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**Shelby A. Linton-Keddie**
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DUQUESNE LIGHT CO.

M-2016-2522508

July 28, 2017

**Via Certified Mail**
**70160910000016597103**

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

RECEIVED
JUL 28 2017
PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

Re: **Duquesne Light Company**
**Quarterly Electric Reliability Report – 2nd Quarter 2017**

Dear Secretary Chiavetta:

Enclosed please find Duquesne Light Company's Quarterly Electric Reliability Report for the Second Quarter of 2017.

The report is submitted in two versions, proprietary and non-proprietary. The proprietary version in the enclosed sealed envelope contains all the information required by 52 Pa. Code § 57.195 and is marked as "Confidential." Duquesne Light Company respectfully requests that the proprietary version of the Quarterly Electric Reliability Report **not** be made available to the public.

If you have any questions regarding the information contained in this filing, please contact the undersigned or Audrey Waldock at 412-393-6334 or awaldock@duqlight.com.

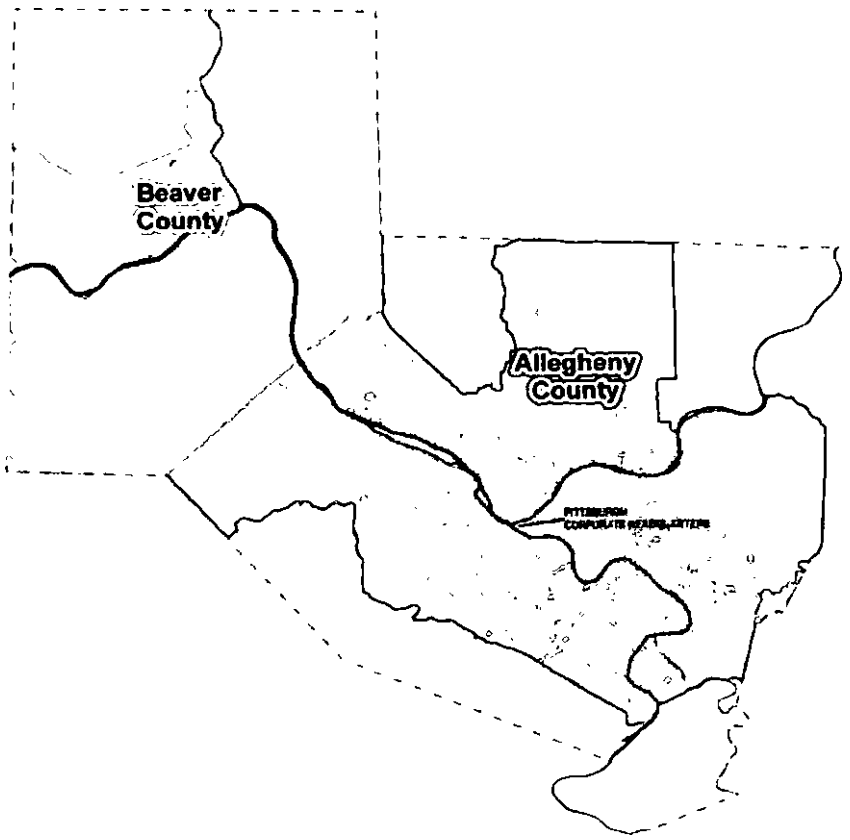
Sincerely,

Shelby Linton Keddie /acw

Shelby A. Linton-Keddie
Manager, State Regulatory Strategy
And Senior Legal Counsel

Enclosure
cc (w/ redacted version):
Bureau of Technical Utility Services (dgill@pa.gov, dsearfoorc@pa.gov, dawashko@pa.gov)
Office of Consumer Advocate (TMcCloskey@paoca.org)
Office of Small Business Advocate (jorevan@pa.gov, swebb@pa.gov)

DUQUESNE LIGHT CO.




# *Duquesne Light Company*
# *Second Quarter 2017*

## *Electric Reliability Report*

## *to the*

## *Pennsylvania Public Utility Commission*

*July 28, 2017*

## 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 second quarter of 2017.**

**(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**
**System Performance Measures with Major Events Excluded**

| | SAIDI | SAIFI | CAIDI | MAIFI[1] |
|---|---|---|---|---|
| **Benchmark** | 126 | 1.17 | 108 | |
| **12 Month Standard** | 182 | 1.40 | 130 | |
| **2017 2Q (Rolling 12 mo.)** | 117 | 1.04 | 113 | |

Formulas used in calculating the indices:

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

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

CAIDI = SAIDI/SAIFI

**Data used in calculating the indices**

| | |
|---|---|
| Total KVA Interrupted for the Period | 7,509,262 KVA |
| Total KVA-Minutes Interrupted: | 841,551,686 KVA-Minutes |
| System Connected Load as of 6/30/17: | 7,211,534 KVA |

[1] Sufficient information to calculate MAIFI is unavailable.

