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March 14, 2024

VIA E-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 Penelec Rate District (“Penelec”) submits written notification of completed restoration efforts following storm conditions that began on February 28, 2024 that caused multiple service interruptions in the Penelec 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)
Harry Bidelspach – PaPUC Bureau of Technical Utility Services (via electronic mail)

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

1. Reporting Utility: FirstEnergy Pennsylvania Electric Company ("FE PA")
on behalf of Penelec Rate District ("Penelec")
Address: 800 Cabin Hill Drive
Greensburg, PA 15601

2. Name and title of person making report:

Scott Wyman President, Pennsylvania Operations
(Name) *(Title)*

3. Telephone number: (814) 449-9308
(Telephone Number)

4. Date and time report was made to Commission:

February 28, 2024 2031
(Date) *(Time)*

5. Interruption or Outage:

(a) Number of customers affected: 29,785 (Represents 5.1% of Penelec's total customers).

(b) Approximate number of outage cases and trouble cases for each county affected during event: See response to 5(c).

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

County	Outages	Outage Cases	Trouble Cases
Bedford	1,094	10	5
Blair	5,180	36	31
Bradford	528	21	36
Cambria	77	10	16
Centre	1,448	3	1
Clarion	417	3	4
Clearfield	2,321	21	17
Crawford	107	15	7
Cumberland	262	7	6
Erie	2,262	44	53
Forest	91	3	4
Franklin	113	2	5
Huntingdon	268	3	9
Indiana	1,658	11	4
Jefferson	2,023	22	27
McKean	417	10	10
Mifflin	144	6	5
Potter	517	4	4
Somerset	1,053	24	27
Sullivan	664	3	1
Susquehanna	491	14	14
Tioga	4,908	29	10
Venango	852	20	6
Warren	2,340	16	13
Wayne	522	11	8
Wyoming	28	2	1
Total	29,785	350	324

(d) Approximate number of outage cases exceeding 6 or more hours in duration: 83

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

(f) Reason for the interruption or outages: Beginning in the early morning hours of Wednesday, February 28, 2024, a winter storm system moved through Pennsylvania including the Penelec service territory. The system produced heavy precipitation and high winds with wind gusts of approximately 58 miles per hour.

Windy conditions continued on Thursday, February 29, 2024 with wind gusts of approximately 45 miles per hour. See Attachment B for the maximum wind gusts for February 28 and February 29, 2024, and the 24-hour total precipitation for February 28, 2024.

Damage as a result of the high winds included downed trees and wires, damaged or broken poles and crossarms, and damaged transformers. High winds affected restoration efforts as crews cannot safely handle materials if winds exceed 30 mph or operate bucket trucks if winds exceed 40 mph. Approximately 63.4% of the total outages that occurred were tree, wind, and lightning related.

Preliminary data indicates the reliability impact of the storm was 8.5 minutes of SAIDI, 0.05 of SAIFI, and an overall storm CAIDI of 166.9 minutes.

- (g) Projected time of restoration: It was estimated that the majority of customers would be restored by 1800 on Thursday, February 29, 2024.

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
Penelec	161	Line Workers
Subtotal	161	Line Workers
Henkels & McCoy	5	Line Contractor
Subtotal	5	Line Contractor
Pennline Tree Service	37	Forestry Contractor
Lewis Tree Service	7	Forestry Contractor
Hazlett Tree Service	7	Forestry Contractor
Davey Tree Expert	15	Forestry Contractor
Subtotal	66	Forestry Contractor
Penelec	40	Supporting Roles
Subtotal	40	Supporting Roles
Grand Total	272	

- (i) The date and time of the first information of a service interruption: February 28, 2024 at 0222
- (j) The date and time that repair crews were assembled: February 27, 2024 at 1400.
- (k) The actual time that service was restored to the last affected customer: February 29, 2024 at 1830.

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

Equipment	Number
Primary Spans	112
Secondary Spans	47
Crossarms Replaced	30
Cutouts Replaced	44
Poles Replaced	28
Transformers Replaced	14
Wire & Cable Replaced (feet)	9,277

