Lindsay Baxter
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July 31, 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 please find Duquesne Light Company's Quarterly Electric Reliability Report for the second quarter of 2020. The 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 cljohnson@duqlight.com.

Sincerely,

Lindsay A. Baxter
Manager, State Regulatory Strategy

Enclosure
cc (w/ redacted version):
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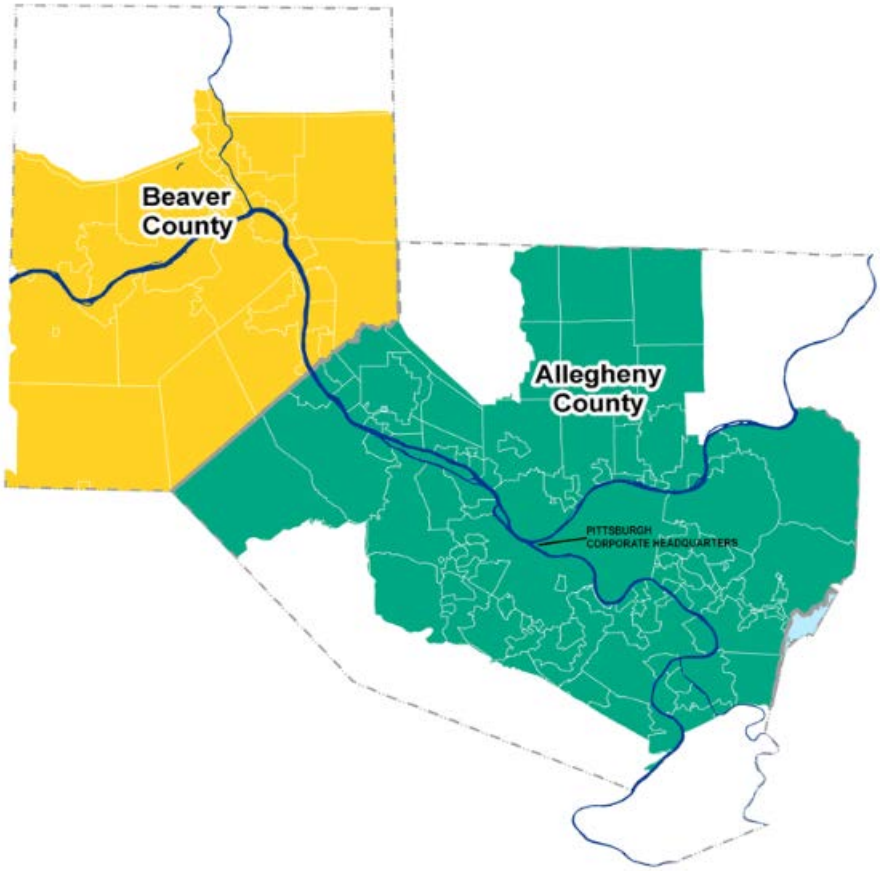


# *Duquesne Light Company*
# *Second Quarter 2020*

# *Electric Reliability Report*

# *to the*

# *Pennsylvania Public Utility Commission*

***August 1, 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**

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

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

CAIDI = SAIDI/SAIFI

**Data used in calculating the indices**

| | |
|---|---|
| Total KVA Interrupted for the Period: (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) | 650,897,918 KVA-Minutes |
| System Connected Load as of 6/30/20 | 7,722,291 KVA |
| April 8, 2020 Major Event | 772,911 KVA<br>(10% of System Load)<br>297,908,154 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 |
|---|---|---|
| 1<br><br>22869<br>Midland-Cooks Ferry<br><br>Recloser | 5 Total Outages<br><br>Second Quarter Outages:<br>• One outage was caused by a storm.<br>• One outage cause was unknown.<br>Previous Outages:<br>• One outage caused by tree fall-in.<br>• One outage caused by equipment failure.<br>• One outage caused by vehicle contact with company equipment. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues.<br>• Distribution Overhead Line Inspection performed in 2019 and all high priority repairs completed.<br>• Vegetation Management completed Q4 2017; scheduled for 2022.<br>• Device coordination review to be completed by end of Q3 2020. |
| 2<br><br>23882<br>Rankin<br><br>Breaker | 3 Total Outages<br><br>Second Quarter Outages:<br>• One outage was caused by tree fall-in, during a storm.<br>Previous Outages:<br>• One outage was caused by vehicle contact with company equipment.<br>• One outage was caused by tree fall-in. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues.<br>• Distribution Overhead Line Inspection performed in 2020 and all high priority repairs to be completed by Q3 2020.<br>• Vegetation Management completed Q1 2017; scheduled for 2021. |

