

Audrey Waldock
State Regulatory Coordinator
Mail Drop 15-7
(412) 393-6334
awaldock@duqlight.com



January 31, 2019

Via Certified Mail
7018 0360 0002 1824 5412

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

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JAN 31 2019

PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

M-2016-2522508

Re: **Duquesne Light Company**
Quarterly Electric Reliability Report –4th Quarter 2018

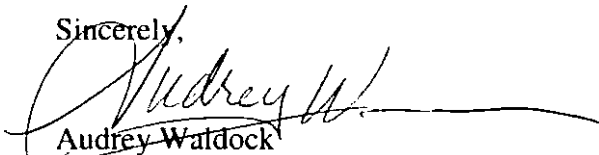
Dear Secretary Chiavetta:

Enclosed please find Duquesne Light Company's Quarterly Electric Reliability Report for the Fourth Quarter of 2018.

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.

Sincerely,

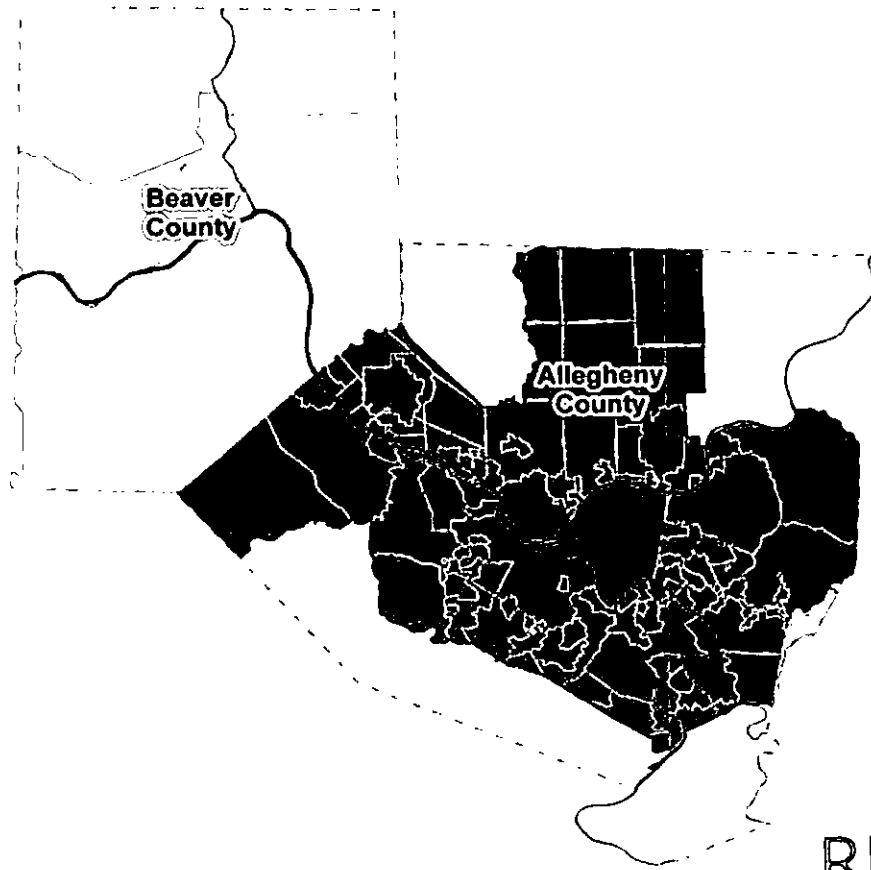


Audrey Waldock
State Regulatory Coordinator

Enclosure

cc (w/ redacted version):

Bureau of Technical Utility Services (dsearfoorc@pa.gov, jvanzant@pa.gov, dawashko@pa.gov)
Office of Consumer Advocate (TMcCloskey@paoca.org)
Office of Small Business Advocate (jorevan@pa.gov, swebb@pa.gov)



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JAN 31 2019

PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

***Duquesne Light Company
Fourth Quarter 2018***

Electric Reliability Report

to the

Pennsylvania Public Utility Commission

January 31, 2019

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 November 15, 2018.

