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Shelby A. Linton-Keddie
Manager, State Regulatory Strategy and Senior Legal Counsel
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DLC
—DUQUESNE LIGHT CO.—

M-2016-2522808

January 31, 2018

Via Certified Mail
7016 0600 0000 8676 2018

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

Re: **Duquesne Light Company**
Quarterly Electric Reliability Report –4th Quarter 2017

Dear Secretary Chiavetta:

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

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

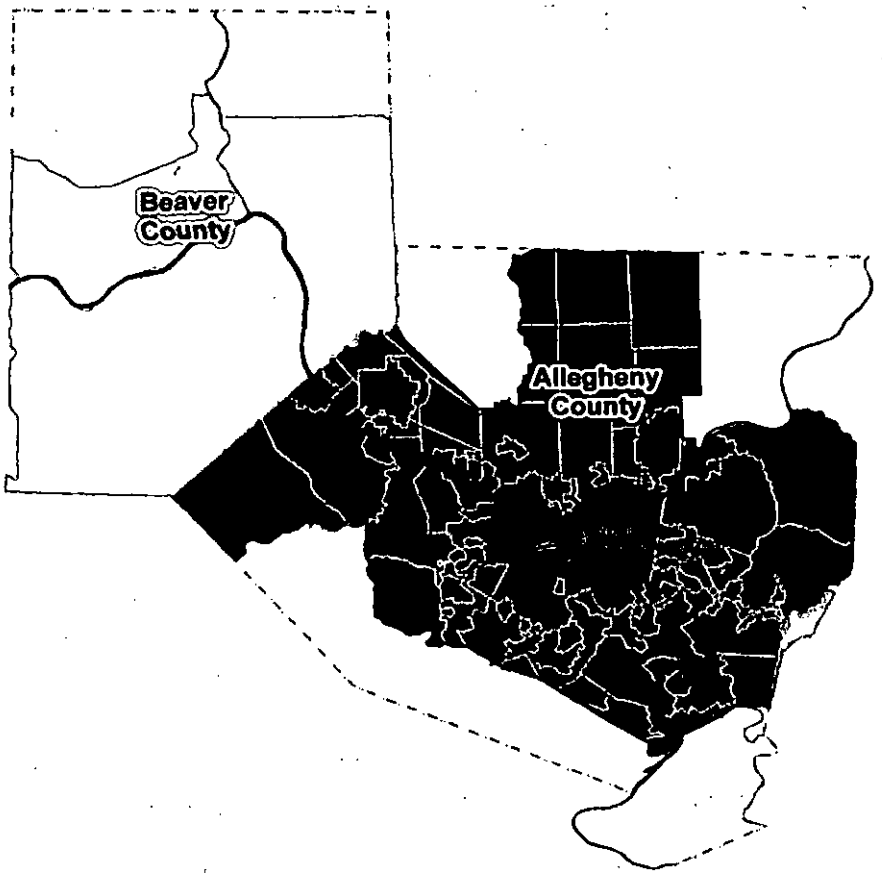
If you have any questions regarding the information contained in this filing, please contact the undersigned or Audrey Waldock at 412-393-6334 or awaldock@duqlight.com.

Sincerely,

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

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

DUQUESNE LIGHT CO.



Duquesne Light Company Third Quarter 2017 Electric Reliability Report to the Pennsylvania Public Utility Commission

RECEIVED
JAN 31 2018
PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

October 30, 2017

57.195 Reporting Requirements

(e)(1) *A description of each major event that occurred during the preceding quarter, including the time and duration of the event, the number of customers affected, the cause of the event and any modified procedures adopted in order to avoid or minimize the impact of similar events in the future.*

No major events occurred during the third quarter of 2017.

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

Reliability Benchmarks and Standards
System Performance Measures with Major Events Excluded

	SAIDI	SAIFI	CAIDI	MAIFI[1]
Benchmark	126	1.17	108	
12 Month Standard	182	1.40	130	
2017 3Q (Rolling 12 mo.)	111	0.96	116	

Formulas used in calculating the indices:

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

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

CAIDI = SAIDI/SAIFI

Data used in calculating the indices

Total KVA Interrupted for the Period	6,957,233 KVA
Total KVA-Minutes Interrupted:	804,225,034 KVA-Minutes
System Connected Load as of 9/30/17:	7,259,129 KVA

[1] Sufficient information to calculate MAIFI is unavailable.

