

L-00030161



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October 30, 2015

**RECEIVED**

Ms. Rosemary Chiavetta, Secretary  
Pennsylvania Public Utility Commission  
Commonwealth Keystone Building, 2<sup>nd</sup> Floor  
400 North Street  
Harrisburg, Pennsylvania 17120

OCT. 30 2015

PA PUBLIC UTILITY COMMISSION  
SECRETARY'S BUREAU

Re: Duquesne Light Company  
Quarterly Electric Reliability Report – 3Q 2015

Dear Secretary Chiavetta:

Please find enclosed for filing the Third Quarter 2015 Quarterly Electric Reliability Report of Duquesne Light Company.

Duquesne Light is submitting both a confidential version and a non-confidential version. The confidential version includes all information required by 52 Pa. Code § 57.195, is marked "confidential" and is enclosed in a sealed envelope. The non-confidential version contains all required information except that the information contained within subsection (e)(10) of the report has been redacted. Duquesne Light Company respectfully requests the confidential version of Duquesne Light Company's Electric Reliability Report not be made available to the public.

If you have any questions regarding the information contained in this filing, please contact Ribeka Garrity at 412-393-6099 or [rgarrity@duqlight.com](mailto:rgarrity@duqlight.com).

Sincerely,

Robert H. Hoaglund II  
Assistant General Counsel, PA Regulatory

Enclosures

cc: Bureau of Technical Utility Services (Non-confidential Version)  
Office of Consumer Advocate (Non-confidential Version)  
Office of Small Business Advocate (Non-confidential Version)



***Duquesne Light Company***  
***Third Quarter 2015***  
***Electric Reliability Report***  
***to the***  
***Pennsylvania Public Utility Commission***

***October 30, 2015***

**DUQUESNE LIGHT COMPANY**  
**Third Quarter 2015 – Electric Reliability Report**

**Filed October 30, 2015**

**57.195 Reporting Requirements**

**(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 – Senior 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)

**(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 third quarter of 2015.

(e)(2) Rolling 12-month reliability index values (SAIFI, CAIDI, SAIDI, and if available, MAIFI) for the electric distribution company's service territory for the preceding quarter. The report shall include the data used in calculating the indices, namely the average number of customers served, the number of sustained customer interruptions, the number of customers affected, and the customer minutes of interruption. If MAIFI values are provided, the report shall also include the number of customer momentary interruptions.

**RELIABILITY BENCHMARKS AND STANDARDS**

**Duquesne Light Company**

**System Performance Measures with Major Events Excluded**

Entire System				
	SAIDI	SAIFI	CAIDI	MAIFI
Benchmark	126	1.17	108	*
12 Month Standard	182	1.40	130	*
2015 3Q (Rolling 12 mo)	78	0.73	107	*

\* 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 5,292,442 KVA

Total KVA-Minutes Interrupted: 564,832,725 KVA-Minutes

System Connected Load as of 9/30/15: 7,203,588 KVA

**(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, sectionalizers and line reclosers). Circuits that experience four or more lockouts for a device in each quarterly rolling twelve-month period are identified and reported.

The list is ranked first by the number of lockouts, with a secondary sort based on the date of the most recent outage. This places a higher priority on circuits in each group experiencing problems more recently. Circuits that have not seen recent outages fall to a lower priority within the group, but remain on the list for monitoring.

Circuits that appear on the list for more than a year are targeted for remediation based on a review of outage records for root cause problems, field evaluations, and engineering analysis. Project scopes developed as a result of this analysis will be incorporated into the Company's Work Plan for engineering, design and construction.

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. The threshold of four lockouts may produce a result greater or less than 5% of the total circuits in Duquesne's system. Reports will be issued on all circuits that violate the four-lockout threshold, even if the total is greater than 5% of the number of circuits on the system. If there are less than 5% of the circuits that violate the four-lockout threshold, then circuits with three lockouts that had the highest KVA-Minutes of outage time during the evaluation period will be added to get the list to 5% of the total circuits in the system.

See Attachment A for table of circuit reliability values and Service Centers 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).

