

May 3, 2024

VIA ELECTRONIC FILING

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

***Re: Completed Restoration of Momentary and Sustained Interruptions –
FirstEnergy Pennsylvania Electric Company; Docket No. M-2021-3023564***

Dear Secretary Chiavetta:

Pursuant to 52 Pa. Code § 67.1, FirstEnergy Pennsylvania Electric Company on behalf of West Penn Rate District (“West Penn”) submits written notification of completed restoration efforts following storm conditions that began on April 17, 2024 that caused multiple service interruptions in the West Penn service territory.

Attached please find the details relative to the impact of this recent outage event and the restoration activities that took place. It should be noted that the review and approval process of this outage information is still in progress at the time of filing this report and as such, all outage information contained in this report should be considered preliminary.

If you have any questions, please contact me at (610) 212-8331.

Sincerely,



Darsh Singh

Enclosures

- c: Dan Searfoorce - PaPUC Bureau of Technical Utility Services (via electronic mail)
Derek Ruhl - PaPUC Bureau of Technical Utility Services (via electronic mail)
John Van Zant - PaPUC Bureau of Technical Utility Services (via electronic mail)

County	Outages	Outage Cases	Trouble Cases
Allegheny	3,134	18	37
Armstrong	4,030	41	52
Butler	2,283	38	62
Clarion	204	3	3
Elk	9	1	3
Fayette	1,179	22	37
Franklin	228	3	7
Greene	269	12	9
McKean	264	1	1
Washington	2,903	42	34
Westmoreland	6,745	70	64
Total	21,248	251	309

(d) Approximate number of outage cases exceeding 6 or more hours in duration: 128

(e) A listing of each outage case exceeding 6 or more hours in duration:
See Attachment A.

(f) Reason for the interruption or outages: During the afternoon of Wednesday, April 17, 2024, storms developed along a cold front that moved through Pennsylvania, including the West Penn service territory. The storms produced precipitation, lightning, and wind gusts of approximately 47 miles per hour. See Attachment B for the maximum wind gusts and total precipitation for April 17, 2024.

Damage as a result of the high winds included downed trees and power lines, damaged and broken poles and crossarms, and damaged equipment. Arnold, Butler and Charleroi were the hardest hit areas. Approximately 55.4% of the total outages that occurred were tree related.

Preliminary data indicates the reliability impact of the storm was 10.0 minutes of SAIDI, 0.029 of SAIFI, and an overall storm CAIDI of 343.2 minutes.

(g) Projected time of restoration: It was estimated that the majority of customers would be restored by April 18, 2024 at 2300. See Attachment C for the restoration curve and Attachment D for the order restoration graphs.

(h) The number of utility workers, contract workers, and workers received as mutual aid assigned specifically to the repair work by general function:

Company	# of Workers	General Function
West Penn	124	Line Workers
Penn Power Rate District	10	Line Workers
Penelec Rate District	6	Line Workers
Subtotal	140	Line Workers
J.W. Didado	6	Line Contractors
NG Gilbert	9	Line Contractors
Thompson Electric	5	Line Contractors
Subtotal	20	Line Contractors
Asplundh Tree Expert, LLC	54	Forestry Contractors
Davey Tree Service	20	Forestry Contractors
Penn Line Services, Inc.	34	Forestry Contractors
Townsend	3	Forestry Contractors
Subtotal	111	Forestry Contractors
FirstEnergy Service Company	12	Forestry Support
Subtotal	12	Forestry Support
West Penn	4	Hazard Responders
Subtotal	4	Hazard Responders
West Penn	15	Substation/Network
Subtotal	15	Substation/Network
West Penn	6	Supporting Roles
FirstEnergy Service Company	6	Supporting Roles
Penelec Rate District	1	Supporting Roles
Subtotal	13	Supporting Roles
Grand Total	315	

- (i) The date and time of the first information of a service interruption: April 17, 2024 at 1709.
- (j) The date and time that repair crews were assembled: April 17, 2024 at 1500.
- (k) The actual time that service was restored to the last affected customer: April 19, 2024 at 1826.
- (l) A general description of the physical damage sustained by the utility facilities as a result of the interruption/outage:

Equipment	Number
Primary Spans Down	111
Secondary Spans Down	9
Crossarms Replaced	71
Cutouts Replaced	13
Poles Replaced	34
Transformers Replaced	28
Wire & Cable Replaced (feet)	12,059

(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:

See Attachment E for the weather forecast reports.

(n) If the interruption/outage event caused approximate outages that exceed 10% or more of the number 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.

The outages that were a result of this event did not exceed 10% or more of customers in the utility's entire service territory.