Duquesne Light’s major outage event was caused by a snow and ice storm in Allegheny and Beaver counties that began on Thursday, November 15, 2018 at 0809 hours and ended on Monday, November 19, 2018 at 1238 hours. The storm affected 63,344 of the 598,295 total customers in our service territory. A combination of freezing rain, snow, sleet and ice buildup downed trees on power lines and caused extensive damage to poles and equipment throughout Duquesne Light’s service territory in Allegheny and Beaver counties.

This snow and ice storm caused more damage to Duquesne Light equipment than any storm since 2010. The damage was significant because the snowstorm occurred early in the season, when many leaves were still on trees. The leaves accumulated additional heavy snow and ice, making tree limbs and branches more likely to fall than if there were no leaves on the trees.

Please also see Duquesne Light’s Electric Utility Report of Outage dated December 3, 2018 and Request for Exclusion of Major Outage for Reliability Reporting Purposes dated December 14, 2018 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
 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	*
2018 4Q (Rolling 12 mo.)	89	0.84	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: (Excluding 11/15/18 Major Event)	6,086,512 KVA
Total KVA-Minutes Interrupted: (Excluding 11/15/18 Major Event)	646,765,080 KVA-Minutes
System Connected Load as of 12/31/18:	7,259,129 KVA
November 15, 2018 Major Event:	760,135 KVA (10.5% of System Load) 316,283,090 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 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).

Fourth Quarter 2018 Rolling 12 Month Circuit Data

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
<p>1 Midland-Cooks Ferry 22869 Breaker</p>	<p>8 Total Outages:</p> <p>Fourth Quarter Outages:</p> <ul style="list-style-type: none"> • Two outages were caused by tree fall-in during a storm. <p>Previous Outages:</p> <ul style="list-style-type: none"> • One outage was caused by burned conductor. • One outage was caused by wires wrapped together, causing short circuit. • One outage was caused by lightning during a storm. • The cause of two outages were unknown. • 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. • Vegetation Management completed Q4 2017. • This circuit was reviewed by Protection Engineering to identify any potential device coordination issues. Further work to resolve device coordination issues scheduled for Q1 2019.
<p>2 Pine Creek 23710 Breaker</p>	<p>6 Total Outages:</p> <p>Fourth Quarter Outages:</p> <ul style="list-style-type: none"> • Two outages were caused by high winds causing wires to wrap together. <p>Previous Outages:</p> <ul style="list-style-type: none"> • The cause of three outages were unknown, two during a storm. • 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. • Vegetation Management completed Q3 2018

