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April 30, 2025

BY ELECTRONIC FILING

M-2023-3039027- jbs

Matthew L. Homsher, Secretary
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
400 North Street, Filing Room
Harrisburg, PA 17120

Re: Pike County Light and Power Company; Docket No. ~~M-2016-2522508~~;
Annual Electric Reliability Report 2024 System Performance

Dear Secretary Homsher:

Enclosed for filing with the Public Utility Commission is Pike County Light & Power Company's Annual Electric Reliability Report 2024 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

WES/das
Enclosure

cc: Per Certificate of Service



Pike County Light & Power Company
Annual Electric Reliability Report
2024 System Performance

Submitted by:
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April 30, 2025

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 2024 system performance. Pike, a wholly owned utility subsidiary of Corning Energy Holding Company, is an electric distribution company (“EDC”) which had 5,318 electric distribution customers as of December 31, 2024, 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.

ORU also services two remote areas of the PCL&P territory with separate single-phase primary lines across the Delaware River in Mil-Rift and Pond Eddy. Metropolitan Edison (Met-Ed) services another remote area of the PCL&P territory in the Milford Township with a single-phase primary line from their distribution system.

Historically, the majority of outages, customers affected and customer-minutes of interruption are the result of vegetation contacts. This year, "Loss of feed" has moved to the top in customer-minutes of interruption. Even though these outages affect a small number of PCL&P customers, the restoration is out of the control of PCL&P, and result in longer periods of restoration.

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 and Matamoras Boroughs' Shade Tree Commissions as well as Penn DOT to address danger trees that represent a hazard to the public as well as the Company's electrical system located within and outside of right-of-way areas.

On "Loss of Feed" outages, PCL&P has stepped up its communications with the PCL&P impacted customers, keeping them informed of the conditions and expectations. In addition, PCL&P, communicates hourly during the outages with the adjoining utility for updated estimated restore times and status.

The 2023 pole 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 2024, the Pike service territory experienced a Frequency of 0.84 interruptions per customer served, a Restoration of 184 minutes, and Duration of 155 customer-minutes of interruption per customer. SAIFI narrowly missed the standard by 2%, CAIDI was 51 minutes below the standard, and SAIDI was 40 minutes below 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 2024, Pike experienced an annualized Frequency of 0.73 interruptions per customer served, a Restoration of 144 minutes, and Duration of 106 customer minutes of interruption.

There were four major events that affected Pike’s service territory during 2024 that were accepted by the PAPUC for exclusion from the reliability statistics. These major events affected 7,335 customers and are detailed in the next section of this Report (starting on Page 6).

In addition, there was a significant weather event on November 22, 2024, that affected approximately 9% of customers served that did not qualify for an exclusion.

The table on Page 9 summarizes, by cause, Pike customer interruptions experienced in 2024, with pre-arranged and major events removed. The leading cause of outages was tree contacts, with 36 interruptions affecting 1,894 customers for a total of 226,908 customer-minutes.

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

Hot spot trimming continued on an as needed basis, and PCLP worked with local municipalities and Penn-Dot 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 11 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
1/7/24	Ice Storm	3:07 p.m.	3.45	765	61,810
2/16/24	Tree Contact	3:20 a.m.	1.33	2,138	171,040
3/11/24	Wind Storm	7:10 a.m.	75.3	2,506	675,128
11/25/24	Tree Contact	4:53 a.m.	7.6	1,926	362,495
Totals				7,335	1,270,473

a. January 7, 2024

In the late morning of January 7, temperatures in the Northeast section of the Pike service territory began to rise from just below freezing to values in the high thirties. This change transitioned the precipitation from heavy snow to sleet and rain. Right around 3 p.m. the temperatures rapidly dropped to below the freezing point turning the rain and sleet on tree branches to ice. The ice loading on the trees caused multiple branches to snap with some landing on primary conductors causing outages.

b. February 16, 2024

At approximately 3:20 a.m. on February 16, a large limb fell across all three phases of mainline primary conductor on U.S. Route 209. This tree contact resulted in a bolted fault that caused recloser CR1 to trip open. Weather reports describe the conditions as high winds.

c. March 11, 2024

On the morning of March 11, high winds swept through the region causing eleven outages on the Pike distribution system and the loss of the feed to the Pond Eddy section of the Pike service area. Weather reports describe the conditions as high winds with gusts exceeding 45 mph.

d. November 25, 2024

In the early morning of November 25, a tree limb failed causing it to fall onto the center phase conductor of circuit 116-2-34. The span of conductor affected is part of the upper circuit of a double circuit distribution configuration. The center phase of 116-2-34 snapped causing it to make contact with the lower circuit. The overall result of this was

the loss of both distribution circuits originating out of the Matamoras substation. Wind gusts exceeded 30 mph overnight.

§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
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	0.86	95	82	5,333	50	4,584	437,709
2024	0.84	184	155	5,318	78	4,490	826,239

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	8	10%	805	63,672
Tree Contact	36	46%	1,894	226,908
Equip. Failure	14	18%	516	212,811
Non-Company Accident	3	4%	376	31,925
Loss of Feed	12	15.4%	656	274,399
Unknown-Other	5	6%	243	16,524
Totals	78		4,490	826,239

As noted in the above table, the primary cause of interruptions in 2024 was “Tree Contact”, followed by “Equipment Failure” and “Loss of Feed”. However, Loss of Feed significantly contributed to CMI over the year with approximately 33% of the 2024’s CMI. This is a result of outages from outside the service territory supplying our three remote areas, with long restoration times. In addition, on November 22,2024, the PCL&P service territory was impacted by a heavy-wet snowstorm that affected approximately 9% of the customers served, and a CMI of approximately 21% of the 2024’s CMI.