- (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
926939	McKean	1	1,548	02/28/2024 1612	02/29/2024 1800
926716	Clearfield	3	1,524	02/28/2024 1607	02/29/2024 1731
925956	Erie	15	1,400	02/28/2024 1545	02/29/2024 1505
934007	Venango	1	1,343	02/28/2024 1833	02/29/2024 1656
927321	Clearfield	8	1,329	02/28/2024 2009	02/29/2024 1818
927520	Indiana	2	1,314	02/28/2024 2020	02/29/2024 1814
927321	Clearfield	2	1,297	02/28/2024 2009	02/29/2024 1746
926039	Clearfield	3	1,243	02/28/2024 1618	02/29/2024 1301
925763	McKean	19	1,230	02/28/2024 1450	02/29/2024 1120
926834	McKean	6	1,189	02/28/2024 1921	02/29/2024 1510
926951	Susquehanna	1	1,133	02/28/2024 1938	02/29/2024 1431
927906	Clearfield	3	1,094	02/28/2024 2041	02/29/2024 1455
926667	Bradford	2	1,093	02/28/2024 1847	02/29/2024 1300
927227	Bradford	3	1,067	02/28/2024 2003	02/29/2024 1350
935409	Bradford	12	1,061	02/28/2024 1738	02/29/2024 1119
936244	Wayne	147	1,060	02/28/2024 2201	02/29/2024 1541
929989	McKean	165	1,054	02/28/2024 1841	02/29/2024 1215
926630	Bradford	7	1,016	02/28/2024 1616	02/29/2024 0912
934007	Venango	17	1,001	02/28/2024 1833	02/29/2024 1114
932848	Susquehanna	24	994	02/29/2024 0152	02/29/2024 1826
926433	Tioga	8	993	02/28/2024 1747	02/29/2024 1020
928557	Somerset	4	960	02/28/2024 2108	02/29/2024 1308
936925	McKean	4	959	02/28/2024 2257	02/29/2024 1456
935370	Wayne	7	948	02/28/2024 1946	02/29/2024 1134
926376	Sullivan	23	938	02/28/2024 1738	02/29/2024 0916
928372	Jefferson	1	925	02/28/2024 1927	02/29/2024 1052
927279	Crawford	10	915	02/28/2024 2006	02/29/2024 1121
927251	Blair	46	901	02/28/2024 2004	02/29/2024 1105
927251	Blair	3	896	02/28/2024 2004	02/29/2024 1100
927251	Blair	3	896	02/28/2024 2004	02/29/2024 1100
926524	Crawford	1	896	02/28/2024 1819	02/29/2024 0915
929384	Bradford	1	865	02/28/2024 2135	02/29/2024 1200

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.

Penelec 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
928994	Blair	11	835	02/28/2024 2121	02/29/2024 1116
932391	Susquehanna	10	819	02/29/2024 0011	02/29/2024 1350
927654	Jefferson	13	818	02/28/2024 2027	02/29/2024 1005
926107	McKean	1	788	02/28/2024 1637	02/29/2024 0545
934479	McKean	3	786	02/28/2024 1849	02/29/2024 0755
926616	Venango	45	727	02/28/2024 1833	02/29/2024 0640
927474	Forest	1	718	02/28/2024 2017	02/29/2024 0815
932282	Wayne	79	713	02/28/2024 2201	02/29/2024 0954
933472	Blair	6	698	02/28/2024 1649	02/29/2024 0427
933480	Blair	11	692	02/28/2024 1649	02/29/2024 0421
931829	Potter	24	685	02/28/2024 2301	02/29/2024 1026
926031	Venango	100	680	02/28/2024 1617	02/29/2024 0337
933493	Blair	48	669	02/29/2024 0127	02/29/2024 1236
932490	Blair	27	663	02/28/2024 1649	02/29/2024 0352
925802	Venango	26	663	02/28/2024 1506	02/29/2024 0209
934414	Susquehanna	1	653	02/29/2024 0737	02/29/2024 1830
934459	Venango	1	653	02/28/2024 2359	02/29/2024 1052
928177	Blair	3	636	02/28/2024 1649	02/29/2024 0325
931641	Jefferson	7	615	02/28/2024 2246	02/29/2024 0901
933953	Susquehanna	6	600	02/29/2024 0631	02/29/2024 1631
934934	Centre	20	588	02/28/2024 2332	02/29/2024 0920
926319	Venango	126	580	02/28/2024 1314	02/28/2024 2254
926319	Venango	88	580	02/28/2024 1314	02/28/2024 2254
926031	Venango	1	575	02/28/2024 1830	02/29/2024 0405
926668	Blair	102	560	02/28/2024 1610	02/29/2024 0130
926031	Venango	36	547	02/28/2024 1830	02/29/2024 0337
932474	Blair	314	542	02/28/2024 1649	02/29/2024 0151
925786	Clearfield	1	526	02/28/2024 1459	02/28/2024 2345
932624	Susquehanna	15	502	02/29/2024 0102	02/29/2024 0924
924795	Huntingdon	158	500	02/28/2024 0425	02/28/2024 1245
931923	Blair	259	488	02/28/2024 1649	02/29/2024 0057
931923	Blair	364	479	02/28/2024 1649	02/29/2024 0048
931923	Blair	140	473	02/28/2024 1649	02/29/2024 0042
931923	Blair	147	471	02/28/2024 1649	02/29/2024 0040
926001	Somerset	13	465	02/28/2024 1605	02/28/2024 2350
932327	Venango	80	464	02/28/2024 2359	02/29/2024 0743
935217	Erie	23	456	02/29/2024 0952	02/29/2024 1728
934527	Wayne	5	455	02/29/2024 0752	02/29/2024 1527