Third Quarter 2015 Rolling 12 Month Circuit Data

Rank	Circuit	Name	Device	Service Center	Remedial Actions Planned or Taken
1	4478	Hiawatha	LOSS OF SUPPLY	Preble	<p>Five total outages:</p> <p>Third Quarter 2015 Outages:</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> </ul> <p>Previous Outages:</p> <ul style="list-style-type: none"> <li>• One outage was due to loss of supply.</li> <li>• One was an unplanned operational outage.</li> </ul> <p>Remedial Actions:</p> <ul style="list-style-type: none"> <li>• The Company has installed an IntelliRupter on the overhead conductor side of the sub-transmission circuit feeding Hiawatha Substation to provide Auto Fault-Clearing functionality. This will lessen the impact of tree problems in this heavily wooded section of the circuit by automatically clearing tree faults and rerouting power to customers from the other side of the substation. The installation of the new IntelliRupter was completed at the end of the third quarter of 2015.</li> </ul>

Rank	Circuit	Name	Device	Service Center	Remedial Actions Planned or Taken
2	23710	Pine Creek	WA913	Edison	<p>Five total outages:</p> <p>Third Quarter 2015 Outages:</p> <ul style="list-style-type: none"> <li>• Three outages were due to tree fall-ins.</li> </ul> <p>Previous Outages:</p> <ul style="list-style-type: none"> <li>• One outage was due to tree fall-in.</li> <li>• One outage was due to a storm.</li> </ul> <p>Remedial Actions:</p> <ul style="list-style-type: none"> <li>• Vegetation Management will investigate the portion of line beyond the device for vegetation-related reliability issues and address conditions of immediate need by the end of the fourth quarter of 2015.</li> </ul>
3	4676	Brierly	LOSS OF SUPPLY	McKeesport	<p>Five total outages:</p> <p>Third Quarter 2015 Outages:</p> <ul style="list-style-type: none"> <li>• One outage was due to a cable failure.</li> <li>• One outage was due to a vehicle accident.</li> </ul> <p>Previous Outages:</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 cable pothead failure.</li> <li>• One outage was due to a phase down.</li> </ul> <p>Remedial Actions:</p> <ul style="list-style-type: none"> <li>• The Company's Asset Management Department is investigating the feasibility of adding Auto Fault-Clearing to the sub-transmission circuit feeding Brierly Substation to reduce Loss of Supply outages.</li> </ul>

Rank	Circuit	Name	Device	Service Center	Remedial Actions Planned or Taken
4	23871	Mt Nebo	WA853	Raccoon	<p>Five total outages:</p> <p>Third Quarter 2015 Outages:</p> <ul style="list-style-type: none"> <li>• Four outages were due to tree fall-ins.</li> </ul> <p>Previous Outages:</p> <ul style="list-style-type: none"> <li>• One outage was due to a cable termination failure.</li> </ul> <p>Remedial Actions:</p> <ul style="list-style-type: none"> <li>• Permanent repairs were made to the failed cable termination.</li> <li>• Vegetation Management completed hazard tree mitigation in the second quarter of 2014. Due to Emerald Ash Borer, the circuit continues to have ash tree mortality which may impact reliability. Vegetation Management will investigate the portion of line beyond the device for vegetation-related reliability issues and address conditions of immediate need by the end of the fourth quarter of 2015.</li> </ul>
5	23882	Rankin	EA52	Penn Hills	<p>Four total outages:</p> <p>Third Quarter 2015 Outages:</p> <ul style="list-style-type: none"> <li>• One outage was due to a storm.</li> </ul> <p>Previous Outages:</p> <ul style="list-style-type: none"> <li>• Two outages were due to storms.</li> <li>• One outage was due to a tree fall-in.</li> </ul> <p>Remedial Action:</p> <ul style="list-style-type: none"> <li>• The Company's Asset Management Department is planning to convert this circuit to all pulse-reclosing operation by the end of 2015 which will improve fault protection and reduce circuit damage in the future during faults.</li> </ul>