**(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 device lockouts from highest to lowest and then by the number of KVA-Minutes of outage experienced by customers on these circuits (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). Prior Worst Performing Circuits that have not seen recent outages fall to a lower priority within the group, but can remain on the list for monitoring until other circuits replace them.

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'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 have actually had good 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 2017 Rolling 12 Month Circuit Data**

| Rank, Circuit Name, Device | Outages | Remedial Actions Planned or Taken |
|---|---|---|
| 1<br><br>Midland-Cooks Ferry<br>22869<br><br>Fuse-65K | Seven Total Outages:<br>Second Quarter 2017 Outages:<br>• No outages.<br>Previous Outages:<br>• One outage was due to cutout failure.<br>• One outage was due to insulator failure.<br>• The cause of five outages were unknown. | • Permanent repairs were made following each outage as necessary.<br>• Routine vegetation maintenance was last performed in 2012 and is scheduled for 2017.<br>• The Company will continue to monitor this circuit for reliability issues. |
| 2<br><br>Evergreen<br>23953<br><br>ER703 | Five Total Outages:<br>Second Quarter 2017 Outages:<br>• One outage was due to high current overload.<br>• One outage was due to tree fall-in.<br>Previous Outages:<br>• Two outages were due to tree fall-in.<br>• One outage was due to vehicle accident. | • Permanent repairs were made following each outage as necessary.<br>• Routine vegetation maintenance was last performed in 2016 and is proposed for 2020.<br>• The Company will continue to monitor this circuit for reliability issues. |

| Rank, Circuit Name, Device | Outages | Remedial Actions Planned or Taken |
|---|---|---|
| 3<br><br>Dravosburg 23750<br><br>ER14 | Five Total Outages:<br>Second Quarter 2017 Outages:<br>• One outage was due to transformer failure.<br>• One outage was due to tree fall-in during a storm.<br>Previous Outages:<br>• One outage was due to a large steel roof of customer's contractor contacted during a storm.<br>• One outage was due to a vehicle accident.<br>• One outage was due to insulator failure. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues. |
| 4<br><br>Pine Creek 23714<br><br>WA609 | Five Total Outages:<br>Second Quarter 2017 Outages:<br>• One outage was due to tree fall-in.<br>Previous Outages:<br>• The cause of one outage was unknown during a storm.<br>• Three outages were due to tree fall-ins, one was during a storm. | • Permanent repairs were made following each outage as necessary.<br>• The Company's Protection & Control Department is going to convert this circuit to all pulse-reclosing operation, which will improve its protection and reduce future circuit damage during faults making restoration simpler and faster. The conversion will be completed at the end of the third quarter of 2017.<br>• The Company's Asset Management Department is planning to replace a Viper with an IntelliRupter.<br>• Routine Vegetation management was last performed 2013 and is proposed for 2018. |

| Rank, Circuit Name, Device | Outages | Remedial Actions Planned or Taken |
|---|---|---|
| 5<br><br>Traverse Run<br>23770<br><br>Recloser-100 | Five Total Outages:<br>Second Quarter 2017 Outages:<br>• Two outages were caused by tree fall-in, one during a storm.<br>Previous Outages:<br>• Two outages were caused by tree fall-in, one during a storm.<br>• One outage was caused by a failed Crossarm 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>• Vegetation Management to investigate. |
| 6<br><br>Pine Creek<br>23710<br><br>Fuse-80E | Five Total Outages:<br>Second Quarter Outages:<br>• No outages.<br>Previous Outages:<br>• Cause of one outage was unknown.<br>• One outage was due to icing.<br>• Three 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>• Routine Vegetation management was last performed 2012 and is scheduled for 2018. |
| 7<br><br>Sewickley<br>23631<br><br>WR723 | Five Total Outages:<br>Second Quarter 2017 Outages:<br>• No Outages.<br>Previous Outages:<br>• Four outages were due to tree fall-ins, one during a storm.<br>• One outage was due to cutout failure. | • Permanent repairs were made following each outage as necessary.<br>• The Company's Asset Management Department recently replaced the last Scadamate sectionalizer with three IntelliRupter recloser, which will improve its protection and reduce future circuit damage during faults making restoration simpler and faster. Routine vegetation maintenance was last performed in 2013 and is scheduled for 2017. |