(e)(3) *Rolling 12-month reliability index values (SAIFI, CAIDI, SAIDI, and if available, MAIFI) and other pertinent information such as customers served, number of interruptions, customer minutes interrupted, number of lockouts, and so forth, for the worst performing 5% of the circuits in the system. An explanation of how the electric distribution company defines its worst performing circuits shall be included.*

Circuits are evaluated based on a rolling twelve-month count of lockouts of protective devices (circuit breakers, reclosers, sectionalizers and line fuses) and on total accumulated KVA-Minutes of customer outage time. Circuits that experience multiple lockouts for a device in combination with high total accumulated KVA-Minutes of customer outage time in each quarterly rolling twelve-month period are identified and the top 5% are reported as Worst-Performing Circuits.

The list of Worst-Performing Circuits is ranked first by the number of device lockouts from highest to lowest and then by the number of KVA-Minutes of outage experienced by customers on these circuits (highest to lowest). This places a higher priority on circuits with repeat outages affecting customers (SAIFI) while also focusing on outage duration for customers on these circuits (SAIFI and SAIDI). Prior Worst Performing Circuits that have not seen recent outages fall to a lower priority within the group, but can remain on the list for monitoring until other circuits replace them.

While repairs are made as quickly as possible following every customer outage, circuits that appear on the worst performing circuits list are targeted for more extensive remediation based on a detailed review of historical outage records looking at root cause problems, field evaluations and engineering analysis. Project scopes developed as a result of this analysis are incorporated into the Company's Work Plan for engineering, design and construction. Since the focus is on reducing future customer outage duration and not just outage frequency, special attention is given to establishing/optimizing sectionalizing switch locations and alternate feeds to problem-prone areas of circuits and where possible replacing or eliminating equipment that has historically required lengthy repair times as well as a high failure rates.

At the end of each quarter all previously identified circuits are reviewed to verify that past remediation efforts are working and to look for new reliability issues that may be developing. Serious new reliability problems are addressed immediately without waiting additional periods to collect information. This analysis method provides for timely review of circuit performance by in-house staff and it adapts to the dynamic nature of Duquesne's distribution system.

Special Note: *Because of sophisticated protection and remote automation technologies that the Company uses on its distribution circuits, not all customers on a circuit identified as a worst performing circuit actually experience significant reliability issues. Circuit problems are generally isolated to one load block of a circuit in less than five minutes with downstream customers only experiencing short momentary operations. Customers upstream of a circuit problem may not even experience a momentary outage. Therefore, many customers on a circuit identified as a poor performer have actually had good reliability.*

See Attachment A for a list of worst-performing circuits showing feeder device lockouts and reliability index values associated with each circuit.

(e)(4) Specific remedial efforts taken and planned for the worst performing 5% of the circuits as identified in paragraph (3).