Remarks: The storm statistics contained in this report are preliminary. The review and approval of the storm statistics were still in progress as of the time this report was filed.

Attachment A: A listing of each outage case exceeding six or more hours in duration, including the following information¹:

Order #	Approximate Location (County)	Total Number of Customers Affected	Duration of the Outage (minutes)	Initial Date and Time of the Outage	Restoration Date and Time
566762	Armstrong	7	2,787	04/17/2024 1959	04/19/2024 1826
567883	Armstrong	2	2,700	04/17/2024 2040	04/19/2024 1740
564132	Armstrong	2	2,606	04/17/2024 2034	04/19/2024 1600
566161	Armstrong	1	2,575	04/17/2024 2011	04/19/2024 1506
566594	Allegheny	5	2,362	04/17/2024 1953	04/19/2024 1115
564606	Armstrong	3	2,177	04/17/2024 2016	04/19/2024 0833
565258	Armstrong	3	1,928	04/17/2024 2004	04/19/2024 0412
563678	Butler	2	1,737	04/17/2024 1958	04/19/2024 0055
566312	Allegheny	2	1,671	04/18/2024 0709	04/19/2024 1100
563878	Armstrong	4	1,608	04/17/2024 2016	04/18/2024 2304
566762	Armstrong	18	1,496	04/17/2024 1959	04/18/2024 2055
563896	Armstrong	5	1,438	04/17/2024 2016	04/18/2024 2014
565808	Butler	4	1,433	04/17/2024 1957	04/18/2024 1950
565550	Butler	3	1,406	04/17/2024 1957	04/18/2024 1923
565765	Butler	9	1,368	04/17/2024 1957	04/18/2024 1845
565719	Armstrong	73	1,342	04/17/2024 2005	04/18/2024 1827
565607	Butler	8	1,318	04/17/2024 1957	04/18/2024 1755
565630	Butler	19	1,315	04/17/2024 2005	04/18/2024 1800
566045	Butler	20	1,308	04/17/2024 1955	04/18/2024 1743
565609	Armstrong	114	1,297	04/17/2024 2017	04/18/2024 1754
564109	Fayette	15	1,287	04/17/2024 2033	04/18/2024 1800
563989	Fayette	104	1,277	04/17/2024 2025	04/18/2024 1742
563775	Armstrong	18	1,261	04/17/2024 2009	04/18/2024 1710
563772	Westmoreland	17	1,239	04/17/2024 2009	04/18/2024 1648
565164	Allegheny	13	1,210	04/17/2024 2200	04/18/2024 1810
565790	Butler	2	1,202	04/17/2024 1958	04/18/2024 1600
565217	Washington	4	1,199	04/17/2024 2216	04/18/2024 1815
563684	Butler	2	1,191	04/17/2024 1959	04/18/2024 1550
565670	Westmoreland	41	1,173	04/18/2024 0058	04/18/2024 2031
563314	Fayette	13	1,163	04/17/2024 1709	04/18/2024 1232
563832	Armstrong	205	1,155	04/17/2024 2014	04/18/2024 1529

¹ When applicable, the individual restoration steps for an order are provided for those customers that were out of service for 6 hours or more.

