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DUQUESNE LIGHT CO.

M-2016-2522508

April 30, 2019

VIA CERTIFIED MAIL

RECEIVED
APR 30 2019
PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

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

Re: Duquesne Light Company
Quarterly Electric Reliability Report –1st Quarter 2019

Dear Secretary Chiavetta:

Enclosed please find Duquesne Light Company's Quarterly Electric Reliability Report for the first quarter of 2019.

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 me.

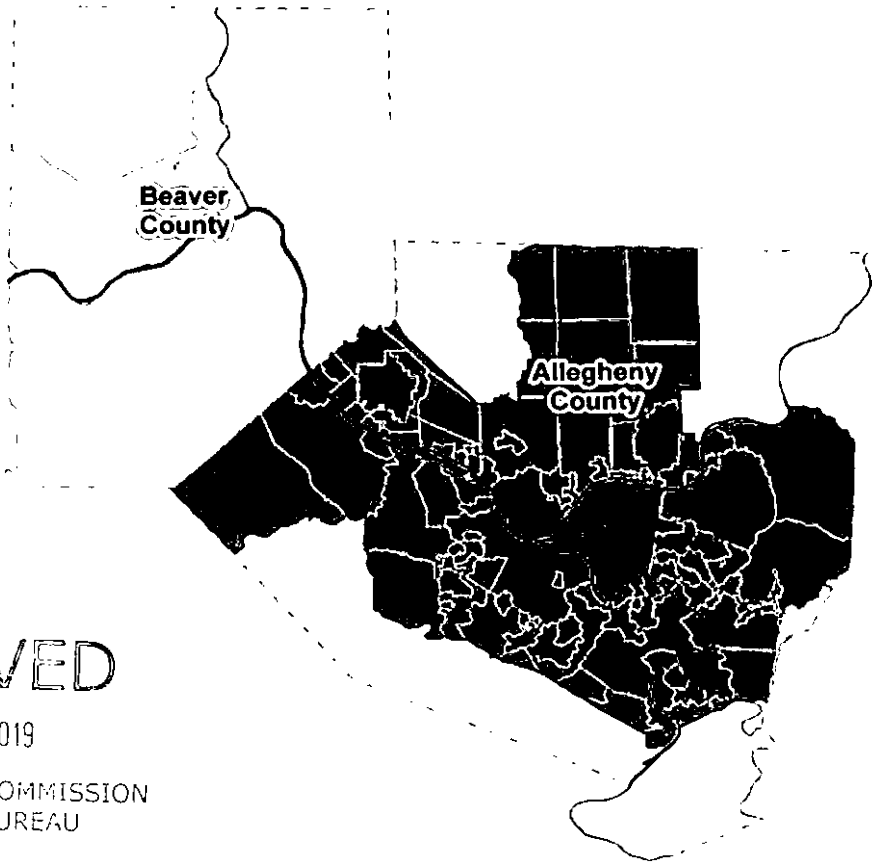
Sincerely,

LAB

Lindsay A. Baxter

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

DUQUESNE LIGHT CO.



Duquesne Light Company
First Quarter 2019

Electric Reliability Report

to the

Pennsylvania Public Utility Commission

April 29, 2019

57.195 Reporting Requirements

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

Duquesne Light had one major event that occurred during the first quarter of 2019. This event began on Sunday, February 24, 2019 at 0700 hours and ended on Friday, March 1, 2019 at 0045 hours.

A total of 140,183 customers were affected throughout the course of this wind event, constituting 23% of the 600,248 total customers in Duquesne Light's service territory.

This outage event was caused by extremely high winds that moved through Allegheny and Beaver counties on Sunday morning, February 24, 2019 and continued for over 24 hours into Monday, February 25, 2019. These high winds downed trees on our power lines and caused extensive damage to our sub-transmission and distribution facilities throughout Duquesne Light's service territory. This high wind event ranked among the top three in customer outages over the last 20 years for Duquesne Light.

Please see Duquesne Light's Electric Utility Report of Outage, dated March 14, 2019, and Duquesne Light's Major Event Exclusion Report dated March 21, 2019 for more information regarding this outage event.