Third Quarter 2017 Rolling 12 Month Circuit Data

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
1 Midland-Cooks Ferry 22869 FUSE-65K	Seven Total Outages: Third Quarter 2017 Outages: • No outages. Previous Outages: • One outage was due to cutout failure. • One outage was due to equipment failure. • The cause of five outages were unknown.	• Permanent repairs were made following each outage as necessary. • Routine vegetation maintenance was last performed in 2012 and is scheduled for 2017. • The Company will continue to monitor this circuit for reliability issues.
2 Traverse Run 23770 RECLOSER 100	Six Total Outages: Third Quarter 2017 Outages: • One outage was due to tree fall-in. Previous Outages: • Three outages were due to tree fall-in, one during a storm. • One outage was due to equipment failure during a storm. • The cause of one outage was unknown during a storm. •	• Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Vegetation Management to address identified reliability concerns Q4 2017.
3 Pine Creek 23710 FUSE 80E	Six Total Outages: Third Quarter 2017 Outages: • One outage was due to a tree fall-in. Previous Outages: • The cause of one outage was unknown. • One outage was due to icing. • Three outages were due to a tree fall-in.	• Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Routine Vegetation Management was last performed in 2012 and is scheduled for 2018.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
4 Wilmerding 23763 BREAKER	Five Total Outages: Third Quarter 2017 Outages: • Two outages were caused by equipment failure. Previous Outages: • Three outages were caused by equipment failure.	• Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues.
5 Sewickley 23631 WR723	Five Total Outages: Third Quarter 2017 Outages: • No outages. Previous Outages: • On outage was due to equipment failure. • Two outages were caused by a tree fall-in. • The cause of one outage was unknown during a storm. • One outage was due to a fire.	• Permanent repairs were made following each outage as necessary. • The Company's Asset Management Department recently performed 3 recloser upgrades, which will improve its protection and reduce future circuit damage during faults making restoration simpler and faster. • Routine Vegetation Management to be completed in 2017.
6 Findlay 23610 BREAKER	Four Total Outages: Third Quarter Outages: • One outage was due to load tie over during storm. • One outage was due to equipment failure. • One outage was due to lightning. Previous Outages: • One outage was due to a tree fall-in during a storm.	• 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
7 Mt. Nebo 23870 RECLOSER 600	Four Total Outages: Third Quarter 2017 Outages: • One outage was due to a tree fall-in during a storm. Previous Outages: • Two outages were due to a tree fall-in. • The cause of one outage was unknown.	• Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • The Company's Asset Management Department recently performed three recloser upgrades which will improve its protection and reduce future circuit damage during faults making restoration simpler and faster. • Routine Vegetation Management to be completed in 2017.
8 Chess 23688 EA306	Four Total Outages: Third Quarter 2017 Outages: • One outage was due to a tree fall-in. • One outage was due to a vehicle accident. Previous Outages: • One outage was due to a tree fall-in. • One outage was due to a vehicle accident.	• Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues.
9 Wilmerding 23762 EA567	Four Total Outages: Third Quarter 2017 Outages: • The cause of one outage was unknown during a storm. Previous Outages: • One outage was due to equipment failure during a storm. • One outage was due to a tree fall-in during a storm. • One outage was due to a fire/explosion.	• 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
10 Logans Ferry 23921 FUSE 100K	Four Total Outages: Third Quarter 2017 Outages: • No outages. Previous Quarters: • The cause of one outage was unknown. • • Three outages were due to equipment failure, two during a storm.	• Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues.
11 Dravosburg 23750 ER14	Four Total Outages: Third Quarter 2017 Outages: • No outages. Previous Outages: • One outage was due to a vehicle accident. • Two outages were caused by equipment failure. • The cause of one outage was unknown during a storm.	• Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues.
12 Montour 23670 WA527	Four Total Outages: Third Quarter 2017 Outages: • The cause of one outage was unknown during a storm. Previous Outages: • One outage was due to equipment failure. • One outage was due to a tree fall-in. • One outage was due to a vehicle accident.	• 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
13 Pine Creek 23712 FUSE 80E	Three Total Outages: Third Quarter 2017 Outages: • The cause of two outages were unknown, one during a storm. Previous Outages: • One outage was due to a tree fall-in.	• Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues.
14 Wilson 23860 FUSE 40K	Three Total Outages: Third Quarter 2017 Outages: • The cause of two outages were unknown. • One outage was due to equipment failure. Previous Outages: • No previous outages.	• Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues.
15 Pine Creek 23714 FUSE 80E	Three Total Outages: Third Quarter 2017 Outages: • Two outages were due to a tree fall-ins, one during a storm. Previous Outages: • One outage was due to a tree fall-in.	• The Company's Asset Management Department is planning to perform a recloser upgrade. • Routine Vegetation Management was last performed in 2013 and is proposed for 2018.
16 Wildwood 23869 FUSE 40K	Three Total Outages: Third Quarter 2017 Outages: • One outage was due to a tree fall-in. Previous Outages: • The cause of one outage was unknown. • One outage was due to a tree fall-in.	• Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues • Routine vegetation maintenance was last performed in 2016 and is proposed for 2020.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
17 Wilmerding 23761 BREAKER	Three Total Outages: Third Quarter 2017 Outages: • No outages. Previous Outages: • Three outages were due to a tree fall-ins, one during a storm.	• Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Routine Vegetation Management to be completed in 2017.
18 Brentwood 23810 FUSE 100K	Three Total Outages: Third Quarter 2017 Outages: • No outages. Previous Outages: • The cause of two outages were unknown. • One outage was due to equipment failure.	• Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues.
19 California 23837 FUSE 80E	Three Total Outages: Third Quarter 2017 Outages: • No outages. Previous Outages: • Two outages were due to a tree fall-in. • The cause of one outage was unknown.	• Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Routine Vegetation Management complete Q3 2017.
20 Crescent 23660 FUSE 65K	Three Total Outages: Third Quarter 2017 Outages: • No outages. Previous Outages: • Two outages were due to equipment failure during a storm. • One outage was due to a tree fall-in during a storm.	• 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
21 Brunot Is. 23572 BREAKER	Three Total Outages: Third Quarter 2017 Outages: • No outages. Previous Outages: • Two outages were due to equipment failure. • One outage was due to a vehicle accident.	• Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues
22 Pine Creek – West Deer 22540 BREAKER	Two Total Outages: Third Quarter 2017 Outages: • No outages. Previous Outages: • One outage was due to a tree fall-in. • The cause of one outage was unknown during a storm.	• Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues.
23 Mt. Nebo 23871 WA852	Two Total Outages: Third Quarter 2017 Outages: • One outage was due to a tree fall-in. Previous Outages: • One outage was due to a tree fall-in during a storm.	• Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues
24 Valley 23781 FUSE 100K	Two Total Outages: Third Quarter 2017 Outages: • No outages. Previous Outages: • Two outages were due to a tree fall-ins.	• Permanent repairs were made following each outage as necessary. • Vegetation Management is proposed for 2018.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
25 Bryn Mawr 23769 FUSE 80E	One Total Outage: Third Quarter 2017 Outages: • One outage was due to a tree fall-in. Previous Outages: • No outages.	• Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues
26 Wilmerding 23764 RECLOSER 100	One Total Outages: Third Quarter 2017 Outages: • One outage was due to a downed wire during a storm. Previous Outages: • No outages.	• Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues
27 Evergreen 23954 FUSE 80E	One Total Outage: Third Quarter 2017 Outages: • One outage was due to a tree fall-in. Previous Outages: • No outages.	• 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.

