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May 31, 2019 M-2016-2522508

BY HAND DELIVERY

Rosemary Chiavetta, Secretary
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
400 North Street, Filing Room
Harrisburg, PA 17120

Re: Pike County Light and Power Company; **2018 ANNUAL ELECTRIC RELIABILITY REPORT**

Dear Secretary Chiavetta:

Enclosed for filing with the Public Utility Commission is Pike County Light & Power Company's 2018 Annual Electric Reliability Report. Copies have been served in accordance with the attached Certificate of Service.

Should you have any questions or comments, please feel free to contact me directly.

Very truly yours,

Thomas J. Sniscak
Whitney E. Snyder

WES/das
Enclosure

cc: David M. Washko (dawashko@pa.gov)
John Van Zant (jvanzant@pa.gov)
Per Certificate of Service

PCLP
PIKE COUNTY LIGHT & POWER

Pike County Light & Power Company
Annual Electric Reliability Report
2018 System Performance

May 2018

INTRODUCTION

Pursuant to the requirements of 52 Pa. Code §57.195, Pike County Light & Power Company ("Pike", "PCL&P" or the "Company") submits this Annual Reliability Report ("Report") to the Pennsylvania Public Utility Commission ("PAPUC") for its 2018 system performance. Pike is an electric distribution company ("EDC") which has approximately 4,797 electric distribution customers, thereby making it a "smaller EDC" for purposes of 52 Pa. Code §57.195 (c).

§57.195. (b)(1)

An overall assessment of the state of the system reliability in the EDC's service territory including a discussion of the EDC's current programs and procedures for providing reliable electric service.

Overall Current Assessment

The PCL&P service territory is primarily fed from two 34.5 kV feeders that originate from the Orange and Rockland Deerpark Substation. The Borough of Matamoras is served by two 13.2 kV feeders from the Matamoras Substation with backup tie capability to distribution circuitry from Orange and Rockland's Port Jervis Substation. The Matamoras Substation is normally fed by a 34.5kv feed from Bank "A", with backup service being provided by a second 34.5kv from a Bank "B" through an automatic transfer scheme at the Matamoras substation. The western portion of the Pike service territory is a radial feed from the 34.5kv circuit from Bank "B".

In prior years, the Company has been effective in removing danger trees. The Company will remove danger trees within rights-of-way areas when identified. Those danger trees that exist outside of the Company's right-of-way areas can only be removed with customer or municipal authorization. PCL&P works with the County Commissioners' office, the Boroughs of Matamoras and Milford, the Townships of Westfall and Milford, and the Milford Shade Tree Commission to address danger trees that represent a hazard to the Company's electrical system located within and outside of right-of-way areas.

The Company has also focused its reliability efforts toward pole inspection and defective pole replacements. The Company accelerated the pole inspection and the defective pole replacements in 2017 and 2018, resulting in the Company completing the first twelve year cycle and replacing over one hundred (100) poles and pole top apertures. The emphasis on replacement of defective poles was to focus on the "main-line" of the two 34.5kv circuits from the Delaware River into Milford Borough and Township and laterals.

The PAPUC's service reliability standards for Pike, last revised on August 17, 2006, are as follows:

- 12-Month System Average Interruption Frequency Index ("SAIFI", or "Frequency") of 0.82 interruptions per customer served;

- 12-month Customer Average Interruption Duration Index ("CAIDI" or "Restoration") of 235 minutes of interruption per customer interrupted;

- 12-month System Average Interruption Duration Index ("SAIDI" or "Duration") of 195 minutes per customer served.

In 2018, the Pike service territory experienced a Frequency of 0.85 interruptions per customer served, a Restoration of 236 minutes, and Duration of 200 customer-minutes of interruption. SAIFI was 4% above the standard, CAIDI was 1 minute above the standard, and SAIDI was 5 minutes above the standard. These results are detailed on Page 8 of this Report, along with the most recent three-year history for these indices.

The three-year reliability standards for Pike are as follows:

- Three-year annualized SAIFI of 0.67 interruptions per customer served;
- Three-year annualized CAIDI of 191.4 minutes of interruption per customer interrupted; and
- Three-year annualized SAIDI of 129 minutes per customer served.