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

RELIABILITY BENCHMARKS AND STANDARDS
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	*
2019 1Q (Rolling 12 mo.)	92	0.87	106	*

Formulas used in calculating the indices:

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

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

$$CAIDI = SAIDI/SAIFI$$

Data used in calculating the indices

Total KVA Interrupted for the Period: (Excluding 11/15/18 and 2/24/19 Major Events)	**6,345,125 KVA**
Total KVA-Minutes Interrupted: (Excluding 11/15/18 and 2/24/19 Major Events)	**671,869,930 KVA-Minutes**
System Connected Load as of 3/31/19:	**7,259,129 KVA**
November 15, 2018 Major Event:	**760,135 KVA** **(10.5% of System Load)** **316,283,090 KVA-Minutes**
February 24, 2019 Major Event:	**1,682,200 KVA** **(23% of System Load)** **784,246,585 KVA-Minutes**

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

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

The list of Worst-Performing Circuits is ranked first by the number of KVA-Minutes of outage experienced by customers on these circuits (highest to lowest) and then by device lockouts from 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).

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 Light'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 do not experience problems with 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).

First Quarter 2019 Rolling 12 Month Circuit Data

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
1 Neville 23650 Fuse Link 65K	8 Total Outages First Quarter Outages: • The cause of two outages were unknown. • Two outages were caused by contact with animal. Previous Outages: • Two outages were caused by contact with animal. • The cause of two outages were unknown.	• Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues.
2 North 23701 Fuse Link 65K	8 Total Outages First Quarter Outages: • The cause of one outage was unknown. • One outage was caused by equipment failure. • One outage was caused by wires blown together due to high winds. Previous Outages: • Two outages were caused by tree fall-in during a storm. • Two outages were caused by wires blown together due to high winds. • One outage was caused by lightning.	• Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Vegetation management performed 2016 and proposed for 2021.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
3 Midland 23640 Breaker	6 Total Outages First Quarter Outages: • One outage was caused by downed wire during a storm. • One outage was caused by contact with company equipment by vehicle. Previous Outages: • Two outages were caused by tree fall-in during a storm. • One outage was caused by wires wrapped together. • One outage was caused by lightning 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 completed Q4 2018.
4 Pine Creek 23714 Sectionalizer WA609	6 Total Outages First Quarter Outages: • One outage was caused by tree fall-in during a storm. • The cause of one outage was unknown during a storm. Previous Outages: • One outage was caused wires wrapped together during a storm. • One outage was caused by equipment failure. • Two outages were caused by 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. • Vegetation management completed Q4 2018. • This circuit was reviewed by Protection Engineering to identify any potential device coordination issues. The devices were coordinating properly and no further action is necessary.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
5 Midland-Cooks Ferry 22869 Breaker	6 Total Outages: First Quarter Outages: • No outages. Previous Outages: • The cause of two outages were unknown. • One outage was caused by wires wrapped together. • Two outages were caused by tree fall-in one during a storm. • One outage was caused by lightning 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 completed Q4 2017. • This circuit was reviewed by Protection Engineering to identify any potential device coordination issues. Further work to resolve device coordination issues was completed Q1 2019.
6 Pine Creek 23711 Fuse Link 40K	5 Total Outages First Quarter Outages: • The cause of one outage was unknown, during a storm. • One outage was caused by tree fall-in. Previous Outages: • Three outages were caused by tree fall-in, one 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 was performed 2015 and is proposed for 2020.
7 Wildwood 23868 Fuse Link 80E	5 Total Outages First Quarter Outages: • Two outages were caused by tree fall-in during a storm. Previous Outages: • Three outages were caused by tree fall-in, one 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 was completed 2016 and proposed for 2020.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
8 Traverse Run 23770 Breaker	5 Total Outages First Quarter Outages: • One outage was caused by *high current overload.* Previous Outages: • Two outages were caused by tree fall-in. • One outage was caused by contact with company equipment by vehicle. • One outage was caused by wires wrapped together.	• Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Routine Vegetation management last performed 2016 and proposed for 2020.
9 Pine Creek 23710 Recloser 100	5 Total Outages First Quarter Outages: • No outages. Previous Outages: • Two outages were caused by wires wrapped together due to high winds. • The cause of two outages were unknown, during a storm. • One outage was caused by tree fall-in.	• Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Vegetation management completed Q3 2018.
10 Brunot Island 23690 Fuse Link 65K	5 Total Outages First Quarter Outages: • No outages. Previous Outages: • The cause of one outage was unknown, during a storm. • Four outages were caused by tree fall-in, one 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
11 Mt. Nebo 23870 Recloser 100	4 Total Outages First Quarter Outages: • One outage was caused by tree fall-in. Previous Outages: • Three outages were due to tree fall-in, two 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 performed Q4 2017 and proposed for 2021.
12 North 23705 Fuse Link 100K	4 Total Outages First Quarter Outages: • The cause of one outage was unknown, during a storm. Previous Outages: • Two outages were caused by tree fall-in during a storm. • 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. • Vegetation management performed Q1 2017 and proposed for 2021.
13 Bellevue 23816 Recloser WR580	4 Total Outages First Quarter Outages: • One outage was caused by tree fall-in during a storm. Previous Outages: • Two outages were caused by tree fall-in, one 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.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
14 Wolfe Run 23646 Fuse Link 100K	4 Total Outages. First Quarter Outages: • One outage was caused by shorted phase during a storm. • One outage was caused by tree fall-in. • One outage was caused by equipment failure. Previous Outages: • 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 performed Q2 2018
15 Montour 23670 Fuse Link 40K	4 Total Outages First Quarter Outages: • One outage was caused by tree fall-in during a storm Previous Outages: • Two outages were caused by tree fall-in during a storm. • 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. • Vegetation management was completed Q1 2018.
16 Mt. Nebo 23871 Recloser WR893	4 Total Outages First Quarter Outages: • One outage was caused by wires blown together due to high winds during a storm • One outage was caused by tree fall-in during a storm. Previous Outages: • Two outages were caused by tree fall-in	• 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
17 Wildwood 23869 Fuse Link 40K	4 Total Outages First Quarter Outages: • No outages. Previous Outages: • Two outages were caused by tree fall-in during a storm. • Two outages were caused by a tree fall-in.	• Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues. • Vegetation management performed 2016 and proposed for 2020.
18 Pine Creek 23716 Recloser 100	4 Total Outages First Quarter Outages: • No outages. Previous Outages: • The cause of one outage was unknown, during a storm. • The cause of two outages were unknown. • One outage was caused by equipment failure.	• Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues.
19 Pine Creek 23713 Fuse Link 65K	3 Total Outages First Quarter Outages: • One outage caused by tree fall-in during a storm. Previous Outages: • Two outages caused by a tree fall-in.	• 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
20 Arsenal 23842 Breaker	3 Total Outages First Quarter Outages: • One outage caused by wires blown together due to high winds during a storm Previous Outages: • The cause of one outage was unknown. • One outage was caused by equipment failure during a storm.	• Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues.
21 Woodville 23683 Breaker	3 Total Outages First Quarter Outages: • One outage caused by wires blown together due to high winds. Previous Outages: • One outage 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. • Routine vegetation management last performed 2016 and proposed for 2021.
22 Logans Ferry 23921 Fuse Link 80E	3 Total Outages First Quarter Outages: • No outages. Previous Outages: • One outage caused by contact with animal. • One outage caused by tree fall-in 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.