October 1, 2016 through September 30, 2017– No PUC Major Event Exclusions

CAUSE	NO. OF OUTAGES	OUTAGE PERCENTAGE	KVA TOTAL	KVA PERCENTAGE	KVA-MINUTE TOTAL	KVA-MINUTE PERCENTAGE
Storms	978	30%	2,203,573	32%	362,804,841	45%
Trees (Contact)	26	1%	3,968	1%	534,594	1%
Trees (Falling)	820	25%	1,471,642	21%	157,312,516	20%
Equipment Failures	658	20%	1,808,938	26%	158,912,613	20%
Overloads	31	1%	69,789	1%	5,406,160	1%
Vehicles	162	5%	477,786	7%	55,069,542	7%
Other	608	18%	921,537	12%	64,184,768	6%
TOTALS	3,283	100%	6,957,233	100%	804,225,034	100%

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

2017 Transmission and Distribution Goals and Objectives							
Program Project	**Unit of Measurement**	**Target for 2017 3Q**	**Actual for 2017 3Q**	**3Q Percent Complete**	**Targets for Year 2017**	**Actual YTD for 2017**	**Year End % Complete**
Communications Goals							
Communication Battery Maintenance	Batteries	25	25	100%	100	76	76%
Overhead Distribution Goals							
Recloser Inspections	Circuits	34	26	76%	130	112	86%
Pole Inspections	Poles	6,735	7,437	110%	17,945	7,527	42%
OH Line Inspections	Circuits	34	26	76%	130	112	86%
OH Transformer Inspections	Circuits	34	26	76%	130	112	86%
Padmount & Below Grade Insp	Circuits	21	0	0%	81	81	100%
Overhead Transmission Goals							
Helicopter Inspections	Number of Structures	0	0	NA	625	693	111%
Ground Inspections	Number of Structures	130	0	0%	336	0	0%
Substations Goals							
Circuit Breaker Maintenance	Breakers	135	139	103%	501	519	104%
Station Transformer Maintenance	Transformers	18	36	200%	78	76	97%
Station Battery Maintenance	Batteries	234	243	104%	936	732	78%
Station Relay Maintenance	Relays	420	452	108%	1,580	1,453	92%
Station Inspections	Sites	510	513	101%	2,040	1,537	75%
Underground Distribution Goals							
Manhole Inspections	Manholes	100	81	81%	700	579	83%
Major Network Insp (Prot Relay)	Ntwk Protectors	27	33	122%	92	65	71%
Minor Network Visual Inspection (Transformer/Protector/Vault)	Ntwk Transformers	20	149	745%	562	485	86%
Underground Transmission Goals							
Pressurization and Cathodic Protection Plant Inspection	Work Orders	93	132	142%	371	292	79%
Vegetation Management Goals							
Overhead Line Clearance	Circuit Overhead Miles	280	211	75%	1,300	1,067	82%
	Total Units	**8,850**	**9,529**	**108%**	**27,637**	**15,518**	**56%**