For the three-year period ended December 2018, Pike experienced an annualized Frequency of 0.60 interruptions per customer served, a Restoration of 218.2 minutes, and Duration of 130.6 customer minutes of interruption

There were two major events that affected Pike's service territory during 2018 that were accepted by the PAPUC for exclusion from the statistics. These major events affected 4,781 customers and are detailed in the next section of this Report (starting on Page 5).

The table on Page 7 summarizes, by cause, Pike customer interruptions experienced in 2018, with pre-arranged and major events removed. The leading cause of outages was tree contacts, with 23 interruptions affecting 1,206 customers for a total of 425,216 customer-minutes.

The service reliability program targeted to manage these outages is the 34.5kv circuit three-year, cycle-based tree clearance program and 13.2kv is on 5-year cycle and the pole inspection and defective pole replacements.

The most recent vegetation 34.5kv cycle was completed in 2018 and is scheduled next for completion in 2021. The most recent 13.2kv circuit cycle was completed in 2017 and is scheduled next for completion in 2022.

The pole inspection program was accelerated to restore and complete the first 12-year cycle. The second cycle will continue with 650 poles inspected in 2019.

These focused efforts, along with the other service reliability programs that the Company implements, as are discussed later in this Report, are designed to target circuit equipment and conditions that will result in performance improvements.

The distribution inspection and maintenance goals/objectives and capital expenses, are listed starting on Page 10 of this Report. Pike has no transmission lines.

§57.195. (b)(2)

A description of each major event that occurred during the year being reported on, including the time and duration of the event, the number of customers affected, the cause of the event and any modified procedures adopted to avoid or minimize the impact of similar events in the future.

Major Events

Date	Cause	Time	Duration (hours)	Customers Affected
3/2/18	Snow Wind	09:27:00 PM	264.4	2,101
9/6/18	Lightning	08:58:00 PM	58.5	2,680
			TOTALS	**4,781**

a. <u>March 2, 2018</u>

On Friday March 2, heavy snow and strong winds began to cove the service territory. At approximately 1047am on March 3, 2018, first outage notification was taking place. The weight of the snow and strong winds resulted in large, tall trees to come down in areas where tree damage in the past had been minimal. Looking at the concentration of the tree and system damage it compares to Hurricane Sandy. Most of this damage to the system was concentrated along Route 6, Pine Acres, Christian Hill Rd, Schochopee Trail, Foster Hill Rd, Moon Valley Rd, Malibu/Kern Dr, Greenwood Dr and Cummins Hill Rd. After the damage assessment and tree removals had commenced on 3/2 and 3/3, Line crews commenced a process of isolation, repairs and restoration switching on 3/3 primarily on the mainline supplying Milford Borough/Township. By 03/03, Saturday night, 10:46pm, 95% customers without power in Milford Borough were restored. The remainder of the mainline was restored on 3/04. The remainder of restoration / construction continued with tree and line crews removing the large volumes of vegetation, replacing poles, replacing / reinstalling primary, secondary and service conductors in the areas above. Approximately 25 poles and 22 transformers were replaced over the duration of the restoration/construction. By 3/09, Friday evening, 347 customers or 16% of the customers remained out; by 3/10, Saturday evening 35 customers or less than 2% of the customer remained without power. The last 35 were in areas with limited to no access, combined with severe tree and distribution/service damaged, requiring off road vehicles to set poles and reinstall install conductors. All customers were restored by 3/13.

b. <u>September 6, 2018</u>

At 3:44 p.m. on Thursday September 6, 2018, the O&R control room received a notification from its SCADA system that breaker 7-6-2K in its Port Jervis Substation had tripped opened and locked out. The breaker feeds PCL&P's Line 7 that runs along Route 209 from Matamoras to Milford. The reported weather conditions in the area at that time were of lightning and rain.

The lightning storm that passed through the service territory left several damaged locations in its wake. Over 100 lightning strikes were documented in the area. Damage to equipment included: a pole top recloser, three separate overhead 3 phase banks, multiple overhead primary conductors off poles, a shattered pole top and an underground transformer.