| Rank, Circuit Name, Device | Outages | Remedial Actions Planned or Taken |
|---|---|---|
| 8<br><br>Brentwood<br>23810<br><br>Fuse-100K | Four Total Outages:<br>Second Quarter 2017 Outages:<br>• One outage due to lightning arrester failure.<br>• The cause of one outage was unknown.<br>Previous Outages:<br>• One outage was due to tree fall-in.<br>• The cause of one outage was unknown. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues. |
| 9<br><br>Montour<br>23670<br><br>WA527 | Four Total Outages:<br>Second Quarter 2017 Outages:<br>• One outage was due to vehicle accident.<br>Previous Outages:<br>• One outage was due to tree fall-in.<br>• One outage was due to connector failure.<br>• One outage was due to a vehicle accident. | • Permanent repairs were made following each outage as necessary.<br>• The Company's Protection & Control Department is going to convert this circuit to all pulse-reclosing operation, which will improve its protection and reduce future circuit damage during faults making restoration simpler and faster. The conversion will be completed at the end of the third quarter of 2017. |
| 10<br><br>Midland<br>23640<br><br>Breaker | Four Total Outages:<br>Second Quarter 2017 Outages:<br>• One outage due to lightning.<br>Previous Quarters:<br>• One outage due to lightning.<br>• One outage due to insulator failure.<br>• The cause of one outage was unknown. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues. |

| Rank, Circuit Name, Device | Outages | Remedial Actions Planned or Taken |
|---|---|---|
| 11<br><br>Mt. Nebo<br>23870<br><br>Recloser-100 | Four Total Outages:<br>Second Quarter 2017 Outages:<br>• No Outages.<br>Previous Outages:<br>• One outage was due to a broken pole during a storm.<br>• Three outages were due to tree fall-ins, one was during a storm. | • Permanent repairs were made following each outage as necessary.<br>• The Company's Asset Management Department recently replaced three Scadamate sectionalizers with three IntelliRupter reclosers which will improve its protection and reduce future circuit damage during faults making restoration simpler and faster. Routine vegetation maintenance was last performed in 2013 and is scheduled for 2017. |
| 12<br><br>Crescent<br>23660<br><br>Fuse-80E | Four Total Outages:<br>Second Quarter 2017 Outages:<br>• No Outages.<br>Previous Outages:<br>• Two outage was due to tree fall-in, one during a storm.<br>• One outage was due to vehicle accident.<br>• The cause of one outage was unknown. | • Permanent repairs were made following each outage as necessary.<br>• Routine vegetation maintenance was last performed in 2015 and is proposed for 2020.<br>• The Company will continue to monitor this circuit for reliability issues. |
| 13<br><br>Valley<br>23781<br><br>WR535 | Three Total Outages:<br>Second Quarter 2017 Outages:<br>• The cause of two outages were unknown, during a storm.<br>Previous Outages:<br>• One outage was due to a 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. |

| Rank, Circuit Name, Device | Outages | Remedial Actions Planned or Taken |
|---|---|---|
| 14<br><br>Wilmerding 23761<br><br>Fuse-65K | Three Total Outages:<br>Second Quarter 2017 Outages:<br>• The cause of two outages were unknown.<br>Previous Outages:<br>• The cause of one outage was unknown. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues. |
| 15<br><br>Chess 23688<br><br>EA306 | Three Total Outages:<br>Second Quarter 2017 Outages:<br>• Two outage was due to a vehicle accident.<br>Previous Outages:<br>• One outage was due to tree fall-in. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues. |
| 16<br><br>Brunot Is. 23572<br><br>Breaker | Three Total Outages:<br>Second Quarter 2017 Outages:<br>• One outage was due to a vehicle accident.<br>Previous Outages:<br>• Two outages were due to cable failure. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues. |
| 17<br><br>Wildwood 23869<br><br>WR975 | Three Total Outages:<br>Second Quarter 2017 Outages:<br>• No Outages.<br>Previous Outages:<br>• Two outages were due to tree fall-in, one during a storm.<br>• The cause of one outage was unknown. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues. |