| Rank, Circuit Name, Device | Outages | Remedial Actions Planned or Taken |
|---|---|---|
| 3<br><br>23714<br>Pine Creek<br><br>Breaker | 2 Total Outages<br><br>Second Quarter Outages:<br>• One outage was caused by a tree fall-in during a storm.<br><br>Previous Outages:<br>• One outage was caused by tree fall-in. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues.<br>• Distribution Overhead Line Inspection performed in 2020 and all high priority repairs completed.<br>• Vegetation Management completed Q4 2018; scheduled for 2023.<br>• Device coordination review was completed in 2018; no issues were found. |
| 4<br><br>23660<br>Crescent<br><br>Fuse Link | 4 Total Outages<br><br>Second Quarter Outages:<br>• No outages.<br><br>Previous Outages:<br>• Two outages cause unknown.<br>• One outage was caused by high winds.<br>• One outage was caused by lightning. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues.<br>• Distribution Overhead Line Inspection performed in 2020 and all high priority repairs completed.<br>• Fusing coordination review to be completed by end of Q3 2020. |
| 5<br><br>23820<br>Highland<br><br>Sectionalizer | 4 Total Outages<br><br>Second Quarter Outages:<br>• One outage was caused by equipment failure.<br>Previous Outages:<br>• Two outages were caused by vehicle contact with company equipment.<br>• One outage was caused by high winds. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues.<br>• Distribution Overhead Line Inspection performed in 2020 and all high priority repairs completed. |

| Rank, Circuit Name, Device | Outages | Remedial Actions Planned or Taken |
|---|---|---|
| 6<br><br>23614<br>Findlay<br><br>Sectionalizer | 4 Total Outages<br><br>Second Quarter Outages:<br>• No outages.<br><br>Previous Outages:<br>• Two outages were caused by equipment failure. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues.<br>• Distribution Overhead Line Inspection scheduled for 2021. |
| 7<br><br>23783<br>Valley<br><br>Breaker | 3 Total Outages<br><br>Second Quarter Outages:<br>• One outage was caused by tree fall-in.<br>Previous Outages:<br>• Two outages were caused by vehicle contact with company equipment.<br>• One outage was caused by equipment failure. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues.<br>• Distribution Overhead Line Inspection scheduled for 2021.<br>• Vegetation Management completed Q1 2017; scheduled for 2022. |
| 8<br><br>23769<br>Bryn Mawr<br><br>Fuse Link | 3 Total Outages<br><br>Second Quarter Outages:<br>• One outage was caused by tree fall-in, during a storm.<br>Previous Outages:<br>• One outage was caused by tree fall-in.<br>• One outage cause unknown. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues.<br>• Distribution Overhead Line Inspection performed in 2018 and all high priority repairs completed.<br>• Vegetation Management completed Q4 2019; scheduled for 2024.<br>• 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 |
|---|---|---|
| 9<br><br>23840<br>Arsenal<br><br>Recloser | 4 Total Outages<br><br>Second Quarter Outages:<br>• No outages.<br>Previous Outages:<br>• One outage was caused by contact with company equipment by animal.<br>• Two outages were caused by equipment failure.<br>• One outage was caused by wires wrapped together. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues.<br>• Distribution Overhead Line Inspection performed in 2020 and all high priority repairs completed. |
| 10<br><br>23640<br>Midland<br><br>Recloser | 3 Total Outages<br><br>Second Quarter Outages:<br>• One outage was caused by storm.<br><br>Previous Outages:<br>• Two outages were caused by equipment failure. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues.<br>• Distribution Overhead Line Inspection performed in 2017 and all high priority repairs completed. |
| 11<br><br>23821<br>Highland<br><br>Recloser | 2 Total Outages<br><br>Second Quarter Outages:<br>• One outage caused was unknown.<br><br>Previous Outages:<br>• One outage was caused by tree fall-in. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues.<br>• Distribution Overhead Line Inspection performed in 2020 and all high priority repairs completed.<br>• Vegetation Management completed Q2 2017; scheduled for 2021. |