Rank, Circuit Name, Device	Outages	Remedial Actions Planned or Taken
23 Eastwood 23935 Breaker	3 Total Outages First Quarter Outages: • No outages. Previous Outages: • One outage was caused by contact with company equipment by vehicle. • One outage was caused by tree fall-in during a storm. • One outage was caused by contact with company equipment by company contractor personnel.	• Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues.
24 Rankin 23882 Fuse Link 25K	2 Total Outages First Quarter Outages: • One outage was caused by contact with company equipment by vehicle. Previous Outages: • 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.
25 Port Perry 23970 Breaker	2 Total Outages First Quarter Outages: • One outage was caused by tree fall-in during a storm. Previous Outages: • One outage was caused by tree fall-in.	• 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
26 Oakland 23740 Sectionalizer EA640	2 Total Outages First Quarter Outages: • One outage was caused by equipment failure. Previous Outages: • One outage was caused by equipment failure.	• Permanent repairs were made following each outage as necessary. • The Company will continue to monitor this circuit for reliability issues.
27 Pine Creek – Blawnox #2 22567 Sectionalizer WA359	1 Total Outage: First Quarter Outages: • One outage was caused by wires blown together due to high winds, 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.

(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.

April 1, 2018 through March 31, 2019 – Two PUC Major Event Exclusions

CAUSE	NO. OF OUTAGES	OUTAGE PERCENTAGE	KVA TOTAL	KVA PERCENTAGE	KVA-MINUTE TOTAL	KVA-MINUTE PERCENTAGE
Storms	439	13%	945,610	15%	133,927,062	20%
Trees (Contact)	24	1%	24,189	1%	1,006,386	1%
Trees (Falling)	1,003	30%	1,586,591	25%	224,355,757	33%
Equipment Failures	870	26%	1,893,338	30%	172,128,105	26%
Overloads	153	5%	188,632	3%	10,906,587	2%
Vehicles	133	4%	408,659	6%	39,942,530	6%
Other	748	21%	1,298,106	20%	89,603,503	12%
TOTALS	3,370	100%	6,345,125	100%	671,869,930	100%

