

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



November 2, 2020

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 – 2nd Quarter 2020
Docket No. M-2016-2522508

Dear Secretary Chiavetta:

Enclosed for filing is an amended copy of Duquesne Light Company's Quarterly Electric Reliability Report for the second quarter of 2020. This amended filing corrects errors on page 2, section (e)2, and page 15, section (e)5, and should replace the previously filed version of the report in its entirety.

The amended report is submitted in two versions, proprietary and non-proprietary. The proprietary version contains all the information required by 52 Pa. Code § 57.195 and is marked as "**Confidential**." It is submitted via email as directed in the Emergency Order dated March 20, 2020 (Docket Number M-2020-3019262). Duquesne Light Company respectfully requests that the proprietary version of the Quarterly Electric Reliability Report not be made available to the public.

The non-proprietary version has been e-filed at the above referenced docket.

If you have any questions regarding the information contained in this filing, please feel free to contact me or Chris Johnson at 412-393-6496 or cjohnson@duqlight.com.

Sincerely,

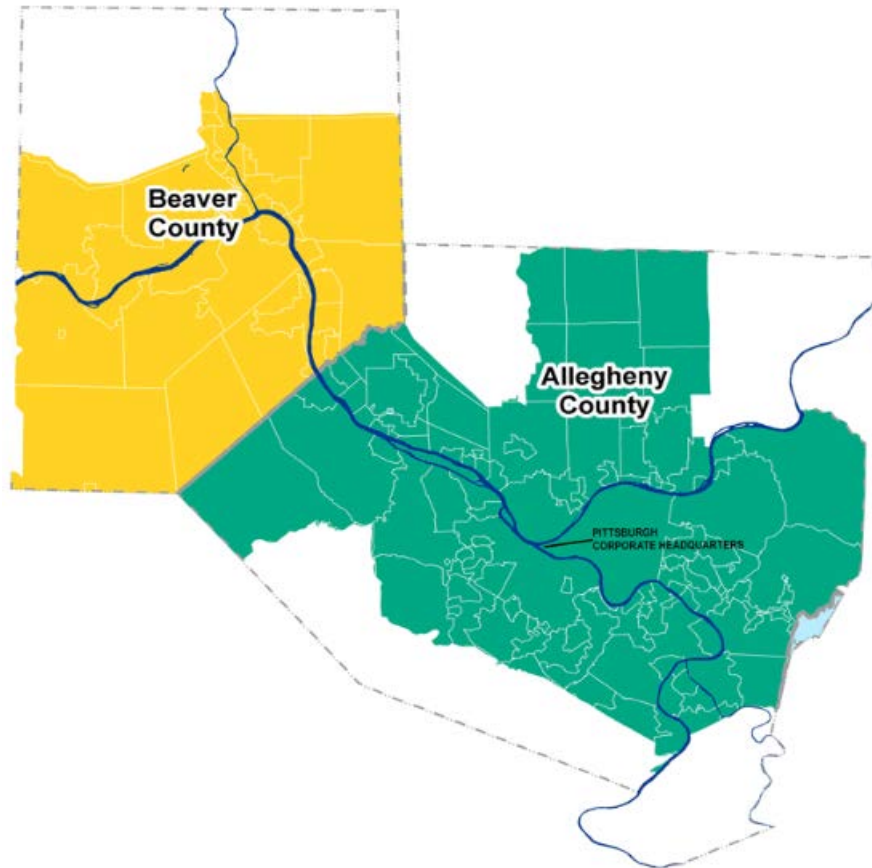
A handwritten signature in blue ink, appearing to be "LBQ", is written over the typed name.

Lindsay A. Baxter
Manager, State Regulatory Strategy

Enclosure

cc (w/ redacted version):

Dan Searfoorce (dsearfoorc@pa.gov)
John Van Zant (jvanzant@pa.gov)
David Washko (dawashko@pa.gov)
Tanya McCloskey (TMcCloskey@paoca.org)
John Evans (jorevan@pa.gov)
Sharon Webb (swebb@pa.gov)



***Duquesne Light Company
Second Quarter 2020
Electric Reliability Report
to the
Pennsylvania Public Utility Commission***

Amended October 30, 2020

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.*

Duquesne Light had one major event that occurred on Wednesday, April 8, 2020. A total of 60,383 customers were affected throughout the course of this storm event, constituting 10% of the 603,313 total customers in Duquesne Light’s service territory.