| Rank, Circuit Name, Device | Outages | Remedial Actions Planned or Taken |
|---|---|---|
| 18<br><br>California<br>23837<br><br>Recloser-140 | Three Total Outages:<br>Second Quarter 2017 Outages:<br>• No Outages.<br>Previous Outages:<br>• The cause of one outage was unknown, during a storm.<br>• One outage was due to transformer failure.<br>• One outage was due to tree fall-in. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues. |
| 19<br><br>Bryn Mawr<br>23769<br><br>Fuse-80E | Two Total Outages:<br>Second Quarter 2017 Outages:<br>• One outage was due to tree fall-in, during a storm.<br>Previous Outages:<br>• One outage was due to tree fall-in. | • Permanent repairs were made following each outage as necessary.<br>• Routine vegetation maintenance was last performed in 2015 and is proposed for 2020.<br>• The Company will continue to monitor this circuit for reliability issues. |
| 20<br><br>North<br>23707<br><br>WR381 | Two Total Outages:<br>Second Quarter 2017 Outages:<br>• One outage was due to tree fall-in.<br>Previous Outages:<br>• One outage was caused by icing on insulator. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues. |
| 21<br><br>Oakland<br>23745<br><br>Fuse-80E | Two Total Outages:<br>Second Quarter 2017 Outages:<br>• The cause of one outage was unknown.<br>Previous Outages:<br>• The cause of one outage was unknown. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues. |

| Rank, Circuit Name, Device | Outages | Remedial Actions Planned or Taken |
|---|---|---|
| 22<br><br>Mt Nebo 23871<br><br>Fuse-20K | Two Total Outages:<br>Second Quarter 2017 Outages:<br>• No Outages.<br>Previous Outages:<br>• Two outages were due to tree fall-ins. | • Permanent repairs were made following each outage as necessary.<br>• Routine vegetation maintenance was last performed in 2013 and is scheduled for 2017.<br>• The Company will continue to monitor this circuit for reliability issues. |
| 23<br><br>Universal 23731<br><br>ER8 | Two Total Outages:<br>Second Quarter 2017 Outages:<br>• No Outages.<br>Previous Outages:<br>• One outage was due to crossarm failure.<br>• One outage was due to 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. |
| 24<br><br>Wilmerding 23764<br><br>Breaker | Two Total Outages:<br>Second Quarter 2017 Outages:<br>• No Outages.<br>Previous Outages:<br>• Two outages were due to cable failure. | • Permanent repairs were made following each outage as necessary.<br>• The Company will continue to monitor this circuit for reliability issues. |
| 25<br><br>Pine Creek – West Deer 22540<br><br>ER784 | Two Total Outage:<br>Second Quarter 2017 Outages:<br>• One outage was due to tree fall-in.<br>• The cause of one outage was unknown during a storm.<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. |

| Rank, Circuit Name, Device | Outages | Remedial Actions Planned or Taken |
|---|---|---|
| 26<br><br>Wilson 23860<br><br>Breaker | Two Total Outages:<br>Second Quarter 2017 Outages:<br>• One outage was due to tree fall-in during a storm.<br>• One outage was due to insulator failure.<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. |
| 27<br><br>Findlay 23610<br><br>Breaker | One Total Outage:<br>Second Quarter 2017 Outages:<br>• No Outages.<br>Previous Outages:<br>• One outage was due to tree fall-in during a storm. | • Permanent repairs were made following each outage as necessary.<br>• Routine vegetation maintenance was last performed in 2012 and is scheduled for 2017.<br>• The Company will continue to monitor this circuit for reliability issues. |

**(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, 2016 through June 30, 2017– No PUC Major Event Exclusions**

| CAUSE | NO. OF OUTAGES | OUTAGE PERCENTAGE | KVA TOTAL | KVA PERCENTAGE | KVA-MINUTE TOTAL | KVA-MINUTE PERCENTAGE |
|---|---|---|---|---|---|---|
| **Storms** | 992 | 28% | 2,284,919 | 30% | 363,777,089 | 43% |
| **Trees (Contact)** | 26 | 1% | 6,065 | 1% | 577,666 | 1% |
| **Trees (Falling)** | 880 | 25% | 1,530,262 | 20% | 164,484,524 | 20% |
| **Equipment Failures** | 749 | 21% | 1,993,973 | 27% | 162,406,796 | 19% |
| **Overloads** | 54 | 2% | 91,345 | 1% | 5,228,138 | 1% |
| **Vehicles** | 176 | 5% | 581,800 | 8% | 63,330,604 | 8% |
| **Other** | 685 | 18% | 1,020,898 | 13% | 81,746,869 | 8% |
| **TOTALS** | 3,562 | 100% | 7,509,262 | 100% | 841,551,686 | 100% |

