage(s): • No outage(s). Previous Outage(s): • One outage was due to an unknown cause. • One outage was caused by storms.	• Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2017 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2022. • The Company plans to perform reliability enhancements, such as reconfiguring switching devices. • Vegetation Management completed Q4 2018. Proposed for 2022.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
23 23846 Arsenal Breaker	5 Total Outage(s) First Quarter Outage(s): • One outage was caused by contact by balloon. • One outage was caused by contact with vehicle. • One outage was caused by tree fall-in Outside ROW. Previous Outage(s): • One outage was caused by contact by balloon. • One outage was caused by equipment failure.	• Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2017 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2022. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q4 2021. Proposed for 2026.
24 23661 Crescent Fuse Link	3 Total Outage(s) First Quarter Outage(s): • Two outages were caused by tree fall-in Outside ROW. Previous Outage(s): • One outage was caused by storms.	• Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2018 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2023. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q3 2020. Proposed for 2026.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
25 23822 Highland Fuse Link	2 Total Outage(s) First Quarter Outage(s): • One outage was due to an unknown cause. • One outage was caused by equipment failure. Previous Outage(s): • No outage(s).	• Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2019 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2024. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q2 2019. Proposed for 2023.
26 23860 Wilson Breaker	1 Total Outage(s) First Quarter Outage(s): • No outage(s). Previous Outage(s): • One outage was caused by tree fall-in Inside ROW.	• Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2017 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2022. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q4 2018. Proposed for 2022.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
27 23672 Montour Fuse Link	2 Total Outage(s) First Quarter Outage(s): • One outage was caused by icing. • One outage was caused by equipment failure. Previous Outage(s): • No outage(s).	• Permanent repairs were made following each outage as necessary. • Distribution Overhead Line Inspection performed in 2018 and all high priority repairs completed. • Next Overhead Line Inspection planned for 2023. • The Company is investigating reliability enhancements for this circuit. • Vegetation Management completed Q3 2018. Proposed for 2022.

(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.

April 1, 2021 through March 31, 2022
No PUC Major Event Exclusions

CAUSE	NO. OF OUTAGES	OUTAGE PERCENTAGE	kVA TOTAL	kVA PERCENTAGE	kVA-MINUTE TOTAL	kVA -MINUTE PERCENTAGE
Storms	610	17%	1,575,784	20%	371,176,173	25%
Trees (Inside ROW)	253	7%	445,277	6%	113,667,956	8%
Trees (Outside ROW)	1,140	32%	2,335,787	30%	616,888,196	41%
Equipment Failures	699	19%	1,640,356	21%	250,076,724	17%
Overloads	59	2%	31,569	1%	1,584,822	1%
Vehicles	174	5%	544,816	7%	73,887,291	5%
Contact/Dig In	42	1%	164,915	2%	12,512,324	1%
Animal Contact	131	4%	194,458	2%	13,611,768	1%
Unknown	355	10%	582,229	7%	32,960,523	2%
Other	135	4%	288,227	4%	19,551,681	1%
TOTALS	3,598	100%	7,803,418	100%	1,505,917,458	100%

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

2022 Transmission and Distribution Goals and Objectives							
Program Project	**Unit of Measurement**	**Target for 2022 1Q**	**Actual for 2022 1Q**	**1Q Percent Complete**	**Targets for Year 2022**	**Actual YTD for 2022**	**Year End % Complete**
Communications Goals							
Communication Battery Maintenance	Batteries	33	27	82%	128	27	21%
Overhead Distribution Goals							
Recloser Inspections	Circuits	39	27	69%	131	27	21%
Pole Inspections	Poles	2,226	2,320	104%	17,814	2,320	13%
OH Line Inspections	Circuits	39	27	69%	131	27	21%
OH Transformer Inspections	Circuits	39	27	69%	131	27	21%
Padmount & Below Grade Insp	Circuits	80	80	100%	80	80	100%
Overhead Transmission Goals							
Helicopter Inspections	Circuits	0	0	N/A	11	0	0%
Ground Inspections	Structures	207	21	10%	347	21	6%
Substations Goals							
Circuit Breaker Maintenance	Breakers	103	122	118%	387	122	32%
Station Transformer Maintenance	Transformers	4	0	0%	49	0	0%
Station Battery Maintenance	Batteries	215	197	92%	860	197	23%
Station Relay Maintenance	Relays	290	491	169%	1,537	491	32%
Station Inspections	Sites	474	474	100%	1,896	474	25%
Underground Distribution Goals							
Manhole Inspections	Manholes	200	313	157%	700	313	45%
Major Network Insp (Prot Relay)	Ntwk Protectors	26	15	58%	92	15	16%
Minor Network Visual Inspection (Transformer/Protector/Vault)	Ntwk Transformers	120	530	442%	576	530	92%
Underground Transmission Goals							
Pressurization and Cathodic Protection Plant Inspection	Work Orders	105	110	105%	424	110	26%
Vegetation Management Goals							
Overhead Line Clearance	Circuit Overhead Miles	325	323	99%	1,300	323	25%