Rank	Circuit	Name	Device	Service Center	Remedial Actions Planned or Taken
6	23640	Midland	R100	Raccoon	<p>Four total outages:</p> <p>Third Quarter 2015 Outages:</p> <ul style="list-style-type: none"> <li>• One outage was due to a tree fall-in.</li> </ul> <p>Previous Outages:</p> <ul style="list-style-type: none"> <li>• Three outages were due to tree fall-ins.</li> </ul> <p>Remedial Actions:</p> <ul style="list-style-type: none"> <li>• Vegetation Management will investigate the portion of line beyond the device for vegetation-related reliability issues and address conditions of immediate need by the end of the fourth quarter of 2015.</li> </ul>
7	4548-4549	Connor	LOSS OF SUPPLY	Preble	<p>Four total outages on the sub-transmission system affected both 4kV circuits out of Connor Substation:</p> <p>Third Quarter 2015 Outages:</p> <ul style="list-style-type: none"> <li>• One outage was due to a cable failure.</li> <li>• One outage was due to a pothead failure.</li> </ul> <p>Previous Outages:</p> <ul style="list-style-type: none"> <li>• One outage was due to substation equipment failure.</li> <li>• One outage was due to a cable failure.</li> </ul> <p>Remedial Actions:</p> <ul style="list-style-type: none"> <li>• The Company will install an IntelliRupter by end of 2015 on the Woodville/South Hills side of the sub-transmission circuit feeding Connor Substation to provide Auto Fault-Clearing functionality. This will reduce Loss of Supply outages.</li> </ul>

Rank	Circuit	Name	Device	Service Center	Remedial Actions Planned or Taken
8	23711	Pine Creek	BREAKER	Edison	<p>Four total outages:</p> <p>Third Quarter 2015 Outages:</p> <ul style="list-style-type: none"> <li>• One outage was due to a storm.</li> </ul> <p>Previous Outages:</p> <ul style="list-style-type: none"> <li>• Three outages were due to tree fall-ins.</li> </ul> <p>Remedial Actions:</p> <ul style="list-style-type: none"> <li>• Circuit is included in 2015 Vegetation Management scheduled maintenance program and work will be complete by the end of the fourth quarter of 2015.</li> </ul>
9	4266	Grant	BREAKER	Preble	<p>Three total outages:</p> <p>Third Quarter 2015 Outages:</p> <ul style="list-style-type: none"> <li>• One outage was due to a tree fall-in.</li> </ul> <p>Previous Outages:</p> <ul style="list-style-type: none"> <li>• One outage was due to a cable failure.</li> <li>• One outage was due to a pothead failure.</li> </ul> <p>Remedial Actions:</p> <ul style="list-style-type: none"> <li>• Permanent repairs were made to the failed cable and the pothead was replaced and no further action is required at this time.</li> <li>• The Company will continue to monitor this circuit for reliability issues.</li> </ul>

Rank	Circuit	Name	Device	Service Center	Remedial Actions Planned or Taken
10	23870	Mt. Nebo	BREAKER & WA557	Raccoon	<p>Three total outages occurred on each device which affected different customers:</p> <p>Third Quarter 2015 Outages:</p> <ul style="list-style-type: none"> <li>• One outage to the breaker was caused by animal contact.</li> <li>• One outage to the breaker was caused by a connector failure.</li> </ul> <p>Previous Outages:</p> <ul style="list-style-type: none"> <li>• One outage was due to a storm which affected both devices.</li> <li>• One outage occurred on WA557 when conductors wrapped together on circuit temporarily tied to WA557.</li> <li>• One outage on WA557 was due to an unknown cause.</li> </ul> <p>Remedial Actions:</p> <ul style="list-style-type: none"> <li>• The Company's Asset Management Department is investigating conversion of this circuit to pulse-reclosing operation which will improve its protection and reduce future circuit damage during faults making restoration faster.</li> </ul>
11	4436	Lawrence	BREAKER	Penn Hills	<p>Three total outages:</p> <p>Third Quarter 2015 Outages:</p> <ul style="list-style-type: none"> <li>• Two outages were caused by cable failures.</li> </ul> <p>Previous Outages:</p> <ul style="list-style-type: none"> <li>• One outage was due to a vehicle accident.</li> </ul> <p>Remedial Actions:</p> <ul style="list-style-type: none"> <li>• Permanent cable repairs were made for the two cable failures. The Company will continue to monitor this circuit for reliability issues.</li> </ul>

