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April 30, 2024

BY ELECTRONIC FILING

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

M-2023-3039027-AEL-5/2/24

Re: Pike County Light and Power Company; Docket No. ~~M-2024-3045243~~,
Annual Electric Reliability Report 2023 System Performance

Dear Secretary Chiavetta:

Enclosed for filing with the Public Utility Commission is Pike County Light & Power Company's Annual Electric Reliability Report 2023 System Performance.

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

Very truly yours,

/s/ Whitney E. Snyder

Whitney E. Snyder
Thomas J. Sniscak

WES/das
Enclosure

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



Pike County Light & Power Company
Annual Electric Reliability Report
2023 System Performance

Submitted by:
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April 30, 2024

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 2023 system performance. Pike, a wholly owned utility subsidiary of Corning Energy Holding Company, is an electric distribution company (“EDC”) which had 5,333 electric distribution customers as of December 31, 2023, 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 Orange and Rockland Utilities ("ORU"). The Borough of Matamoras is served by two 13.2 kV feeders from a Substation with backup tie capability to distribution circuitry from Orange and Rockland Utilities. The substation is normally fed by a 34.5 kV circuit feed (ORU circuit 116-2-34) with backup service being provided by a second 34.5 kV circuit feed (ORU Circuit 116-4-34) through an automatic transfer scheme at the substation. The western portion of the Pike service territory is supplied by a radial feed from ORU circuit 116-4-34.

Historically, the majority of outages, customers affected and customer-minutes of interruption are the result of vegetation contacts. In prior years, the Company has been effective in removing danger trees, however, in recent years, external environmental factors such as the emerald ash borer have increased the risk associated with tree contact outages to the Company's distribution system. The Company prioritizes and aggressively removes danger trees within utility right-of-way zones and works with individual customers and municipalities to remove those that exist outside of the Company's right-of-way areas. PCL&P also works with the Milford Shade Tree Commission to address danger trees that represent a hazard to the general public as well as the Company's electrical system located within and outside of right-of-way areas.

The 2023 inspection program returned to its 12-year cycle after accelerating inspections in 2022. 60 poles failed inspection and were replaced during the year of approximately 300 that were inspected.

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

In 2023, the Pike service territory experienced a Frequency of 0.62 interruptions per customer served, a Restoration of 87 minutes, and Duration of 54 customer-minutes of interruption per customer. SAIFI narrowly missed the benchmark by 4%, CAIDI was 87 minutes below the benchmark, and SAIDI was 52

minutes below the benchmark. These results are detailed on Page 6 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 2023, Pike experienced an annualized Frequency of 0.83 interruptions per customer served, a Restoration of 137 minutes, and Duration of 114 customer minutes of interruption.

There were three major events that affected Pike's service territory during 2023 that were accepted by the PAPUC for exclusion from the reliability statistics. These major events affected 4,759 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 2023, with pre-arranged and major events removed. The leading cause of outages was tree contacts, with 19 interruptions affecting 950 customers for a total of 113,769 customer-minutes.

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

The focus of the 2023 vegetation management program was on an overgrown ROW exiting the rear of the Matamoras Substation and heading west to Interstate 84. It is unknown when the $\frac{3}{4}$ mile ROW was last maintained, however, it was overgrown with vegetation on both sides and under the existing pole line. PCLP completed an LTIP reliability project involving reconductoring of the existing 34.5 kV circuit and the construction of a new 13.2 kV underbuild to serve as a back up feed to the radial circuit feeding the commercial area along Route 209 in the Town of Westfall. Vegetation removal involved ground to sky clearing of the ROW to allow for the new circuit and ingress/egress onto the ROW which had been limited by the vegetation prior to removal.

Hot spot trimming continued on an as needed basis, and PCLP worked with local municipalities to remove danger trees, specifically, emerald ash trees, as they were identified or at the request of the individual municipalities.

The distribution inspection and maintenance goals/objectives and capital expenses are listed starting on Page 9 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	Customer Minutes of Int
5/8/2023	Tree	5:09 p.m.	2.55	1,240	148,412
10/9/23	Loss of feed	2:00 p.m.	0.51	1,905	59,055
12/4/23	Animal Contact	7:10 a.m.	2.82	1,614	272,766
Totals				4,759	480,233

a. May 8, 2023

At approximately 5:09 pm on May 8, a heavy growth of vines became entangled in the primary overhead conductors above. This created a primary fault that caused the circuit breaker to trip and lock out. The total Customer Minutes of Interruption for this event was 148,412 minutes. Weather was not a contributing factor to this outage.

b. October 9, 2023

At approximately 2:00 pm on October 9, a sub transmission feed from Orange and Rockland Utilities de-energized. PCL&P has an automatic transfer switch installed, intended to transfer customers normally fed from this feed to another feed. The transfer switch did not operate as designed so power was restored via manual field switching. Weather was not a contributing factor to this outage.

c. December 4, 2023

At approximately 7:10 a.m. on December 4, a squirrel made contact with a lightning arrester near the intersection of Elderberry Alley and Ann Street in the Borough of Milford setting a pole on fire. The fault was cleared by an upstream recloser located on Route 209. Weather was not a contributing factor to this outage.