(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 March 31, 2022
(In Whole Dollars)
Favorable/(Unfavorable)

	Total Actual	Total Budget	Variance
Customer Service	$11,913,737	$13,408,053	$1,494,316
Human Resources	$4,914,074	$5,541,315	$627,241
Operations/Operation Services	$12,568,403	$14,216,356	$1,647,953
Technology	$12,292,476	$12,664,455	$371,979
General Corporate*	$20,522,218	$19,704,916	$(817,302)
Total	**$62,210,908**	**$65,535,095**	**$3,324,187**

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

Budget Variance Recap – O&M Expenses
Year to Date through March 31, 2022
(In Whole Dollars)
Favorable/(Unfavorable)

	Total Actual	Total Budget	Variance
Customer Service	$11,913,737	$13,408,053	$1,494,316
Human Resources	$4,914,074	$5,541,315	$627,241
Operations/Operation Services	$12,568,403	$14,216,356	$1,647,953
Technology	$12,292,476	$12,664,455	$371,979
General Corporate*	$20,522,218	$19,704,916	$(817,302)
Total	**$62,210,908**	**$65,535,095**	**$3,324,187**

*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 March 31, 2022
(In Whole Dollars)
Favorable/(Unfavorable)

	Total Actual	Total Budget	Variance
Customer Service	$2,107,240	$2,209,349	$102,109
Human Resources	$3,806,285	$4,115,749	$309,464
Operations/Operation Services	$54,002,532	$76,538,133	$22,535,601
Technology	$8,568,830	$11,553,530	$2,984,700
General Corporate*	$13,553,421	$16,525,552	$2,972,131
Total	**$82,038,308**	**$110,942,313**	**$28,904,005**

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

Budget Variance Recap - Capital
Year to Date through March 31, 2022
(In Whole Dollars)
Favorable/(Unfavorable)

	Total Actual	Total Budget	Variance
Customer Service	$2,107,240	$2,209,349	$102,109
Human Resources	$3,806,285	$4,115,749	$309,464
Operations/Operation Services	$54,002,532	$76,538,133	$22,535,601
Technology	$8,568,830	$11,553,530	$2,984,700
General Corporate*	$13,553,421	$16,525,552	$2,972,131
Total	**$82,038,308**	**$110,942,313**	**$28,904,005**

*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	17
Telecom Technician	2
Total Telecom	**25**
Electrical Equipment Technician	39
Protection & Control Technician	37
Yard Group Leader	3
Rigger	5
Laborer	3
Total Substation	**87**
UG Splicer	36
UG Cable Inspector	10
Cable Tester	1
Network Operator	10
Equipment Material Handler	1
Total Underground	**58**
Apprentice T&D	1
Equipment Attendant	1
Lineworker	141
Service Crew Leader	3
Equipment Material Handler	6
Total Overhead	**152**
Right of Way Agent	4
Surveyor	4
Total Real Estate	**8**
Total Street Light Changer	**6**
Engineering Technician	47
GIS Technician	8
T&D Mobile Worker	7
Test Technician, Mobile	5
Total Engineering	**67**
Senior Operator Apprentice	58
Senior Operator	29
Troubleshooter	17
Total Senior Operator/Troubleshooter	**104**
Total Switching Dispatcher	**12**
Total Employees	**519**

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

CONFIDENTIAL INFORMATION

1st Quarter 2022

Contractor Dollars: REDACTED
Contractor Hours: REDACTED

YTD 2022

Contractor Dollars: REDACTED
Contractor Hours: 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 – 1st Quarter 2022
REDACTED