§57.195. (b)(3)

A table showing the actual values of each of the reliability indices (SAIFI, CAIDI, SAIDI, and if available, MAIFI) for the EDC's service territory for each of the preceding 3 calendar years. The report shall include the data used in calculating the indices, namely the average number of customers served, the number of sustained interruptions, the number of customers affected, and the minutes of interruption. If MAIFI values are provided, the number of customer momentary interruptions shall also be reported.

Year	SAIFI	CAIDI	SAIDI	Average No. of Customers Served	No. of Interruptions	Customers Affected	Customer Minutes of Interruption
2015	0.4	199.7	79.9	4,531	63	1,821	366,523
2016	0.38	228	86.5	4,559	51	1,735	394,826
2017	0.55	185	102	4,648	60	2,570	475,003
2018	0.85	236	200	4,797	48	4,057	959,178

MAIFI data is not currently available.

§57.195. (b)(4)

A breakdown and analysis of outage causes during the year being reported on, 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 identify service problems shall be reported.

Causes of Interruption

Cause Description	No. of Inter.	% of Inter.	Customers Affected	Customer Minutes
Animal Contact	4	8.33%	91	15,231
Tree Contact	23	47.92%	1,206	425,216
Equip. Failure	8	16.67%	1,871	249,033
Non-Comp Acc.	2	4.17%	109	12,779
Lightning	6	12.50%	520	167,353
Loss of Feed	4	8.33%	210	86,866
Unknown-Other	1	2.08%	50	2,700
Totals	48		4,057	959,178

As noted in the above table, the primary cause of interruptions in 2018 was "Tree Contact", followed by "Equipment Failure".

The 2018 Pike distribution vegetation management program includes the 34.5kv system, commencing on the Matamoras side from the Delaware River to the end of the radial portions through Milford Township. The vegetation and electric line contractors are utilized as needed to handle trouble locations as they arise. The vegetation contractor is utilized to address known "hotspot" trimming areas and hazard tree removals. The vegetation cycle program occurred over the last quarter of 2018. PCL&P also assisted municipalities in the removal of numerous hazard trees as they were identified. While the number of tree related outages has remained flat in recent years, the number of customers affected by trees dropped by over 15% in 2018.

§57.195(b)(5)

A list of the major remedial efforts taken to date and planned for circuits that have been on the worst performing 5% of circuits list for a year or more.

Pursuant to Pike's exemption as set forth in §57.195(c), Pike is not required to address this subsection.

§57.195. (b)(6)

A comparison of established transmission and distribution inspection and maintenance goals/objectives versus actual results achieved during the year being reported on. Explanations of any variances shall be included.

T/D Inspection/Maintenance Goals/Objectives

Goals/Objectives vs. Results

For distribution goals and objectives, the Company focused on completing all scheduled preventive maintenance on its distribution facilities. As set forth below, Pike met these goals. Pike has no transmission facilities.

- Distribution Vegetation Management
  - In 2018, the entire length of the 34.5kv (58.75 miles) lines were trimmed per the Company's line clearance specifications. In 2017, the Matamoras/Westfall 13.2kv system was trimmed per the Company's line clearance specifications The Company also responded to several requests from customers and municipalities for tree trimming and hazard tree removal. In addition, known hot spot areas are scheduled each year to be trimmed.
- Pole Inspection Program
  - Distribution poles are inspected on a twelve-year cycle. PCL&P inspected 1000 poles in 2017 and 700 poles in 2018, completing the 12 year cycle in 10 years. As a result of the pole inspections, approximately 100 defective poles have been replaced over the two years, starting with poles identified in 2015.
- Distribution Overhead Line Inspections
  - The 2018 maintenance program included infrared inspection of all three phase circuitry. PCL&P performed the infrared survey as planned.
- Power Quality
  - The 2018 maintenance program required inspection of seven capacitors and five regulators, which PCL&P did not complete as planned. There were no power quality customer complaints in 2017 or 2018.
- Recloser Program
  - The 2018 maintenance program required visual inspection of all reclosers (four on the system) annually, and a functional test every three years. Pike completed all four visual inspections in 2018.
- Substation Maintenance and Inspection Program
  - The 2018 maintenance program required completion of all inspection and maintenance requirements as listed in Appendix I for the Matamoras Substation. The monthly visual inspections were performed, the other inspections were not completed.

