

800 North Third Street  
Suite 203  
Harrisburg, PA 17102  
Tel (412) 393-6231  
Fax (717) 525-7460



**Shelby A. Linton-Keddie**  
Manager, State Regulatory Affairs and Senior Legal Counsel  
[slinton-keddie@duqlight.com](mailto:slinton-keddie@duqlight.com)

**RECEIVED**

July 27, 2016

JUL 27 2016

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PA PUBLIC UTILITY COMMISSION  
SECRETARY'S BUREAU

Ms. Rosemary Chiavetta, Secretary  
Pennsylvania Public Utility Commission  
P. O. Box 3265  
Harrisburg, Pennsylvania 17105-3265

Re: **Duquesne Light Company**  
**Quarterly Electric Reliability Report – 2<sup>nd</sup> Quarter 2016**

*M-2016-2522508*

Dear Secretary Chiavetta:

Enclosed please find Duquesne Light Company's Quarterly Electric Reliability Report for the Second Quarter of 2016.

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](mailto:awaldock@duqlight.com).

Sincerely,

Shelby Linton-Keddie  
Manager, State Regulatory Affairs  
And Senior Legal Counsel

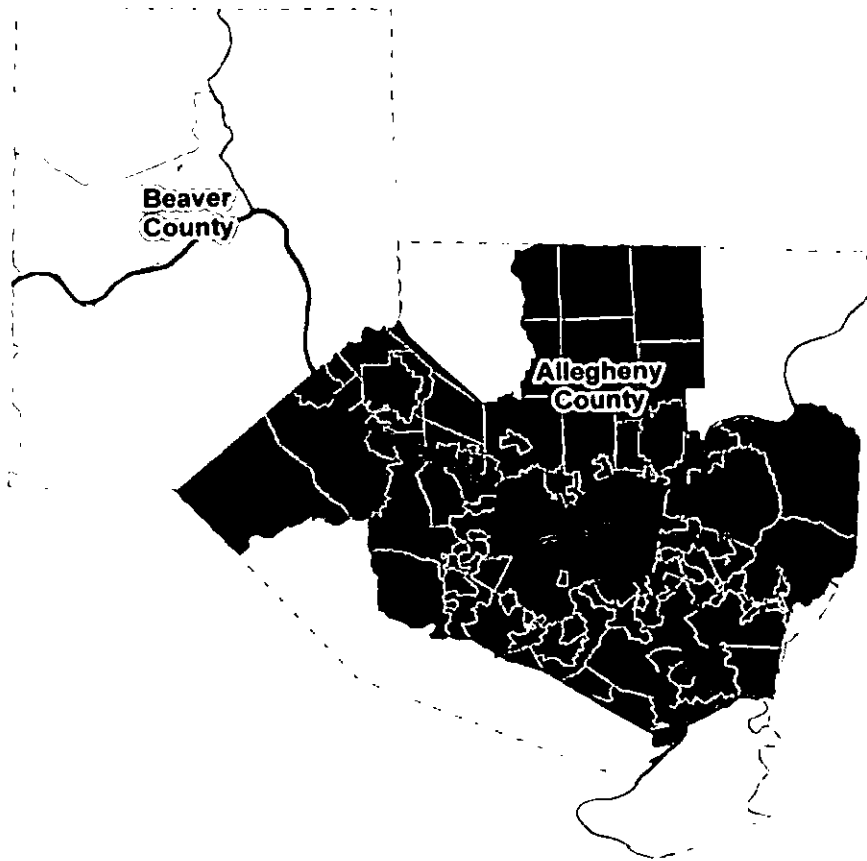
Enclosure

cc (w/ redacted version):

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

Public Version

M-2016-2522508



***Duquesne Light Company  
Second Quarter 2016***

***Electric Reliability Report***

***to the***

***Pennsylvania Public Utility Commission***

**RECEIVED**

JUL 27 2016

PA PUBLIC UTILITY COMMISSION  
SECRETARY'S BUREAU

**July 27, 2016**

**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 2016.

(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.*

<b>Reliability Benchmarks and Standards</b>			
<b>System Performance Measures with Major Events Excluded</b>			
	<b>Benchmark</b>	<b>12-month Standard</b>	<b>2Q 2016 (12 month rolling)</b>
<b>SAIDI</b>	126	182	55
<b>SAIFI</b>	1.17	1.40	0.79
<b>CAIDI</b>	108	130	70
<b>MAIFI<sup>1</sup></b>			