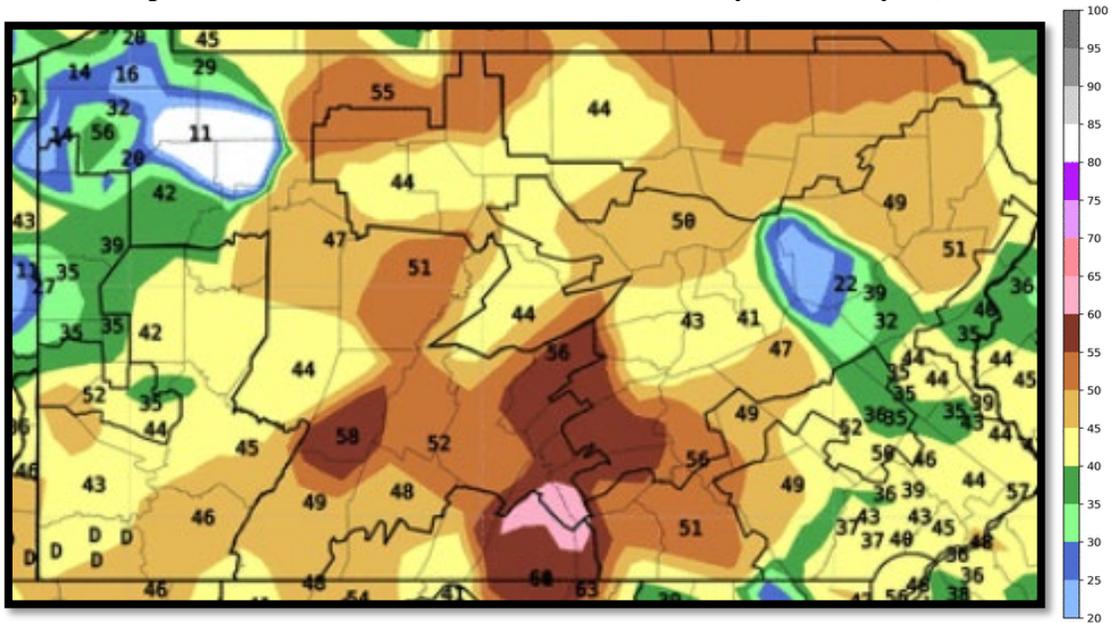
Penelec Storm Report

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
926506	Warren	71	451	02/28/2024 1812	02/29/2024 0143
933812	Wayne	28	439	02/29/2024 0600	02/29/2024 1319
926817	Somerset	5	437	02/28/2024 1630	02/28/2024 2347
928177	Blair	253	435	02/28/2024 1649	02/29/2024 0004
928177	Blair	523	420	02/28/2024 1649	02/28/2024 2349
928177	Blair	540	414	02/28/2024 1649	02/28/2024 2343
925085	Susquehanna	43	414	02/28/2024 0914	02/28/2024 1608
926018	Clearfield	2	397	02/28/2024 1548	02/28/2024 2225
926613	Wayne	31	391	02/28/2024 1832	02/29/2024 0103
932429	Erie	1	385	02/28/2024 1850	02/29/2024 0115
926528	Warren	584	380	02/28/2024 1819	02/29/2024 0039
926123	Warren	162	370	02/28/2024 1824	02/29/2024 0034
935537	Warren	2	368	02/29/2024 0237	02/29/2024 0845

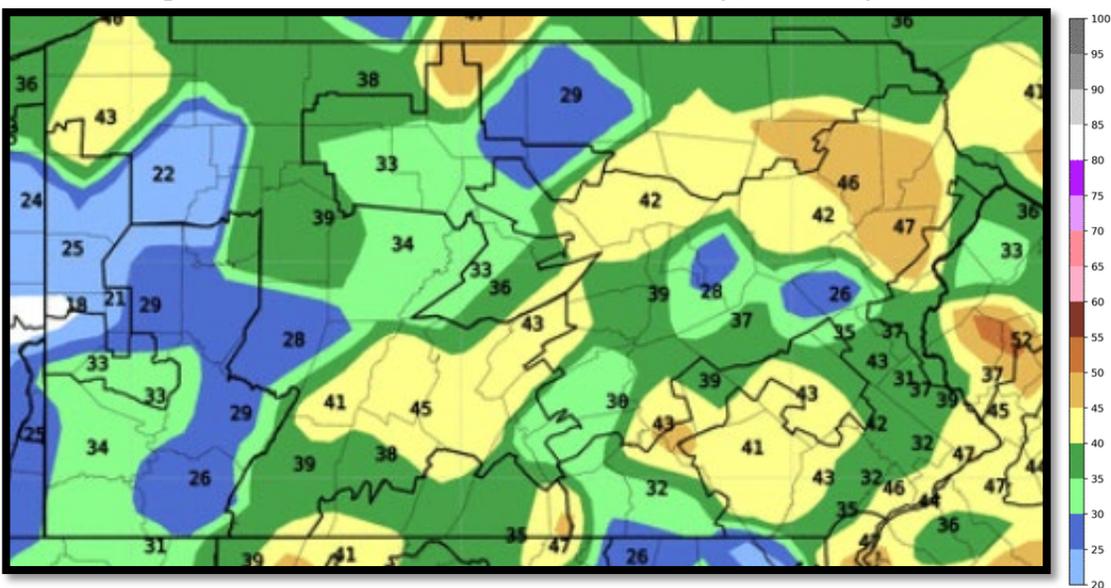
Attachment B: Precipitation Reports

Wind & Precipitation Reports: Graphics 1 and 2 show the maximum wind gusts in the Penelec service territory on February 28 and February 29, 2024. Graphic 3 illustrates the 24-Hour Total Precipitation in the Penelec service territory on February 28, 2024. The graphics are from the National Oceanic and Atmospheric Administration (“NOAA”).

