



VIA E-FILE

June 10, 2024

Rosemary Chiavetta, Secretary
Pennsylvania Public Utility Commission
PO Box 3265
Harrisburg, PA 17120

**Re: PPL Electric Utilities Corporation
Report of Electric Service Interruptions
Due to a Thunder and Lightning Event on May 23-24, 2024
Docket No. M-2021-3023564**

Dear Ms. Chiavetta:

PPL Electric Utilities Corporation (“PPL Electric”) hereby submits this Report of Electric Service Interruptions due to a thunder and lightning event between 0500 on Thursday, May 23, 2024, and 1830 on Friday, May 24, 2024. This event caused 308 outage cases and 23,718 customer service interruptions and affected all regions of PPL Electric’s service territory. This report is being filed pursuant to the Commission’s regulations at 52 Pa Code §67.1.

Pursuant to 52 Pa. Code §1.11, the enclosed document is to be deemed filed on June 10, 2024, which is the date it was filed electronically with the Commission’s E-Filing System.

If you have any questions regarding this report, please contact me at (215) 721-6807.

Very truly yours,

/s/ Julie Swiniuch

Julie Swiniuch
Supervisor – Distribution Asset Investment Strategy
215-721-6807

Enclosures

cc: Mr. John VanZant
RA-PUCPEMA@pa.gov

ELECTRIC UTILITY REPORT OF OUTAGE TO
PENNSYLVANIA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU
P O BOX 3265
HARRISBURG, PA 17105-3265

Phone-In Reports: Always call (717) 773-7377
Email RA-PUCPEMA@state.pa.us

An original and one copy of this report are to be mailed to the Secretary's Bureau at the address above, even if an electronic copy has been emailed to the address above.

Information Required:

1. Reporting Utility: PPL Electric Utilities
Address: 2 North 9th Street
Allentown, PA 18101

2. Name and title of person making report:

Juliana Swiniuch	Supervisor - Distribution Asset Investment Strategy
<i>(Name)</i>	<i>(Title)</i>

3. Telephone number: 215-721-6807
(Telephone Number)

4. Date and time initial telephonic report was made to Commission:
May 23, 2024, at 0912.

5. Interruption or Outage:
 - (a) Number of customers affected: 23,718

(b) Approximate number of outage cases and trouble cases for each county affected during the event:

County	Outage Cases	Trouble Cases
Berks		1
Bucks	6	3
Carbon	3	
Clinton	1	
Columbia	7	5
Cumberland	3	1
Dauphin	4	1
Juniata	1	1
Lackawanna	9	8
Lancaster	1	1
Lehigh	86	31
Luzerne	2	2
Lycoming	4	2
Monroe	8	5
Montgomery	1	
Montour	3	1
Northampton	87	36
Northumberland	6	5
Perry		1
Pike	7	2
Schuylkill	41	8
Snyder	13	1
Union	5	
Wayne	10	1
	308	116

(c) Approximate number of outages for each county affected during the event:

County	Number of Customers Interrupted
Berks	125
Bucks	125
Carbon	159
Chester	122
Clinton	854
Columbia	2,100
Cumberland	600
Dauphin	2,210
Juniata	261
Lackawanna	683
Lancaster	3,086
Lebanon	22
Lehigh	96
Luzerne	1,926
Lycoming	2,196
Monroe	557
Montgomery	3
Montour	314
Northampton	23
Northumberland	2,192
Perry	101
Pike	249
Schuylkill	670
Snyder	2,164
Susquehanna	271
Union	35
Unknown	28
Wayne	2,522
York	24
	23,718

(d) Approximate number of outage cases exceeding 6 or more hours in duration:

One hundred eighty-three (183) cases exceeded six hours in duration.