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

| 2017 Transmission and Distribution Goals and Objectives | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Program** Project | **Unit of Measurement** | **Target for 2017 2Q** | **Actual for 2017 2Q** | **Percent Complete** | **Targets for Year 2017** | **Actual YTD for 2017** | **Year End % Complete** |
| **Communications Goals** | | | | | | | |
| Communication Battery Maintenance | Batteries | 25 | 26 | 104% | 100 | 51 | 51% |
| **Overhead Distribution Goals** | | | | | | | |
| Recloser Inspections | Circuits | 34 | 27 | 79% | 130 | 86 | 66% |
| Pole Inspections | Poles | 6,735[2] | 30 | 0% | 17,945 | 90 | 1% |
| OH Line Inspections | Circuits | 34 | 27 | 79% | 130 | 86 | 66% |
| OH Transformer Inspections | Circuits | 34 | 27 | 79% | 130 | 86 | 66% |
| Padmount & Below Grade Insp | Circuits | 21 | 11 | 52% | 81 | 81 | 100% |
| **Overhead Transmission Goals** | | | | | | | |
| Helicopter Inspections | Number of Structures | 625 | 693 | 111% | 625 | 693 | 111% |
| Ground Inspections | Number of Structures | 206 | 0 | 0% | 336 | 0 | 0% |
| **Substations Goals** | | | | | | | |
| Circuit Breaker Maintenance | Breakers | 135 | 156 | 116% | 501 | 380 | 76% |
| Station Transformer Maintenance | Transformers | 45 | 31 | 69% | 78 | 40 | 51% |
| Station Battery Maintenance | Batteries | 234 | 245 | 105% | 936 | 489 | 52% |
| Station Relay Maintenance | Relays | 420 | 478 | 114% | 1,580 | 1,001 | 63% |
| Station Inspections | Sites | 510 | 512 | 100% | 2,040 | 1,024 | 50% |
| **Underground Distribution Goals** | | | | | | | |
| Manhole Inspections | Manholes | 250 | 302 | 121% | 700 | 498 | 71% |
| Major Network Insp (Prot Relay) | Ntwk Protectors | 40 | 28 | 70% | 92 | 32 | 35% |
| Minor Network Visual Inspection (Transformer/Protector/Vault) | Ntwk Transformers | 182 | 116 | 64% | 562 | 336 | 60% |

[2] Apart from DLC's normal inspection and maintenance schedule for pole inspections, the Company has engaged a third party contractor to inspect an additional 3,800 poles for quality assurance.

| 2017 Transmission and Distribution Goals and Objectives | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Program** Project | **Unit of Measurement** | **Target for 2017 2Q** | **Actual for 2017 2Q** | **Percent Complete** | **Targets for Year 2017** | **Actual YTD for 2017** | **Year End % Complete** |
| **Underground Transmission Goals** | | | | | | | |
| Pressurization and Cathodic Protection Plant Inspection | Work Order | 93 | 84 | 90% | 371 | 160 | 43% |
| **Vegetation Management Goals** | | | | | | | |
| Overhead Line Clearance | Circuit Overhead Miles | 310 | 407 | 131% | 1,300 | 856 | 66% |
| | **Total Units** | **9,933** | **3,200** | **32%** | **27,637** | **5,989** | **22%** |

**(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, 2017
Favorable/(Unfavorable)

| | Total Actual | Total Budget | Variance |
|---|---|---|---|
| **Customer Service** | 8,802,180 | 12,838,646 | 4,036,466 |
| **Human Resources** | 3,038,649 | 3,899,458 | 860,809 |
| **Operations/Operation Services** | 12,942,685 | 16,146,443 | 3,203,758 |
| **Technology** | 11,200,029 | 12,166,580 | 966,551 |
| **General Corporate*** | 11,879,600 | 13,951,187 | 2,071,587 |
| **Total** | 47,863,143 | 59,002,313 | 11,139,170 |