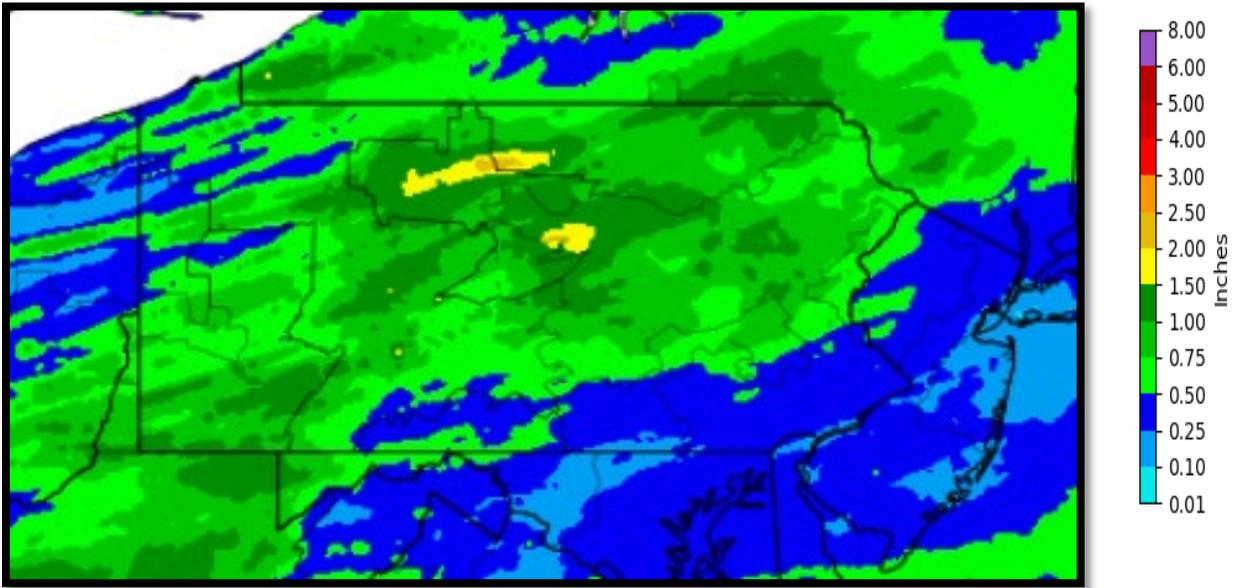
Graphic 1: Maximum Wind Gusts – Wednesday, February 28, 2024



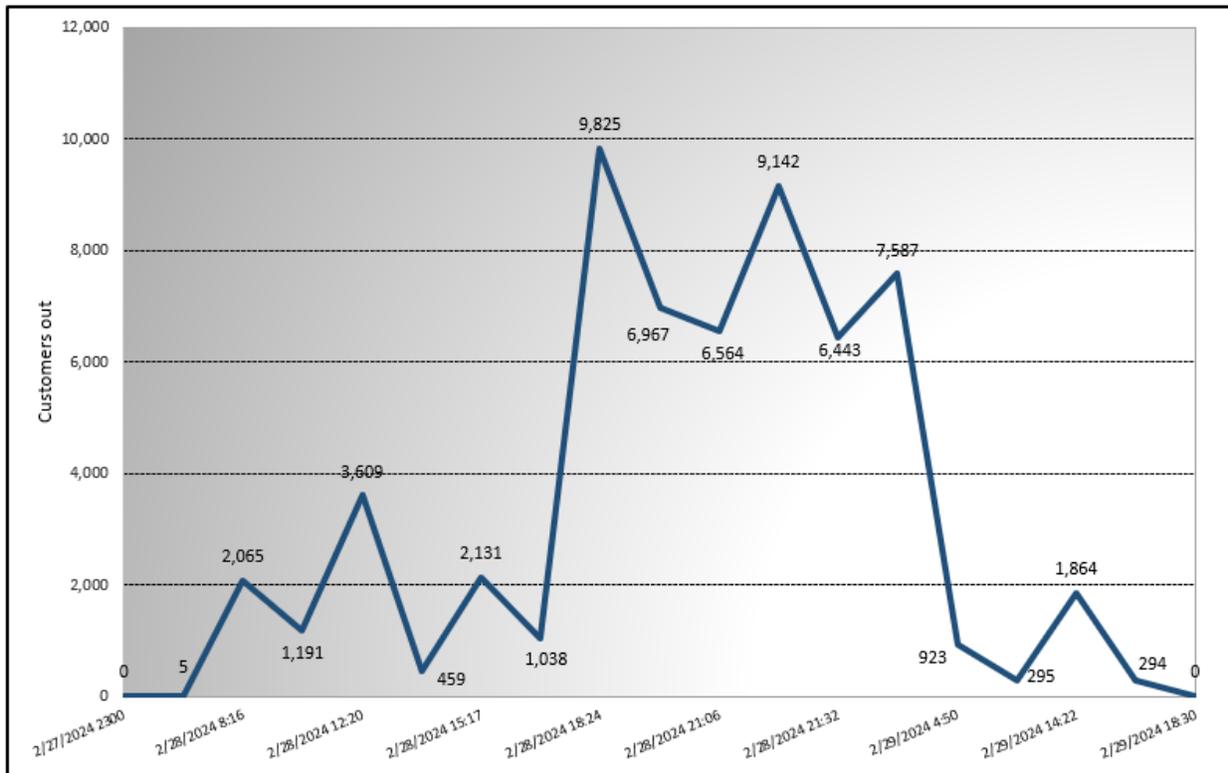
Graphic 2: Maximum Wind Gusts - Thursday, February 29, 2024