<u>Data used in calculating the indices</u>	
<b>Total KVA Interrupted for the Period:</b>	5,671,238
<b>Total KVA-Minutes Interrupted:</b>	396,955,961
<b>System Connected Load as 6/30/16:</b>	7,203,346

Formulas used in calculating the indices:

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

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

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

<sup>1</sup> 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 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 poorly performing circuit actually experience poor reliability. 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 2016 Rolling 12 Month Circuit Data**

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
<p>1</p> <p>Hiawatha 4478</p> <p>BREAKER</p>	<p>Five Total Outages:</p> <p>Second quarter 2016 Outages:</p> <ul style="list-style-type: none"> <li>• One outage was due to tree fall-in.</li> </ul> <p>Previous Outage:</p> <ul style="list-style-type: none"> <li>• One outage was due to a loss of supply.</li> <li>• One outage was due to a tree fall-in</li> <li>• One outage was due to emergency safety steps needed to protect firefighters.</li> <li>• One outage was due to cable failure.</li> </ul>	<ul style="list-style-type: none"> <li>• Permanent repairs were made following each outage as necessary.</li> <li>• The Company will continue to monitor this circuit for reliability issues.</li> </ul>
<p>2</p> <p>Mt. Nebo 23870</p> <p>BREAKER</p>	<p>Four Total Outages:</p> <p>Second quarter 2016 Outages:</p> <ul style="list-style-type: none"> <li>• One outage was due to a vehicle accident.</li> </ul> <p>Previous Outage:</p> <ul style="list-style-type: none"> <li>• One outage was due to a phase off of ridge pin during a storm.</li> <li>• One outage was due to contact by animal.</li> <li>• One outage was due to connector failure.</li> </ul>	<ul style="list-style-type: none"> <li>• Permanent repairs were made following each outage as necessary.</li> <li>• The Company will continue to monitor this circuit for reliability issues.</li> </ul>
<p>3</p> <p>North 23701</p> <p>FUSE-80E</p>	<p>Four Total Outages:</p> <p>Second quarter 2016 Outages:</p> <ul style="list-style-type: none"> <li>• Two outages were due to tree fall-ins.</li> <li>• One outage was due to insulator failure.</li> </ul> <p>Previous Outage:</p> <ul style="list-style-type: none"> <li>• One outage was unknown.</li> </ul>	<ul style="list-style-type: none"> <li>• Permanent repairs were made following each outage as necessary.</li> <li>• The Company will continue to monitor this circuit for reliability issues.</li> </ul>

<p>4</p> <p>Mt. Nebo 23871</p> <p>WR853</p>	<p>Four Total Outages:</p> <p>Second quarter 2016 Outages:</p> <ul style="list-style-type: none"> <li>• No outage.</li> </ul> <p>Previous Outage:</p> <ul style="list-style-type: none"> <li>• Four outages were due to tree fall-ins.</li> </ul>	<ul style="list-style-type: none"> <li>• Permanent repairs were made following each outage as necessary.</li> <li>• The Company's Asset Management Department recently converted this circuit to pulse-reclosing operation which should improve its protection and reduce future circuit damage during faults making restoration simpler and faster.</li> <li>• The Company's Asset Management Department is also planning to replace a Scadamate sectionalizer with an IntelliRupter recloser.</li> <li>• Routine vegetation maintenance was last performed in 2012 with remedial hazard tree removals addressed in 2014. Routine scheduled maintenance is proposed for 2017.</li> </ul>
<p>5</p> <p>Findlay 23610</p> <p>BREAKER</p>	<p>Four Total Outages:</p> <p>Second quarter 2016 Outages:</p> <ul style="list-style-type: none"> <li>• No outage.</li> </ul> <p>Previous Outage:</p> <ul style="list-style-type: none"> <li>• Two outages were due to tree fall-ins.</li> <li>• Two outages were due to insulator failures.</li> </ul>	<ul style="list-style-type: none"> <li>• Permanent repairs were made following each outage as necessary.</li> <li>• The Company will continue to monitor this circuit for reliability issues.</li> </ul>
<p>6</p> <p>Universal 23730</p> <p>FUSE-100K</p>	<p>Four Total Outages:</p> <p>Second quarter 2016 Outages:</p> <ul style="list-style-type: none"> <li>• No outage.</li> </ul> <p>Previous Outage:</p> <ul style="list-style-type: none"> <li>• One outage was unknown.</li> <li>• One outage was due to lighting arrester failure.</li> <li>• One outage was due to conductors wrapped together.</li> <li>• One outage was due to vehicle accident.</li> </ul>	<ul style="list-style-type: none"> <li>• Permanent repairs were made following each outage as necessary.</li> <li>• The Company's Asset Management Department is going to convert this circuit to all pulse-reclosing operation by end of 2016 which will improve its protection and reduce future circuit damage during faults making restoration simpler and faster.</li> </ul>