- (e) A listing of each outage case exceeding 6 or more hours in duration, including the following information:

Job Number	County	# Customers Out More than 6 Hours	Duration	Trouble Date & Time	Restored Date & Time
7257932-1	Columbia	15	439	5/23/24 5:28	5/23/24 12:47
7257942-1	Union	3	470	5/23/24 5:46	5/23/24 13:36
7257944-1	Snyder	11	666	5/23/24 5:51	5/23/24 16:57
7257947-1	Schuylkill	25	419	5/23/24 6:01	5/23/24 13:00
7257949-1	Snyder	9	544	5/23/24 6:03	5/23/24 15:07
7257959-1	Northumberland	6	962	5/23/24 6:19	5/23/24 22:21
7257972-1	Union	23	481	5/23/24 6:31	5/23/24 14:32
7257975-1	Northumberland	93	383	5/23/24 6:48	5/23/24 13:11
7257976-1	Montour	58	931	5/23/24 6:33	5/23/24 22:04
7257982-1	Snyder	1	499	5/23/24 6:41	5/23/24 15:00
7257984-1	Montour	4	576	5/23/24 6:46	5/23/24 16:22
7258004-1	Dauphin	8	505	5/23/24 7:09	5/23/24 15:34
7258009-1	Schuylkill	2	707	5/23/24 7:12	5/23/24 18:59
7258014-1	Schuylkill	12	460	5/23/24 7:20	5/23/24 15:00
7258021-1	Schuylkill	6	658	5/23/24 7:21	5/23/24 18:19
7258022-1	Columbia	1	390	5/23/24 7:23	5/23/24 13:53
7258023-1	Schuylkill	45	1742	5/23/24 7:23	5/24/24 12:25
7258026-1	Schuylkill	44	769	5/23/24 7:26	5/23/24 20:15
7258029-1	Schuylkill	8	779	5/23/24 7:27	5/23/24 20:26
7258034-1	Schuylkill	3	982	5/23/24 7:28	5/23/24 23:50
7258037-1	Schuylkill	27	448	5/23/24 7:32	5/23/24 15:00
7258038-1	Schuylkill	10	458	5/23/24 7:32	5/23/24 15:10
7258039-1	Schuylkill	29	946	5/23/24 7:34	5/23/24 23:20
7258042-1	Schuylkill	6	633	5/23/24 7:40	5/23/24 18:13
7258046-1	Schuylkill	15	1091	5/23/24 7:39	5/24/24 1:50
7258047-1	Schuylkill	11	676	5/23/24 7:40	5/23/24 18:56
7258048-1	Schuylkill	57	850	5/23/24 7:40	5/23/24 21:50
7258051-1	Schuylkill	9	572	5/23/24 7:40	5/23/24 17:12
7258054-1	Schuylkill	23	516	5/23/24 7:42	5/23/24 16:18
7258058-1	Snyder	55	407	5/23/24 7:43	5/23/24 14:30
7258093-1	Schuylkill	3	634	5/23/24 8:06	5/23/24 18:40
7258096-1	Schuylkill	2	555	5/23/24 8:09	5/23/24 17:24
7258104-1	Lehigh	72	431	5/23/24 8:14	5/23/24 15:25
7258108-1	Schuylkill	2	993	5/23/24 8:14	5/24/24 0:47
7258109-1	Lehigh	5	1738	5/23/24 8:15	5/24/24 13:13
7258111-1	Schuylkill	1	861	5/23/24 8:16	5/23/24 22:37
7258112-1	Schuylkill	9	566	5/23/24 8:16	5/23/24 17:42
7258122-1	Lehigh	8	722	5/23/24 8:18	5/23/24 20:20
7258138-1	Lehigh	21	442	5/23/24 8:23	5/23/24 15:45
7258141-1	Lehigh	839	778	5/23/24 8:23	5/23/24 21:21
7258146-1	Lehigh	9	767	5/23/24 8:23	5/23/24 21:10
7258149-1	Lehigh	3	570	5/23/24 8:23	5/23/24 17:53
7258154-1	Lehigh	11	765	5/23/24 8:23	5/23/24 21:08
7258157-1	Lehigh	54	1718	5/23/24 8:24	5/24/24 13:02
7258158-1	Northumberland	9	850	5/23/24 6:31	5/23/24 20:41
7258179-1	Lehigh	29	817	5/23/24 8:25	5/23/24 22:02
7258182-1	Lehigh	53	735	5/23/24 8:26	5/23/24 20:41
7258184-1	Lehigh	5	552	5/23/24 9:17	5/23/24 18:29
7258187-1	Lehigh	2	676	5/23/24 8:27	5/23/24 19:43
7258195-1	Lehigh	8	724	5/23/24 8:28	5/23/24 20:32