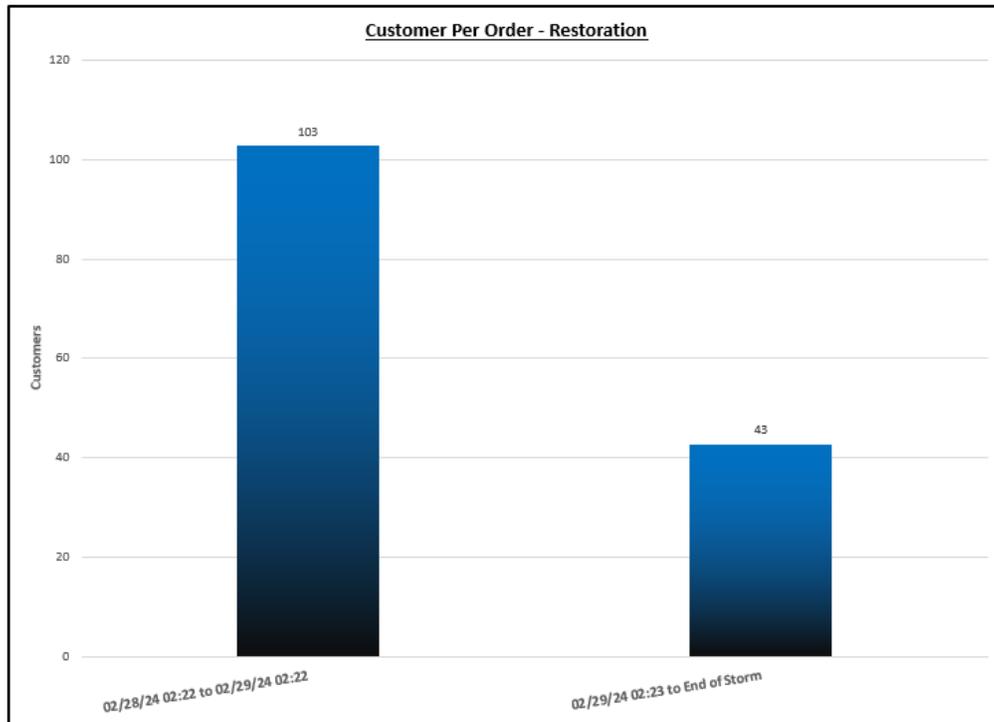
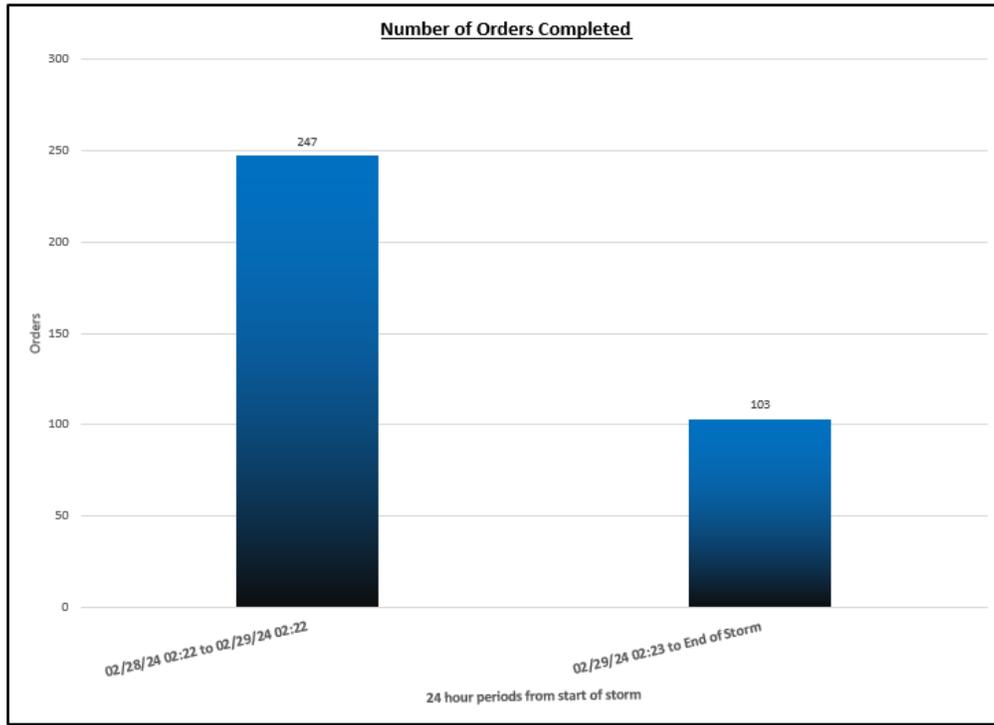
Graphic 3: 24-Hour Total Precipitation – Wednesday, February 28, 2024



Attachment C: Restoration Curve



Attachment D: Order Restoration Graphs



Attachment E: Meteorologist Reports

Monday, February 26, 2024 @ 0950

New Issuance:

An active weather pattern is expected across FE, beginning late Tuesday and lasting into early Thursday. The main offender will be a strong cold front that will sweep eastward across the FE footprint on Wednesday, bringing strong winds and the potential for severe thunderstorms.