At approximately 0100 hours on Wednesday, April 8, 2020, strong thunderstorms with heavy rains and high winds, moved through Duquesne Light’s service territory in Allegheny and Beaver counties, causing downed trees on our power lines and damage to our poles and equipment. Service was restored to the last affected customer on Saturday, April 11, 2020 at 1808 hours.

This high wind event ranked among the top four in customer outages over the past decade for Duquesne Light. A confirmed tornado by the National Weather Service (NWS) crossed through our service area in Beaver County. The borough of Ohioville in Beaver County experienced straight line wind damage. The NWS also reported the highest wind speed during this storm was 60 mph and the highest wind gust was 75 mph.

Please see Duquesne Light’s Electric Utility Report of Outage, dated April 24, 2020, and Duquesne Light’s Major Event Exclusion Report, dated April 30, 2030, for more information regarding this outage event.

(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	*
2020 2Q (Rolling 12 mo)	84	0.79	106	*

* Sufficient information to calculate MAIFI is unavailable.

Formulas used in calculating the indices

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

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

$$\text{CAIDI} = \text{SAIDI/SAIFI}$$

Data used in calculating the indices

Total KVA Interrupted for the Period: (excludes the 4/8/20 Major Event that is listed below)	6,100,323 KVA
Total KVA-Minutes Interrupted: (excludes the 4/8/20 Major Event that is listed below)	645,893,918 KVA-Minutes
System Connected Load as of 6/30/20	7,722,291 KVA
April 8, 2020 Major Event	772,911 KVA (10% of System Load) 302,912,154 KVA-Minutes

(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 (SAIFI and 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).