(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 September 30, 2017
Favorable/(Unfavorable)

	Total Actual	Total Budget	Variance
Customer Service	18,534,778	15,931,911	(2,602,867)
Human Resources	4,005,108	3,837,769	(167,339)
Operations/Operation Services	15,429,577	15,668,351	238,774
Technology	12,628,816	12,163,123	(465,694)
General Corporate*	13,079,342	13,023,078	(56,264)
Total	63,677,621	60,624,231	(3,053,390)

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

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

	Total Actual	Total Budget	Variance
Customer Service	38,979,913	43,030,430	4,050,518
Human Resources	10,583,001	11,951,500	1,368,498
Operations/Operation Services	45,434,520	49,191,051	3,756,531
Technology	37,536,246	36,453,658	(1,082,588)
General Corporate*	38,890,604	40,906,789	2,016,185
Total	171,424,284	181,533,429	10,109,145

*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 September 30, 2017
Favorable/(Unfavorable)

	Total Actual	Total Budget	Variance
Customer Service	2,421,872	2,049,572	(372,300)
Human Resources	2,624,513	2,627,086	2,573
Operations/Operation Services	37,868,917	37,897,953	29,036
Technology	17,194,817	20,857,796	3,662,979
General Corporate*	8,875,008	5,506,354	(3,368,654)
Total	68,985,127	68,938,761	(46,366)

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

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

	Total Actual	Total Budget	Variance
Customer Service	6,104,751	6,144,428	39,677
Human Resources	7,859,833	7,130,196	(729,637)
Operations/Operation Services	111,799,545	115,749,974	3,950,429
Technology	53,304,227	62,573,388	9,269,161
General Corporate*	27,078,800	16,791,418	(10,287,382)
Total	206,147,156	208,389,404	2,242,248

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

(e)(9) *Dedicated staffing levels for transmission and distribution operation and maintenance at the end of the quarter, in total and by specific category (e.g. linemen, technician, and electrician).*

Job Title	Number of Employees
Telecom Splicer/Trouble Tech	5
Electronic Technician	15
Telecom Technician	4
Total Telecom	**24**
Electrical Equipment Technician	34
Protection & Control Technician	25
Yard Group Leader	3
Rigger	6
Laborer	3
Total Substation	**71**
UG Splicer	40
UG Cable Inspector	9
Cable Tester	1
Network Operator	12
Equipment Material Handler	1
Total Underground	**63**
Apprentice T&D	73
Equipment Attendant	0
Lineworker	132
Service Crew Leader	3
Equipment Material Handler	3
Total Overhead	**211**
Total Street Light Changer	**6**
Engineering Technician	38
GIS Technician	5
Right of Way Agent	3
Surveyor	4
T&D Mobile Worker	4
Test Technician, Mobile	6
Total Engineering	**60**
Senior Operator	23
Traveling Operator	3
Troubleshooter	15
Total Traveling Operator/Troubleshooter	**41**
Total Switching Dispatcher	**14**
Total Employees	**490**

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

CONFIDENTIAL INFORMATION

3rd Quarter 2017

Contractor Dollars: **$REDACTED**
Contractor Hours: **REDACTED**

YTD 2017

Contractor Dollars: **$ REDACTED**
Contractor Hours: **REDACTED**

(e)(11) *Monthly call-out acceptance rate for transmission and distribution maintenance workers presented in terms of both the percentage of accepted call-outs and the amount of time it takes the EDC to obtain the necessary personnel. A brief description of the EDC's call-out procedure should be included when appropriate.*