West Penn Rate District Storm Report

Order #	Approximate Location (County)	Total Number of Customers Affected	Duration of the Outage (minutes)	Initial Date and Time of the Outage	Restoration Date and Time
567047	Fayette	2	1,140	04/17/2024 2042	04/18/2024 1542
564276	Fayette	1	1,114	04/17/2024 2045	04/18/2024 1519
564583	Fayette	4	1,108	04/17/2024 2107	04/18/2024 1535
567005	Armstrong	2	1,093	04/18/2024 1232	04/19/2024 0645
564519	Butler	22	1,089	04/17/2024 2105	04/18/2024 1514
566135	Butler	4	1,087	04/17/2024 2009	04/18/2024 1416
566132	Butler	140	1,060	04/17/2024 1955	04/18/2024 1335
564711	Fayette	28	1,038	04/17/2024 1747	04/18/2024 1105
565712	Butler	30	1,030	04/17/2024 1950	04/18/2024 1300
567456	Allegheny	1	1,028	04/18/2024 1854	04/19/2024 1202
565683	Washington	2	1,025	04/17/2024 2021	04/18/2024 1326
564989	Fayette	1	1,013	04/17/2024 2154	04/18/2024 1447
564113	Greene	53	1,012	04/17/2024 2033	04/18/2024 1325
564419	Fayette	25	1,011	04/17/2024 2056	04/18/2024 1347
564042	Washington	2	1,000	04/17/2024 2029	04/18/2024 1309
565719	Armstrong	8	997	04/18/2024 0150	04/18/2024 1827
565874	Westmoreland	609	982	04/17/2024 2027	04/18/2024 1249
566162	Butler	29	975	04/17/2024 1957	04/18/2024 1212
563704	Butler	14	971	04/17/2024 2001	04/18/2024 1212
564269	Westmoreland	1	971	04/17/2024 2044	04/18/2024 1255
566829	Westmoreland	4	954	04/17/2024 2114	04/18/2024 1308
566634	Washington	15	953	04/17/2024 2039	04/18/2024 1232
565731	Armstrong	12	952	04/17/2024 2013	04/18/2024 1205
565925	Washington	9	939	04/17/2024 1941	04/18/2024 1120
565468	Allegheny	24	925	04/17/2024 2012	04/18/2024 1137
563995	Westmoreland	16	920	04/17/2024 2025	04/18/2024 1145
564437	Washington	11	918	04/17/2024 2057	04/18/2024 1215
563925	Washington	46	908	04/17/2024 2020	04/18/2024 1128
564047	Greene	17	907	04/17/2024 2029	04/18/2024 1136
565569	Westmoreland	1	905	04/17/2024 2112	04/18/2024 1217
564211	Westmoreland	14	903	04/17/2024 2040	04/18/2024 1143
563833	Westmoreland	22	887	04/17/2024 2014	04/18/2024 1101
565601	Butler	43	886	04/17/2024 1947	04/18/2024 1033
563655	Armstrong	6	881	04/17/2024 1955	04/18/2024 1036
563944	Washington	13	861	04/17/2024 2021	04/18/2024 1042
564479	Allegheny	10	860	04/17/2024 2101	04/18/2024 1121

West Penn Rate District Storm Report

Order #	Approximate Location (County)	Total Number of Customers Affected	Duration of the Outage (minutes)	Initial Date and Time of the Outage	Restoration Date and Time
567003	Washington	19	853	04/17/2024 2242	04/18/2024 1255
564197	Washington	36	846	04/17/2024 2039	04/18/2024 1045
563659	Butler	20	844	04/17/2024 1956	04/18/2024 1000
563934	Washington	11	828	04/17/2024 2020	04/18/2024 1008
563652	Allegheny	8	807	04/17/2024 1953	04/18/2024 0920
564582	Washington	1	803	04/17/2024 2107	04/18/2024 1030
565655	Greene	34	792	04/17/2024 2048	04/18/2024 1000
565004	Westmoreland	71	789	04/17/2024 2156	04/18/2024 1105
565555	Westmoreland	361	788	04/17/2024 2026	04/18/2024 0934
565274	Armstrong	46	782	04/17/2024 2154	04/18/2024 1056
565667	Westmoreland	7	778	04/17/2024 2050	04/18/2024 0948
564521	Washington	134	777	04/17/2024 2055	04/18/2024 0952
566608	Greene	2	766	04/17/2024 2050	04/18/2024 0936
563877	Washington	35	764	04/17/2024 2016	04/18/2024 0900
563981	Washington	237	761	04/17/2024 2024	04/18/2024 0905
563727	Butler	9	750	04/17/2024 2004	04/18/2024 0834
564196	Washington	16	746	04/17/2024 2039	04/18/2024 0905
564376	Washington	59	735	04/17/2024 2055	04/18/2024 0910
563663	Washington	3	719	04/17/2024 1957	04/18/2024 0756
567559	Westmoreland	5	692	04/18/2024 2055	04/19/2024 0827
564286	Westmoreland	24	690	04/17/2024 2046	04/18/2024 0816
565988	Butler	1	686	04/18/2024 0204	04/18/2024 1330
566233	Westmoreland	2	685	04/17/2024 2040	04/18/2024 0805
565112	Westmoreland	3	678	04/17/2024 2112	04/18/2024 0830
565541	Westmoreland	184	678	04/17/2024 2024	04/18/2024 0742
566389	Washington	42	673	04/17/2024 2237	04/18/2024 0950
566311	Greene	3	664	04/18/2024 0708	04/18/2024 1812
564122	Westmoreland	2	656	04/17/2024 2034	04/18/2024 0730
566614	Butler	8	635	04/18/2024 0401	04/18/2024 1436
564991	Armstrong	1	628	04/17/2024 2154	04/18/2024 0822
565735	Greene	4	602	04/18/2024 0130	04/18/2024 1132
563661	Butler	9	595	04/17/2024 1957	04/18/2024 0552
566065	Armstrong	31	591	04/18/2024 0434	04/18/2024 1425
564226	Westmoreland	66	585	04/17/2024 2040	04/18/2024 0625
563804	Armstrong	56	579	04/17/2024 2011	04/18/2024 0550
563658	Butler	772	563	04/17/2024 1955	04/18/2024 0518