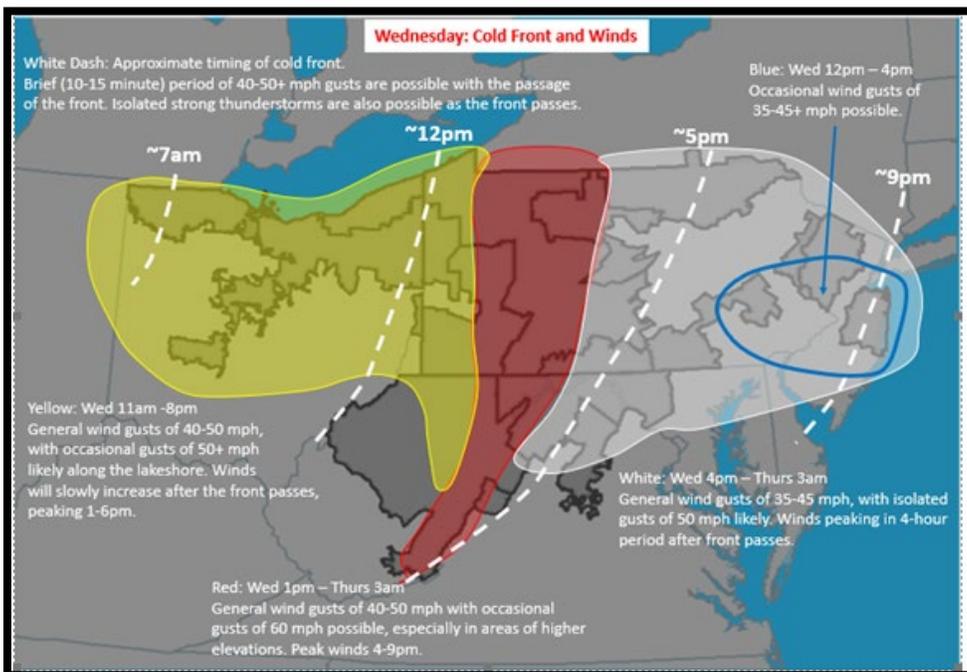
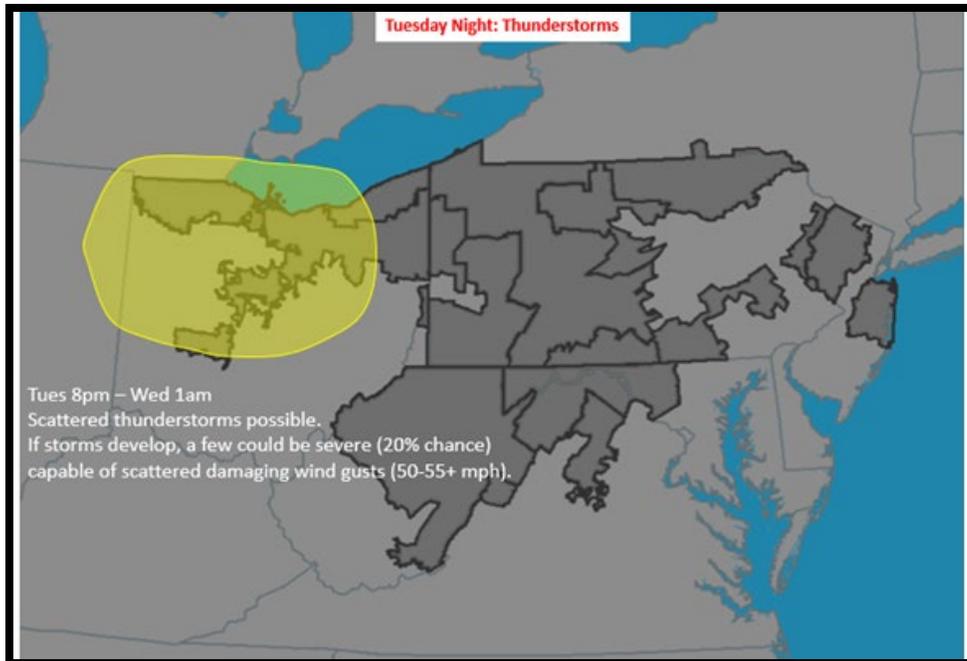
Tuesday night:

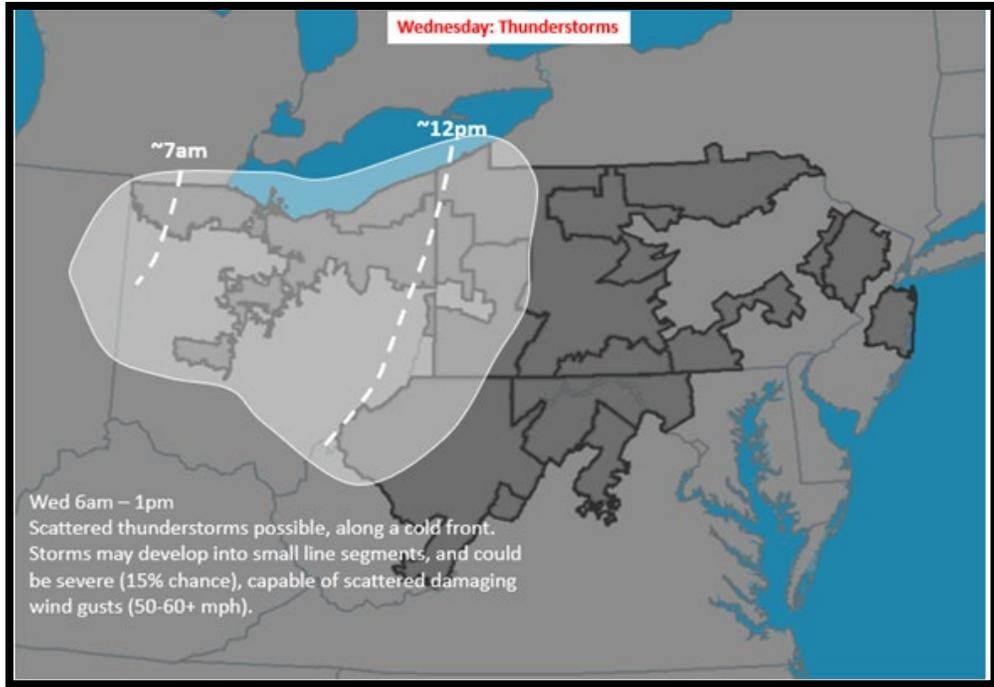
- A few scattered severe thunderstorms will be possible in western FE before the cold front arrives.
- While there is uncertainty on if storms will develop, any storms that do will be capable of scattered damaging wind gusts through the evening hours.