| Rank, Circuit Name, Device | Outages | Remedial Actions Planned or Taken |
|---|---|---|
| 12<br><br>23953<br>Evergreen<br><br>Recloser | 5 Total Outages<br><br>Second Quarter Outages:<br>• No outages.<br><br>Previous Outages:<br>• Three outages were caused by tree fall-in.<br>• One outage was caused by flood.<br>• One outage was caused by vehicle contact with company equipment. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues.<br>• Distribution Overhead Line Inspection performed in 2020 and all high priority repairs completed.<br>• Vegetation Management completed Q3 2016; scheduled for 2021. |
| 13<br><br>4845<br>Fairview<br><br>Breaker | 4 Total Outages<br><br>Second Quarter Outages:<br>• One outage caused was unknown.<br>• One outage was caused by tree fall-in, during a storm.<br>• One outage was caused by tornado.<br>• One outage was caused by storm.<br><br>Previous Outages:<br>• No outages. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues.<br>• Distribution Overhead Line Inspection performed in 2017 and all high priority repairs completed.<br>• Vegetation Management completed Q4 2018; scheduled for 2023. |
| 14<br><br>23844<br>Arsenal<br><br>Recloser | 2 Total Outages<br><br>Second Quarter Outages:<br>• No outages.<br><br>Previous Outages:<br>• One outage was caused by wires wrapped, during a storm.<br>• One outage was caused by tree fall-in, during a storm. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues.<br>• Distribution Overhead Line Inspection performed in 2020 and all high priority repairs completed.<br>• Vegetation Management completed Q4 2016; scheduled for 2021. |

| Rank, Circuit Name, Device | Outages | Remedial Actions Planned or Taken |
|---|---|---|
| 15<br><br>23679<br>Woodville<br><br>Recloser | 3 Total Outages<br><br>Second Quarter Outages:<br>• No outages.<br><br>Previous Outages:<br>• Two outages were caused by tree fall-in.<br>• One outage cause was unknown. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues.<br>• Distribution Overhead Line Inspection performed in 2018 and all high priority repairs completed.<br>• Vegetation Management completed Q2 2016; scheduled Q3 2020. |
| 16<br><br>23770<br>Traverse Run<br><br>Fuse Link | 4 Total Outages<br><br>Second Quarter Outages:<br>• One outage was caused by tree fall-in.<br><br>Previous Outages:<br>• Two outages were caused by tree fall-in.<br>• One outage was caused by high winds. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues.<br>• Distribution Overhead Line Inspection performed in 2018 and all high priority repairs completed.<br>• Vegetation Management completed Q2 2016; scheduled Q4 2020.<br>• 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 |
|---|---|---|
| 17<br><br>23706<br>North<br><br>Breaker | 3 Total Outages<br><br>Second Quarter Outages:<br>• One outage was caused by tree fall-in.<br><br>Previous Outages:<br>• One outage was caused by tree fall-in.<br>• One outage was caused by equipment failure. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues.<br>• Distribution Overhead Line Inspection scheduled for 2021.<br>• Vegetation Management completed Q3 2018; scheduled for 2022. |
| 18<br><br>23921<br>Logans Ferry<br><br>Fuse Link | 3 Total Outages<br><br>Second Quarter Outages:<br>• No outages<br><br>Previous Outages:<br>• One outages was caused by tree fall-in.<br>• One outage was caused by equipment failure.<br>• One outage was caused by lightning. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues.<br>• Distribution Overhead Line Inspection performed in 2017 and all high priority repairs completed.<br>• Vegetation Management completed Q4 2016; scheduled Q4 2020. |
| 19<br><br>4428<br>Suffolk<br><br>Breaker | 1 Total Outage<br><br>Second Quarter Outages:<br>• One outage was caused by equipment failure.<br><br>Previous Outages:<br>• No outages. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues.<br>• Distribution Overhead Line Inspection performed in 2019 and all high priority repairs completed. |