<p>7</p> <p>North 23700</p> <p>WR445</p>	<p>Three Total Outages:</p> <p>Second quarter 2016 Outages:</p> <ul style="list-style-type: none"> <li>• One outage was due to tree fall-in.</li> </ul> <p>Previous Outage:</p> <ul style="list-style-type: none"> <li>• One outage was due to high winds that caused conductors wrapped together.</li> <li>• One outage was due to tree fall-in during storm.</li> </ul>	<ul style="list-style-type: none"> <li>• Permanent repairs were made following each outage as necessary.</li> <li>• The Company will continue to monitor this circuit for reliability issues.</li> </ul>
<p>8</p> <p>Pine Creek 23712</p> <p>WA667</p>	<p>Three Total Outages:</p> <p>Second quarter 2016 Outages:</p> <ul style="list-style-type: none"> <li>• One outage was due to tree fall-in.</li> </ul> <p>Previous Outage:</p> <ul style="list-style-type: none"> <li>• One outage was due to tree fall-in.</li> <li>• One outage was unknown.</li> </ul>	<ul style="list-style-type: none"> <li>• Permanent repairs were made following each outage as necessary.</li> <li>• The Company's Asset Management Department is planning 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.</li> </ul>
<p>9</p> <p>Highland 23820</p> <p>FUSE-80E</p>	<p>Three Total Outages:</p> <p>Second quarter 2016 Outages:</p> <ul style="list-style-type: none"> <li>• Three outages were due to tree fall-ins, one of them was during storm.</li> </ul> <p>Previous Outage:</p> <ul style="list-style-type: none"> <li>• No outage.</li> </ul>	<ul style="list-style-type: none"> <li>• Permanent repairs were made following each outage as necessary.</li> <li>• Routine vegetation maintenance was last performed in 2012. Routine scheduled maintenance is proposed for 2017.</li> <li>• The Company will continue to monitor this circuit for reliability issues.</li> </ul>
<p>10</p> <p>Pine Creek 23718</p> <p>WR1043</p>	<p>Three Total Outages:</p> <p>Second quarter 2016 Outages:</p> <ul style="list-style-type: none"> <li>• One outage was due to tree fall-in.</li> </ul> <p>Previous Outage:</p> <ul style="list-style-type: none"> <li>• One outage was due to connector failure.</li> <li>• One outage was due to tree fall-in.</li> </ul>	<ul style="list-style-type: none"> <li>• Permanent repairs were made following each outage as necessary.</li> <li>• Routine vegetation maintenance is proposed for 2017.</li> <li>• The Company will continue to monitor this circuit for reliability issues.</li> </ul>