Second Quarter 2020 Rolling 12 Month Circuit Data

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
<p>1 22869 Midland-Cooks Ferry Recloser</p>	<p>5 Total Outages</p> <p>Second Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by a storm. • One outage cause was unknown. <p>Previous Outages:</p> <ul style="list-style-type: none"> • One outage caused by tree fall-in. • One outage caused by equipment failure. • One outage caused by vehicle contact with company equipment. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Distribution Overhead Line Inspection performed in 2019 and all high priority repairs completed. • Vegetation Management completed Q4 2017; scheduled for 2022. • Device coordination review to be completed by end of Q3 2020.
<p>2 23882 Rankin Breaker</p>	<p>3 Total Outages</p> <p>Second Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by tree fall-in, during a storm. <p>Previous Outages:</p> <ul style="list-style-type: none"> • One outage was caused by vehicle contact with company equipment. • One outage was caused by tree fall-in. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Distribution Overhead Line Inspection performed in 2020 and all high priority repairs to be completed by Q3 2020. • Vegetation Management completed Q1 2017; scheduled for 2021.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
<p>3 23714 Pine Creek Breaker</p>	<p>2 Total Outages</p> <p>Second Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by a tree fall-in during a storm. <p>Previous Outages:</p> <ul style="list-style-type: none"> • One outage was caused by tree fall-in. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Distribution Overhead Line Inspection performed in 2020 and all high priority repairs completed. • Vegetation Management completed Q4 2018; scheduled for 2023. • Device coordination review was completed in 2018; no issues were found.
<p>4 23660 Crescent Fuse Link</p>	<p>4 Total Outages</p> <p>Second Quarter Outages:</p> <ul style="list-style-type: none"> • No outages. <p>Previous Outages:</p> <ul style="list-style-type: none"> • Two outages cause unknown. • One outage was caused by high winds. • One outage was caused by lightning. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Distribution Overhead Line Inspection performed in 2020 and all high priority repairs completed. • Fusing coordination review to be completed by end of Q3 2020.
<p>5 23820 Highland Sectionalizer</p>	<p>4 Total Outages</p> <p>Second Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by equipment failure. <p>Previous Outages:</p> <ul style="list-style-type: none"> • Two outages were caused by vehicle contact with company equipment. • One outage was caused by high winds. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Distribution Overhead Line Inspection performed in 2020 and all high priority repairs completed.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
<p>6 23614 Findlay Sectionalizer</p>	<p>4 Total Outages</p> <p>Second Quarter Outages:</p> <ul style="list-style-type: none"> • No outages. <p>Previous Outages:</p> <ul style="list-style-type: none"> • Two outages were caused by equipment failure. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Distribution Overhead Line Inspection scheduled for 2021.
<p>7 23783 Valley Breaker</p>	<p>3 Total Outages</p> <p>Second Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by tree fall-in. <p>Previous Outages:</p> <ul style="list-style-type: none"> • Two outages were caused by vehicle contact with company equipment. • One outage was caused by equipment failure. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Distribution Overhead Line Inspection scheduled for 2021. • Vegetation Management completed Q1 2017; scheduled for 2022.
<p>8 23769 Bryn Mawr Fuse Link</p>	<p>3 Total Outages</p> <p>Second Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by tree fall-in, during a storm. <p>Previous Outages:</p> <ul style="list-style-type: none"> • One outage was caused by tree fall-in. • One outage cause unknown. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Distribution Overhead Line Inspection performed in 2018 and all high priority repairs completed. • Vegetation Management completed Q4 2019; scheduled for 2024. • Fusing coordination review has been completed and fuses to be installed by end of Q3 2020.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
<p>9 23840 Arsenal Recloser</p>	<p>4 Total Outages</p> <p>Second Quarter Outages:</p> <ul style="list-style-type: none"> • No outages. <p>Previous Outages:</p> <ul style="list-style-type: none"> • One outage was caused by contact with company equipment by animal. • Two outages were caused by equipment failure. • One outage was caused by wires wrapped together. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Distribution Overhead Line Inspection performed in 2020 and all high priority repairs completed.
<p>10 23640 Midland Recloser</p>	<p>3 Total Outages</p> <p>Second Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by storm. <p>Previous Outages:</p> <ul style="list-style-type: none"> • Two outages were caused by equipment failure. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Distribution Overhead Line Inspection performed in 2017 and all high priority repairs completed.
<p>11 23821 Highland Recloser</p>	<p>2 Total Outages</p> <p>Second Quarter Outages:</p> <ul style="list-style-type: none"> • One outage caused was unknown. <p>Previous Outages:</p> <ul style="list-style-type: none"> • One outage was caused by tree fall-in. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Distribution Overhead Line Inspection performed in 2020 and all high priority repairs completed. • Vegetation Management completed Q2 2017; scheduled for 2021.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
<p>12 23953 Evergreen Recloser</p>	<p>5 Total Outages</p> <p>Second Quarter Outages:</p> <ul style="list-style-type: none"> • No outages. <p>Previous Outages:</p> <ul style="list-style-type: none"> • Three outages were caused by tree fall-in. • One outage was caused by flood. • One outage was caused by vehicle contact with company equipment. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Distribution Overhead Line Inspection performed in 2020 and all high priority repairs completed. • Vegetation Management completed Q3 2016; scheduled for 2021.
<p>13 4845 Fairview Breaker</p>	<p>4 Total Outages</p> <p>Second Quarter Outages:</p> <ul style="list-style-type: none"> • One outage caused was unknown. • One outage was caused by tree fall-in, during a storm. • One outage was caused by tornado. • One outage was caused by storm. <p>Previous Outages:</p> <ul style="list-style-type: none"> • No outages. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Distribution Overhead Line Inspection performed in 2017 and all high priority repairs completed. • Vegetation Management completed Q4 2018; scheduled for 2023.