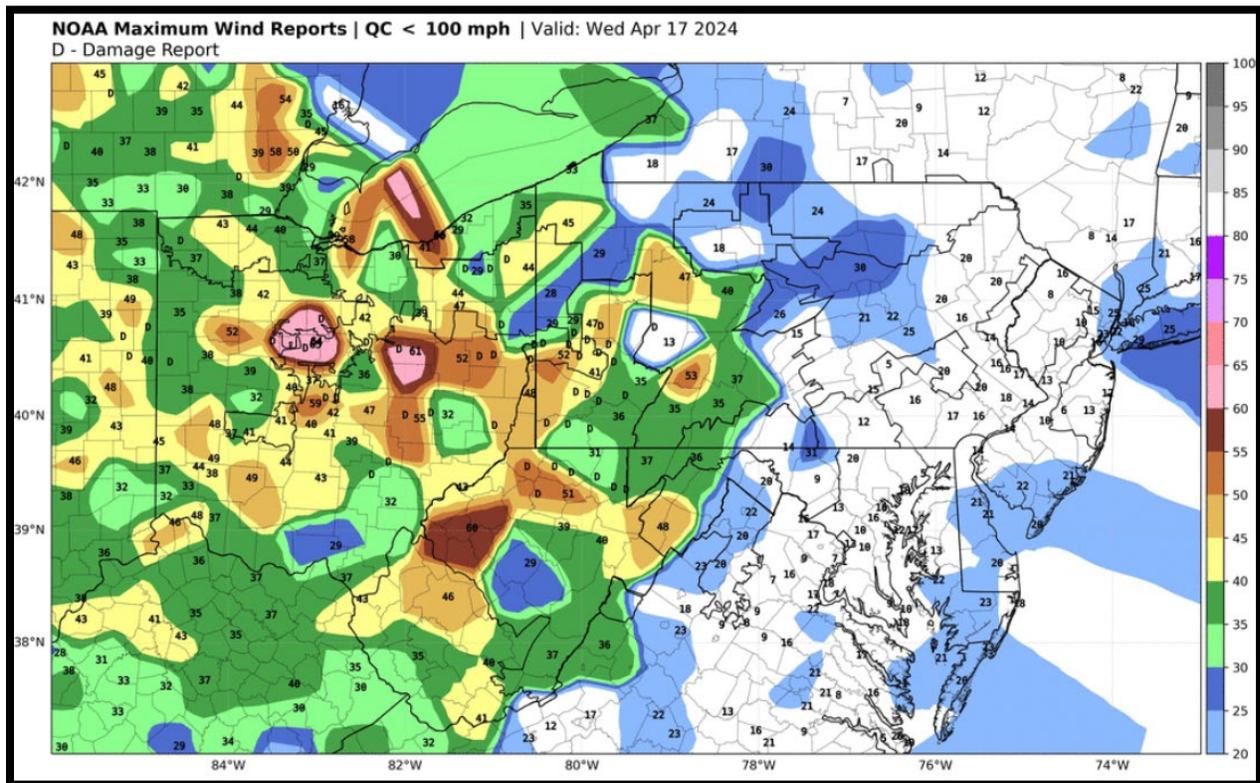
West Penn Rate District Storm Report

Order #	Approximate Location (County)	Total Number of Customers Affected	Duration of the Outage (minutes)	Initial Date and Time of the Outage	Restoration Date and Time
565647	Washington	5	550	04/17/2024 2317	04/18/2024 0827
566160	Allegheny	23	546	04/18/2024 0544	04/18/2024 1450
566319	Clarion	87	544	04/18/2024 0121	04/18/2024 1025
564603	Butler	6	541	04/17/2024 1959	04/18/2024 0500
564255	Greene	11	528	04/17/2024 2042	04/18/2024 0530
565783	Armstrong	69	510	04/17/2024 2005	04/18/2024 0435
566699	Washington	2	509	04/18/2024 0559	04/18/2024 1428
565635	Butler	102	507	04/18/2024 0027	04/18/2024 0854
566148	Washington	2	493	04/18/2024 0532	04/18/2024 1345
566355	Westmoreland	1	487	04/18/2024 0733	04/18/2024 1540
565827	Westmoreland	1	478	04/18/2024 0217	04/18/2024 1015
563623	Washington	12	465	04/17/2024 1941	04/18/2024 0326
565917	Armstrong	29	435	04/18/2024 0325	04/18/2024 1040
566563	Allegheny	8	435	04/18/2024 0915	04/18/2024 1630
565874	Westmoreland	127	432	04/17/2024 2027	04/18/2024 0339
564072	Greene	47	427	04/17/2024 2031	04/18/2024 0338
563665	Butler	205	423	04/17/2024 1957	04/18/2024 0300
565888	Westmoreland	2	412	04/18/2024 0258	04/18/2024 0950
565765	Butler	287	408	04/17/2024 1957	04/18/2024 0245
565473	Westmoreland	162	399	04/17/2024 2039	04/18/2024 0318
564049	Armstrong	96	390	04/17/2024 2030	04/18/2024 0300
563989	Fayette	31	380	04/17/2024 2025	04/18/2024 0245
565782	Westmoreland	19	372	04/18/2024 0153	04/18/2024 0805
567161	Butler	2	368	04/18/2024 1417	04/18/2024 2025
566477	Westmoreland	3	361	04/18/2024 0833	04/18/2024 1434