§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
2020	0.45	184	83	5,227	55	2,356	432,428
2021	1.40	153	216	4,891	66	6,890	1,058,853
2022	0.50	159	79	5,299	63	2,646	420,975
2023	0.62	87	54	5,333	49	3,344	289,297

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	6	12.2%	90	10,853
Tree Contact	19	38.8%	950	113,769
Work Error	1	2.0%	246	4,920
Equip. Failure	3	6.1%	81	8,951
Lightning	2	4.1%	39	4,269
Loss of Feed	8	16.3%	478	69,500
Unknown-Other	10	20.4%	1,460	77,035
Totals	49		3,344	289,297

As noted in the above table, the primary cause of interruptions in 2023 was “Tree Contact”, followed by “Unknown”.

Although SAIFI increased slightly in 2023, both CAIDI and SAIDI were at historic lows indicating the effectiveness of PCLP’s reliability programs. Given these results, PCLP will continue with the programs currently in place, making modifications as necessary.

§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 2023, primarily hot spotting of the distribution system was implemented along with some danger trees removals in Matamoras and Milford Boroughs on an as needed basis. The cycle-based tree clearance program for the 34.5 kV circuits (58.75 miles, three-year cycle) began in December 2021 and was completed in the first quarter of 2022. The 13.2 kV vegetation management program (42 miles, five-year cycle) commenced in December of 2022 per the Company's line clearance specifications and remains ongoing.

In 2023 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 planned to inspect 350 poles in 2023. As mentioned earlier in this report, 300 poles were inspected.

Distribution Overhead Line Inspections

Infrared and pole top equipment inspections of three-phase circuitry was performed on 50% of the system in 2023. The remaining 50% will be completed in 2024.

Power Quality

The 2023 maintenance program required inspection of seven capacitors and five regulators, which PCL&P completed as planned. There has not been a power quality customer complaint since before 2017.

Recloser Program

The recloser maintenance program requires visual inspection of all reclosers annually, and a functional test every three years. Pike completed the four visual inspections with no identified problems. Functional tests will be performed in 2024.

Substation Maintenance and Inspection Program

The 2023 maintenance program required completion of all Class 1 inspection and maintenance requirements as listed in Appendix I for the Matamoras Substation. The monthly visual inspections were performed. In addition, Class 2 and Class3 inspections were all completed on schedule, and a Class 4 inspection was performed in April of 2023. No significant issues were identified while minor issues were all addressed at the time that the maintenance was performed.

Transformer Inspection Program

PCL&P is required to inspect all overhead distribution transformers on a two-year cycle as part of the overhead distribution line inspection program. In June 2023, 50% of overhead distribution transformers were inspected. No issues were identified during the inspection program.

§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

2023 O&M Expenditures	2023 Budget (\$,000)	2023 Actual (\$,000)
5800 OPERATION SUPERVISION AND ENGINEERING	11.7	55.6
5820 STATION EXPENSES	3.2	3.1
5840 UNDERGROUND LINE EXPENSES	5.4	5.1
5880 MISCELLANEOUS DISTRIBUTION EXPENSES	58.9	55.6
5920 MAINTENANCE OF STATION EQUIPMENT DISTRIBUTION	33	31.1
5930 MAINTENANCE OF OVERHEAD LINES DISTRIBUTION	525.5	496.2
5950 MAINTENANCE LINE TRANSFORMERS	7.6	7.2
5980 MAINTENANCE OF MISCELLANEOUS DISTRIBUTION PLANT	2.8	2.7
Total Distribution	648.1	656.6

Actual Operation and Maintenance Expenses in 2023 underran the budgeted amount by \$8,500 (1.3%).