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<p>11</p> <p>Sewickley 23631</p> <p>FUSE-65K</p>	<p>Three Total Outages:</p> <p>Second quarter 2016 Outages:</p> <ul style="list-style-type: none"> <li>• One outage was due to tree fall-in.</li> <li>• Two outages were unknown.</li> </ul> <p>Previous Outage:</p> <ul style="list-style-type: none"> <li>• No outage.</li> </ul>	<ul style="list-style-type: none"> <li>• Permanent repairs were made following each outage as necessary.</li> <li>• The Company will continue to monitor this circuit for reliability issues.</li> </ul>
<p>12</p> <p>Midland Cooks Ferry 22869</p> <p>FUSE-80E</p>	<p>Three Total Outages:</p> <p>Second quarter 2016 Outages:</p> <ul style="list-style-type: none"> <li>• Three outages were due to tree fall-ins.</li> </ul> <p>Previous Outage:</p> <ul style="list-style-type: none"> <li>• No outage.</li> </ul>	<ul style="list-style-type: none"> <li>• Permanent repairs were made following each outage as necessary.</li> <li>• Routine vegetation maintenance was last performed in 2012 and is proposed for 2017.</li> <li>• The Company will continue to monitor this circuit for reliability issues.</li> </ul>
<p>13</p> <p>Oakland 23741</p> <p>FUSE-65K</p>	<p>Two Total Outages:</p> <p>Second quarter 2016 Outages:</p> <ul style="list-style-type: none"> <li>• One outage was due to a cable failure.</li> </ul> <p>Previous Outage:</p> <ul style="list-style-type: none"> <li>• One outage was due to a cable joint failure.</li> </ul>	<ul style="list-style-type: none"> <li>• Permanent repairs were made following each outage as necessary.</li> <li>• The Company's Asset Management Department is planning 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.</li> </ul>
<p>14</p> <p>Bryn Mawr 23769</p> <p>ER235</p>	<p>Two Total Outages:</p> <p>Second quarter 2016 Outages:</p> <ul style="list-style-type: none"> <li>• No outage.</li> </ul> <p>Previous Outage:</p> <ul style="list-style-type: none"> <li>• Two outages were due to vehicle accidents.</li> </ul>	<ul style="list-style-type: none"> <li>• Permanent repairs were made following each outage as necessary.</li> <li>• The Company will continue to monitor this circuit for reliability issues.</li> </ul>
<p>15</p> <p>Oakland 23743</p> <p>ER754</p>	<p>Two Total Outages:</p> <p>Second quarter 2016 Outages:</p> <ul style="list-style-type: none"> <li>• No outage.</li> </ul> <p>Previous Outage:</p> <ul style="list-style-type: none"> <li>• One outage was due to an insulator failure.</li> <li>• One outage was due to lightning.</li> </ul>	<ul style="list-style-type: none"> <li>• Permanent repairs were made following each outage as necessary.</li> <li>• The Company's Asset Management Department is recently replaced a Scadamate sectionalizer with an IntelliRupter recloser and converted this circuit to all pulse-reclosing operation which should improve its protection and reduce future circuit damage during faults making restoration simpler and faster.</li> </ul>

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<p>16          Pine Creek          23713          FUSE-65K</p>	<p>Two Total Outages:          Second quarter 2016 Outages:  <ul style="list-style-type: none"> <li>• No outage.</li> </ul>         Previous Outage:  <ul style="list-style-type: none"> <li>• Two outages were due to tree fall-ins.</li> </ul> </p>	<ul style="list-style-type: none"> <li>• Permanent repairs were made following each outage as necessary.</li> <li>• Vegetation Maintenance was completed in the 3rd quarter of 2015. Vegetation maintenance is proposed for 2020.</li> <li>• The Company will continue to monitor this circuit for reliability issues.</li> </ul>
<p>17          Legionville          23790          BREAKER</p>	<p>Two Total Outages:          Second quarter 2016 Outages:  <ul style="list-style-type: none"> <li>• No outage.</li> </ul>         Previous Outage:  <ul style="list-style-type: none"> <li>• One outage was due to high current overload.</li> <li>• One outage was due to a broken cross arm during storm</li> </ul> </p>	<ul style="list-style-type: none"> <li>• Permanent repairs were made following each outage as necessary.</li> <li>• The Company will continue to monitor this circuit for reliability issues.</li> </ul>
<p>18          Woodville          23682          FUSE-65K</p>	<p>Two Total Outages:          Second quarter 2016 Outages:  <ul style="list-style-type: none"> <li>• No outage.</li> </ul>         Previous Outage:  <ul style="list-style-type: none"> <li>• Two outages were due to cable failures.</li> </ul> </p>	<ul style="list-style-type: none"> <li>• Permanent repairs were made following each outage as necessary.</li> <li>• The Company will continue to monitor this circuit for reliability issues.</li> </ul>
<p>19          Sewickley          23630          WA601</p>	<p>Two Total Outages:          Second quarter 2016 Outages:  <ul style="list-style-type: none"> <li>• No outage.</li> </ul>         Previous Outage:  <ul style="list-style-type: none"> <li>• One outage was due to a tree fall-in.</li> <li>• One outage was due to connector failure.</li> </ul> </p>	<ul style="list-style-type: none"> <li>• Permanent repairs were made following each outage as necessary.</li> <li>• The Company's Asset Management Department is going to convert this circuit to pulse-reclosing operation by the end of 2016 which will improve its protection and reduce future circuit damage during faults making restoration faster.</li> <li>• Routine vegetation maintenance was last performed in 2013 and is proposed for 2017. VM will continue to monitor tree-related issues affecting the circuit.</li> </ul>