§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 2024, 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 next 34.5kv cycle will commence in the late fourth quarter 2025 into early 2026. The 13.2 kV vegetation management program (42 miles, five-year cycle) commenced in February 2025 and was completed in April 2025, per the Company's line clearance specifications.

In 2024 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 performed a ground-walking inspection of 204 poles in 2024.

Distribution Overhead Line Inspections

Utilizing drone contractors, Infrared and pole tops and pole top equipment inspections of three- phase circuitry was performed on the remaining 50% of the system in 2024. In addition, the single and three phase Delaware River and Interstate Route 84 conductor crossings. were flown

Power Quality

The 2024 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 2025.

Substation Maintenance and Inspection Program

The 2024 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 Class 3 inspections were all completed on schedule, and a Class 4 inspection was performed in April of 2023. As a result of the class 2 in 2023, the station batteries were replaced in February 2024. Substation transformer oil sample results in 2024 required monitoring and were repeated in early 2025.

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. In 2024 the remaining 50% of the overhead transformers were inspected, any issues identified were addressed during the time of the inspections and in 2025. The pad mounted transformers inspections are on a 5-year cycle and were 100% completed in 2024.

§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

2024 O&M Expenditures	2024 Budget (\$,000)	2024 Actual (\$,000)
5800 OPERATION SUPERVISION AND ENGINEERING	7.5	7.9
5820 STATION EXPENSES	3.6	11.8
5840 UNDERGROUND LINE EXPENSES	6.1	5.7
5880 MISCELLANEOUS DISTRIBUTION EXPENSES	66.2	2.0
5920 MAINTENANCE OF STATION EQUIPMENT DISTRIBUTION	37.0	6.4
5930 MAINTENANCE OF OVERHEAD LINES DISTRIBUTION	590.0	650.5
5950 MAINTENANCE LINE TRANSFORMERS	8.5	7.0
5980 MAINTENANCE OF MISCELLANEOUS DISTRIBUTION PLANT	3.1	3.6
Total Distribution	722.0	694.7

Actual Operation and Maintenance Expenses in 2024 underran the budgeted amount by \$27,500 (3.7%). The budget underrun was due to capital projects that avoided some maintenance expenses.

§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	2024 Budget (\$,000)	2024 Actual (\$,000)
362	ELECTRIC-SUBSTATION	10	90.75
364	ELECTRIC-POLE AND DEVICES	250	830.75
364	DEF POLE REPL A	1,100	830.75
365	ELECTRIC-OVERHEAD CONDUCTORS	191.30	184.67
367	ELECTRIC- UNDERGROUND CONDUCTORS	-	49.95
368	ELECTRIC-OH TRANSFORMER	550.0	2,345.71
368	ELECTRIC-UG TRANSFORMER	240	511
368	PJM Interconnect	1,350.0	-
369	ELECTRIC-NEW INSTALLATION	260	286
369	ELECTRIC-REPLACEMENT	-	-
370	ELECTRIC-RESIDENTIAL METER	40	18.38
370	ELECTRIC-NON-RESIDENTIAL METER	25	2.18
373	ELECTRIC-STREET LIGHTS	20	44
	Total Capital	3,796.3	4,956.72

In 2024 Capital expenditure was \$4,956,700 which was (30%) above the budget. The primary driver was the increase in purchasing of electric distribution transformers, with a 300% overrun. The overhead transformer lead times and availability from 2023 through today have been excessive and limited, respectively. This encouraged aggressive ordering of the different size and type transformer to ensure ability to meet customer needs.

§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 2025.

Power Quality

All capacitors and regulators will be inspected in accordance with the 2025 annual maintenance program.

Recloser Program

All reclosers will be visually inspected and functionally tested 2025.

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 2025.

Distribution Overhead Line Inspections

All circuit 3 phase mainlines are planned to be inspected in the next inspection cycle scheduled for 2025.and 2026.

Distribution Transformer Inspections

Inspections of remaining 50% of overhead transformers were completed in 2024. The pad mounted transformers inspections are on a 5-year cycle was 100% completed 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

O&M Expenditures	2025 Budget (\$,000)
5800 OPERATION SUPERVISION AND ENGINEERING	8.5
5820 STATION EXPENSES	12.6
5840 UNDERGROUND LINE EXPENSES	6.1
5880 MISCELLANEOUS DISTRIBUTION EXPENSES	2.1
5920 MAINTENANCE OF STATION EQUIPMENT DISTRIBUTION	6.8
5930 MAINTENANCE OF OVERHEAD LINES DISTRIBUTION	699.0
5950 MAINTENANCE LINE TRANSFORMERS	7.5
5980 MAINTENANCE OF MISCELLANEOUS DISTRIBUTION PLANT	3.9
Total Distribution	746.5

§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	2025 Budget (\$,000)
362	ELECTRIC-SUBSTATION	10
362	PJM INTERCONNECT	700
364	STORM HARDENING/SYSTEM IMPROVEMENT	625
364	DEF POLE REPL A	600
364	EXTEND 34.5 KV ALONG ROUTE 6 FROM MILFORD TO I84	500
367	PINE HILL – PHASE 2	200
368	ELECTRIC-OH TRANSFORMER	500
368	ELECTRIC-UG TRANSFORMER	80
369	ELECTRIC-NEW INSTALLATION	60
370	ELECTRIC-RESIDENTIAL METER	21
370	ELECTRIC-NON-RESIDENTIAL METER	25
373	ELECTRIC-STREET LIGHTS	20
	Total Capital	\$3,341

§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 2024. Inspection programs in 2025 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

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/s/ Whitney E. Snyder

Whitney E. Snyder

DATED: April 30, 2025