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

Budget Variance Recap – O&M Expenses
For the Six Months Ending June 30, 2017
Favorable/(Unfavorable)

| | Total Actual | Total Budget | Variance |
|---|---|---|---|
| **Customer Service** | 20,445,135 | 27,098,519 | 6,653,385 |
| **Human Resources** | 6,577,894 | 8,106,144 | 1,528,250 |
| **Operations/Operation Services** | 30,004,943 | 33,522,701 | 3,517,758 |
| **Technology** | 24,907,430 | 24,290,536 | (616,894) |
| **General Corporate*** | 25,811,262 | 27,883,711 | 2,072,449 |
| **Total** | 107,746,663 | 120,901,611 | 13,154,948 |

*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, 2017
Favorable/(Unfavorable)

| | Total Actual | Total Budget | Variance |
|---|---|---|---|
| **Customer Service** | 1,914,745 | 2,048,353 | 133,608 |
| **Human Resources** | 2,994,847 | 2,627,085 | (367,762) |
| **Operations/Operation Services** | 39,795,458 | 42,037,933 | 2,242,475 |
| **Technology** | 19,202,112 | 20,857,796 | 1,655,684 |
| **General Corporate*** | 9,785,740 | 5,226,577 | (4,559,163) |
| **Total** | 73,692,902 | 72,797,744 | (895,158) |

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

Budget Variance Recap - Capital
For the Six Months Ending June 30, 2017
Favorable/(Unfavorable)

| | Total Actual | Total Budget | Variance |
|---|---|---|---|
| **Customer Service** | 3,682,879 | 4,094,856 | 411,977 |
| **Human Resources** | 5,235,320 | 4,503,110 | (732,210) |
| **Operations/Operation Services** | 73,930,628 | 77,852,021 | 3,921,393 |
| **Technology** | 36,109,410 | 41,715,592 | 5,606,182 |
| **General Corporate*** | 18,203,792 | 11,285,064 | (6,918,728) |
| **Total** | 137,162,029 | 139,450,643 | 2,288,614 |

*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 | 15 |
| Telecom Technician | 4 |
| **Total Telecom** | **24** |
| Electrical Equipment Technician | 34 |
| Protection & Control Technician | 24 |
| Yard Group Leader | 3 |
| Rigger | 6 |
| Laborer | 2 |
| **Total Substation** | **69** |
| UG Splicer | 38 |
| UG Cable Inspector | 9 |
| Cable Tester | 1 |
| Network Operator | 10 |
| Equipment Material Handler | 1 |
| **Total Underground** | **59** |
| Apprentice T&D | 53 |
| Equipment Attendant | 1 |
| Lineworker | 134 |
| Service Crew Leader | 3 |
| Equipment Material Handler | 4 |
| **Total Overhead** | **195** |
| **Total Street Light Changer** | **6** |
| Engineering Technician | 37 |
| GIS Technician | 6 |
| Right of Way Agent | 4 |
| Surveyor | 4 |
| T&D Mobile Worker | 4 |
| Test Technician, Mobile | 5 |
| **Total Engineering** | **60** |
| Senior Operator | 22 |
| Traveling Operator | 3 |
| Troubleshooter | 18 |
| **Total Traveling Operator/Troubleshooter** | **43** |
| **Total Switching Dispatcher** | **14** |
| **Total Employees** | **470** |

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

## CONFIDENTIAL INFORMATION

### 2nd Quarter 2017

Contractor Dollars: $REDACTED
Contractor Hours: REDACTED

### YTD 2017

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 2017**

REDACTED

**Amount of Time it Takes to Obtain the Necessary Personnel – 2nd Quarter 2017**

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.*

Glenn E Smith Jr. – Sr. Manager, Operations Compliance & Regulatory Reporting
(412) 393-8318, gsmith@duqlight.com