<p>14 23844 Arsenal Recloser</p>	<p>2 Total Outages</p> <p>Second Quarter Outages:</p> <ul style="list-style-type: none"> • No outages. <p>Previous Outages:</p> <ul style="list-style-type: none"> • One outage was caused by wires wrapped, during a storm. • One outage was caused by tree fall-in, during a storm. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Distribution Overhead Line Inspection performed in 2020 and all high priority repairs completed. • Vegetation Management completed Q4 2016; scheduled for 2021.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
<p>15</p> <p>23679 Woodville Recloser</p>	<p>3 Total Outages</p> <p>Second Quarter Outages:</p> <ul style="list-style-type: none"> • No outages. <p>Previous Outages:</p> <ul style="list-style-type: none"> • Two outages were caused by tree fall-in. • One outage cause was unknown. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Distribution Overhead Line Inspection performed in 2018 and all high priority repairs completed. • Vegetation Management completed Q2 2016; scheduled Q3 2020.
<p>16</p> <p>23770 Traverse Run Fuse Link</p>	<p>4 Total Outages</p> <p>Second Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by tree fall-in. <p>Previous Outages:</p> <ul style="list-style-type: none"> • Two outages were caused by tree fall-in. • One outage was caused by high winds. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Distribution Overhead Line Inspection performed in 2018 and all high priority repairs completed. • Vegetation Management completed Q2 2016; scheduled Q4 2020. • Fusing coordination review has been completed and fuses to be installed by end of Q3 2020.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
<p>17 23706 North Breaker</p>	<p>3 Total Outages</p> <p>Second Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by tree fall-in. <p>Previous Outages:</p> <ul style="list-style-type: none"> • One outage was caused by tree fall-in. • One outage was caused by equipment failure. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Distribution Overhead Line Inspection scheduled for 2021. • Vegetation Management completed Q3 2018; scheduled for 2022.
<p>18 23921 Logans Ferry Fuse Link</p>	<p>3 Total Outages</p> <p>Second Quarter Outages:</p> <ul style="list-style-type: none"> • No outages <p>Previous Outages:</p> <ul style="list-style-type: none"> • One outages was caused by tree fall-in. • One outage was caused by equipment failure. • One outage was caused by lightning. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Distribution Overhead Line Inspection performed in 2017 and all high priority repairs completed. • Vegetation Management completed Q4 2016; scheduled Q4 2020.
<p>19 4428 Suffolk Breaker</p>	<p>1 Total Outage</p> <p>Second Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by equipment failure. <p>Previous Outages:</p> <ul style="list-style-type: none"> • No outages. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Distribution Overhead Line Inspection performed in 2019 and all high priority repairs completed.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
<p>20 23716 Pine Creek Breaker</p>	<p>2 Total Outages</p> <p>Second Quarter Outages:</p> <ul style="list-style-type: none"> • No outages. <p>Previous Outages:</p> <ul style="list-style-type: none"> • Two outages were caused by tree fall-ins. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Distribution Overhead Line Inspection performed in 2019 and all high priority repairs completed. • Vegetation Management completed Q1 2019; scheduled for 2023.
<p>21 23680 Woodville Fuse Link</p>	<p>2 Total Outages</p> <p>Second Quarter Outages:</p> <ul style="list-style-type: none"> • No outages. <p>Previous Outages:</p> <ul style="list-style-type: none"> • One outage was caused by lightning, during a storm. • One outage was caused by equipment failure. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Distribution Overhead Line Inspection performed in 2017 and all high priority repairs completed.
<p>22 22556 Logans Ferry- U.S. Gypsum Breaker</p>	<p>2 Total Outages</p> <p>Second Quarter Outages:</p> <ul style="list-style-type: none"> • No outages. <p>Previous Outages:</p> <ul style="list-style-type: none"> • Two outages were caused by tree fall-in. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Distribution Overhead Line Inspection performed in 2020 and all high priority repairs completed. • Vegetation Management completed Q4 2016; scheduled Q4 2020.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
<p>23 22155 Rankin- Wilkinsburg Breaker</p>	<p>3 Total Outages</p> <p>Second Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by animal contact with company equipment. <p>Previous Outages:</p> <ul style="list-style-type: none"> • One outage was caused by tree fall-in. • One outage was caused by storm. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Distribution Overhead Line Inspection performed in 2018 and all high priority repairs completed. • Vegetation Management completed Q4 2017; scheduled for 2021.
<p>24 23701 North Fuse Link</p>	<p>6 Total Outages</p> <p>Second Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by animal contact with company equipment. <p>Previous Outages:</p> <ul style="list-style-type: none"> • Four outages were caused by tree fall-in. • One outage cause was unknown. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Distribution Overhead Line Inspection performed in 2017 and all high priority repairs completed. • Vegetation Management completed Q4 2016; scheduled for 2021.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
<p>25 23950 Wilksburg Fuse Link</p>	<p>3 Total Outages</p> <p>Second Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by tree fall-in. <p>Previous Outages:</p> <ul style="list-style-type: none"> • Two outages were caused by tree fall-in. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Distribution Overhead Line Inspection performed in 2020 and all high priority repairs completed. • Vegetation Management completed Q2 2019; scheduled for 2024. • Fusing coordination review has been completed; fuses and load break switches to be installed by end of Q3 2020.
<p>26 22845 Raccoon- Traverse Run Fuse Link</p>	<p>2 Total Outage</p> <p>Second Quarter Outages:</p> <ul style="list-style-type: none"> • No outages. <p>Previous Outages:</p> <ul style="list-style-type: none"> • Two outages were caused by equipment failure. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Distribution Overhead Line Inspection scheduled for 2021.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
<p>27 23781 Valley Fuse Link</p>	<p>5 Total Outages</p> <p>Second Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by storm. • One outage caused was unknown. <p>Previous Outages:</p> <ul style="list-style-type: none"> • One outage was caused by tree fall-in. • One outage was caused by equipment failure. • One outage was caused by vehicle contact with company equipment. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Distribution Overhead Line Inspection performed in 2018 and all high priority repairs completed. • Vegetation Management completed Q4 2018; scheduled for 2023. • Circuit reliability review has been completed; fuses and load break switches to be installed by end of Q3 2020.