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
<p>3 Traverse Run 23770 Fuse Link 80E</p>	<p>6 Total Outages:</p> <p>Fourth Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by tree fall-in, during a storm. • The cause of one outage was unknown. • One outage was caused by equipment failures. <p>Previous Outages:</p> <ul style="list-style-type: none"> • The cause of one outage was unknown. • One outage was caused by equipment failure. • One outage was caused by contact with company equipment by vehicle. 	<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. • Routine Vegetation Management last performed 2016 proposed 2020.
<p>4 North 23706 Sectionalizer WR416</p>	<p>6 Total Outages:</p> <p>Fourth 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, during a storm. • Four 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. • Vegetation Management completed Q3 2018
<p>5 Pine Creek 23714 Sectionalizer 609WA</p>	<p>5 Total Outages:</p> <p>Fourth Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by wires wrapping together, during a storm. <p>Previous Outages:</p> <ul style="list-style-type: none"> • One outage was caused by equipment failure. • Three outages were 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. • Vegetation Management completed Q4 2018. • This circuit was reviewed by Protection Engineering to identify any potential device coordination issues. The devices were coordinating properly and no further action is necessary.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
<p>6</p> <p>Midland 23640</p> <p>Recloser 100</p>	<p>5 Total Outages:</p> <p>Fourth Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by tree fall-in. • The cause of one outage was unknown. <p>Previous Outages:</p> <ul style="list-style-type: none"> • Three outages were caused by tree fall-in, one 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. • Vegetation Management completed Q4 2018.
<p>7</p> <p>North 23705</p> <p>Fuse Link 100K</p>	<p>5 Total Outages:</p> <p>Fourth 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"> • Two outages were caused by tree fall-in, one during a storm. • The cause of two outages were 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. • Vegetation Management performed Q1 2017 and proposed for 2021.
<p>8</p> <p>North 23701</p> <p>Fuse Link 65K</p>	<p>5 Total Outages:</p> <p>Fourth Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by tree fall-in, during a storm. • Two outages were caused by high winds causing wires wrapped together. <p>Previous Outages:</p> <ul style="list-style-type: none"> • One outage was caused by tree fall-in, during a storm. • 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. • Vegetation Management performed 2016 and proposed for 2021.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
<p>9 Pine Creek 23712 Recloser WR610</p>	<p>5 Total Outages:</p> <p>Fourth Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by wires wrapping together causing a short circuit. <p>Previous Outages:</p> <ul style="list-style-type: none"> • Four outages were caused by tree fall-in, one 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. • Vegetation Management completed Q4 2018. • This circuit was reviewed by Protection Engineering to identify any potential device coordination issues. The devices were coordinating properly and no further action is necessary.
<p>10 Wildwood 23869 Fuse Link 40K</p>	<p>4 Total Outages:</p> <p>Fourth Quarter Outages:</p> <ul style="list-style-type: none"> • Two outages were caused by tree fall-in, during a storm. <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. • Vegetation Management performed 2016 and proposed for 2020.
<p>11 Fairview 4845 Fuse Link 65K</p>	<p>4 Total Outages:</p> <p>Fourth Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by phases coming untied, during a storm. • One outage was caused by tree fall-in, during a storm. <p>Previous Outages:</p> <ul style="list-style-type: none"> • The cause of one outage was unknown. • 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. • Vegetation Management completed Q4 2018.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
12 Mt. Nebo 23870 Fuse Link 65K	4 Total Outages: Fourth Quarter Outages: <ul style="list-style-type: none"> • One outage was caused by tree fall-in, during a storm. • One outage was caused by icing, during a storm. Previous Outages: <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. • Vegetation Management performed Q4 2017 and proposed for 2021.
13 Woodville 23680 Fuse Link 80E	4 Total Outages: Fourth Quarter Outages: <ul style="list-style-type: none"> • Two outages were caused by tree fall-in, one during a storm. • The cause of one outage was unknown. Previous Outages: <ul style="list-style-type: none"> • One outage was caused by contact with company equipment by animal. 	<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. • Routine Vegetation Management last performed 2016, proposed for 2020.