Wednesday:

- A strong cold front will push through FE during the day.
- As the front passes, a brief surge of 40-50 mph gusts will be possible.
- The front may also carry pockets of thunderstorms, which will increase the risk of strong gusts.
- Winds will increase behind the front—slowly in areas in western FE, but immediately after the front passes in eastern FE.
- Gusty winds will be expected for several hours behind the front, but the period of peak winds is expected to be 4-5 hours in any location.
- A period of rain will move through ahead of front—and inch or so of rain is possible in the 6-8 hours before the front arrives.
- It will be much colder Thursday. Accumulating snowfall may be possible in lake effect areas and the elevations of WV/MD/PA overnight Wednesday and Thursday—details on this threat will provided (if needed) in future alerts.

See graphics below for further information.





Tuesday, February 27, 2024 @ 0945

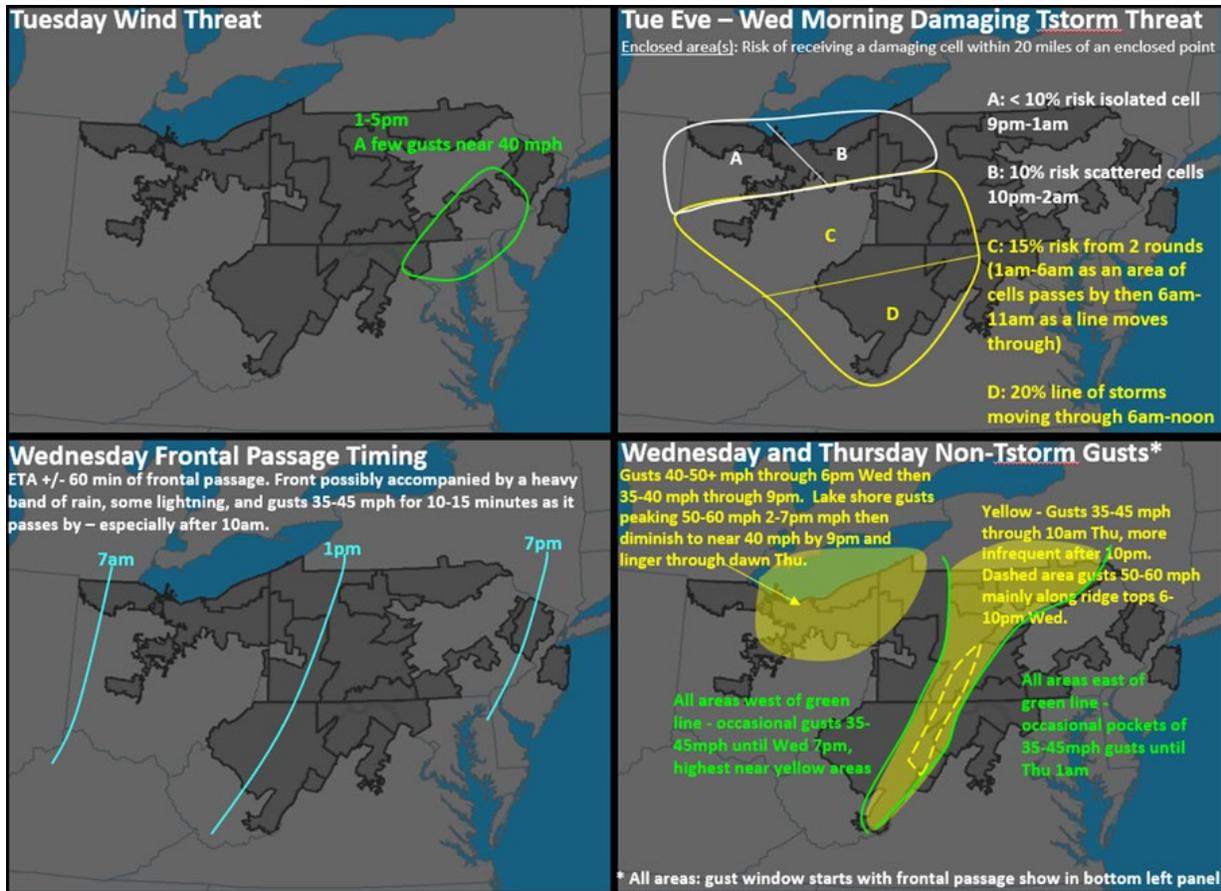
Changes:

1. This afternoon wind gusts (top left panel): Shrunk area. Confidence is normal with this panel.
2. Thunder threat (top right panel): Consolidated threat into one panel but added detail per sub region. Confidence is low in the white area (risk is lowest) and slightly below normal in the yellow area.
3. Frontal passage timing (bottom left panel): Fine-tuned ETA of front and mention of a heavy band of rain and brief wind gusts after mid-morning. Confidence is normal with this panel.
4. Wind gusts (bottom right panel): All FE will see gusts 35-45 mph. Added shaded regions of higher magnitude and/or where threat will linger the longest. Confidence is slightly below normal with this panel.