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<p>20</p> <p>Rankin 4601</p> <p>BREAKER</p>	<p>Two Total Outages:</p> <p>Second quarter 2016 Outages:</p> <ul style="list-style-type: none"> <li>• No outage.</li> </ul> <p>Previous Outage:</p> <ul style="list-style-type: none"> <li>• One outage was due to a tree fall-in.</li> <li>• One outage was an unknown.</li> </ul>	<ul style="list-style-type: none"> <li>• Permanent repairs were made following each outage as necessary.</li> <li>• The Company will continue to monitor this circuit for reliability issues.</li> </ul>
<p>21</p> <p>Universal 23732</p> <p>BREAKER</p>	<p>Two Total Outages:</p> <p>Second quarter 2016 Outages:</p> <ul style="list-style-type: none"> <li>• No outage.</li> </ul> <p>Previous Outage:</p> <ul style="list-style-type: none"> <li>• One outage was due to a tree fall-in.</li> <li>• One outage was due to a tree fall-in during storm.</li> </ul>	<ul style="list-style-type: none"> <li>• Permanent repairs were made following each outage as necessary.</li> <li>• The Company will continue to monitor this circuit for reliability issues.</li> </ul>
<p>22</p> <p>Arsenal 23840</p> <p>FUSE-80E</p>	<p>Two Total Outages:</p> <p>Second quarter 2016 Outages:</p> <ul style="list-style-type: none"> <li>• No outage.</li> </ul> <p>Previous Outage:</p> <ul style="list-style-type: none"> <li>• One outage was due to lightning arrester failure.</li> <li>• One outage was due to a tree fall-in.</li> </ul>	<ul style="list-style-type: none"> <li>• Permanent repairs were made following each outage as necessary.</li> <li>• The Company will continue to monitor this circuit for reliability issues.</li> </ul>
<p>24</p> <p>Woodville 23680</p> <p>BREAKER</p>	<p>Two Total Outages:</p> <p>Second quarter 2016 Outages:</p> <ul style="list-style-type: none"> <li>• One outage was unknown.</li> </ul> <p>Previous Outage:</p> <ul style="list-style-type: none"> <li>• One outage was due to lightning arrester failure.</li> </ul>	<ul style="list-style-type: none"> <li>• Permanent repairs were made following each outage as necessary.</li> <li>• The Company will continue to monitor this circuit for reliability issues.</li> </ul>

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<p>25 Pine Creek 23715 R100</p>	<p>Two Total Outages: Second quarter 2016 Outages:</p> <ul style="list-style-type: none"> <li>• No outage.</li> </ul> <p>Previous Outage:</p> <ul style="list-style-type: none"> <li>• One outage was due to a tree fall-in.</li> <li>• One outage was unknown</li> </ul>	<ul style="list-style-type: none"> <li>• Permanent repairs were made following each outage as necessary.</li> <li>• The Company will continue to monitor this circuit for reliability issues.</li> </ul>
<p>25 Forward 4328 BREAKER</p>	<p>One Total Outages: Second quarter 2016 Outages:</p> <ul style="list-style-type: none"> <li>• No outage.</li> </ul> <p>Previous Outage:</p> <ul style="list-style-type: none"> <li>• One outage was due to cable failure.</li> </ul>	<ul style="list-style-type: none"> <li>• Permanent repairs were made following each outage as necessary.</li> <li>• The Company will continue to monitor this circuit for reliability issues.</li> </ul>
<p>26 North 23705 WA376</p>	<p>One Total Outages: Second quarter 2016 Outages:</p> <ul style="list-style-type: none"> <li>• No outage.</li> </ul> <p>Previous Outage:</p> <ul style="list-style-type: none"> <li>• One outage was due to vehicle accident.</li> </ul>	<ul style="list-style-type: none"> <li>• Permanent repairs were made following each outage as necessary.</li> <li>• The Company will continue to monitor this circuit for reliability issues.</li> </ul>
<p>27 Findlay 23613 WA938</p>	<p>One Total Outages: Second quarter 2016 Outages:</p> <ul style="list-style-type: none"> <li>• One outage was due to tree fall-in.</li> </ul> <p>Previous Outage:</p> <ul style="list-style-type: none"> <li>• No outage.</li> </ul>	<ul style="list-style-type: none"> <li>• Permanent repairs were made following each outage as necessary.</li> <li>• The Company will continue to monitor this circuit for reliability issues.</li> </ul>