CONFIDENTIAL INFORMATION

Call-Out Acceptance Rate – 3rd Quarter 2017

REDACTED

Amount of Time it Takes to Obtain the Necessary Personnel – 3rd Quarter 2017

REDACTED

(d)(2) *The name, title, telephone number and e-mail address of the persons who have knowledge of the matters, and can respond to inquiries.*

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

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

ATTACHMENT A

(e)(3) Rolling 12-month reliability index values (SAIFI, CAIDI, SAIDI, and if available, MAIFI) and other pertinent information such as customers served, number of interruptions, customer minutes interrupted, number of lockouts, and so forth, for the worst performing 5% of the circuits in the system.

Rank	Circuit No	Circuit Name	Feeder Device	Device Lockouts	Last Lockout	Circuit KVA	Total KVA Interrupted	Total KVA-Minutes	SAIDI	SAIFI	CAIDI
1	22869	Midland-Cooks Ferry	65K	7	11/11/2016	37666	16739474	115452	444.419	3.0652	144.991
2	23770	Traverse Run	R100	6	7/10/2017	19469	14707745	103031	755.444	5.2921	142.751
3	23710	Pine Creek	80E	6	7/6/2017	32810	8739487	80739	266.367	2.4608	108.244
4	23763	Wilmerding	BKR	5	8/19/2017	22292	8741682	113975	392.144	5.1128	76.6982
5	23631	Sewickley	WR723	5	5/31/2017	31956	10797555	84292	337.888	2.6378	128.097
6	23610	Findlay	BKR	4	8/23/2017	36227	28114160	116006	776.055	3.2022	242.351
7	23870	Mt. Nebo	R600	4	8/19/2017	26795	13459091	74459	502.299	2.7788	180.758
8	23688	Chess	EA306	4	8/6/2017	26214	8924422	88461	340.445	3.3746	100.885
9	23762	Wilmerding	EA567	4	7/10/2017	17148	8115701	43004	473.274	2.5078	188.72
10	23921	Logans Ferry	100K	4	6/15/2017	32875	11584246	80339	352.373	2.4438	144.192
11	23750	Dravosburg	ER14	4	6/13/2017	35960	18119591	113536	503.882	3.1573	159.593
12	23670	Montour	WA527	4	7/11/2017	34778	8507476	78949	244.622	2.2701	107.759
13	23712	Pine Creek	80E	3	9/9/2017	19499	7920204	49452	406.185	2.5361	160.159
14	23860	Wilson	40K	3	8/7/2017	26570	8799882	95756	331.196	3.6039	91.899
15	23714	Pine Creek	80E	3	8/4/2017	22575	21009076	131790	930.635	5.8379	159.413
16	23869	Wildwood	40K	3	7/10/2017	18745	12159861	55723	648.699	2.9727	218.22
17	23761	Wilmerding	BKR	3	6/6/2017	30456	8168544	23293	268.208	0.7648	350.687
18	23810	Brentwood	100K	3	6/3/2017	18622	17808504	143515	956.315	7.7067	124.088
19	23837	California	80E	3	5/27/2017	18878	10063832	163452	533.098	8.6583	61.5706
20	23660	Crescent	65K	3	5/1/2017	31128	8795304	46078	282.553	1.4803	190.879
21	23572	Brunot Is.	BKR	3	4/13/2017	20637	7957296	75219	385.584	3.6449	105.788
22	22540	Pine Creek-West Deer	BKR	2	6/15/2017	2000	8733144	12456	4366.57	6.228	701.119
23	23871	Mt Nebo	WA852	2	7/6/2017	17687	9358705	72040	529.129	4.073	129.91
24	23781	Valley	100K	2	6/23/2017	18340	11967760	42571	652.55	2.3212	281.125
25	23769	Bryn Mawr	80E	1	9/23/2017	19880	7773211	31914	391.007	1.6053	243.567
26	23764	Wilmerding	R100	1	8/22/2017	25634	7810172	19107	304.68	0.7454	408.76
27	23954	Evergreen	80E	1	8/6/2017	22613	10663637	54525	471.571	2.4112	195.573

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