Amount of Time it Takes to Obtain the Necessary Personnel – 1st Quarter 2022
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

Jason Keller – Director, Operations Center
(412) 393-2897, jkeller@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.*[3]

Rank	Circuit No	Circuit Name	Equipment Type	Device	Last Lockout	Ckt kVA	Total kVA Min Interrupted	Total kVA Interrupted	SAIDI	SAIFI	CAIDI
1	22869	Midland-Cooks Ferry	FUSE LINK	Pole # 326014	2022-02-04	31120	37839927	139137	1156.371114	4.234399	271.961642
2	23610	Findlay	S.S. BREAKER	BREAKER	2021-08-13	27946	34139407	38480	1596.194454	1.799139	887.198726
3	23705	North	FUSE LINK	Pole # 236801	2022-02-18	39215	33996782	65380	901.120714	1.725025	519.987488
4	23770	Traverse Run	FUSE LINK	Pole # 289389	2022-03-31	18265	33824616	94781	1734.518307	4.285137	356.871271
5	23921	Logans Ferry	SECTIONALIZER	EA1155	2021-08-29	30891	26995699	103528	873.901751	3.351396	260.757466
6	23707	North	S.S. BREAKER	BREAKER	2021-12-01	24830	23820127	38936	959.328513	1.568103	611.776427
7	23701	North	S.S. BREAKER	BREAKER	2022-02-02	20760	22499987	62894	1083.814401	3.029575	357.74457
8	23743	Oakland	RECLOSER	ER99	2022-01-05	29193	21378300	109512	732.309114	3.751309	195.214223
9	23614	Findlay	FUSE LINK	Pole # 341159	2021-09-22	27879	20414447	47355	732.251766	1.69859	431.093802
10	23602	Clinton	FUSE LINK	Pole # 231501	2022-03-07	25379	20155720	84809	794.1888963	3.341699831	237.660153
11	23868	Wildwood	SECTIONALIZER	WA741	2021-08-29	33034	19864146	145790	601.324271	4.413331	136.251773
12	23670	Montour	FUSE LINK	Pole # 196741	2022-02-04	34595	19843200	188501	573.585777	5.448792	105.268407
13	23700	North	S.S. BREAKER	BREAKER	2022-03-31	20734	18699434	94851	901.872961	4.574659	197.145354
14	23816	Bellevue	RECLOSER	WR580	2022-03-31	22512	18508227	40053	822.149386	1.779184	462.093401
15	23706	North	FUSE LINK	Pole # 247652	2022-03-18	32220	18113966	63628	562.196337	1.974797	284.685452
16	23869	Wildwood	FUSE LINK	Pole # 126251	2022-03-19	24841	17972359	113744	723.495792	4.578881	158.007094
17	23745	Oakland	FUSE LINK	Pole # 354132	2021-11-15	29485	16483458	14876	559.045548	0.504527	1108.057139
18	23750	Dravosburg	RECLOSER	ER13	2022-02-18	30215	16293999	86419	539.268541	2.860135	188.546488
19	23709	North	FUSE LINK	Pole # 94015	2021-10-21	22779	15488570	69222	679.949514	3.03885	223.75213
20	23802	Elywn	FUSE LINK	Pole # 363973	2022-03-02	24374	15033657	46557	616.790718	1.910108	322.908628
21	23612	Findlay	SECTIONALIZER	EA898	2022-02-03	37333	15001987	82066	401.842524	2.198215	182.803926
22	23841	Arsenal	FUSE LINK	Pole # 8979	2021-08-13	35930	14598688	40499	406.309155	1.127163	360.470332
23	23846	Arsenal	S.S. BREAKER	BREAKER	2022-03-28	39783	14144870	120708	355.550612	3.03416	117.182539
24	23661	Crescent	FUSE LINK	Pole # 112116	2022-03-10	30582	13796033	53560	461.546954	1.794525	257.580899
25	23822	Highland	FUSE LINK	Pole # 312050	2022-01-09	28072	13400175	79570	477.350205	2.834496	168.407377
26	23860	Wilson	S.S. BREAKER	BREAKER	2021-09-22	28684	13206667	46576	460.419292	1.623762	283.550906
27	23672	Montour	FUSE LINK	Pole # 81192	2022-02-18	31830	13042449	33603	409.753345	1.055701	388.13347

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