Note – not shown but any showers breaking out today and tonight may produce a few lighting strikes and even some hail as they pass by (only the areas depicted in the top right panel have a mentionable risk of being accompanied by damaging winds).

Bottom line – frontal passage will impact all FE OPCOs one way or the other between this morning and Thursday morning.

See graphics below for further information.

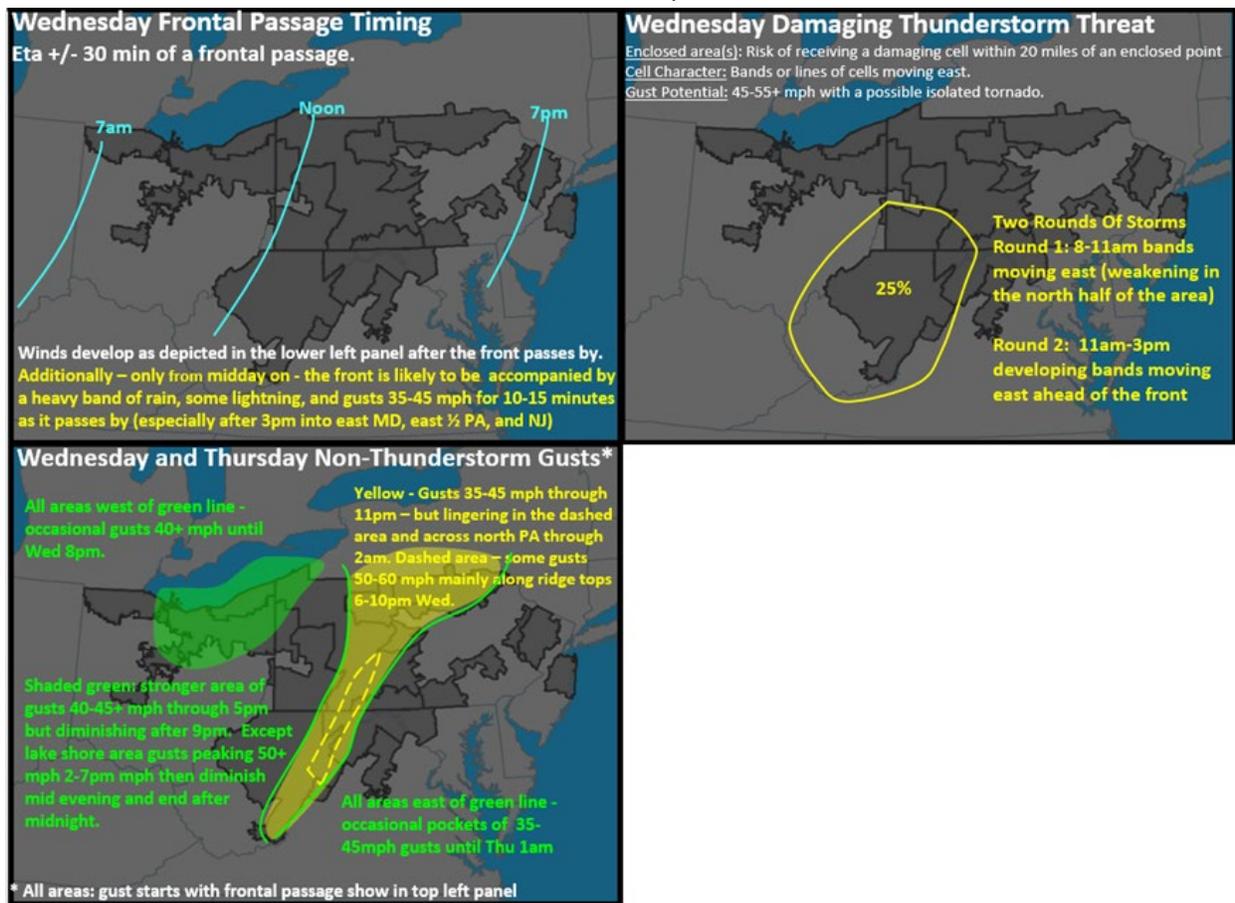


Wednesday, February 28, 2024 @ 0843

Changes:

1. Frontal passage timing (top left panel): Isolated and highlighted (by text) the areas where a band of heavy rain and brief wind gusts expected as front passes by. Confidence is above normal with this panel.
2. Damaging thunderstorm threat (top right panel): Adjusted area for today and added timing details. Confidence is normal with this panel.
3. Non-thunderstorm post-frontal wind gusts (bottom left panel): Slight decrease in duration and intensity. Confidence is normal with this panel.

See graphics below for further details.



Thursday, February 29, 2024 @ 0733

A final update to detail timing and magnitude of lingering nuisance gusts today.