- Transformer Inspection Program
    - PCL&P is required to inspect all of its padmount on a five-year cycle. Pike inspected all of its 268 pad-mounted distribution transformers in 2013. The pad-mounted transformer inspection portion of the PA Inspection & Maintenance Plan was not completed in 2018 as planned. The five-year cycle will be completed in the 2019 I & E plan.
    - PCL&P is required to inspect all of its overhead distribution transformers on a two-year cycle as part of the overhead distribution line inspection program. All overhead distribution transformers were inspected in 2018. The next inspection cycle is due to be completed by the end of 2020.

§57.195. (b)(7)

A comparison of budgeted versus actual transmission and distribution operation and maintenance expenses for the year being reported on in total and detailed by the EDC's own functional account code or FERC account code as available. Explanations of any variances 10% or greater shall be included.

T/D Operation and Maintenance

2018 O&M Expenditures	2018 Budget ($,000)	2018 Actual ($,000)
5800 OPERATION SUPERVISION AND ENGINEERING	0	0.9
5810 LOAD DISPATCHING	0	0
5820 STATION EXPENSES	0	0
5830 OVERHEAD LINE EXPENSES	0	0
5840 UNDERGROUND LINE EXPENSES	0	0
5860 METER EXPENSES	0	0
5870 CUSTOMER INSTALLATIONS EXPENSES	0	0
5880 MISCELLANEOUS DISTRIBUTION EXPENSES	0	0
5890 RENTS	0	0
5920 MAINTENANCE OF STATION EQUIPMENT DISTRIBUTION	0	0
5930 MAINTENANCE OF OVERHEAD LINES DISTRIBUTION	850	995
5940 MAINTENANCE OF UNDERGROUND LINES DISTRIBUTION	0	0
5960 MAINTENANCE OF STREET LIGHTING AND SIGNAL SYSTEMS	0	0
5980 MAINTENANCE OF MISCELLANEOUS DISTRIBUTION PLANT	0	74
Total Distribution	850	1070

The 2018 Actual Operation and Maintenance Expenses over ran the budgeted amount by $220k (25.9%).

§57.195. (b)(8)

A comparison of budgeted versus actual transmission and distribution capital expenditures for the year being reported on in total and detailed by the EDC's own functional account code or FERC account code as available. Explanations of any variances 10% or greater shall be included.

T/D Capital Expenditures

Account#	Capital Project	2018 Budget($,000)	2018 Actual ($,000)
1070	NEW INSTALLATIONS	75	128
1070	OTHER REPLACEMENT	100	21
1070	POLE REPLACEMENT	150	218
1070	RESIDENTIAL METERS	30	4
1070	Non-residential meters	17	0
1070	Voltage Regulation	20	0
1070	Transformers	8	0
1070	Safety Equipment	15	0
1070	SYSTEM REINFORCEMENT	135	15
1070	COMPUTERS/PRINTERS	150	128
	Total Capital	**700**	**514**

The 2018 overall Capital Expenditures were $186k (26.6%) below the budget.

§57.195. (b)(9)

Quantified transmission and distribution inspection and maintenance goals/objectives for the current calendar year detailed by system area (that is by transmission, substation and distribution.)

T/D Inspection and Maintenance Goals/Objectives Quantified

Inspection and maintenance programs, designed with the intention of improving frequency of interruption and minimizing the resultant increases in restoration (as frequency is improved), have been in effect in Pike's service territory for over ten years. In addition, the "Biennial Inspection, Maintenance, Repair and Replacement Plan" became effective on January 1, 2012. This plan along with the associated programs are focused on field facilities and customer satisfaction, and are effective in minimizing the probability of an interruption while limiting the number of customers affected per interruption. The major programs are:

- Distribution Vegetation Management
  The not to exceed five-year cycle trimming and various spot trimming and hazard tree removal are performed as conditions are identified.

- Pole Inspections Planned
  650 Poles are scheduled to be inspected in 2019.

- Power Quality
  The 2019 maintenance program will require inspection of seven capacitors and five regulators.

- Recloser Program
  The 2019 maintenance program will require visual inspection of one recloser and a functional of 3 reclosers.