14 Raccoon 23620 Breaker	4 Total Outages: Fourth Quarter Outages: <ul style="list-style-type: none"> • No outages. Previous Outages: <ul style="list-style-type: none"> • One outage was caused by tower collapse, during a storm. • Three outages were caused by tree fall-in, two 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. • Vegetation Management scheduled for 2019.
15 Chess 23688 Recloser ER863	4 Total Outages: Fourth Quarter Outages: <ul style="list-style-type: none"> • No outages. Previous Outages: <ul style="list-style-type: none"> • Four outages were caused by tree fall-in, one 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. • Vegetation Management was completed Q4 2018.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
<p>16 Universal 23733 Recloser 100</p>	<p>3 Total Outages: Fourth Quarter Outages: <ul style="list-style-type: none"> • One outage was caused by tree fall-in. Previous Outages: <ul style="list-style-type: none"> • The cause of one outage was unknown, during a storm. • One outage was caused by tree fall-in. </p>	<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. • Vegetation Management was completed Q2 2018.
<p>17 Pine Creek 23711 Fuse Link 40K</p>	<p>3 Total Outages: Fourth Quarter Outages: <ul style="list-style-type: none"> • One outage was caused tree fall-in, during a storm. Previous Outages: <ul style="list-style-type: none"> • Two outages were caused by tree fall-in. </p>	<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. • Vegetation Management was performed 2015 and proposed for 2020.
<p>18 Wolfe Run 23646 Recloser R100</p>	<p>3 Total Outages: Fourth Quarter Outages: <ul style="list-style-type: none"> • One outage was caused by icing, during a storm. Previous Outages: <ul style="list-style-type: none"> • One outage was caused by wires wrapping together to create a short. • One outage was caused by contact with company equipment by vehicle. </p>	<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.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
<p>19</p> <p>Montour 23670</p> <p>Fuse Link 40K</p>	<p>3 Total Outages:</p> <p>Fourth 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"> • The cause of one outage was unknown. • 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. • Vegetation Management was completed Q1 2018.
<p>20</p> <p>Wildwood 23868</p> <p>Breaker</p>	<p>3 Total Outages:</p> <p>Fourth 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"> • 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. • Vegetation Management was completed 2016 and proposed for 2020.
<p>21</p> <p>Wolfe Run 23645</p> <p>Fuse Link 80E</p>	<p>3 Total Outages:</p> <p>Fourth Quarter Outages:</p> <ul style="list-style-type: none"> • The cause of one outage was unknown. <p>Previous Outages:</p> <ul style="list-style-type: none"> • One outage was caused by equipment failure. • One outage was caused by contact with company equipment by animal. 	<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.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
<p>22</p> <p>Arsenal 23841</p> <p>Fuse Link 100K</p>	<p>3 Total Outages:</p> <p>Fourth 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 equipment failure. • The cause of one outage was unknown, during a storm. • One outage was caused by wires wrapping together to create a short. 	<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.
<p>23</p> <p>Pine Creek 23716</p> <p>Recloser 100</p>	<p>3 Total Outages:</p> <p>Fourth Quarter Outages:</p> <ul style="list-style-type: none"> • No outages. <p>Previous Outages:</p> <ul style="list-style-type: none"> • The cause of three outages were 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.
<p>24</p> <p>Pine Creek 23713</p> <p>Fuse Link 40K</p>	<p>2 Total Outages:</p> <p>Fourth Quarter Outages:</p> <ul style="list-style-type: none"> • One outage was caused by contact with company equipment by animal. <p>Previous Outages:</p> <ul style="list-style-type: none"> • One outage was caused by equipment failure. 	<ul style="list-style-type: none"> • Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
<p>25</p> <p>Montour 23675</p> <p>Recloser ER253</p>	<p>2 Total Outages:</p> <p>Fourth 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. 	<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. • Vegetation Management was completed 2015 and proposed for 2020.
<p>26</p> <p>Woodville 23683</p> <p>Breaker</p>	<p>2 Total Outages:</p> <p>Fourth 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"> • The cause of one outage 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. • Routine Vegetation Management last performed 2016, proposed for 2021.
<p>27</p> <p>Arsenal 23842</p> <p>Breaker</p>	<p>2 Total Outages:</p> <p>Fourth Quarter Outages:</p> <ul style="list-style-type: none"> • No outages. <p>Previous Outages:</p> <ul style="list-style-type: none"> • The cause of one outage was unknown. • One outage was caused by equipment failure, 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.