| Rank, Circuit Name, Device | Outages | Remedial Actions Planned or Taken |
|---|---|---|
| 20<br><br>23716<br>Pine Creek<br><br>Breaker | 2 Total Outages<br><br>Second Quarter Outages:<br>• No outages.<br>Previous Outages:<br>• Two outages were caused by tree fall-ins. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues.<br>• Distribution Overhead Line Inspection performed in 2019 and all high priority repairs completed.<br>• Vegetation Management completed Q1 2019; scheduled for 2023. |
| 21<br><br>23680<br>Woodville<br><br>Fuse Link | 2 Total Outages<br><br>Second Quarter Outages:<br>• No outages.<br><br>Previous Outages:<br>• One outage was caused by lightning, during a storm.<br>• One outage was caused by equipment failure. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues.<br>• Distribution Overhead Line Inspection performed in 2017 and all high priority repairs completed. |
| 22<br><br>22556<br>Logans Ferry-U.S. Gypsum<br><br>Breaker | 2 Total Outages<br><br>Second Quarter Outages:<br>• No outages.<br><br>Previous Outages:<br>• Two outages were caused by tree fall-in. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues.<br>• Distribution Overhead Line Inspection performed in 2020 and all high priority repairs completed.<br>• Vegetation Management completed Q4 2016; scheduled Q4 2020. |

| Rank, Circuit Name, Device | Outages | Remedial Actions Planned or Taken |
|---|---|---|
| 23<br><br>22155 Rankin-Wilkinsburg<br><br>Breaker | 3 Total Outages<br><br>Second Quarter Outages:<br>• One outage was caused by animal contact with company equipment.<br><br>Previous Outages:<br>• One outage was caused by tree fall-in.<br>• One outage was caused by storm. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues.<br>• Distribution Overhead Line Inspection performed in 2018 and all high priority repairs completed.<br>• Vegetation Management completed Q4 2017; scheduled for 2021. |
| 24<br><br>23701 North<br><br>Fuse Link | 6 Total Outages<br><br>Second Quarter Outages:<br>• One outage was caused by animal contact with company equipment.<br><br>Previous Outages:<br>• Four outages were caused by tree fall-in.<br>• One outage cause was unknown. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues.<br>• Distribution Overhead Line Inspection performed in 2017 and all high priority repairs completed.<br>• Vegetation Management completed Q4 2016; scheduled for 2021. |

| Rank, Circuit Name, Device | Outages | Remedial Actions Planned or Taken |
|---|---|---|
| 25<br><br>23950 Wilkinsburg<br><br>Fuse Link | 3 Total Outages<br><br>Second Quarter Outages:<br>• One outage was caused by tree fall-in.<br><br>Previous Outages:<br>• Two outages were caused by tree fall-in. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues.<br>• Distribution Overhead Line Inspection performed in 2020 and all high priority repairs completed.<br>• Vegetation Management completed Q2 2019; scheduled for 2024.<br>• Fusing coordination review has been completed; fuses and load break switches to be installed by end of Q3 2020. |
| 26<br><br>22845 Raccoon-Traverse Run<br><br>Fuse Link | 2 Total Outage<br><br>Second Quarter Outages:<br>• No outages.<br><br>Previous Outages:<br>• Two outages were caused by equipment failure. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues.<br>• Distribution Overhead Line Inspection scheduled for 2021. |

| Rank, Circuit Name, Device | Outages | Remedial Actions Planned or Taken |
|---|---|---|
| 27<br><br>23781<br>Valley<br><br>Fuse Link | 5 Total Outages<br><br>Second Quarter Outages:<br>• One outage was caused by storm.<br>• One outage caused was unknown.<br><br>Previous Outages:<br>• One outage was caused by tree fall-in.<br>• One outage was caused by equipment failure.<br>• One outage was caused by vehicle contact with company equipment. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues.<br>• Distribution Overhead Line Inspection performed in 2018 and all high priority repairs completed.<br>• Vegetation Management completed Q4 2018; scheduled for 2023.<br>• 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% | 198,759,168 | 31% |
| 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 | 3% |
| Other | 174 | 6% | 270,176 | 4% | 24,661,054 | 4% |
| TOTALS | 2,904 | 100% | 6,100,323 | 100% | 650,897,918 | 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
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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 |