Job Number	County	# Customers Out More than 6 Hours	Duration	Trouble Date & Time	Restored Date & Time
7258200-1	Lehigh	2	1082	5/23/24 8:28	5/24/24 2:30
7258201-1	Northampton	27	382	5/23/24 8:28	5/23/24 14:50
7258202-1	Northampton	21	797	5/23/24 8:28	5/23/24 21:45
7258208-1	Lehigh	7	495	5/23/24 8:30	5/23/24 16:45
7258209-1	Lehigh	71	744	5/23/24 8:30	5/23/24 20:54
7258210-1	Lehigh	10	540	5/23/24 8:30	5/23/24 17:30
7258214-1	Snyder	1	389	5/23/24 8:31	5/23/24 15:00
7258215-1	Northampton	1	1958	5/23/24 8:30	5/24/24 17:09
7258220-1	Northampton	33	436	5/23/24 8:31	5/23/24 15:47
7258223-1	Northampton	44	676	5/23/24 8:31	5/23/24 19:47
7258230-1	Northampton	106	610	5/23/24 8:32	5/23/24 18:42
7258233-1	Lehigh	419	667	5/23/24 8:31	5/23/24 19:38
7258240-1	Northampton	113	517	5/23/24 8:32	5/23/24 17:09
7258243-1	Northampton	109	907	5/23/24 8:33	5/23/24 23:40
7258244-1	Northampton	40	379	5/23/24 8:33	5/23/24 14:52
7258249-1	Northampton	2	1794	5/23/24 8:33	5/24/24 14:27
7258252-1	Northampton	23	791	5/23/24 8:33	5/23/24 21:44
7258253-1	Lehigh	6	753	5/23/24 8:33	5/23/24 21:06
7258254-1	Northampton	89	478	5/23/24 8:32	5/23/24 16:30
7258260-1	Northampton	10	678	5/23/24 8:34	5/23/24 19:52
7258261-1	Northampton	18	659	5/23/24 8:35	5/23/24 19:34
7258264-1	Northampton	47	420	5/23/24 8:35	5/23/24 15:35
7258269-1	Lehigh	14	795	5/23/24 8:34	5/23/24 21:49
7258272-1	Lehigh	38	860	5/23/24 8:35	5/23/24 22:55
7258283-1	Northampton	111	486	5/23/24 8:36	5/23/24 16:42
7258285-1	Northampton	235	784	5/23/24 8:36	5/23/24 21:40
7258286-1	Northampton	20	385	5/23/24 8:35	5/23/24 15:00
7258291-1	Northampton	11	414	5/23/24 8:36	5/23/24 15:30
7258294-1	Northampton	25	1796	5/23/24 10:59	5/24/24 16:55
7258295-1	Northampton	83	538	5/23/24 8:36	5/23/24 17:34
7258311-1	Northampton	18	731	5/23/24 8:38	5/23/24 20:49
7258317-1	Schuylkill	2	401	5/23/24 8:39	5/23/24 15:20
7258320-1	Northampton	13	771	5/23/24 8:39	5/23/24 21:30
7258325-1	Northampton	40	451	5/23/24 8:40	5/23/24 16:11
7258328-1	Northampton	23	696	5/23/24 8:39	5/23/24 20:15
7258343-1	Northampton	117	659	5/23/24 8:41	5/23/24 19:40
7258348-1	Carbon	1	369	5/23/24 8:42	5/23/24 14:51
7258363-1	Bucks	3	1711	5/23/24 8:42	5/24/24 13:13
7258366-1	Schuylkill	1	676	5/23/24 8:44	5/23/24 20:00
7258371-1	Northampton	4	478	5/23/24 8:44	5/23/24 16:42
7258397-1	Schuylkill	5	404	5/23/24 7:26	5/23/24 14:10
7258405-1	Northampton	5	717	5/23/24 8:42	5/23/24 20:39
7258430-1	Bucks	18	645	5/23/24 8:43	5/23/24 19:28
7258443-1	Lehigh	1	1813	5/23/24 8:23	5/24/24 14:36
7258449-1	Northampton	1	775	5/23/24 8:26	5/23/24 21:21
7258456-1	Schuylkill	1	602	5/23/24 8:53	5/23/24 18:55
7258464-1	Lehigh	47	545	5/23/24 8:55	5/23/24 18:00
7258476-1	Lehigh	32	490	5/23/24 8:20	5/23/24 16:30
7258480-1	Lehigh	27	1723	5/23/24 8:57	5/24/24 13:40
7258484-1	Lehigh	13	1652	5/23/24 8:58	5/24/24 12:30