(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.

January 1, 2018 through December 31, 2018 – One PUC Major Event Exclusion

CAUSE	NO. OF OUTAGES	OUTAGE PERCENT AGE	KVA TOTAL	KVA PERCENT AGE	KVA-MINUTE TOTAL	KVA-MINUTE PERCENTAGE
Storms	453	13%	861,164	14%	127,193,918	20%
Trees (Contact)	21	1%	23,951	1%	947,120	1%
Trees (Falling)	1,025	30%	1,652,155	27%	212,802,618	33%
Equipment Failures	858	25%	1,780,558	29%	175,924,355	27%
Overloads	155	5%	197,307	3%	11,105,701	2%
Vehicles	144	4%	432,098	7%	42,872,852	7%
Other	734	22%	1,139,279	19%	75,918,516	10%
TOTALS	3,390	100%	6,086,512	100%	646,765,080	100%

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

2018 Transmission and Distribution Goals and Objectives							
Program Project	Unit of Measurement	Target for 2018 4Q	Actual for 2018 4Q	4Q Percent Complete	Targets for Year 2018	Actual YTD for 2018	Year End % Complete
Communications Goals							
Communication Battery Maintenance	Battery Tasks	31	70	226%	124	143	115%
Overhead Distribution Goals							
Recloser Inspections	Circuits	16	17	106%	130	130	100%
Pole Inspections	Poles	5521	11450	207%	17945	18762	105%
OH Line Inspections	Circuits	16	17	106%	130	130	100%
OH Transformer Inspections	Circuits	16	17	106%	130	130	100%
Padmount & Below Grade Insp	Circuits	36	16	44%	80	81	101%
Overhead Transmission Goals							
Helicopter Inspections	Number of Structures	0	0	NA	533	755	142%
Ground Inspections	Number of Structures	0	45	NA	383	383	100%
Substations Goals							
Circuit Breaker Maintenance ¹	Breaker Tasks	115	119	103%	610	561	92%
Station Transformer Maintenance	Transformer Tasks	9	3	33%	52	86	165%
Station Battery Maintenance ²	Battery Tasks	247	245	99%	988	942	95%
Station Relay Maintenance	Relay Tasks	261	286	110%	1391	1535	110%
Station Inspections	Site Visits	498	498	100%	2012	2012	100%
Underground Distribution Goals							
Manhole Inspections	Manholes	160	237	68%	700	729	104%
Major Network Insp (Prot Relay)	Network Protectors	12	17	71%	92	104	113%
Minor Network Visual Inspection (Transformer/Protector/Vault)	Network Transformers	144	0	0%	576	583	101%
Underground Transmission Goals							
Pressurization and Cathodic Protection Plant Inspection	Work Orders	93	97	104%	372	384	103%
Vegetation Management Goals							
Overhead Line Clearance	Circuit Overhead Miles	268	369	138%	1300	1321	102%
Total Units		7,443	13,503	181%	27,548	28,771	104%

¹ Certain maintenance activities were intentionally deferred due to upcoming breaker replacements on Long Term Infrastructure Improvements Projects (LTIP).

² The inspection/maintenance goal is four inspections annually per battery, whereas NERC requires three inspections annually. The Company met its compliance obligation in this category.

(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 December 31, 2018
 Favorable/(Unfavorable)

	Total Actual	Total Budget	Variance
Customer Service	18,074,648	13,980,831	(4,093,817)
Human Resources	3,642,906	4,558,633	915,727
Operations/Operation Services	16,371,788	15,736,652	(635,136)
Technology	12,591,458	12,945,981	354,523
General Corporate*	13,340,739	11,488,881	(1,851,858)
Total	64,021,540	58,710,978	(5,310,562)

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

Budget Variance Recap – O&M Expenses
 For the Twelve Months Ending December 31, 2018
 Favorable/(Unfavorable)

	Total Actual	Total Budget	Variance
Customer Service	67,662,866	62,040,152	(5,622,714)
Human Resources	14,505,988	16,680,823	2,174,835
Operations/Operation Services	63,577,951	63,683,038	105,087
Technology	38,880,133	51,498,196	12,618,063
General Corporate*	60,051,114	48,863,899	(11,187,215)
Total	244,678,051	242,766,108	(1,911,943)

*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 December 31, 2018
 Favorable/(Unfavorable)

	Total Actual	Total Budget	Variance
Customer Service	3,392,865	2,719,983	(672,882)
Human Resources	2,748,767	3,679,179	930,412
Operations/Operation Services	59,024,542	53,571,816	(5,452,726)
Technology	15,846,595	14,519,745	(1,326,850)
General Corporate*	10,536,699	7,111,881	(3,424,818)
Total	91,549,467	81,602,604	(9,946,863)

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

Budget Variance Recap - Capital
 For the Twelve Months Ending December 31, 2018
 Favorable/(Unfavorable)

	Total Actual	Total Budget	Variance
Customer Service	10,973,026	10,750,602	(222,424)
Human Resources	10,775,046	12,856,790	2,081,744
Operations/Operation Services	219,794,831	230,131,752	10,336,921
Technology	59,093,001	58,977,693	(115,308)
General Corporate*	41,689,415	31,144,378	(10,545,037)
Total	342,325,318	343,861,215	1,535,897

*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	18
Telecom Technician	3
Total Telecom	26
Electrical Equipment Technician	37
Protection & Control Technician	27
Yard Group Leader	3
Rigger	6
Laborer	3
Total Substation	76
UG Splicer	38
UG Cable Inspector	10
Cable Tester	1
Network Operator	13
Equipment Material Handler	1
Total Underground	63
Apprentice T&D	50
Equipment Attendant	0
Lineworker	147
Service Crew Leader	3
Equipment Material Handler	4
Total Overhead	204
Right of Way Agent	4
Surveyor	4
Total Real Estate	8
Total Street Light Changer	6
Engineering Technician	33
GIS Technician	2
T&D Mobile Worker	2
Test Technician, Mobile	6
Total Engineering	43
Senior Operator Apprentice	3
Senior Operator	22
Traveling Operator	1
Troubleshooter	11
Total Traveling Operator/Troubleshooter	37
Total Switching Dispatcher	16
Total Employees	479