(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.

**July 1, 2019 through June 30, 2020 minus
 One PUC Major Event Exclusion that occurred on April 8, 2020**

CAUSE	NO. OF OUTAGES	OUTAGE PERCENTAGE	KVA TOTAL	KVA PERCENTAGE	KVA-MINUTE TOTAL	KVA-MINUTE PERCENTAGE
Storms	316	11%	739,494	12%	117,403,009	18%
Trees (Inside ROW)	170	6%	233,394	4%	40,631,707	6%
Trees (Outside ROW)	823	28%	1,499,770	25%	193,755,168	30%
Equipment Failures	722	25%	1,900,615	31%	173,227,464	27%
Overloads	42	1%	3,446	<1%	333,190	<1%
Vehicles	176	6%	528,294	9%	51,820,210	8%
Contact/Dig In	26	1%	161,271	3%	5,150,852	1%
Animal Contact	125	4%	343,263	6%	10,637,329	2%
Unknown	330	12%	420,600	6%	28,273,935	4%
Other	174	6%	270,176	4%	24,661,054	4%
TOTALS	2,904	100%	6,100,323	100%	645,893,918	100%

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

2020 Transmission and Distribution Goals and Objectives							
Program Project	Unit of Measurement	Target for 2020 2Q	Actual for 2020 2Q	2Q Percent Complete	Targets for Year 2020	Actual YTD for 2020	Year End % Complete
Communications Goals							
Communication Battery Maintenance	Battery Tasks	27	27	100%	108	55	51%
Overhead Distribution Goals							
Recloser Inspections	Circuits	35	71	203%	121	97	80%
Pole Inspections	Poles	6,630	2,528	38%	17677	2,632	15%
OH Line Inspections	Circuits	35	71	79%	121	97	80%
OH Transformer Inspections	Circuits	35	71	203%	121	97	80%
Padmount & Below Grade Insp	Circuits	16	0	0%	76	71	93%
Overhead Transmission Goals							
Helicopter Inspections	Number of Circuits	11	15	136%	11	15	136%
Ground Inspections	Number of Structures	67	0	0%	354	350	99%
Substations Goals							
Circuit Breaker Maintenance	Breaker Tasks	124	84	68%	364	299	82%
Station Transformer Maintenance	Transformer Tasks	40	11	28%	44	12	27%
Station Battery Maintenance	Battery Tasks	220	209	95%	880	400	45%
Station Relay Maintenance	Relay Tasks	433	504	116%	1392	816	59%
Station Inspections	Site Visits	465	465	100%	1860	930	50%
Underground Distribution Goals							
Manhole Inspections	Manholes	190	100	53%	700	310	44%
Major Network Insp (Prot Relay)	Network Protectors	48	11	23%	94	39	41%
Minor Network Visual Inspection (Transformer/Protector/Vault)	Network Transformers	260	97	37%	572	520	91%
Underground Transmission Goals							
Pressurization and Cathodic Protection Plant Inspection	Work Orders	95	89	94%	372	189	51%
Vegetation Management Goals							
Overhead Line Clearance	Circuit Overhead Miles	363	323	89%	1300	667	51%