Rank	Circuit	Name	Device	Service Center	Remedial Actions Planned or Taken
12	23820	Highland	BREAKER	Edison	<p>Three total outages:</p> <p>Third Quarter 2015 Outages:</p> <ul style="list-style-type: none"> <li>• One outage was caused by tree fall-ins.</li> <li>• One outage was caused when conductors wrapped together.</li> </ul> <p>Previous Outages:</p> <ul style="list-style-type: none"> <li>• One outage was due to a 25 KVA pole-mounted transformer failure.</li> </ul> <p>Remedial Actions:</p> <ul style="list-style-type: none"> <li>• Permanent repairs were made following each outage, but the Company will continue to monitor this circuit for reliability issues.</li> </ul>
13	23679	Woodville	R100	Preble	<p>Three total outages:</p> <p>Third Quarter 2015 Outages:</p> <ul style="list-style-type: none"> <li>• Two outages were due to tree fall-ins.</li> </ul> <p>Previous Outages:</p> <ul style="list-style-type: none"> <li>• One outage occurred when conductors wrapped together.</li> </ul> <p>Remedial Actions:</p> <ul style="list-style-type: none"> <li>• Permanent repairs were made following each outage.</li> <li>• Circuit is included in 2015-2016 Vegetation Management scheduled maintenance program and will be completed by end of second quarter 2016.</li> </ul>

Rank	Circuit	Name	Device	Service Center	Remedial Actions Planned or Taken
14	4627	Turtle Creek	LOSS OF SUPPLY	Penn Hills	<p>Three total outages:</p> <p>Third Quarter 2015 Outages:</p> <ul style="list-style-type: none"> <li>• Two outages were due to tree fall-ins.</li> </ul> <p>Previous Outages:</p> <ul style="list-style-type: none"> <li>• One outage was due to an unknown cause.</li> </ul> <p>Remedial Actions:</p> <ul style="list-style-type: none"> <li>• The Company will continue to monitor this circuit for reliability issues.</li> <li>• The Company's Asset Management Department is investigating the feasibility of adding Auto Fault-Clearing to the sub-transmission circuit feeding Turtle Creek substation to reduce Loss of Supply outages.</li> </ul>
15	23745	Oakland	EA200	Penn Hills	<p>Three total outages:</p> <p>Third Quarter 2015 Outages:</p> <ul style="list-style-type: none"> <li>• One outage was due to an unplanned operational outage.</li> </ul> <p>Previous Outages:</p> <ul style="list-style-type: none"> <li>• One outage was due to an insulator failure.</li> <li>• One outage was due to an unknown cause.</li> </ul> <p>Remedial Actions:</p> <ul style="list-style-type: none"> <li>• Permanent repairs were made following the insulator failures.</li> <li>• The Company's Asset Management Department is planning to convert this circuit to pulse-reclosing operation by the end of 2015 which will improve its protection and reduce future circuit damage during faults making restoration simpler and faster.</li> </ul>

Rank	Circuit	Name	Device	Service Center	Remedial Actions Planned or Taken
16	23734	Universal	EA3	Penn Hills	<p>Three total outages:</p> <p>Third Quarter 2015 Outages:</p> <ul style="list-style-type: none"> <li>• One outage was due to a tree fall-in.</li> </ul> <p>Previous Outages:</p> <ul style="list-style-type: none"> <li>• One outage was due to an unknown cause.</li> <li>• One outage was due to vehicle accident.</li> </ul> <p>Remedial Actions:</p> <ul style="list-style-type: none"> <li>• Tree fall in was reviewed and found to be a dead ash tree broken 6' from ground.</li> <li>• The Company's Asset Management Department is planning to convert this circuit to pulse-reclosing operation by the end of 2015 which will improve its protection and reduce future circuit damage during faults making restoration simpler and faster.</li> </ul>
17	23682	Woodville	BREAKER	Preble	<p>Three total outages:</p> <p>Third Quarter 2015 Outages:</p> <ul style="list-style-type: none"> <li>• One outage occurred when conductors wrapped together causing a fault.</li> </ul> <p>Previous Outages:</p> <ul style="list-style-type: none"> <li>• One outage was due to vehicle accident.</li> <li>• One outage was due to an unplanned operational outage.</li> </ul> <p>Remedial Actions:</p> <ul style="list-style-type: none"> <li>• Permanent repairs were made following the conductor wrapping outage.</li> <li>• The Company will continue to monitor this circuit for any reliability issues.</li> </ul>