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

CONFIDENTIAL INFORMATION

4th Quarter 2018

Contractor Dollars:	\$ redacted
Contractor Hours:	redacted

YTD 2018

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 – 4th Quarter 2018

REDACTED

Amount of Time it Takes to Obtain the Necessary Personnel – 4th Quarter 2018

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

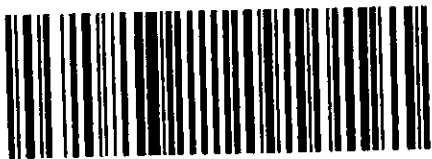
Jaime Bachota – Assistant Controller, Accounting & Financial Reporting
(412) 393-1122, jbachota@duqlight.com

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	Ckt KVA	Total KVA Interrupted	Total KVA-Minutes	SAIDI	SAIFI	CAIDI
1	22869	Midland-Cooks Ferry	BKR	8	11/16/2018	37666	149775	26329767	699.032	3.97639	175.795
2	23710	Pine Creek	100	6	11/26/2018	31769	83221	20762752	653.553	2.61956	249.489
3	23770	Traverse Run	80E	6	11/17/2018	19469	115961	22927186	1177.62	5.95618	197.714
4	23706	North	WR416	6	11/2/2018	21782	125868	7476430	343.238	5.77853	59.3989
5	23714	Pine Creek	WA609	5	12/31/2018	22571	131982	28507439	1263.01	5.84741	215.994
6	23640	Midland	600	5	12/31/2018	28675	96360	24118717	841.106	3.36041	250.298
7	23705	North	100K	5	11/18/2018	26540	50506	10216255	384.938	1.90301	202.278
8	23701	North	65K	5	11/17/2018	16740	65483	8612144	514.464	3.91176	131.517
9	23712	Pine Creek	WR610	5	10/15/2018	19499	97525	15227111	780.917	5.00153	156.135
10	23869	Wildwood	40K	4	11/17/2018	18745	66997	35828329	1911.35	3.57412	534.775
11	4845	Fairview	65K	4	11/17/2018	6693	20366	9696153	1448.70	3.04288	476.095
12	23870	Mt. Nebo	65K	4	11/16/2018	26795	70521	10548102	393.659	2.63187	149.573
13	23680	Woodville	80E	4	11/15/2018	27442	50341	7517978	273.958	1.83445	149.341
14	23620	Raccoon	BKR	4	9/10/2018	24741	75826	17036106	688.577	3.06479	224.673
15	23688	Chess	ER863	4	9/10/2018	26214	79414	10042833	383.109	3.02944	126.461
16	23733	Universal	100	3	11/29/2018	30158	83723	7291521	241.777	2.77614	87.0910
17	23711	Pine Creek	40K	3	11/17/2018	21254	67175	20417992	960.665	3.16058	303.952
18	23646	Wolfe Run	R100	3	11/16/2018	27019	36834	26943125	997.191	1.36326	731.474
19	23670	Montour	40K	3	11/16/2018	29540	101977	7459891	252.535	3.45216	73.1526
20	23868	Wildwood	BKR	3	11/15/2018	25349	50900	22965248	905.962	2.00796	451.183
21	23645	Wolfe Run	80E	3	10/18/2018	28349	64438	8091221	285.414	2.27302	125.565
22	23841	Arsenal	100K	3	7/7/2018	28772	43117	13779566	478.922	1.49857	319.585
23	23716	Pine Creek	100	3	7/4/2018	34563	174734	36208488	1047.60	5.05552	207.220
24	23713	Pine Creek	40K	2	12/25/2018	28333	71783	33088222	1167.83	2.53354	460.947
25	23675	Montour	ER253	2	11/16/2018	27761	44298	8367287	301.404	1.59569	188.886
26	23683	Woodville	ER761	2	10/28/2018	32646	86376	11990614	367.291	2.64583	138.818
27	23842	Arsenal	BKR	2	8/16/2018	26395	77855	7545017	285.850	2.94961	96.9111

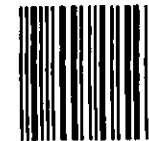
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State Regulatory Coordinator
411 Seventh Avenue, 15-7
Pittsburgh, PA 15219

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