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

2019 Transmission and Distribution Goals and Objectives							
Program Project	**Unit of Measurement**	**Target for 2019 1Q**	**Actual for 2019 1Q**	**1Q Percent Complete**	**Targets for Year 2019**	**Actual YTD for 2019**	**Year End % Complete**
Communications Goals							
Communication Battery Maintenance	Battery Tasks	30	24	80%	117	24	21%
Overhead Distribution Goals							
Recloser Inspections	Circuits	61	75	123%	130	75	58%
Pole Inspections	Poles	0	0	N/A	17945	0	0%
OH Line Inspections	Circuits	61	75	123%	130	75	58%
OH Transformer Inspections	Circuits	61	75	123%	130	75	58%
Padmount & Below Grade Insp	Circuits	10	0	0%	81	0	0%
Overhead Transmission Goals							
Helicopter Inspections	Number of Structures	0	0	N/A	576	0	0%
Ground Inspections	Number of Structures	246	312	127%	370	312	84%
Substations Goals							
Circuit Breaker Maintenance	Breaker Tasks	100	191	191%	408	191	47%
Station Transformer Maintenance	Transformer Tasks	5	5	100%	44	5	11%
Station Battery Maintenance	Battery Tasks	224	220	98%	906	220	24%
Station Relay Maintenance	Relay Tasks	218	281	129%	865	281	32%
Station Inspections	Site Visits	493	493	100%	1942	493	25%
Underground Distribution Goals							
Manhole Inspections	Manholes	174	176	101%	700	176	25%
Major Network Insp (Prot Relay)	Network Protectors	26	40	154%	94	40	43%
Minor Network Visual Inspection (Transformer/Protector/Vault)	Network Transformers	122	237	194%	572	237	41%
Underground Transmission Goals							
Pressurization and Cathodic Protection Plant Inspection	Work Orders	93	98	105%	372	98	26%
Vegetation Management Goals							
Overhead Line Clearance	Circuit Overhead Miles	295	303	103%	1300	303	23%
	Total Units	**2219**	**2605**	**117%**	**26700**	**2605**	**10%**

(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 March 31, 2019
Favorable/(Unfavorable)

	Total Actual	Total Budget	Variance
Customer Service	12,798,066	15,788,545	2,990,479
Human Resources	3,211,309	3,315,531	104,223
Operations/Operation Services	17,581,467	16,610,029	(971,437)
Technology	13,702,395	15,858,636	2,156,241
General Corporate*	8,590,541	9,162,691	572,150
Total	55,883,776	60,735,432	4,851,656

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

Budget Variance Recap – O&M Expenses
For the Twelve Months Ending March 31, 2019
Favorable/(Unfavorable)

	Total Actual	Total Budget	Variance
Customer Service	12,798,066	15,788,545	2,990,479
Human Resources	3,211,309	3,315,531	104,223
Operations/Operation Services	17,581,467	16,610,029	(971,437)
Technology	13,702,395	15,858,636	2,156,241
General Corporate*	8,590,541	9,162,691	572,150
Total	55,883,776	60,735,432	4,851,656

*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 March 31, 2019
Favorable/(Unfavorable)

	Total Actual	Total Budget	Variance
Customer Service	2,803,701	2,310,644	(493,057)
Human Resources	2,632,141	2,842,079	209,938
Operations/Operation Services	42,932,833	65,237,660	22,304,827
Technology	15,187,371	18,316,514	3,129,143
General Corporate*	10,746,107	7,863,034	(2,883,073)
Total	74,302,153	96,569,931	22,267,778

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

Budget Variance Recap - Capital
For the Twelve Months Ending March 31, 2019
Favorable/(Unfavorable)

	Total Actual	Total Budget	Variance
Customer Service	2,803,701	2,310,644	(493,057)
Human Resources	2,632,141	2,842,079	209,938
Operations/Operation Services	42,932,833	65,237,660	22,304,827
Technology	15,187,371	18,316,514	3,129,143
General Corporate*	10,746,107	7,863,034	(2,883,073)
Total	74,302,153	96,569,931	22,267,778

*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	17
Telecom Technician	3
Total Telecom	**25**
Electrical Equipment Technician	37
Protection & Control Technician	27
Yard Group Leader	3
Rigger	6
Laborer	2
Total Substation	**75**
UG Splicer	38
UG Cable Inspector	10
Cable Tester	1
Network Operator	13
Equipment Material Handler	1
Total Underground	**63**
Apprentice T&D	49
Equipment Attendant	1
Lineworker	142
Service Crew Leader	3
Equipment Material Handler	4
Total Overhead	**199**
Right of Way Agent	4
Surveyor	4
Total Real Estate	**8**
Total Street Light Changer	**5**
Engineering Technician	36
GIS Technician	5
T&D Mobile Worker	2
Test Technician, Mobile	6
Total Engineering	**49**
Senior Operator Apprentice	3
Senior Operator	21
Traveling Operator	0
Troubleshooter	11
Total Traveling Operator/Troubleshooter	**35**
Total Switching Dispatcher	**16**
Total Employees	**475**