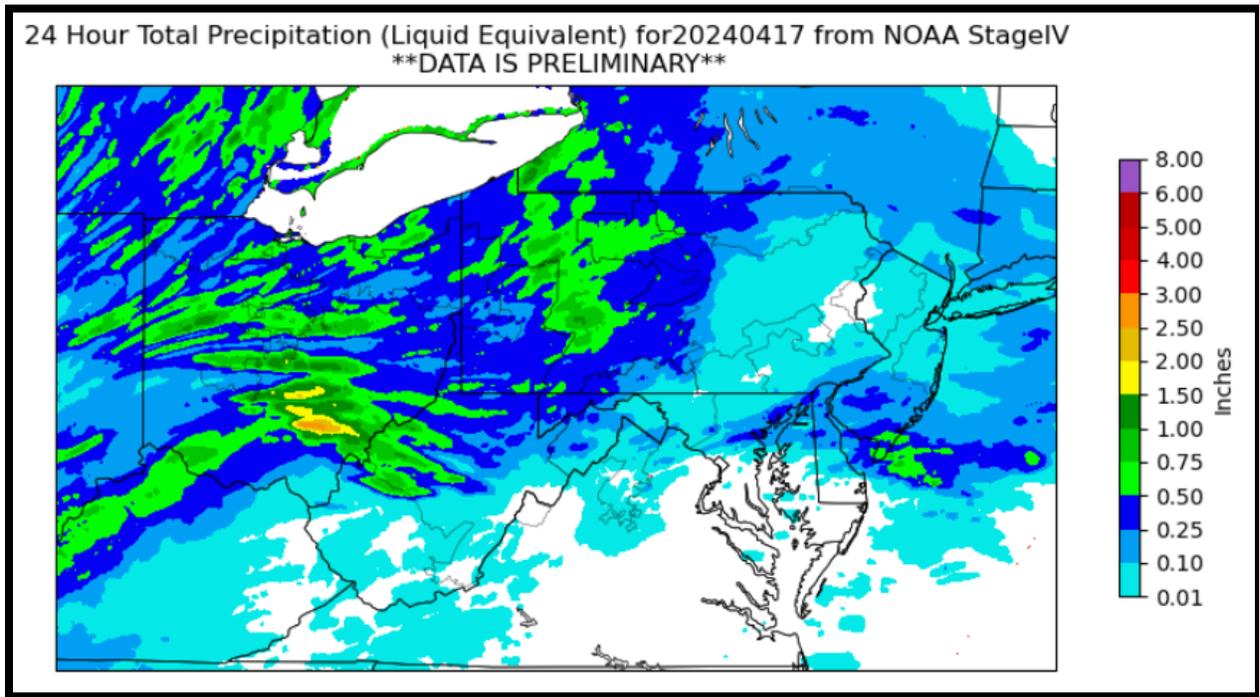
Attachment B: Wind and Precipitation Reports

Wind and Precipitation Reports: Graphic 1 illustrates the maximum wind gusts in the West Penn service territory on April 17, 2024. Graphic 2 illustrates the 24-Hour Total Precipitation in the West Penn service territory on April 17, 2024. The graphics are from the National Oceanic and Atmospheric Administration (“NOAA”).