**(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, 2015 through June 30, 2016– No PUC Major Event Exclusions**

CAUSE	NO. OF OUTAGES	OUTAGE PERCENTAGE	KVA TOTAL	KVA PERCENTAGE	KVA-MINUTE TOTAL	KVA-MINUTE PERCENTAGE
<b>Storms</b>	316	13%	799,818	14%	59,123,861	15%
<b>Trees (Contact)</b>	49	2%	83,020	1%	6,663,706	2%
<b>Trees (Falling)</b>	625	25%	1,177,081	21%	113,646,613	29%
<b>Equipment Failures</b>	706	28%	1,706,362	30%	126,086,975	32%
<b>Overloads</b>	102	4%	253,559	4%	7,497,030	2%
<b>Vehicles</b>	168	7%	485,573	9%	36,155,652	9%
<b>Other</b>	562	21%	1,165,825	21%	47,782,124	11%
<b>TOTALS</b>	2,528	100%	5,671,238	100%	396,955,961	100%

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

<b>2016 Transmission and Distribution Goals and Objectives</b>						
<b>Program Project</b>	<b>Unit of Measurement</b>	<b>Target for 2016 2Q</b>	<b>Actual for 2016 12Q</b>	<b>Percent Complete</b>	<b>Targets for Year 2016</b>	<b>Actual YTD for 2016</b>
<b>Communications Goals</b>						
Communication Battery Maintenance	Batteries	24	31	129%	96	55
<b>Overhead Distribution Goals</b>						
Recloser Inspections	Circuits	34	73	215%	130	111
Pole Inspections	Poles	6,735	7749	115%	17,945	8,100
OH Line Inspections	Circuits	34	73	215%	130	111
OH Transformer Inspections	Circuits	34	73	215%	130	111
Padmount & Below Grade Insp	Circuits	21	0	0%	80	63
<b>Overhead Transmission Goals</b>						
Helicopter Inspections	Number of Structures	500	626	N/A	500	626
Ground Inspections	Number of Structures	367	132	36%	367	327
<b>Substations Goals</b>						
Circuit Breaker Maintenance	Breakers	175	162	93%	585	359
Station Transformer Maintenance	Transformers	47	76	162%	84	84
Station Battery Maintenance	Batteries	235	243	103%	940	484
Station Relay Maintenance	Relays	525	523	100%	2,081	1,084
Station Inspections	Sites	510	509	100%	2,040	1,019
<b>Underground Distribution Goals</b>						
Manhole Inspections	Manholes	233	221	95%	700	677
Major Network Insp (Prot Relay)	Ntwk Protectors	40	66	165%	92	93
Minor Network Visual Inspection (Transformer/Protector/Vault)	Ntwk Transformers	191	135	71%	573	640
<b>Underground Transmission Goals</b>						
Pressurization and Cathodic Protection Plant Inspection	Work Packages	13	23	177%	52	38
<b>Vegetation Management Goals</b>						
Overhead Line Clearance	Circuit Overhead Miles	310	364	117%	1,300	621
<b>Total Units</b>		10,028	11,079	110%	27,825	14,603

(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, 2016  
 Favorable/(Unfavorable)

	<b>Total Actual</b>	<b>Total Budget</b>	<b>Variance</b>
<b>Customer Care</b>	11,981,307	12,332,261	350,954
<b>Human Resources</b>	3,856,082	3,662,400	(193,681)
<b>Operations/Operation Services</b>	16,315,177	17,094,078	778,901
<b>Technology</b>	13,135,034	14,253,144	1,118,110
<b>General Corporate*</b>	13,754,492	12,829,784	(924,708)
<b>Total</b>	59,042,091	60,171,666	1,129,575