Job Number	County	# Customers Out More than 6 Hours	Duration	Trouble Date & Time	Restored Date & Time
7258485-1	Lehigh	8	697	5/23/24 8:58	5/23/24 20:35
7258497-1	Northampton	5	1079	5/23/24 8:34	5/24/24 2:33
7258505-1	Northampton	78	891	5/23/24 9:00	5/23/24 23:51
7258540-1	Northampton	73	760	5/23/24 8:33	5/23/24 21:13
7258548-1	Northampton	15	454	5/23/24 9:11	5/23/24 16:45
7258553-1	Northampton	31	534	5/23/24 9:11	5/23/24 18:05
7258555-1	Lehigh	7	589	5/23/24 9:11	5/23/24 19:00
7258556-1	Northampton	42	380	5/23/24 9:11	5/23/24 15:31
7258562-1	Northampton	14	673	5/23/24 8:37	5/23/24 19:50
7258596-1	Schuylkill	1	558	5/23/24 9:17	5/23/24 18:35
7258616-1	Northampton	13	596	5/23/24 8:34	5/23/24 18:30
7258617-1	Lehigh	10	550	5/23/24 9:20	5/23/24 18:30
7258618-1	Northampton	123	500	5/23/24 8:38	5/23/24 16:58
7258624-1	Lehigh	19	589	5/23/24 9:21	5/23/24 19:10
7258642-1	Northampton	94	1861	5/23/24 8:30	5/24/24 15:31
7258645-1	Northampton	61	433	5/23/24 8:31	5/23/24 15:44
7258696-1	Schuylkill	3	563	5/23/24 7:59	5/23/24 17:22
7258722-1	Northampton	6	555	5/23/24 9:35	5/23/24 18:50
7258727-1	Lehigh	1	564	5/23/24 9:36	5/23/24 19:00
7258730-1	Lehigh	137	1587	5/23/24 9:36	5/24/24 12:03
7258737-1	Snyder	2	757	5/23/24 9:37	5/23/24 22:14
7258760-1	Northampton	3	513	5/23/24 9:42	5/23/24 18:15
7258783-1	Lehigh	32	634	5/23/24 8:35	5/23/24 19:09
7258790-1	Northampton	7	1065	5/23/24 8:40	5/24/24 2:25
7258794-1	Schuylkill	1	608	5/23/24 9:52	5/23/24 20:00
7258799-1	Lehigh	5	1626	5/23/24 9:53	5/24/24 13:00
7258810-1	Northampton	19	465	5/23/24 9:55	5/23/24 17:40
7258823-1	Lehigh	5	708	5/23/24 8:24	5/23/24 20:12
7258824-1	Lehigh	2	1428	5/23/24 8:25	5/24/24 8:13
7258831-1	Bucks	5	661	5/23/24 10:01	5/23/24 21:02
7258835-1	Lehigh	1	581	5/23/24 10:02	5/23/24 19:43
7258843-1	Northampton	18	580	5/23/24 10:03	5/23/24 19:43
7258845-1	Lehigh	51	375	5/23/24 10:02	5/23/24 16:17
7258848-1	Lehigh	33	637	5/23/24 10:03	5/23/24 20:40
7258871-1	Northampton	10	513	5/23/24 9:42	5/23/24 18:15
7258908-1	Lehigh	1	1590	5/23/24 8:21	5/24/24 10:51
7258929-1	Schuylkill	1	471	5/23/24 10:29	5/23/24 18:20
7258959-1	Northampton	5	744	5/23/24 8:36	5/23/24 21:00
7259050-1	Schuylkill	5	602	5/23/24 8:11	5/23/24 18:13
7259067-1	Lehigh	27	425	5/23/24 9:23	5/23/24 16:28
7259097-1	Lehigh	7	514	5/23/24 11:29	5/23/24 20:03
7259108-1	Northampton	6	908	5/23/24 8:34	5/23/24 23:42
7259146-1	Lehigh	4	819	5/23/24 8:28	5/23/24 22:07
7259165-1	Northampton	74	444	5/23/24 12:03	5/23/24 19:27
7259179-1	Lehigh	2	369	5/23/24 12:13	5/23/24 18:22
7259188-1	Union	7	513	5/23/24 12:17	5/23/24 20:50
7259294-1	Northampton	37	1522	5/23/24 13:14	5/24/24 14:36
7259313-1	Northampton	1	561	5/23/24 13:26	5/23/24 22:47
7259327-1	Schuylkill	1	690	5/23/24 7:43	5/23/24 19:13
7259328-1	Lehigh	1	913	5/23/24 14:17	5/24/24 5:30