Rank	Circuit	Name	Device	Service Center	Remedial Actions Planned or Taken
18	23695	Brunot Is.	ER301	Preble	<p>Three total outages:</p> <p>Third Quarter 2015 Outages:</p> <ul style="list-style-type: none"> <li>• One outage was due to a pothead failure.</li> </ul> <p>Previous Outages:</p> <ul style="list-style-type: none"> <li>• One outage was due to a crossarm failure.</li> <li>• One outage was due to a tree fall-in.</li> </ul> <p>Remedial Actions:</p> <ul style="list-style-type: none"> <li>• Permanent repairs were made following each outage.</li> <li>• Hazard tree mitigation will be complete by the end of the fourth quarter of 2015.</li> <li>• The Company will continue to monitor this circuit for any reliability issues.</li> </ul>
19	23684	Woodville	ER806	Preble	<p>Three total outages:</p> <p>Third Quarter 2015 Outages:</p> <ul style="list-style-type: none"> <li>• No new outages.</li> </ul> <p>Previous Outages:</p> <ul style="list-style-type: none"> <li>• Two outages were due to tree fall-in.</li> <li>• One outage was due to an insulator failure.</li> </ul> <p>Remedial Actions:</p> <ul style="list-style-type: none"> <li>• Permanent repairs were made following each outage.</li> <li>• The Company will continue to monitor this circuit for reliability issues.</li> </ul>

Rank	Circuit	Name	Device	Service Center	Remedial Actions Planned or Taken
20	4420	Mt. Pleasant	BREAKER	Preble	<p>Three total outages:</p> <p>Third Quarter 2015 Outages:</p> <ul style="list-style-type: none"> <li>No new outages.</li> </ul> <p>Previous Outages:</p> <ul style="list-style-type: none"> <li>One outage was due to a tree fall-in.</li> <li>Two outages were due to storms.</li> </ul> <p>Remedial Actions:</p> <ul style="list-style-type: none"> <li>Permanent repairs were made following each outage.</li> <li>The Company will continue to monitor this circuit for reliability issues.</li> </ul>
21	23770	Traverse Run	WR505	Raccoon	<p>Three total outages:</p> <p>Third Quarter 2015 Outages:</p> <ul style="list-style-type: none"> <li>No new outages.</li> </ul> <p>Previous Outages:</p> <ul style="list-style-type: none"> <li>Two outages were due to insulator failure.</li> <li>One outage was due to a transformer failure and an insulator failure.</li> </ul> <p>Remedial Actions:</p> <ul style="list-style-type: none"> <li>Permanent repairs were made following each outage.</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.**

October 1, 2014 through September 30, 2015 – No PUC Major Event Exclusions

CAUSE	NO. OF OUTAGES	OUTAGE PERCENTAGE	KVA TOTAL	KVA PERCENTAGE	KVA-MINUTE TOTAL	KVA-MINUTE PERCENTAGE
Storms	341	12%	731,802	14%	103,584,628	18%
Trees (Contact)	59	2%	88,265	2%	7,473,805	1%
Trees (Falling)	717	25%	1,106,072	21%	183,341,938	33%
Equipment Failures	852	29%	1,770,170	33%	161,755,119	29%
Overloads	141	5%	212,877	4%	11,541,008	2%
Vehicles	143	5%	271,327	5%	32,589,749	6%
Other	652	22%	1,111,929	21%	64,546,478	11%
<b>TOTALS</b>	<b>2,905</b>	<b>100%</b>	<b>5,292,442</b>	<b>100%</b>	<b>564,832,725</b>	<b>100%</b>