- Substation Maintenance and Inspection Program
  The 2019 maintenance program will require the completion of all monthly and annual inspection and maintenance requirements, as listed in Appendix I for the Matamoras Substation.

- Distribution Overhead Line Inspections
  All circuits for Pike were inspected in 2018. The next inspection cycle is scheduled for 2020 into 2021.

- Distribution Transformer Inspections
  All overhead transformers were inspected in 2018. The next inspection of overhead transformers is scheduled to be completed in 2020. The overhead line inspection program and the inspection of pad mount transformers will be completed at least once every five years.

§57.195. (b)(10)

Budgeted transmission and distribution operation and maintenance expenses for the current year in total and detailed by the EDC's own functional account code or FERC account code as available.

T/D Operation and Maintenance

O&M	Capital Project	2019 Budget($,000)
5800	OPERATION SUPERVISION AND ENGINEERING	100
5820	STATION EXPENSES	0
5830	OVERHEAD LINE EXPENSES	0
5840	UNDERGROUND LINE EXPENSES	0
5860	Non Specific Project	0
5880	MISCELLANEOUS DISTRIBUTION EXPENSES	0
5890	RENTS	0
5920	MAINTENANCE OF STATION EQUIPMENT DISTRIBUTION	225
5930	MAINTENANCE OF OVERHEAD LINES DISTIBUTION	920
5940	MAINTENANCE OF UNDERGROUND LINES DISTIBUTION	25
5960	MAINTENANCE OF STREET LIGHTING AND SIGNAL SYSTEMS	5
Total Distribution		**1,275**

§57.195. (b)(11)

Budgeted transmission and distribution capital expenditures for the current year in total and detailed by the EDC's own functional account code or FERC account code as available.

T/D Capital Expenditures

Account#	Capital Project	2019Budget($,000)
330	Electric Meter Purchases - PA	45.0
330	Pole Inspection Blanket(PARC)	130.0
330	Electric Dist Blanket/ Electric Meter 1st Install Bkt-PA and Transformers	280.0
	Total Capital	**455.0**

Significant changes, if any, to the transmission and distribution inspection and maintenance programs previously submitted to the PAPUC.

T/D Inspection and Maintenance Programs - Significant Changes

Inspection & Maintenance Changes

There were no significant changes to Pike's Inspection and Maintenance programs in 2018. Inspection programs in 2019 will be performed in accordance with the Company's "Biennial Inspection, Maintenance, Repair and Replacement Plan" filed with the PAPUC.

Appendix I Substation Maintenance and Inspection Program

Item Description:

Examine individual utility substation maintenance programs to validate proper maintenance procedures and verify that maintenance is being performed. Review recent operating data to verify that no adverse trends exist.

PCL&P Program:

The following details the different class inspections and maintenance programs performed by the Substation Operations Department, and their associated time cycles. Intervals vary dependent on equipment type, style and maintenance history.

CLASS #1 INSPECTION - Monthly

- Visual inspection of transformers and oil breakers for oil leaks, oil levels, nitrogen pressure, connections, condition of bushings and Oil Circuit Breaker (OCB) operating mechanism.
- Visual inspection of battery banks, chargers, control board indicating lights, control house lights, yard lights.
- Visual inspection of minor equipment including Potential Transformers (PTs), Current Transformers (CTs), Capacitive Coupled Potential Devices (CCPDs), disconnect switches and bus connections.
- Visual inspection of all structures, fences and yard surfaces.
- Counter readings taken of OCBs, reclosers and tap changers.

STATION BATTERY TESTS - Annually

- Measure specific gravity and cell voltage. Test battery impedance, clean batteries and check cell levels.

FANS, PUMPS, HEATERS AND COMPRESSORS - Annually

- Check for proper operation prior to winter for heaters and compressors and prior to summer for fans and pumps.

TRANSFORMER GAS-IN-OIL ANALYSIS – Quarterly/Annually

- Take oil sample from each power transformer compartment and analyze for combustible gas content.

DOBLE POWER FACTOR TEST - Every Three - Ten Years

- Use Doble instrument to measure the integrity of the insulating medium of applicable device.

OCB TIMING - Every Three - Ten Years

- Check the time it takes for each operation of breakers.