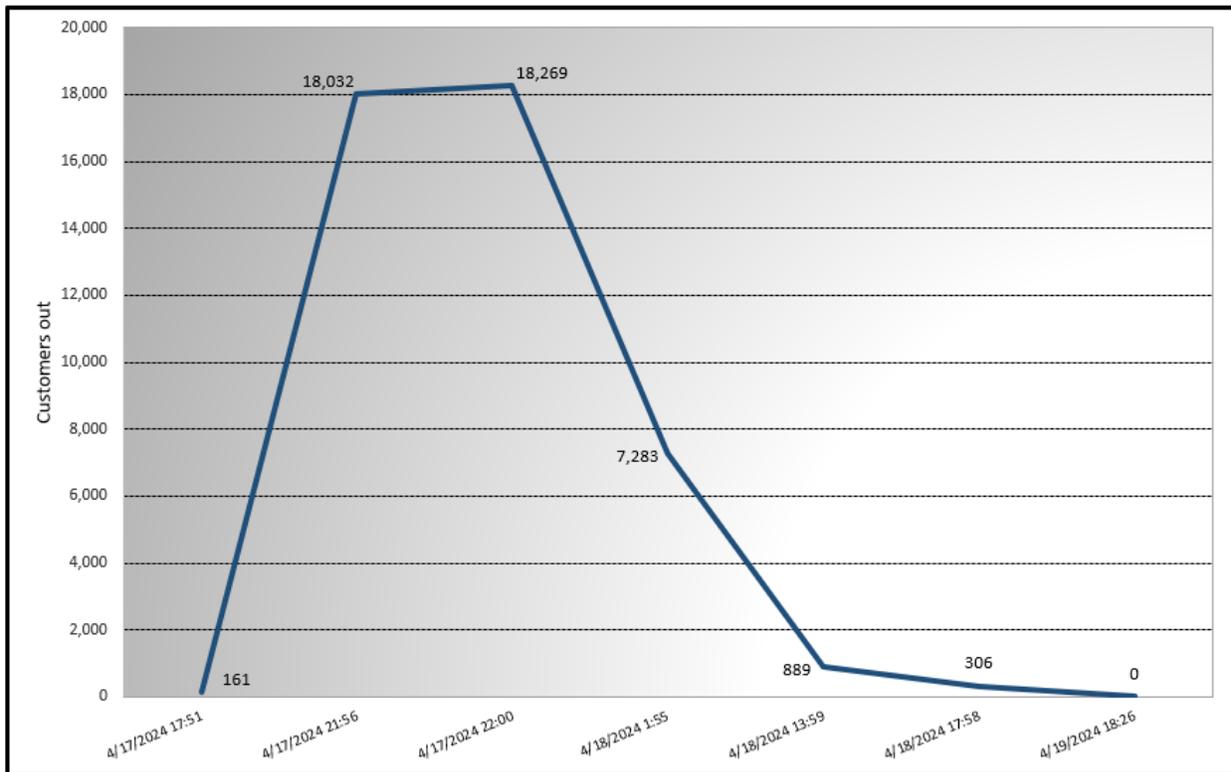
Graphic 1: Maximum Wind Gusts: Wednesday, April 17, 2024



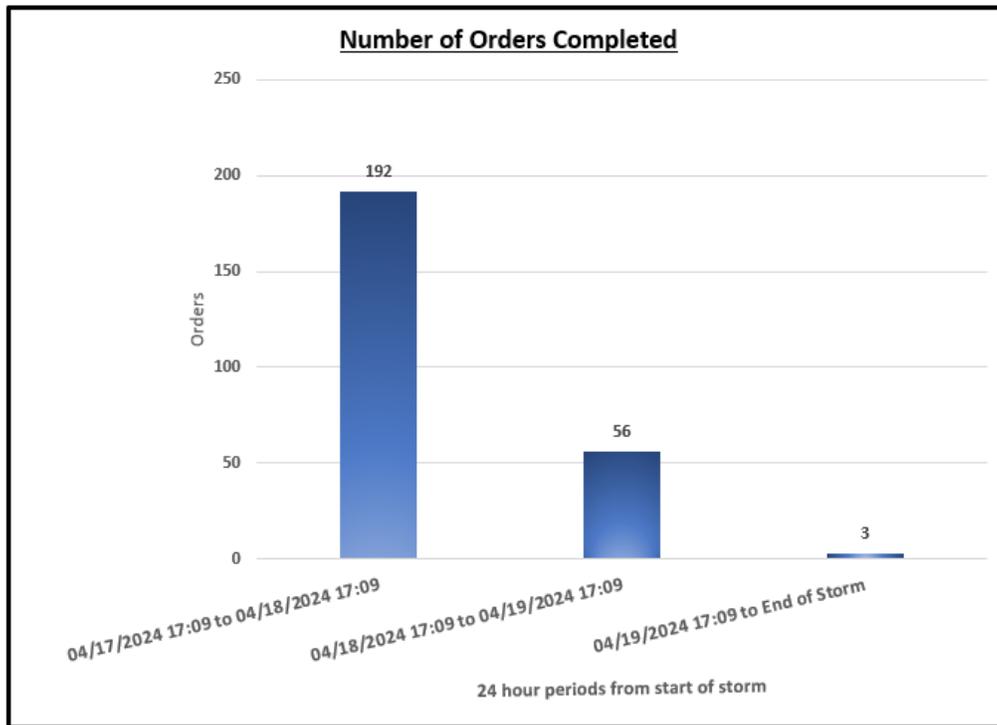
Graphic 2: 24-Hour Total Precipitation: Wednesday, April 17, 2024