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

2015 Transmission and Distribution Goals and Objectives						
Program Project	Unit of Measurement	Target for 2015 3Q	Actual for 2015 3Q	Percent Complete	Targets for Year 2015	Actual YTD for 2015
<b>Communications Goals</b>						
Communication Battery Maintenance	Batteries	24	24	100%	96	72
<b>Overhead Distribution Goals</b>						
Recloser Inspections	Circuits	33	64	194%	130	124
Pole Inspections	Poles	6,735	8087	120%	17,945	13,867
OH Line Inspections	Circuits	33	64	194%	130	124
OH Transformer Inspections	Circuits	33	64	194%	130	124
Padmount & Below Grade Inspections	Circuits	21	0	0%	81	56
<b>Overhead Transmission Goals</b>						
Helicopter Inspections	Number of Structures	500	500	100%	500	500
Ground Inspections	Number of Structures	0	0	N/A	350	358
<b>Substations Goals</b>						
Circuit Breaker Maintenance	Breakers	190	309	163%	725	641
Station Transformer Maintenance	Transformers	10	44	440%	67	70
Station Battery Maintenance	Batteries	242	241	100%	968	727
Station Relay Maintenance	Relays	180	212	118%	615	464
Station Inspections	Sites	516	512	99%	2,067	1,546
<b>Underground Distribution Goals</b>						
Manhole Inspections	Manholes	50	165	330%	700	515
Major Network Insp (Protection Relay)	Network Protectors	24	16	67%	92	52
Minor Network Visual Inspection (Transformer/Protector/Vault)	Network Transformers	165	97	59%	573	515
<b>Underground Transmission Goals</b>						
Pressurization and Cathodic Protection Plant Inspection	Work Packages	13	12	92%	52	38
<b>Vegetation Management Goals</b>						
Overhead Line Clearance	Circuit Overhead Miles	280	214	76%	1,300	1,031
<b>Total Units</b>		<b>9,049</b>	<b>10,625</b>	<b>117%</b>	<b>26,521</b>	<b>20,824</b>

**(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.**

**For the Three Months Ended September 30, 2015 (Quarter-to-date)  
Favorable/ (Unfavorable)**

	Customer Care	External Affairs	Human Resources	Operations/ Operations Services	Technology	General Corporate*	Total
Total Actual	17,366,068	597,665	3,534,648	15,844,633	11,246,390	11,762,337	60,351,742
Total Budget	14,879,931	971,231	3,906,810	17,726,640	11,219,829	11,491,100	60,195,541
Variance	(2,486,137)	373,566	372,161	1,882,007	(26,561)	(271,237)	(156,201)

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

**For the Nine Months Ended September 30, 2015 (Year-to-date)  
Favorable/ (Unfavorable)**

	Customer Care	External Affairs	Human Resources	Operations/ Operations Services	Technology	General Corporate*	Total
Total Actual	43,278,176	2,454,232	10,588,998	50,016,279	41,103,184	36,610,605	184,051,475
Total Budget	40,761,052	2,986,743	11,361,749	52,909,243	33,789,877	34,310,400	176,119,063
Variance	(2,517,124)	532,510	772,751	2,892,964	(7,313,308)	(2,300,205)	(7,932,412)

\*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.**

**For the Three Months Ended September 30, 2015 (Quarter-to-date)  
Favorable/ (Unfavorable)**

	Customer Care	External Affairs	Human Resources	Operations/ Operations Services	Technology	General Corporate*	Total
Total Actual	760,556	1,653	2,570,657	38,049,019	25,927,320	9,326,044	76,635,249
Total Budget	899,050	0	3,400,439	59,536,592	17,202,368	8,117,924	89,156,373
Variance	138,494	(1,653)	829,782	21,487,573	(8,724,952)	(1,208,120)	12,521,124