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

Budget Variance Recap – O&M Expenses  
 For the Six Months Ending June 30, 2016  
 Favorable/(Unfavorable)

	<b>Total Actual</b>	<b>Total Budget</b>	<b>Variance</b>
<b>Customer Care</b>	25,079,093	25,525,057	445,964
<b>Human Resources</b>	7,334,572	7,531,869	197,297
<b>Operations/Operation Services</b>	31,197,478	34,139,190	2,941,713
<b>Technology</b>	24,903,731	28,686,326	3,782,595
<b>General Corporate*</b>	28,058,329	26,775,220	(1,283,108)
<b>Total</b>	116,573,202	122,657,663	6,084,460

\*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, 2016  
 Favorable / (Unfavorable)

	<b>Total Actual</b>	<b>Total Budget</b>	<b>Variance</b>
<b>Customer Care</b>	767,599	718,714	(48,885)
<b>Human Resources</b>	2,213,314	2,852,463	639,149
<b>Operations/Operation Services</b>	35,913,443	38,844,041	2,930,598
<b>Technology</b>	18,720,091	16,974,149	(1,745,942)
<b>General Corporate*</b>	6,456,571	6,124,601	(331,970)
<b>Total</b>	64,071,018	65,513,968	1,442,950

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

Budget Variance Recap - Capital  
 For the Six Months Ending June 30, 2016  
 Favorable / (Unfavorable)

	<b>Total Actual</b>	<b>Total Budget</b>	<b>Variance</b>
<b>Customer Care</b>	1,468,159	1,414,860	(53,299)
<b>Human Resources</b>	4,778,263	5,006,177	227,914
<b>Operations/Operation Services</b>	71,542,314	78,042,559	6,500,245
<b>Technology</b>	42,901,923	33,948,155	(8,953,768)
<b>General Corporate*</b>	13,825,534	11,685,778	(2,139,756)
<b>Total</b>	134,516,193	130,097,529	(4,418,664)

\*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).*

<b>Job Title</b>	<b>Number of Employees<sup>2</sup></b>
Telecom Splicer/Trouble Tech	5
Electronic Technician	17
Telecom Technician	4
<b>Total Telecom</b>	<b>26</b>
Electrical Equipment Technician	33
Protection & Control Technician	25
Yard Group Leader	3
Rigger	7
Laborer	3
<b>Total Substation</b>	<b>71</b>
UG Splicer	38
UG Cable Inspector	9
Cable Tester	1
Network Operator	11
Equipment Material Handler	1
<b>Total Underground</b>	<b>60</b>
Apprentice T&D	69
Service Center Technician	0
Equipment Attendant	1
Lineworker	134
Service Crew Leader	4
Equipment Material Handler	3
<b>Total Overhead</b>	<b>211</b>
<b>Total Street Light Changer</b>	<b>6</b>

<sup>2</sup> Due to the realignment of reporting relationships and job descriptions, some of the employee numbers for individual job titles reflect changes from the First Quarter 2016 Report; however the actual total number of employees did not change significantly.

Duquesne Light Company  
Second Quarter 2016 Electric Reliability Report

<b>Job Title</b>	<b>Number of Employees<sup>2</sup></b>
Engineering Technician	36
GIS Technician	8
Right of Way Agent	4
Surveyor	5
T&D Mobile Worker	7
Test Technician, Mobile	6
<b>Total Engineering</b>	<b>66</b>
Senior Operator	29
Traveling Operator	3
Troubleshooter	19
<b>Total Traveling Operator/Troubleshooter</b>	<b>51</b>
<b>Total Switching Dispatcher</b>	<b>11</b>
<b>Total Employees</b>	<b>502</b>

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

**CONFIDENTIAL INFORMATION BELOW**

**2nd Quarter 2016**

Contractor Dollars: \$redacted  
Contractor Hours: redacted

**YTD 2016**

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 BELOW**

**Call-Out Acceptance Rate –2nd Quarter 2016**

**REDACTED**

**Amount of Time it Takes to Obtain the Necessary Personnel – 2<sup>nd</sup> Quarter 2016**

**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.*

Ken Kallis – Sr. Manager, Asset Management  
(412) 393-8613, [kkallis@duqlight.com](mailto:kkallis@duqlight.com)