Attachment C: Restoration Curve



Attachment D: Order Restoration Graphs



Attachment E: Meteorologist Reports

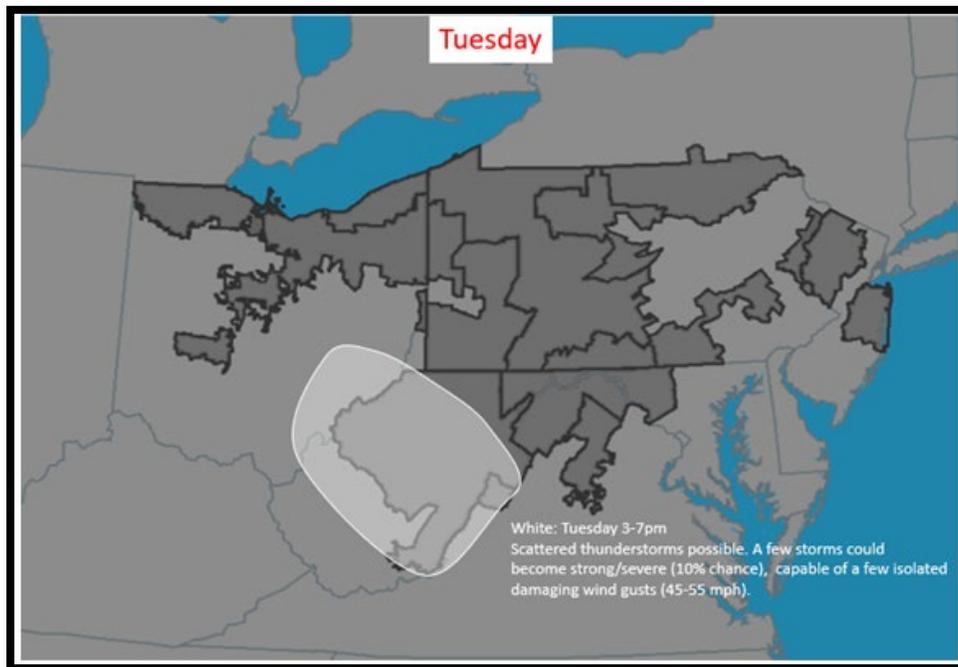
Tuesday April 16, 2024 @ 0921

New Issuance:

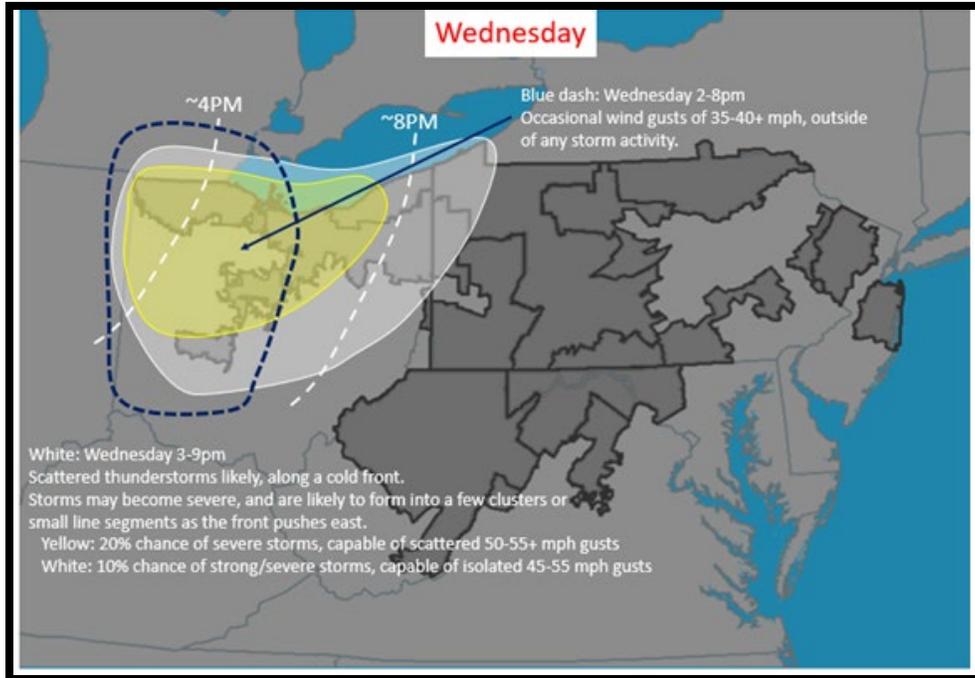
Tuesday: another one-time issuance for potential scattered thunderstorm activity across areas of WV later this afternoon. A few damaging wind gusts will be possible with any storms throughout the late afternoon and evening.