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

**For the Nine Months Ended September 30, 2015 (Year-to-date)  
Favorable/ (Unfavorable)**

	Customer Care	External Affairs	Human Resources	Operations/ Operations Services	Technology	General Corporate*	Total
Total Actual	2,232,836	4,386	7,345,940	88,512,625	61,330,564	24,109,647	183,535,998
Total Budget	2,797,771	0	9,250,928	131,604,575	51,607,106	23,343,381	218,603,761
Variance	564,935	(4,386)	1,904,988	43,091,950	(9,723,458)	(766,266)	35,067,763

*\*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>Telecom</b>	Electronic Technician	6
	Sr. Electronic Tech	10
	<i>Apprentice Splicer/Trouble Tec</i>	3
	Telecom Splicer/Trouble	3
	<b>Total</b>	<b>22</b>
<b>Substation</b>	Electrical Equipment Tech	13
	Protection & Control Tech	24
	Sr. Elec. Equipment Tech	10
	Rigger Specialist	2
	Rigger Crew Leader	2
	Shop Mechanic 2 Rigger	0
	Yard Group Leader	3
<b>Total</b>	<b>54</b>	
<b>Underground</b>	Apprentice UG Splicer	12
	UG Inspector	10
	Journey UG Splicer	18
	Sr. UG Splicer	6
	UG Cable Tester/Installer	1
	Sr. UG Mechanic	0
	Network Operator	11
<b>Total</b>	<b>58</b>	
<b>Overhead</b>	Apprentice T&D	64
	Equipment Attendant	1
	Equipment Material Handler	5
	Field Inspector	0
	Journey Lineworker	83
	Restricted HS Lineworker	6
	Service Crew Leader	5
	Sr. Lineworker	47
	Distribution Tech	7
	<b>Total</b>	<b>218</b>
<b>Street Light Changers</b>	<b>Total</b>	<b>6</b>
<b>Mobile Worker</b>	<b>Total</b>	<b>3</b>

(e)(9) (Continued)

<b>Engineering</b>	Drafter	0
	General Clerk - Grad	7
	General Technician	0
	GIS Technician	6
	Head File Record Clerk	1
	Permit Clerk	1
	Survey Instrument	3
	Right of Way Agent A	4
	Sr. Technician	10
	T&D Mobile Worker	8
	Technician A	3
	Technician B	4
	Technician C	6
	Design Tech	1
	Test Technician, Mobile	3
<b>Total</b>	<b>60</b>	
<b>Service Center Technician</b>	Sr. Technician	8
	Technician	1
	<b>Total</b>	<b>9</b>
<b>Traveling Operator/Troubleshooter</b>	Senior Operator	26
	Traveling Operator	3
	Troubleshooter 1/C	6
	Troubleshooter	12
<b>Total</b>	<b>47</b>	
<b>Load Dispatcher</b>	<b>Total</b>	<b>12</b>
<b>Meter Technician</b>	Meter Technician	8
	Sr. Meter Technician	20
	<b>Total</b>	<b>28</b>
<b>Meter Reader</b>	<b>Total</b>	<b>14</b>
<b>Customer Service Representatives</b>	Autodialing Operator	8
	Autodialing Operator PT	2
	Customer Service Rep	105
	Customer Service Rep PT	10
	Word Processing Clerk	1
	Sr. Customer Service	5
<b>Total</b>	<b>131</b>	
<b>Admin/Supervisory/Mgmt</b>	<b>Total</b>	<b>397</b>
<b>TOTAL</b>	<b>TOTAL</b>	<b>1,059</b>

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

(Confidential information has been redacted.)

**Third Quarter 2015**

Contractor Dollars:

Contractor Hours:

**YTD 2015**

Contractor Dollars:

Contractor Hours:

- (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.