§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	2023 Budget (\$,000)	2023 Actual (\$,000)
362	ELECTRIC-SUBSTATION	24	90
364	ELECTRIC-POLE AND DEVICES	215	831
364	DEF POLE REPL A	630	828
364	ROW IMPROVEMENT 116-2-34 - MATAMORAS SUB TO I84	700	74
365	ELECTRIC-OVERHEAD CONDUCTORS	180	182
367	ELECTRIC- UNDERGROUND CONDUCTORS	85	41
368	ELECTRIC-OH TRANSFORMER	240	1,369
368	ELECTRIC-UG TRANSFORMER	240	511
369	ELECTRIC-NEW INSTALLATION	88	241
369	ELECTRIC-REPLACEMENT	24	45
370	ELECTRIC-RESIDENTIAL METER	6	18
370	ELECTRIC-NON-RESIDENTIAL METER	18	2
373	ELECTRIC-STREET LIGHTS	60	44
	Total Capital	2,510	4,277

Overall Capital Expenditures in 2022 were \$1,767,000 (70%) above the budget. 80% of the overrun can be attributed to a change in the way PCLP accounts for transformers. Prior to 2023, PCLP capitalized transformer upon installation. In 2023, PCLP changed the methodology for capitalizing and depreciating transformers. These assets are now capitalized upon purchase. All of PCLP's transformer inventory were capitalized in 2023. This bookkeeping changed resulted in what appeared to be a significant capital expenditure in 2023. The remaining overrun was the result of additional spending to replace defective poles identified in the system.

§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

300 poles are scheduled to be inspected in 2024.

Power Quality

All capacitors and regulators will be inspected in accordance with the 2024 annual maintenance program.

Recloser Program

All reclosers will be visually inspected and functionally tested in 2024.

Substation Maintenance and Inspection Program

A Class 4 inspection was performed on the Matamoras Substation in 2023 as outlined in in Appendix I. Class 1, 2 and 3 inspections will be performed in 2024.

Distribution Overhead Line Inspections

All circuit 3 phase mainlines are planned to be inspected in the next inspection cycle scheduled for 2024.

Distribution Transformer Inspections

Inspections of 50% of overhead transformers are scheduled to be completed in 2024. PCLP originally planned inspections of 100% in 2023 but was only able to complete 50% due to manpower availability issues. The pad mounted transformers inspections were 100% completed in 2019/20. Like overhead transformers, approximately 50% of underground transformers were inspected in 2023 with the remainder to be inspected in 2024.

§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

2023 O&M Expenditures	2024 Budget (\$,000)
5800 OPERATION SUPERVISION AND ENGINEERING	57.5
5820 STATION EXPENSES	3.6
5840 UNDERGROUND LINE EXPENSES	6.1
5880 MISCELLANEOUS DISTRIBUTION EXPENSES	66.2
5920 MAINTENANCE OF STATION EQUIPMENT DISTRIBUTION	37.0
5930 MAINTENANCE OF OVERHEAD LINES DISTRIBUTION	590.0
5950 MAINTENANCE LINE TRANSFORMERS	8.5
5980 MAINTENANCE OF MISCELLANEOUS DISTRIBUTION PLANT	3.1
Total Distribution	772.0

§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	2024 Budget (\$,000)
362	ELECTRIC-SUBSTATION	10
362	69 KV X 34.5 KV SUBSTATION TRANSFORMER PURCHASE (FUTURE LTIIP PROJECT)	300
364	STORM HARDENING/SYSTEM IMPROVEMENT	500
364	DEF POLE REPL A	600
364	WESTFALL 13.2 KV LOOP	150
364	EXTEND 34.5 KV ALONG ROUTE 6 FROM MILFORD TO I84	900
367	PINE HILL – PHASE 2	200
367	RIVERVIEW – PHASE 2	250
368	ELECTRIC-OH TRANSFORMER	300
368	ELECTRIC-UG TRANSFORMER	250
369	ELECTRIC-NEW INSTALLATION	60
370	ELECTRIC-RESIDENTIAL METER	40
370	ELECTRIC-NON-RESIDENTIAL METER	25
373	ELECTRIC-STREET LIGHTS	20
	Total Capital	\$3,605

§57.195. (b)(12)

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 2023. Inspection programs in 2024 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 for oil leaks, oil levels, nitrogen pressure, connections and condition of bushings.
- 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 breakers, the Vista switch and tap changers.

CLASS #2 STATION BATTERY TESTS – Quarterly

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

CLASS #3 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.

CLASS #4 INSPECTION - Every Three - Ten Years

Transformers

Includes, but is not limited to the following items:

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

Load Tap Changer

Includes, but is not limited to the following items:

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

VCB's

Includes, 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

CERTIFICATE OF SERVICE

I hereby certify that I have this day served a true 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 ELECTRONIC MAIL

Patrick Cicero, Acting Consumer Advocate
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/s/ Whitney E. Snyder
Whitney E. Snyder
Thomas J. Sniscak

DATED: April 30, 2024