RELAY MAINTENANCE - Every four years, electromechanical; six years microprocessor

- Clean, test and calibrate as required all relays involved in protective relay schemes. After testing and calibrating, perform a trip test to assure proper operation.

CLASS #3 INSPECTION - Every Three - Ten Years

The Class #3 inspection on transformers is to include, but is not limited to the following items:

- Test oil
- TTR - Test, Megger test;
- Inspect all connectors, bushings;
- Inspect for leaks (oil - nitrogen);
- Check CT connections, alarm systems on banks; and
- Doble Power Factor Test.

<u>Transformers with Load Tap Changers</u>

- Test Oil in LTC cabinet; and
- Test LTC control for proper operation.

The Class #3 inspection on OCB's is to include, but is not limited to the following items:

- Test Oil
- DLRO (Ductor Test) before and after
- Inspect and clean control cabinet;
- Inspect and clean Pneumatic-Hydraulic or spring charged operating system; and
- Operational Test.

The Class #3 inspection on reclosers is to include, but is not limited to the following items:

- Test Oil

- DLRO (Ductor Test) before and after;
- Control cabinet clean, checkout and operational test; and

Reclosers with Vacuum Bottles

- Hi-Pot test.

The Class #3 inspection on ACB's is to include, but is not limited to the following items:

- DLRO (Ductor Test) before and after;
- Inspect all contacts (action to be taken, if needed);
- Inspect and test all Micro and Aux. contacts (close and trip circuit); and
- Operational Testing

CLASS #4 INSPECTION - Various intervals (four - twelve years or as necessitated by Class#3 Inspection results) dependent on equipment type, style and maintenance history.

The Class #4 inspection consists of a thorough inspection and testing of the apparatus listed below and includes all inspections included in a Class #3.

Transformers with Load Tap Changer

- Drain oil from LTC cabinet, inspect all contacts;
- Inspect and tighten all connections;
- Clean complete LTC cabinet;
- Filter or replace oil; and
- Test LTC control for proper operation.

The Class #4 inspection on OCB's is to include, but is not limited to the following items:

- DLRO (Ductor test) before and after;
- Drop tanks - inspect and tighten all connections. Clean all parts and tanks;
- Test and filter or replace oil;
- Inspect and clean control cabinet;
- Inspect and clean Pneumatic-Hydraulic or spring charged operating systems; and
- Operational Test.

The Class #4 inspection on reclosers is to include, but is not limited to the following items:

- Drop tank (filter or replace oil);
- Inspect all contacts - repair or replace (depending on the condition);
- Check and tighten all connections;
- Control cabinet, clean and checkout;
- DLRO (Ductor Test) before and after; and

- Operational Test.

Recloser with Vacuum Bottles

- Hi-Pot test.

The Class #4 inspection on ACB's is to include, but is not limited to the following items:

- DLRO (Ductor Test) before and after;
- Inspect all contacts - clean and put protective grease coating on;
- Inspect and clean all ARC chutes;
- Inspect and test all Micro and Aux. contacts (close and trip circuit);
- Check and tighten all connections; and
- Operational Test.

VERIFICATION

I, Steven L. Grandinali, General Manager of Pike County Light and Power Company, hereby state that the facts above set forth are true and correct to the best of my knowledge, information and belief. I understand that the statements herein are made subject to the penalties of 18 Pa. C.S. § 4904 (relating to unsworn falsification to authorities).

Steven L. Grandinali
General Manager
Pike County Light and Power Company

Dated: May 31, 2019

CERTIFICATE OF SERVICE

I hereby certify that I have this day served a true and correct copy of the foregoing document upon the parties, listed below, in accordance with the requirements of 52 Pa. Code § 1.54 (relating to service by a party).

VIA FIRST CLASS U.S. MAIL

Office of Consumer Advocate
555 Walnut Street
5th Floor Forum Place
Harrisburg, PA 17101

Office of Small Business Advocate
Commerce Building, Suite 202
300 North 2nd Street
Harrisburg, PA 17101

Bureau of Investigation & Enforcement
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
P.O. Box 3265
Harrisburg, PA 17105-3265

Thomas J. Sniscak
Whitney E. Snyder

DATED: May 31, 2019