**Call-Out Acceptance Rate –3rd Quarter 2015**

Month	Accepts	Refusals	Total	Percentage
July	367	534	901	41%
August	198	268	466	42%
September	185	282	467	40%

**Amount of Time it Takes to Obtain the Necessary Personnel – 3rd Quarter 2015**

Month	Total Callout Events	Necessary Personnel Accepting	Average Minutes: Seconds per Callout Event	Average Minutes: Seconds per Individual called
July	112	366	5:58	1:19
August	60	202	4:05	1:16
September	64	187	5:59	1:18
3Q 2015	236	755	5:29	1:18
2015 YTD	798	2,444	4:41	1:18

**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.**

Circuit	Name	Service Center	Device	Lockouts	Connected KVA	Last Outage	Total KVA-Minutes	Total KVA Interrupted	SAIDI	SAIFI	CAIDI
4478	Hiawatha	Preble	LOSS OF SUPPLY	5	5,684	09/29/15	1,898,456	28,420	334	5.00	67
23710	Pine Creek	Edison	WA913	5	32,810	09/19/15	6,948,526	40,790	212	1.24	170
4676	Brierly	McKeesport	LOSS OF SUPPLY	5	3,667	07/14/15	1,318,669	18,410	360	5.02	72
23871	Mt Nebo	Raccoon	WA853	5	17,687	09/29/15	6,584,618	74,847	372	4.23	88
23882	Rankin	Penn Hills	EA52	4	16,932	09/29/15	6,978,106	47,561	412	2.81	147
23640	Midland	Raccoon	R100	4	27,835	09/20/15	3,220,378	37,783	116	1.36	85
4548/4549	Connor	Preble	LOSS OF SUPPLY	4	2,437	09/16/15	1,297,972	23,336	533	9.58	56
23711	Pine Creek	Edison	BREAKER	4	34,935	08/03/15	5,003,895	45,044	143	1.29	111
4266	Grant	Preble	BREAKER	3	5,113	09/29/15	5,109,842	15,464	999	3.02	330
23870	Mt. Nebo	Raccoon	BREAKER, WA557	3, 3	26,795	09/24/15	8,734,569	57,217	326	2.14	153
4436	Lawrence	Penn Hills	BREAKER	3	4,340	09/15/15	922,076	13,157	212	3.03	70
23820	Highland	Edison	BREAKER	3	32,049	09/11/15	6,563,801	89,067	205	2.78	74
23679	Woodville	Preble	R100	3	16,057	08/30/15	6,040,553	24,113	376	1.50	251
4627	Turtle Creek	Penn Hills	LOSS OF SUPPLY	3	5,986	07/23/15	810,737	23,981	135	4.01	34
23745	Oakland	Penn Hills	EA200	3	28,489	07/15/15	5,188,007	50,410	182	1.77	103
23734	Universal	Penn Hills	EA3	3	20,093	07/09/15	1,343,018	32,190	67	1.60	42
23682	Woodville	Preble	BREAKER	3	29,007	07/06/15	2,285,173	56,796	79	1.96	40
23695	Brunot Is.	Preble	ER301	3	23,890	06/27/15	4,039,048	40,079	169	1.68	101
23684	Woodville	Preble	ER806	3	24,417	06/16/15	1,604,512	17,459	66	0.72	92
4420	Mt. Pleasant	Preble	BREAKER	3	2,261	05/01/15	1,639,802	10,542	725	4.66	156
23770	Traverse Run	Raccoon	WR505	3	19,469	04/20/15	3,459,992	30,674	178	1.58	113

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1. **Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.
2. **Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.
3. **GETTING YOUR SHIPMENT TO UPS Customers with a Daily Pickup**  
Your driver will pickup your shipment(s) as usual.

**Customers without a Daily Pickup**

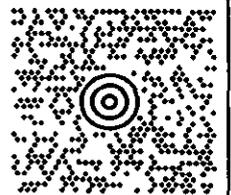
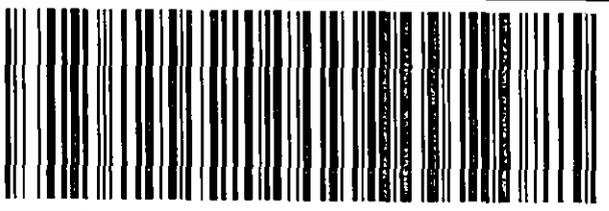
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	<b>PA 171 9-20</b> 		
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