Jaime Bachota – Sr. Manager, Accounting & Financial Reporting
(412) 393-1122, jbachota@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 | 65K | 7 | 11/11/2016 | 37666 | 16836213 | 114808 | 446.987 | 3.0481 | 146.65 |
| 2 | 23953 | Evergreen | ER703 | 5 | 6/19/2017 | 31030 | 10367773 | 89494 | 334.121 | 2.8841 | 115.85 |
| 3 | 23750 | Dravosburg | ER14 | 5 | 6/13/2017 | 34751 | 25231461 | 117703 | 726.064 | 3.387 | 214.37 |
| 4 | 23714 | Pine Creek | WA609 | 5 | 5/29/2017 | 22575 | 25699167 | 138752 | 1138.39 | 6.1463 | 185.22 |
| 5 | 23770 | Traverse Run | R100 | 5 | 5/2/2017 | 19469 | 14759745 | 113245 | 758.115 | 5.8167 | 130.33 |
| 6 | 23710 | Pine Creek | 80E | 5 | 3/27/2017 | 32810 | 8619099 | 67952 | 262.697 | 2.0711 | 126.84 |
| 7 | 23631 | Sewickley | WR723 | 5 | 3/1/2017 | 31956 | 11332950 | 73153 | 354.642 | 2.2892 | 154.92 |
| 8 | 23810 | Brentwood | 100K | 4 | 6/3/2017 | 18622 | 14165787 | 129643 | 760.702 | 6.9618 | 109.27 |
| 9 | 23670 | Montour | WA527 | 4 | 5/7/2017 | 34778 | 13016578 | 125887 | 374.276 | 3.6197 | 103.4 |
| 10 | 23640 | Midland | BKR | 4 | 4/16/2017 | 27835 | 9709120 | 108483 | 348.81 | 3.8974 | 89.499 |
| 11 | 23870 | Mt. Nebo | R100 | 4 | 3/10/2017 | 26795 | 11967692 | 80432 | 446.639 | 3.0018 | 148.79 |
| 12 | 23660 | Crescent | 80E | 4 | 12/17/2016 | 29122 | 9631493 | 50670 | 330.729 | 1.7399 | 190.08 |
| 13 | 23781 | Valley | WR535 | 3 | 6/13/2017 | 18340 | 11933858 | 42062 | 650.701 | 2.2935 | 283.72 |
| 14 | 23761 | Wilmerding | 65K | 3 | 6/10/2017 | 30684 | 8232942 | 24147 | 268.314 | 0.787 | 340.95 |
| 15 | 23688 | Chess | EA306 | 3 | 6/9/2017 | 25797 | 7901554 | 65299 | 306.297 | 2.5313 | 121.01 |
| 16 | 23572 | Brunot Is. | BKR | 3 | 4/13/2017 | 20637 | 8057771 | 75219 | 390.453 | 3.6449 | 107.12 |
| 17 | 23869 | Wildwood | WR975 | 3 | 3/8/2017 | 18745 | 10620024 | 53895 | 566.552 | 2.8752 | 197.05 |
| 18 | 23837 | California | R140 | 3 | 3/7/2017 | 18878 | 9936465 | 171812 | 526.352 | 9.1012 | 57.833 |
| 19 | 23769 | Bryn Mawr | 80E | 2 | 6/13/2017 | 19429 | 8240562 | 51568 | 424.137 | 2.6542 | 159.8 |
| 20 | 23707 | North | WR381 | 2 | 6/4/2017 | 21142 | 9013775 | 25601 | 426.344 | 1.2109 | 352.09 |
| 21 | 23745 | Oakland | 80E | 2 | 6/3/2017 | 28489 | 15112691 | 67077 | 530.475 | 2.3545 | 225.3 |
| 22 | 23871 | Mt Nebo | 20K | 2 | 2/25/2017 | 17687 | 8622759 | 58155 | 487.52 | 3.288 | 148.27 |
| 23 | 23731 | Universal | ER8 | 2 | 8/16/2016 | 12461 | 10329074 | 55762 | 828.912 | 4.4749 | 185.23 |
| 24 | 23764 | Wilmerding | BKR | 2 | 7/11/2016 | 25634 | 7897722 | 70931 | 308.096 | 2.7671 | 111.34 |
| 25 | 22540 | Pine Creek-West Deer | BKR | 2 | 6/15/2017 | 2000 | 8733144 | 12456 | 4366.57 | 6.228 | 701.12 |
| 26 | 23860 | Wilson | ER784 | 2 | 5/5/2017 | 26570 | 9901527 | 126579 | 372.658 | 4.764 | 78.224 |
| 27 | 23610 | Findlay | BKR | 1 | 3/8/2017 | 25975 | 17630709 | 63241 | 678.757 | 2.4347 | 278.79 |

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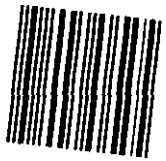

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