Jaime Bachota – Manager, Accounting & Financial Reporting  
(412) 393-1122, [jbachota@duqlight.com](mailto:jbachota@duqlight.com)

ATTACHMENT A

Rank	Circuit No	Circuit Name	Feeder Device	Device Lockouts	Last Lockout	Circuit KVA	Total KVA Interrupted	Total KVA-Minutes	SAIDI	SAIFI	CAIDI
1	4478	Hiawatha	BREAKER	5	28-Jun-16	5684	3483129	5824	612.80	1.02	598.06
2	23870	Mt. Nebo	BREAKER	4	24-Jun-16	26795	13600982	288062	507.59	10.75	47.22
3	23701	North	FUSE-80E	4	16-Jun-16	16740	7711092	51086	460.64	3.05	150.94
4	23871	Mt Nebo	WR853	4	16-Jun-16	17687	6741176	108259	381.14	6.12	62.27
5	23610	Findlay	BREAKER	4	10-Jun-16	25975	8566649	95272	329.80	3.67	89.92
6	23730	Universal	FUSE-100K	4	02-May-16	18423	5632036	59878	305.71	3.25	94.06
7	23700	North	WR445	3	25-Jun-16	17835	4602496	54393	258.06	3.05	84.62
8	23712	Pine Creek	WA667	3	24-Jun-16	18039	3490291	63478	193.49	3.52	54.98
9	23820	Highland	FUSE-80E	3	17-Jun-16	32049	7188311	108153	224.29	3.37	66.46
10	23718	Pine Creek	WR1043	3	17-Jun-16	21478	4767478	54433	221.97	2.53	87.58
11	23631	Sewickley	FUSE-65K	3	16-Jun-16	31956	6905274	87811	216.09	2.75	78.64
12	22869	Midland-Cooks Ferry	FUSE-80E	3	16-Jun-16	37666	5040998	108855	133.83	2.89	46.31
13	23741	Oakland	FUSE-65K	2	30-Jun-16	14198	3741595	22246	189.80	1.13	168.19
14	23769	Bryn Mawr	ER235	2	29-Jun-16	19429	4712887	75471	242.57	3.88	62.45
15	23743	Oakland	ER754	2	28-Jun-16	23818	4099776	49965	172.13	2.10	82.05
16	23713	Pine Creek	FUSE-65K	2	27-Jun-16	27660	4502050	54833	162.76	1.98	82.10
17	23790	Legionville	BREAKER	2	25-Jun-16	20755	3735530	20988	263.10	1.48	177.98
18	23682	Woodville	FUSE-65K	2	19-Jun-16	29007	3788943	44522	130.62	1.53	85.10
19	23630	Sewickley	WA601	2	18-Jun-16	26272	4231631	70179	161.07	2.67	60.30
20	4601	Rankin	BREAKER	2	17-Jun-16	7639	5773360	35946	755.77	4.71	160.61
21	23732	Universal	BREAKER	2	16-Jun-16	19713	3650901	48574	175.90	2.34	75.16
22	23840	Arsenal	FUSE-80E	2	15-Jun-16	35725	5925101	72077	165.85	2.02	82.21
23	23680	Woodville	BREAKER	2	12-Jun-16	23865	4118664	45803	172.58	1.92	89.92
24	23715	Pine Creek	R100	2	07-Jun-16	19317	3429871	31040	177.56	1.61	110.50
25	4328	Forward	BREAKER	1	15-Jan-16	1549	4224977	3736	2727.55	2.41	1130.88
26	23705	North	WA376	1	30-Jun-16	26540	4459946	73542	168.05	2.77	60.64
27	23613	Findlay	WA938	1	09-Jun-16	21617	3247984	62524	150.25	2.89	51.95

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OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

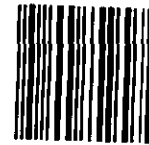
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—DUQUESNE LIGHT CO.—

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

Ms. Rosemary Chiavetta, Secretary  
Pennsylvania Public Utility Commission  
P. O. Box 3265  
Harrisburg, PA 17105-3265