Wednesday: Storm development is expected along a cold front as it pushes through western FE. Damaging gusts appear most likely across western and central OH in the late afternoon, with a few isolated damaging gusts remaining possible in eastern OH and western PA into the early evening. Note: occasional wind gusts of 35-40+ mph will be possible in areas of western FE during the afternoon, outside of any storm development.

See graphics below for further information.



West Penn Rate District Storm Report



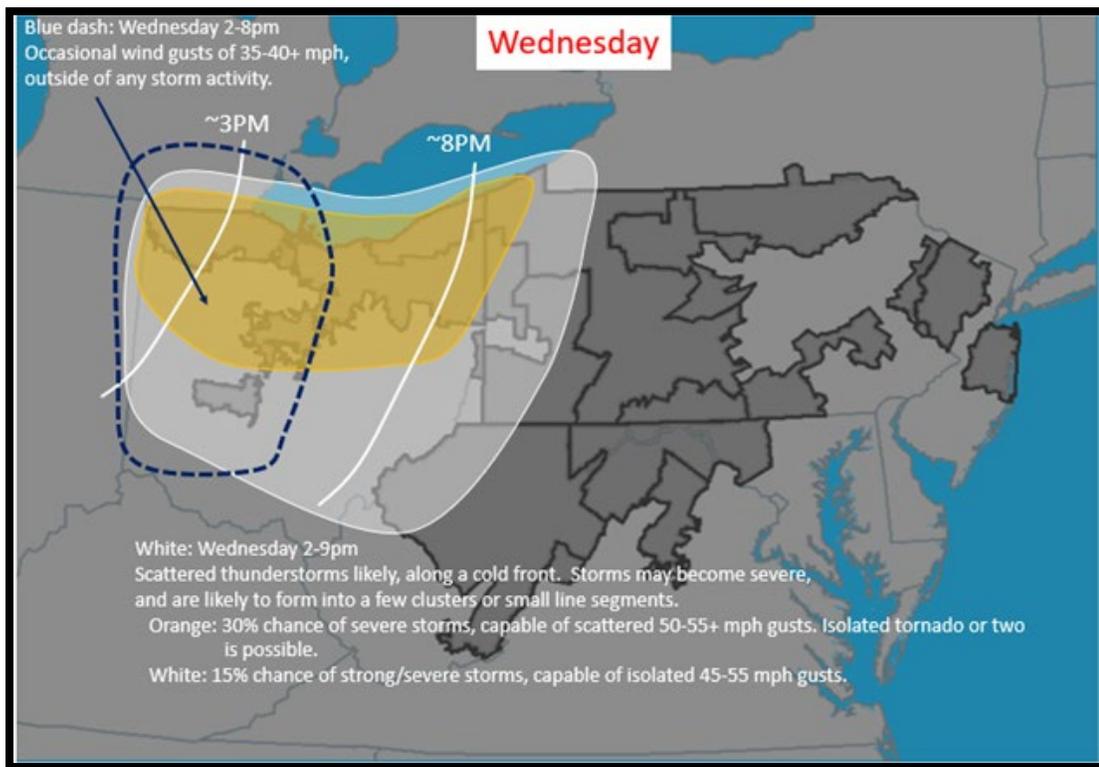
Wednesday, April 17, 2024 @ 0922

Update:

--Increase in risk of severe storms capable of damaging wind gusts, especially across areas of northern OH and into far western PA this afternoon and evening.

--Adjustments to areas storms are expected, to highlight areas where storm development/damaging winds are most likely.

See graphic below for further information.



Wednesday, April 17, 2024 @ 1224

Update:

- Slight adjustments to the areas of highest storm/damaging gust risk:
 - Added mention of potential for isolated 60+ mph gusts
 - Slightly expanded areas farther east
- Slight adjustments to expected timing, given storms have begun to develop across Indiana
- Added mention of a low risk of strong storms/isolated damaging gusts in areas of eastern PA, eastern WV and MD later this evening

See graphic below for further information.

Last Scheduled Update