Job Number	County	# Customers Out More than 6 Hours	Duration	Trouble Date & Time	Restored Date & Time
7259333-1	Northampton	1	481	5/23/24 13:37	5/23/24 21:38
7259359-1	Lehigh	1	1249	5/23/24 13:49	5/24/24 10:38
7259363-1	Northampton	46	402	5/23/24 13:49	5/23/24 20:31
7259389-1	Northampton	2	443	5/23/24 8:32	5/23/24 15:55
7259560-1	Lehigh	1	1193	5/23/24 16:17	5/24/24 12:10
7259582-1	Northampton	13	1200	5/23/24 16:32	5/24/24 12:32
7259589-1	Lehigh	20	1666	5/23/24 8:26	5/24/24 12:12
7259666-1	Lehigh	3	1620	5/23/24 8:27	5/24/24 11:27
7259671-1	Northampton	2	440	5/23/24 18:00	5/24/24 1:20
7259687-1	Lehigh	7	1166	5/23/24 18:18	5/24/24 13:44
7259735-1	Lehigh	410	1660	5/23/24 12:36	5/24/24 16:16
7259736-1	Northampton	488	767	5/23/24 8:36	5/23/24 21:23
7259742-1	Northampton	7	1204	5/23/24 19:23	5/24/24 15:27
7259743-1	Monroe	59	498	5/23/24 19:28	5/24/24 3:46
7259751-1	Lehigh	2	826	5/23/24 19:38	5/24/24 9:24
7259763-1	Lehigh	5	958	5/23/24 19:57	5/24/24 11:55
7259770-1	Lehigh	3	906	5/23/24 20:09	5/24/24 11:15
7259824-1	Lehigh	1	769	5/23/24 21:21	5/24/24 10:10
7259893-1	Lehigh	6	555	5/24/24 0:52	5/24/24 10:07
7259895-1	Wayne	98	370	5/24/24 0:58	5/24/24 7:08
7259916-1	Bucks	4	520	5/24/24 4:37	5/24/24 13:17
7263592-1	Lehigh	393	2045	5/23/24 8:25	5/24/24 18:30
7263606-1	Lehigh	509	490	5/23/24 8:24	5/23/24 16:34
7263607-1	Lehigh	770	738	5/23/24 8:28	5/23/24 20:46
7264489-1	Lehigh	248	613	5/23/24 8:25	5/23/24 18:38
7264728-1	Schuylkill	22	828	5/23/24 7:27	5/23/24 21:15
7264763-1	Schuylkill	2	959	5/23/24 5:29	5/23/24 21:28
7264772-1	Schuylkill	16	486	5/23/24 7:52	5/23/24 15:58
7265124-1	Northampton	8	937	5/23/24 11:38	5/24/24 3:15
7265217-1	Northampton	102	659	5/23/24 8:36	5/23/24 19:35
7265272-1	Lehigh	9	400	5/23/24 8:18	5/23/24 14:58
7265312-1	Lehigh	197	598	5/23/24 8:25	5/23/24 18:23
7265321-1	Northampton	11	484	5/23/24 8:36	5/23/24 16:40