(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 June 30, 2020
 (In Whole Dollars)
 Favorable/(Unfavorable)

	Total Actual	Total Budget	Variance
Customer Service	\$11,047,132	\$10,704,388	(\$342,744)
Human Resources	3,911,665	4,238,084	326,419
Operations/Operation Services	17,523,644	19,976,888	2,453,244
Technology	12,355,416	11,929,588	(425,828)
General Corporate*	14,171,578	11,313,156	(2,858,422)
Total	\$59,009,435	\$58,162,104	(\$847,331)

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

Budget Variance Recap – O&M Expenses
 Year to Date through June 30, 2020
 (In Whole Dollars)
 Favorable/(Unfavorable)

	Total Actual	Total Budget	Variance
Customer Service	\$26,280,535	\$26,144,478	(\$136,057)
Human Resources	7,956,284	8,932,058	975,774
Operations/Operation Services	35,694,631	36,429,069	734,438
Technology	26,734,943	26,401,832	(333,111)
General Corporate*	28,054,509	22,381,900	(5,672,609)
Total	\$124,720,902	\$120,289,337	(\$4,431,565)

*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 June 30, 2020
 (In Whole Dollars)
 Favorable/(Unfavorable)

	Total Actual	Total Budget	Variance
Customer Service	\$2,031,088	\$2,342,572	\$311,484
Human Resources	2,824,276	3,420,399	596,123
Operations/Operation Services	70,333,583	81,994,952	11,661,369
Technology	6,968,776	8,363,386	1,394,610
General Corporate*	11,278,299	13,487,330	2,209,031
Total	\$93,436,022	\$109,608,639	\$16,172,617

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

Budget Variance Recap - Capital
 Year to Date through June 30, 2020
 (In Whole Dollars)
 Favorable/(Unfavorable)

	Total Actual	Total Budget	Variance
Customer Service	\$4,061,732	\$4,650,196	\$588,464
Human Resources	5,436,912	6,960,926	1,524,014
Operations/Operation Services	137,346,681	159,709,154	22,362,473
Technology	14,534,604	18,023,365	3,488,761
General Corporate*	25,542,791	27,206,793	1,664,002
Total	\$186,922,720	\$216,550,434	\$29,627,714

*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	5
Electronic Technician	17
Telecom Technician	2
Total Telecom	24
Electrical Equipment Technician	37
Protection & Control Technician	32
Yard Group Leader	3
Rigger	6
Laborer	2
Total Substation	80
UG Splicer	38
UG Cable Inspector	9
Cable Tester	1
Network Operator	13
Equipment Material Handler	0
Total Underground	61
Apprentice T&D	33
Equipment Attendant	0
Lineworker	135
Service Crew Leader	4
Equipment Material Handler	5
Total Overhead	177
Right of Way Agent	4
Surveyor	4
Total Real Estate	8
Total Street Light Changer	5
Engineering Technician	34
GIS Technician	7
T&D Mobile Worker	5
Test Technician, Mobile	6
Total Engineering	52
Senior Operator Apprentice	22
Senior Operator	2
Traveling Operator	0
Troubleshooter	13
Total Traveling Operator/Troubleshooter	37
Total Switching Dispatcher	11
Total Employees	455

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

CONFIDENTIAL INFORMATION

2nd Quarter 2020

Contractor Dollars: \$ **REDACTED**
Contractor Hours: **REDACTED**

YTD 2020

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 –2nd Quarter 2020

REDACTED

Amount of Time it Takes to Obtain the Necessary Personnel – 2nd Quarter 2020

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 G. Bucek – General Manager, Asset Management
(412) 393-8878, mbucek@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.*

Rank	Circuit No	Circuit Name	Feeder Device	Device Lockouts	Last Lockout	Circuit KVA	Total KVA Interrupted	Total KVA-Minutes	SAIDI	SAIFI	CAIDI
1	22869	Midland-Cooks Ferry	SWR262	5	2020-06-23	45166	183595	22112882	489.5913	4.064894	120.4438
2	23882	Rankin	BKR	3	2020-06-26	25319	101888	13010734	513.8723	4.024172	127.6964
3	23714	Pine Creek	BKR	2	2020-06-11	24285	42203	12930166	532.4343	1.737822	306.3803
4	23660	Crescent	80E	4	2020-06-25	31831	98465	11437403	359.3165	3.093368	116.157
5	23820	Highland	EA891	4	2020-06-12	32049	71163	10255815	320.0042	2.220444	144.1172
6	23614	Findlay	WA549	4	2020-06-11	27879	44759	10125201	363.1838	1.605474	226.216
7	23783	Valley	BKR	3	2020-06-29	35257	87833	9893637	280.6148	2.491222	112.6415
8	23769	Bryn Mawr	65K	3	2020-06-28	24071	37303	9597049	398.6976	1.549707	257.2728
9	23840	Arsenal	WR453	4	2020-06-19	39579	135776	9459264	238.997	3.430506	69.66816
10	23640	Midland	WR595	3	2020-06-23	31306	52974	9196159	293.7507	1.692136	173.5976
11	23821	Highland	R100	2	2020-06-12	33153	59050	9188713	277.1608	1.781136	155.609
12	23953	Evergreen	ER703	5	2020-05-26	31030	108512	9122543	293.9911	3.497003	84.06944
13	4845	Fairview	BKR	4	2020-06-19	6702	39157	8872145	1323.806	5.842584	226.5788
14	23844	Arsenal	WR872	2	2020-06-28	30732	106204	8786152	285.8959	3.455812	82.72901
15	23679	Woodville	R100	3	2020-06-20	18070	66350	8629122	477.5386	3.671832	130.0546
16	23770	Traverse Run	65K	4	2020-06-18	28580	124690	8492005	297.131	4.362841	68.10494
17	23706	North	BKR	3	2020-06-27	32220	109687	8327308	258.4515	3.404314	75.91882
18	23921	Logans Ferry	80E	3	2020-06-23	32875	46208	7596533	231.0732	1.405567	164.3987
19	4428	Suffolk	BKR	1	2020-05-25	3994	4224	7414075	1856.303	1.057586	1755.226
20	23716	Pine Creek	BKR	2	2020-06-28	34563	31794	7400562	214.118	0.919885	232.766
21	23680	Woodville	65K	2	2020-06-12	27442	52108	7133721	259.9563	1.898841	136.9026
22	22556	Logans Ferry-U.S. Gypsum	BKR	2	2019-10-31	3750	17127	7066882	1884.502	4.5672	412.6165
23	22155	Rankin-Wilkinsburg	BKR	3	2020-06-09	7032	56597	6894132	980.3942	8.048493	121.8109
24	23701	North	65K	6	2020-06-04	20748	85368	6571937	316.7504	4.114517	76.98361
25	23950	Wilkinsburg	80E	3	2020-06-22	16413	84379	6552265	399.2119	5.140986	77.65279
26	22845	Raccoon-Traverse Run	80E	2	2020-05-29	75	19894	6547182	87295.76	265.2533	329.1033
27	23781	Valley	65K	5	2020-06-11	21397	32195	6427948	300.4135	1.50465	199.6567