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

CONFIDENTIAL INFORMATION

1st Quarter 2019

Contractor Dollars:	$ **redacted**
Contractor Hours:	**redacted**

YTD 2019

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 – 1st Quarter 2019

REDACTED

Amount of Time it Takes to Obtain the Necessary Personnel – 1st Quarter 2019

REDACTED

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

Matthew G. Bucek – General Manager, Asset Management
(412) 393-8878, mbucek@duqlight.com

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

Jason Keller – General Manager, Operations Center
(412) 393-2897, jkeller@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	23650	Neville	65K	8	3/30/2019	36457	43985	17342130	475.687	1.20649	394.274
2	23701	North	65K	8	3/6/2019	16740	69773	18279401	1091.959438	4.168040621	261.9838763
3	23640	Midland	BKR	6	2/24/2019	28675	116415	45047329	1570.961779	4.059808195	386.9546794
4	23714	Pine Creek	WA609	6	2/24/2019	22571	190716	46293747	2051.027735	8.449603473	242.7365664
5	22869	Midland-Cooks Ferry	BKR	6	9/5/2018	37666	164051	45706374	1213.465035	4.35541337	278.6107613
6	23711	Pine Creek	40K	5	2/27/2019	21254	75951	21071837	991.4292368	3.573492049	277.4398889
7	23868	Wildwood	80E	5	2/24/2019	25349	55373	28283752	1115.773877	2.184425421	510.7859787
8	23770	Traverse Run	BKR	5	1/30/2019	19469	120805	28708546	1474.577328	6.204992552	237.6436902
9	23710	Pine Creek	100	5	11/26/2018	31769	96327	22872126	719.9510844	3.032106771	237.4425239
10	23690	Brunot Is.	65K	5	9/10/2018	19106	107333	16530593	865.2042814	5.617764053	154.0122143
11	23870	Mt. Nebo	100	4	3/14/2019	26795	120930	26817446	1000.837694	4.513155439	221.7600761
12	23705	North	100K	4	2/25/2019	26540	87021	36075197	1359.276451	3.278862095	414.5573712
13	23816	Bellevue	WR580	4	2/25/2019	18696	52815	17521398	937.17362	2.824935815	331.7504118
14	23646	Wolfe Run	100K	4	2/24/2019	27019	83877	39338932	1455.972908	3.104370998	469.0073799
15	23670	Montour	40K	4	2/24/2019	29540	143107	36689002	1242.0109	4.844515911	256.3746148
16	23871	Mt Nebo	WR893	4	2/24/2019	17687	59577	25484661	1440.869622	3.368406174	427.7600584
17	23869	Wildwood	40K	4	11/17/2018	18745	106517	48604768	2592.945746	5.682421979	456.3099599

Rank	Circuit No	Circuit Name	Feeder Device	Device Lockouts	Last Lockout	Circuit KVA	Total KVA Interrupted	Total KVA-Minutes	SAIDI	SAIFI	CAIDI
18	23716	Pine Creek	100	4	7/4/2018	34563	188722	43749246	1265.782658	5.46023204	231.8184737
19	23713	Pine Creek	65K	3	2/24/2019	28333	76325	38096351	1344.592913	2.693855222	499.1333246
20	23842	Arsenal	BKR	3	2/24/2019	26395	130560	20070483	760.3895814	4.946391362	153.7261259
21	23683	Woodville	BKR	3	2/13/2019	32646	118552	17070212	522.8883171	3.631440299	143.9892368
22	23921	Logans Ferry	80E	3	12/26/2018	32875	106981	67596490	2056.166996	3.254174905	631.8550958
23	23935	Eastwood	BKR	3	11/30/2018	22818	151334	19601094	859.0189324	6.632220177	129.522077
24	23882	Rankin	25K	2	3/27/2019	16932	48053	18264475	1078.695665	2.837999055	380.0902129
25	23970	Port Perry	BKR	2	2/25/2019	31335	78965	24680471	787.632711	2.520025531	312.5494966
26	23740	Oakland	EA640	2	1/22/2019	22258	96885	21496768	965.7996226	4.352816965	221.8792176
27	22567	Pine Creek-Blawnox #2	WA359	1	2/24/2019	21307	44851	26405723	1239.298024	2.104988971	588.7432387

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS. FOLD AT DOTTED LINE

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