(f) Reason for the interruption or outages:

The interruptions were caused by a thunder and lightning event that affected all regions of PPL Electric’s service territory beginning on Thursday, May 23, 2024. Additionally, an EF-1 tornado affected the Company’s Central region.

(g) Projected time of restoration:

Restoration was projected to be completed by 1830 on Friday, May 24, 2024.

- (h) The number of utility workers, contract workers and workers received as mutual aid assigned specifically to the repair work by general function, that is linemen, troublemen, tree crew and the like:

Company	# Workers	Function
PPL Electric Utilities	140	Office Personnel
PPL Electric Utilities	177	D Line
PPL Electric Utilities	4	Electricians
PPL Electric Utilities	17	Substation Electrician
PPL Electric Utilities	23	Foremen
Hydaker Wheatlake	26	Mutual Assistance
Valiant	21	Mutual Assistance
Premium Utility	34	Mutual Assistance
CSR NorthEast	4	Mutual Assistance
CSR Riggs	39	Mutual Assistance
Vision	32	Mutual Assistance
IB Abel	46	Electrical Contract Crews
Infrasource	64	Electrical Contract Crews
O'Connell Electric	16	Electrical Contract Crews
Primoris Electric, Inc	34	Electrical Contract Crews
Haugland	27	Electrical Contract Crews
Various	111	Tree Contract Crews

- (i) The date and time of the first information of service interruption:
The initial service interruption occurred at approximately 0500 on Thursday, May 23, 2024.
- (j) The date and time that repair crews were assembled:
PPL repair crews were first assembled at 0700 on May 23, 2024.
- (k) The actual time that service was restored to the last affected customer:
All customers were restored by 1830 on Friday, May 24, 2024.

- (l) A general description of the physical damage sustained by the utility facilities as a result of the interruption/outage:

The damage to PPL Electric facilities included trees or limbs on conductor, downed wires, and broken equipment.

Approximate materials used to complete restoration included:

- Wire and Cable – 15,000 feet
- Arrestors – 21
- Crossarms – 26
- Wood Poles – 14
- Transformers – 33
- Cutouts – 43

- (m) If the interruption / outage event was weather-related, the utility's weather reports, outlooks, or scenarios for the day before and the day of the interruption / outage event:

As of Wednesday, May 22, PPL Electric's weather outlook for Thursday, May 23 called for thunder and lightning storms with heavy rain and wind gusts of 40-50 MPH, with possible isolated peaks to 60 MPH, during the evening of the 23rd and the early morning hours of the 24th.

Actual conditions were generally somewhat milder than forecast in most locations. Storm cell coverage was less extensive than forecast. Isolated areas did see forecast conditions and an EF-1 tornado touched down in Mahanoy City in PPL Electric's Central region.

- (n) If the interruption / outage event caused approximate outages that exceed 10% or more of customers in the utility's entire service territory, rank the event in terms of the number and duration of outages and provide 2 comparable events, including the number and duration of outages for those comparable events:

This event did not impact more than 10% of PPL Electric customers.

Event and Rank	Event Date	Number of Outages	Duration of Outages

Remarks:
