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August 4, 2023

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 –
West Penn Power Company; Docket No. M-2021-3023564**

Dear Secretary Chiavetta:

Pursuant to 52 Pa. Code § 67.1, West Penn Power Company (“West Penn”) submits written notification of completed restoration efforts following storm conditions that began on July 20, 2023 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)
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: West Penn Power Company ("West Penn")
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: (724) 838-6150
(Telephone Number)

4. Date and time report was made to Commission:

July 20, 2023 2203
(Date) *(Time)*

5. Interruption or Outage:

(a) Number of customers affected: 21,173 (Represents 2.9% of West Penn'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
Adams	40	1	1
Allegheny	377	15	8
Bedford	10	1	2
Butler	354	23	13
Centre	654	17	26
Clarion	22	3	4
Clinton	179	4	5
Elk	1,683	37	53
Elk	1,683	37	53
Elk	1683	37	53
Fayette	386	17	16
Franklin	907	20	37
Fulton	189	4	5
Greene	700	11	6
Indiana	49	6	1
Lycoming	361	1	0
Mckean	892	14	23
Potter	311	1	0
Washington	2,201	39	29
Westmoreland	10,602	115	81
Total	21,173	360	337

(d) Approximate number of outage cases exceeding 6 or more hours in duration: 203

(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 the evening of Thursday, July 20, 2023, a line of thunderstorms moved from northwest to southeast across Pennsylvania, including the West Penn service territory. The storm produced rain, lightning and wind gusts of over 40 miles per hour on July 20, 2023. See Attachment B for the maximum wind gusts and total precipitation for July 20 and 21, 2023.

Damage as a result of the high winds included downed trees/power lines, damaged and broken poles/crossarms, and damaged equipment. The St Mary’s district was the hardest hit area. Approximately 47% of the total outages that occurred were tree related.

Preliminary data indicate the reliability impact of the storm was 13.2 minutes of SAIDI, 0.03 of SAIFI, and an overall storm CAIDI of 451.99 minutes.

(g) Projected time of restoration: It was estimated that the majority of customers would be restored by 1600 on July 22, 2023.

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 Power	228	Line Workers
Penn Power	6	Line Workers
Subtotal	234	Line Workers
CW Wright Construction	4	Line Contractor
Henkels & McCoy	13	Line Contractor
IB Abel	7	Line Contractor
JW Didado	4	Line Contractor
Main Lite Electric	9	Line Contractor
Miller Bros	18	Line Contractor
NG Gilbert	19	Line Contractor
Poleset	5	Line Contractor
Thompson Electric	25	Line Contractor
Subtotal	104	Line Contractor
Asplundh Tree Expert	66	Forestry Contractor
Davey Tree Expert	8	Forestry Contractor
Townsend Tree	3	Forestry Contractor
Pennline Service	48	Forestry Contractor
Subtotal	125	Forestry Contractor
West Penn Power	5	Hazard Responders/Damage Assessors
Subtotal	5	Hazard Responders/Damage Assessors
West Penn Power	99	Supporting Roles
Penelec	1	Supporting Roles
Penn Power	3	Supporting Roles
FirstEnergy Service Co.	57	Supporting Roles
Contractors (Various)	4	Supporting Roles
Subtotal	164	Supporting Roles
Grand Total	632	

- (i) The date and time of the first information of a service interruption: July 20, 2023 at 1804.
- (j) The date and time that repair crews were assembled: July 20, 2023 at 1500.

- (k) The actual time that service was restored to the last affected customer: July 22, 2023 at 1909.
- (l) A general description of the physical damage sustained by the utility facilities as a result of the interruption/outage:

Equipment	Number
Crossarms Replaced	82
Cutouts Replaced	57
Poles Replaced	23
Transformers Replaced	40
Wire & Cable Replaced (feet)	31,359

- (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
336617	Elk	11	2,738	07/20/2023 2029	07/22/2023 1807
332639	McKean	17	2,726	07/20/2023 2019	07/22/2023 1745
336416	Cameron	2	2,710	07/20/2023 2119	07/22/2023 1829
336076	Elk	9	2,656	07/20/2023 2149	07/22/2023 1805
332660	Elk	30	2,557	07/20/2023 2029	07/22/2023 1506
332914	Elk	1	2,549	07/20/2023 2211	07/22/2023 1640
332844	Cameron	9	2,462	07/20/2023 2139	07/22/2023 1441
332834	Elk	22	2,444	07/20/2023 2131	07/22/2023 1415
332831	Cameron	1	2,437	07/20/2023 2130	07/22/2023 1407
332850	Elk	6	2,411	07/20/2023 2148	07/22/2023 1359
332861	McKean	7	2,405	07/20/2023 2155	07/22/2023 1400
332764	McKean	8	2,394	07/20/2023 2056	07/22/2023 1250
335199	McKean	56	2,385	07/20/2023 2015	07/22/2023 1200
332828	Elk	2	2,372	07/20/2023 2128	07/22/2023 1300
333792	Elk	19	2,361	07/20/2023 2034	07/22/2023 1155
332694	McKean	15	2,360	07/20/2023 2036	07/22/2023 1156
334023	Elk	8	2,357	07/20/2023 2118	07/22/2023 1235
336459	Elk	2	2,353	07/20/2023 2042	07/22/2023 1155
334749	Elk	1	2,342	07/20/2023 2042	07/22/2023 1144
332677	McKean	13	2,293	07/20/2023 2034	07/22/2023 1047
336193	Elk	6	2,284	07/20/2023 2041	07/22/2023 1045
334377	Elk	26	2,223	07/21/2023 0606	07/22/2023 1909
332819	Cameron	35	2,206	07/20/2023 2119	07/22/2023 1005
335971	Elk	6	2,157	07/21/2023 0351	07/22/2023 1548
334577	McKean	1	1,992	07/21/2023 0713	07/22/2023 1625
334583	Elk	1	1,850	07/21/2023 0716	07/22/2023 1406
336219	Elk	11	1,710	07/20/2023 2053	07/22/2023 0123
334796	Cameron	5	1,675	07/21/2023 0827	07/22/2023 1222
332722	Elk	24	1,667	07/20/2023 2044	07/22/2023 0031
335818	Elk	9	1,582	07/21/2023 1523	07/22/2023 1745
334021	Elk	41	1,536	07/20/2023 2053	07/21/2023 2229

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.

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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
333028	McKean	4	1,482	07/20/2023 2240	07/21/2023 2322
332899	Westmoreland	4	1,454	07/20/2023 2209	07/21/2023 2223
336161	Elk	12	1,453	07/20/2023 2050	07/21/2023 2103
336163	Elk	6	1,447	07/20/2023 2109	07/21/2023 2116
333789	Elk	56	1,418	07/20/2023 2034	07/21/2023 2012
332773	Elk	13	1,408	07/20/2023 2103	07/21/2023 2031
332830	Cameron	100	1,391	07/20/2023 2128	07/21/2023 2039
332727	Elk	75	1,380	07/20/2023 2045	07/21/2023 1945
335217	Franklin	2	1,329	07/21/2023 1051	07/22/2023 0900
336104	Elk	15	1,302	07/20/2023 2108	07/21/2023 1850
332775	Elk	29	1,276	07/20/2023 2105	07/21/2023 1821
336045	McKean	39	1,275	07/20/2023 2037	07/21/2023 1752
332883	McKean	20	1,262	07/20/2023 2206	07/21/2023 1908
335950	Cameron	144	1,238	07/20/2023 2105	07/21/2023 1743
332668	Elk	340	1,222	07/20/2023 2032	07/21/2023 1654
333213	Greene	6	1,209	07/20/2023 2306	07/21/2023 1915
334078	Westmoreland	1	1,199	07/20/2023 2258	07/21/2023 1857
335662	Elk	347	1,154	07/20/2023 2047	07/21/2023 1601
333113	Westmoreland	1	1,149	07/20/2023 2251	07/21/2023 1800
333764	Franklin	7	1,143	07/21/2023 0103	07/21/2023 2006
336257	Elk	5	1,124	07/21/2023 2042	07/22/2023 1526
332590	Washington	6	1,114	07/20/2023 1841	07/21/2023 1315
333126	Westmoreland	32	1,111	07/20/2023 2254	07/21/2023 1725
332774	Potter	311	1,073	07/20/2023 2104	07/21/2023 1457
333127	Westmoreland	1	1,058	07/20/2023 2254	07/21/2023 1632
333148	Fayette	1	1,050	07/20/2023 2258	07/21/2023 1628
335876	Greene	1	1,036	07/20/2023 2315	07/21/2023 1631
334539	Franklin	2	1,015	07/21/2023 0102	07/21/2023 1757
334078	Westmoreland	54	1,010	07/20/2023 2258	07/21/2023 1548
333025	Centre	6	1,011	07/20/2023 2239	07/21/2023 1530
333030	Westmoreland	3	1,010	07/20/2023 2240	07/21/2023 1530
334387	Franklin	63	1,007	07/21/2023 0100	07/21/2023 1747
332921	Westmoreland	20	944	07/20/2023 2214	07/21/2023 1358
335995	Washington	4	934	07/21/2023 1723	07/22/2023 0857
333777	Franklin	6	904	07/21/2023 0106	07/21/2023 1610
333787	Greene	3	895	07/21/2023 0110	07/21/2023 1605

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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
332733	Butler	13	893	07/20/2023 2047	07/21/2023 1140
334732	Westmoreland	4	890	07/20/2023 2307	07/21/2023 1357
335483	Westmoreland	8	888	07/20/2023 2258	07/21/2023 1346
333602	Bedford	210	886	07/21/2023 0026	07/21/2023 1512
333336	Greene	1	881	07/20/2023 2316	07/21/2023 1357
333135	Westmoreland	1	865	07/20/2023 2256	07/21/2023 1321
332634	McKean	401	862	07/20/2023 2015	07/21/2023 1037
333428	Westmoreland	15	852	07/20/2023 2325	07/21/2023 1337
334952	Armstrong	16	848	07/20/2023 2202	07/21/2023 1210
336158	Franklin	1	848	07/21/2023 2052	07/22/2023 1100
334913	Washington	161	844	07/20/2023 2247	07/21/2023 1251
335309	Westmoreland	184	840	07/20/2023 2238	07/21/2023 1238
333159	Westmoreland	3	810	07/20/2023 2258	07/21/2023 1228
333009	Westmoreland	19	805	07/20/2023 2235	07/21/2023 1200
333699	Allegheny	29	804	07/21/2023 0041	07/21/2023 1405
334011	Fulton	154	787	07/21/2023 0028	07/21/2023 1335
333845	Westmoreland	1	786	07/20/2023 2227	07/21/2023 1133
333141	Westmoreland	5	783	07/20/2023 2257	07/21/2023 1200
333471	Westmoreland	1	780	07/20/2023 2340	07/21/2023 1240
332962	Lycoming	361	761	07/20/2023 2223	07/21/2023 1104
334139	Westmoreland	377	756	07/20/2023 2238	07/21/2023 1114
333820	Adams	40	750	07/21/2023 0115	07/21/2023 1345
334102	Franklin	25	750	07/21/2023 0100	07/21/2023 1330
333056	Armstrong	9	741	07/20/2023 2244	07/21/2023 1105
333187	Westmoreland	7	738	07/20/2023 2301	07/21/2023 1119
333221	Westmoreland	160	725	07/20/2023 2309	07/21/2023 1114
333678	Greene	13	719	07/21/2023 0038	07/21/2023 1237
336268	Westmoreland	5	713	07/21/2023 1637	07/22/2023 0430
335907	Westmoreland	5	713	07/21/2023 1637	07/22/2023 0430
334048	Centre	11	713	07/20/2023 2207	07/21/2023 1000
333331	Washington	107	711	07/20/2023 2254	07/21/2023 1045
335216	Franklin	132	706	07/21/2023 0048	07/21/2023 1234
332749	Butler	1	705	07/20/2023 2050	07/21/2023 0835
334603	Elk	1	694	07/20/2023 2042	07/21/2023 0816
335351	Greene	83	685	07/20/2023 2358	07/21/2023 1123
333670	Fayette	1	679	07/21/2023 0037	07/21/2023 1156

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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
333975	Westmoreland	29	678	07/21/2023 0012	07/21/2023 1130
333055	Allegheny	15	675	07/20/2023 2244	07/21/2023 0959
333510	Greene	328	668	07/20/2023 2358	07/21/2023 1106
336263	Elk	4	665	07/22/2023 0135	07/22/2023 1240
333479	Washington	56	663	07/20/2023 2343	07/21/2023 1046
332905	Butler	1	661	07/20/2023 2210	07/21/2023 0911
333321	Westmoreland	2	660	07/20/2023 2315	07/21/2023 1015
333933	Armstrong	33	658	07/20/2023 2202	07/21/2023 0900
334078	Westmoreland	54	657	07/20/2023 2258	07/21/2023 0955
334078	Westmoreland	54	656	07/20/2023 2258	07/21/2023 0954
332952	Centre	106	656	07/20/2023 2219	07/21/2023 0915
333392	Fayette	45	654	07/20/2023 2319	07/21/2023 1013
333830	Indiana	1	654	07/20/2023 2251	07/21/2023 0945
334906	Washington	2	653	07/20/2023 2307	07/21/2023 1000
332866	Westmoreland	12	651	07/20/2023 2159	07/21/2023 0850
332651	Butler	7	648	07/20/2023 2027	07/21/2023 0715
332717	Elk	161	647	07/20/2023 2042	07/21/2023 0729
334091	Franklin	39	646	07/21/2023 0322	07/21/2023 1408
334077	Westmoreland	7	645	07/20/2023 2311	07/21/2023 0956
333564	Bedford	133	644	07/21/2023 0013	07/21/2023 1057
334676	Westmoreland	6	643	07/21/2023 0050	07/21/2023 1133
334894	Butler	2	627	07/20/2023 2210	07/21/2023 0837
333059	Butler	1	625	07/20/2023 2245	07/21/2023 0910
334775	Butler	2	625	07/20/2023 2245	07/21/2023 0910
333146	Westmoreland	70	625	07/20/2023 2257	07/21/2023 0922
334425	Indiana	4	620	07/20/2023 2300	07/21/2023 0920
333074	Washington	185	617	07/20/2023 2247	07/21/2023 0904
333743	Fulton	30	616	07/21/2023 0056	07/21/2023 1112
333118	Butler	2	611	07/20/2023 2252	07/21/2023 0903
334204	Westmoreland	2	609	07/21/2023 0503	07/21/2023 1512
333241	Westmoreland	1	608	07/20/2023 2312	07/21/2023 0920
333713	Franklin	435	606	07/21/2023 0045	07/21/2023 1051
334105	Franklin	29	598	07/21/2023 0332	07/21/2023 1330
334751	Washington	32	597	07/20/2023 2343	07/21/2023 0940
335116	Fayette	1	583	07/21/2023 1008	07/21/2023 1951
333150	Fayette	30	582	07/20/2023 2258	07/21/2023 0840

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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
332953	Washington	7	570	07/20/2023 2220	07/21/2023 0750
332954	Washington	10	570	07/20/2023 2220	07/21/2023 0750
333103	Armstrong	1	567	07/20/2023 2250	07/21/2023 0817
334854	Westmoreland	1	565	07/21/2023 0850	07/21/2023 1815
334120	Centre	1	561	07/20/2023 2224	07/21/2023 0745
333234	Westmoreland	59	561	07/20/2023 2311	07/21/2023 0832
333444	Fayette	8	558	07/20/2023 2332	07/21/2023 0850
333555	Fayette	3	555	07/21/2023 0010	07/21/2023 0925
335756	Fulton	1	552	07/21/2023 0556	07/21/2023 1508
332994	Westmoreland	3	549	07/20/2023 2232	07/21/2023 0741
333503	Greene	259	539	07/20/2023 2356	07/21/2023 0855
332765	Clarion	15	539	07/20/2023 2056	07/21/2023 0555
334069	Armstrong	17	534	07/20/2023 2148	07/21/2023 0642
333027	Westmoreland	34	530	07/20/2023 2240	07/21/2023 0730
334269	Greene	4	530	07/21/2023 0540	07/21/2023 1430
333828	Indiana	4	525	07/20/2023 2249	07/21/2023 0734
333214	Westmoreland	4	523	07/20/2023 2307	07/21/2023 0750
334117	Armstrong	6	520	07/20/2023 2318	07/21/2023 0758
332886	Washington	44	511	07/20/2023 2206	07/21/2023 0637
334934	Franklin	13	503	07/21/2023 0914	07/21/2023 1737
335903	Franklin	1	503	07/21/2023 0914	07/21/2023 1737
334711	Westmoreland	1	502	07/21/2023 0803	07/21/2023 1625
334429	Indiana	9	501	07/20/2023 2244	07/21/2023 0705
333053	Indiana	22	495	07/20/2023 2244	07/21/2023 0659
333430	Fayette	72	494	07/20/2023 2326	07/21/2023 0740
333418	Washington	4	494	07/20/2023 2324	07/21/2023 0738
334572	Westmoreland	1	488	07/20/2023 2257	07/21/2023 0705
333539	Armstrong	1	481	07/21/2023 0004	07/21/2023 0805
333716	Westmoreland	4	480	07/21/2023 0047	07/21/2023 0847
334138	Fayette	1	478	07/21/2023 0406	07/21/2023 1204
333140	Westmoreland	18	475	07/20/2023 2257	07/21/2023 0652
335447	Clinton	37	475	07/21/2023 0545	07/21/2023 1340
334277	Clinton	1	475	07/21/2023 0545	07/21/2023 1340
333693	Washington	7	474	07/20/2023 2336	07/21/2023 0730
334604	Westmoreland	1	471	07/21/2023 0722	07/21/2023 1513
336337	Westmoreland	33	468	07/22/2023 0427	07/22/2023 1215

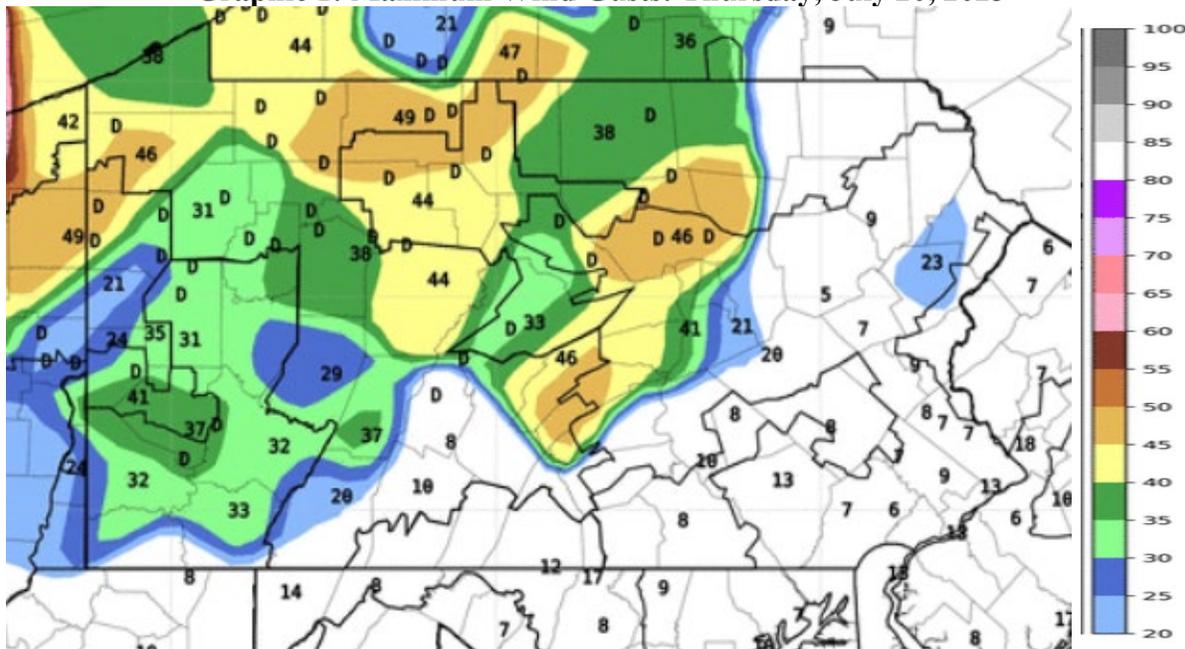
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Order #	Approximate Location (County)	Total Number of Customers Affected	Duration of the Outage (minutes)	Initial Date and Time of the Outage	Restoration Date and Time
333755	Westmoreland	30	465	07/21/2023 0100	07/21/2023 0845
335460	Washington	1	463	07/21/2023 1219	07/21/2023 2002
332634	McKean	106	457	07/21/2023 0300	07/21/2023 1037
335306	Allegheny	10	445	07/21/2023 0314	07/21/2023 1039
334362	Fulton	4	444	07/21/2023 0556	07/21/2023 1320
334078	Westmoreland	54	442	07/20/2023 2258	07/21/2023 0620
335598	Westmoreland	1	436	07/21/2023 0749	07/21/2023 1505
334923	Westmoreland	6	426	07/21/2023 0644	07/21/2023 1350
336245	Washington	79	423	07/22/2023 0015	07/22/2023 0718
334006	Centre	15	417	07/21/2023 0115	07/21/2023 0812
332769	Butler	4	415	07/20/2023 2100	07/21/2023 0355
334078	Westmoreland	54	411	07/20/2023 2258	07/21/2023 0549
334477	Franklin	2	405	07/21/2023 0642	07/21/2023 1327
333848	Franklin	20	405	07/21/2023 0127	07/21/2023 0812
332899	Westmoreland	189	404	07/20/2023 2209	07/21/2023 0453
334812	Westmoreland	2	392	07/21/2023 0835	07/21/2023 1507
334009	Fayette	1	390	07/21/2023 0240	07/21/2023 0910
336160	Butler	1	390	07/21/2023 2054	07/22/2023 0324
334165	Washington	5	379	07/21/2023 0044	07/21/2023 0703
332932	Armstrong	6	378	07/20/2023 2216	07/21/2023 0434
334980	Westmoreland	5	377	07/21/2023 0507	07/21/2023 1124
334597	Franklin	1	372	07/21/2023 0720	07/21/2023 1332
332767	Butler	6	370	07/20/2023 2057	07/21/2023 0307
335591	Greene	1	370	07/21/2023 0807	07/21/2023 1417
333858	Westmoreland	18	367	07/21/2023 0129	07/21/2023 0736
334078	Westmoreland	54	362	07/20/2023 2258	07/21/2023 0500
334078	Westmoreland	54	361	07/20/2023 2258	07/21/2023 0459
333838	Franklin	5	361	07/21/2023 0124	07/21/2023 0725

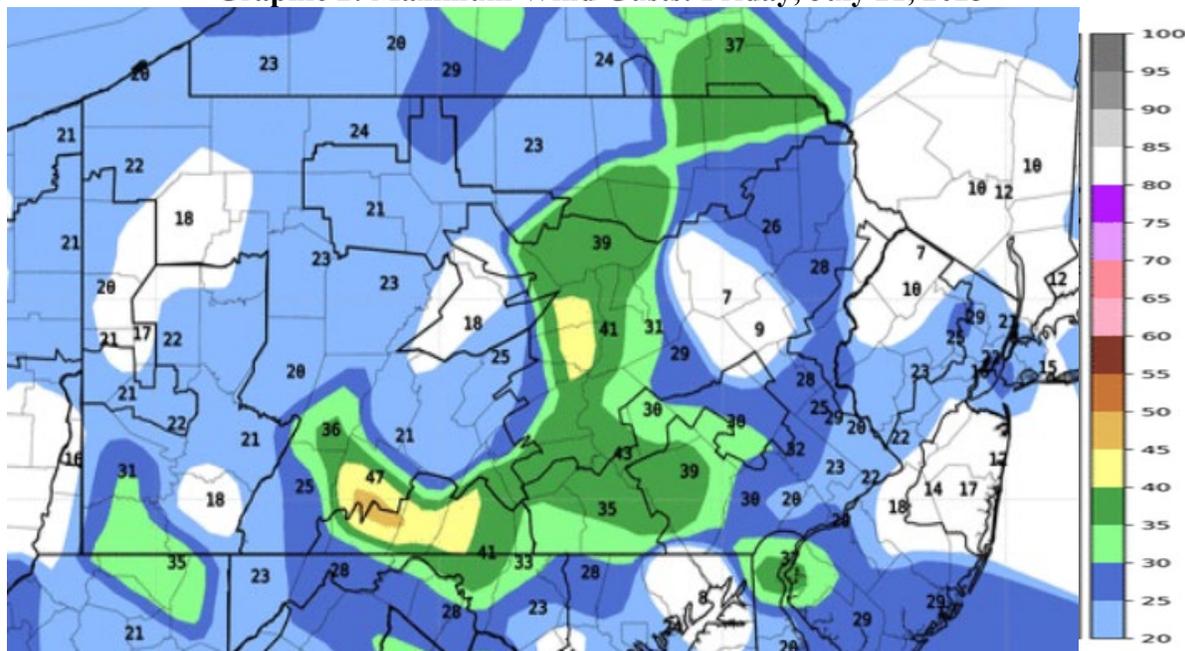
Attachment B: Wind and Precipitation Reports

Wind and Precipitation Reports: Graphics 1 and 2 illustrate the maximum wind gusts in the West Penn service territory on July 20 and 21, 2023. Graphics 3 and 4 illustrate the 24-Hour Total Precipitation in the West Penn service territory on July 20 and 21, 2023. The graphics are from the National Oceanic and Atmospheric Administration (“NOAA”).

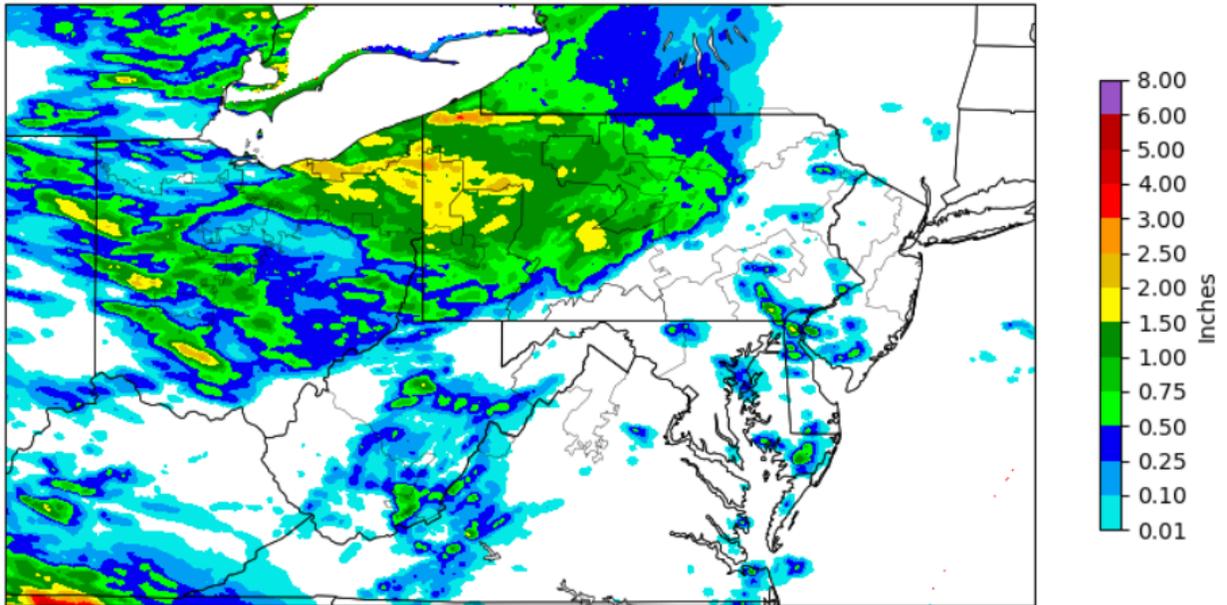
Graphic 1: Maximum Wind Gusts: Thursday, July 20, 2023



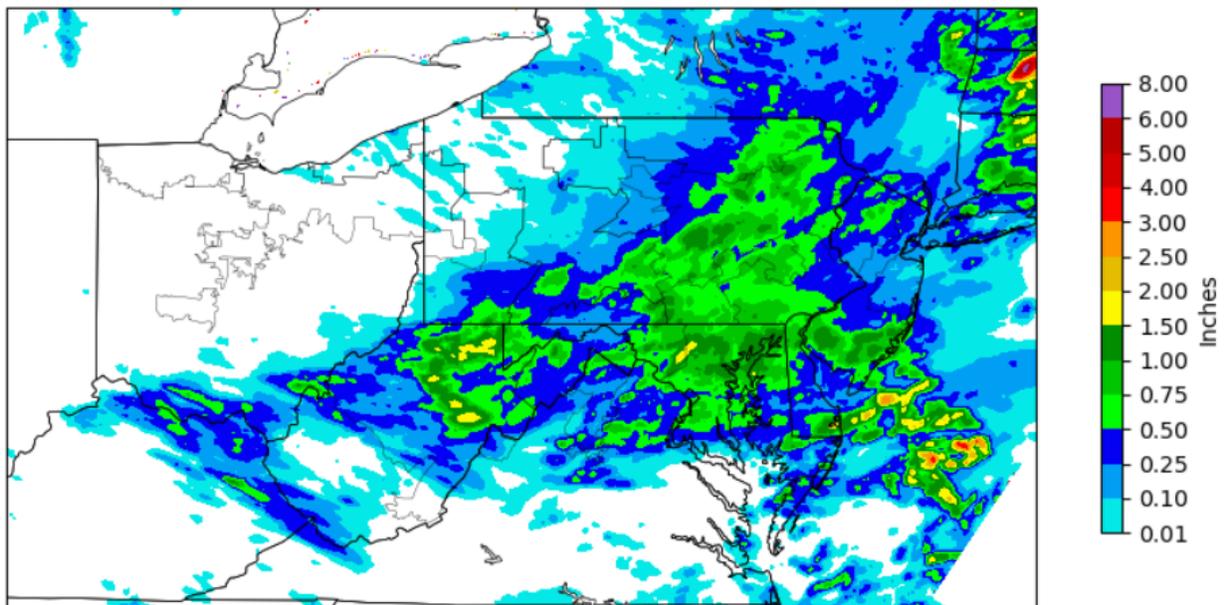
Graphic 2: Maximum Wind Gusts: Friday, July 21, 2023



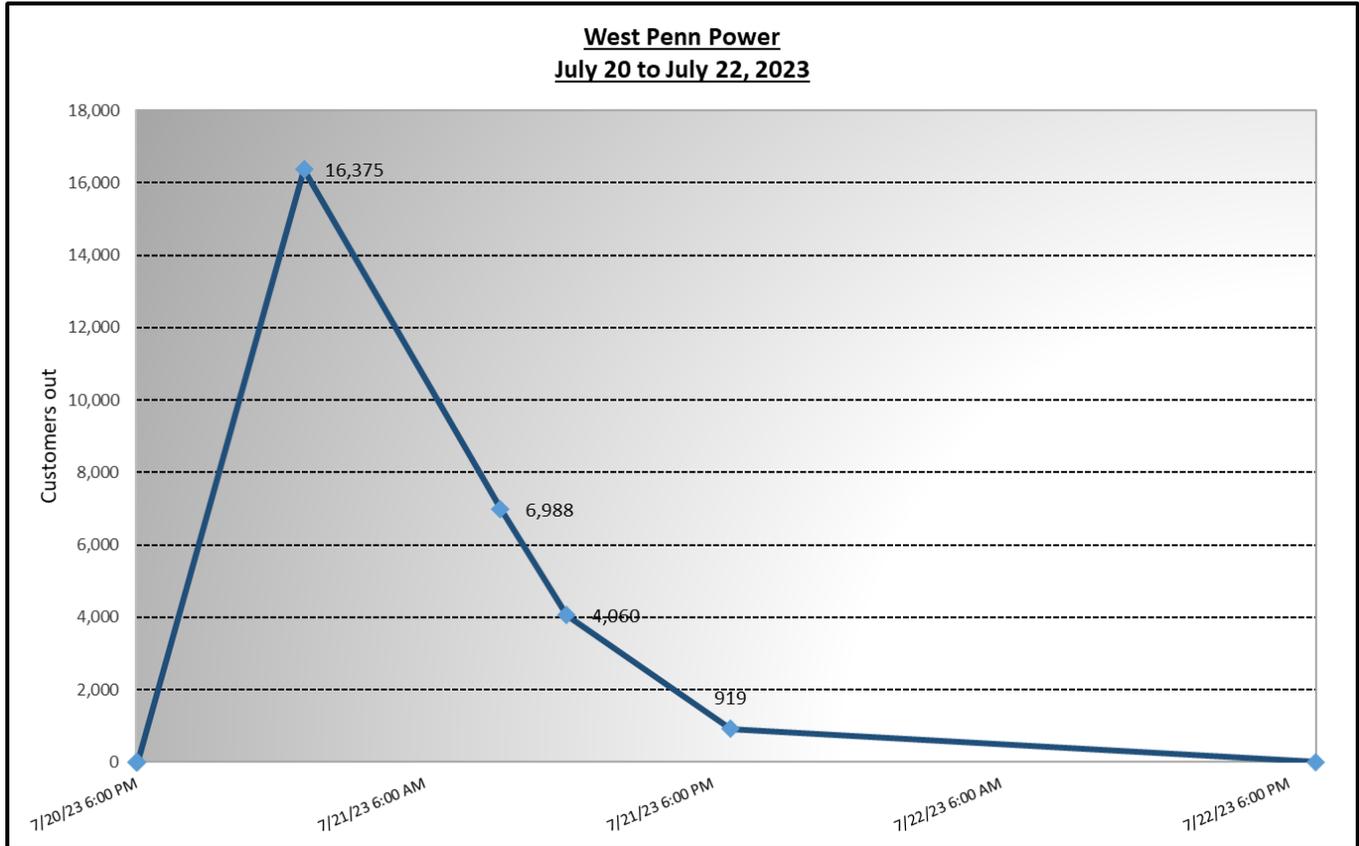
Graphic 3: 24-Hour Total Precipitation: Thursday, July 20, 2023



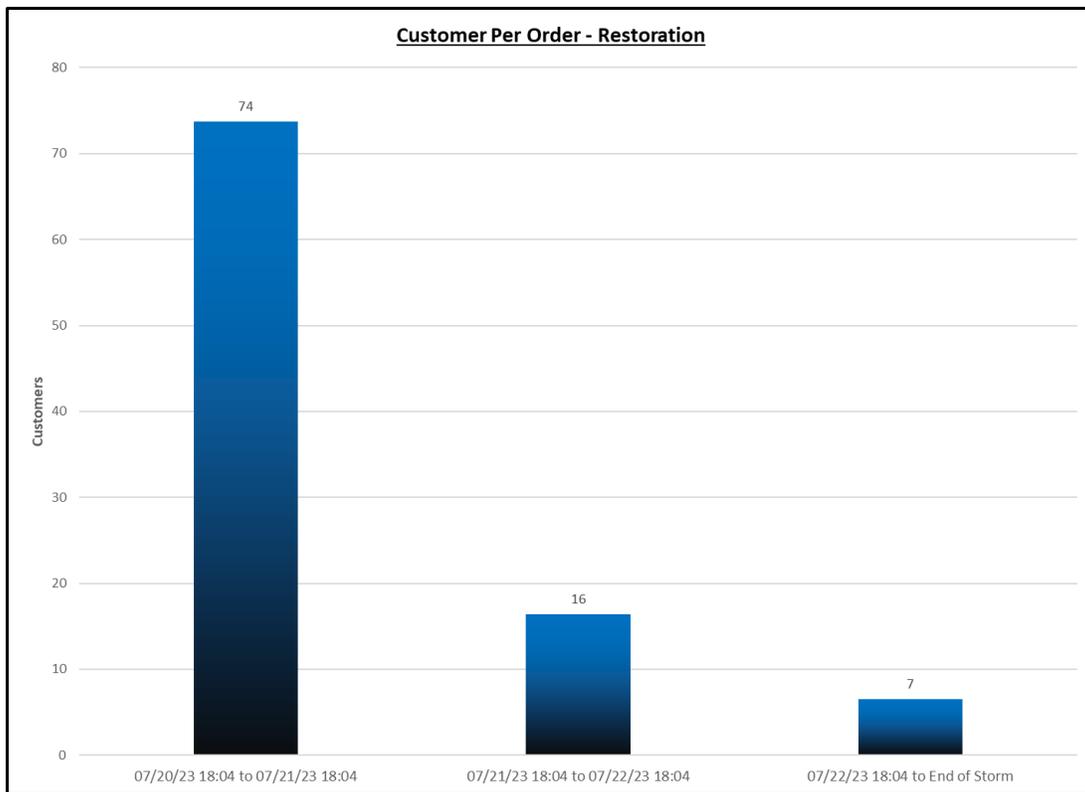
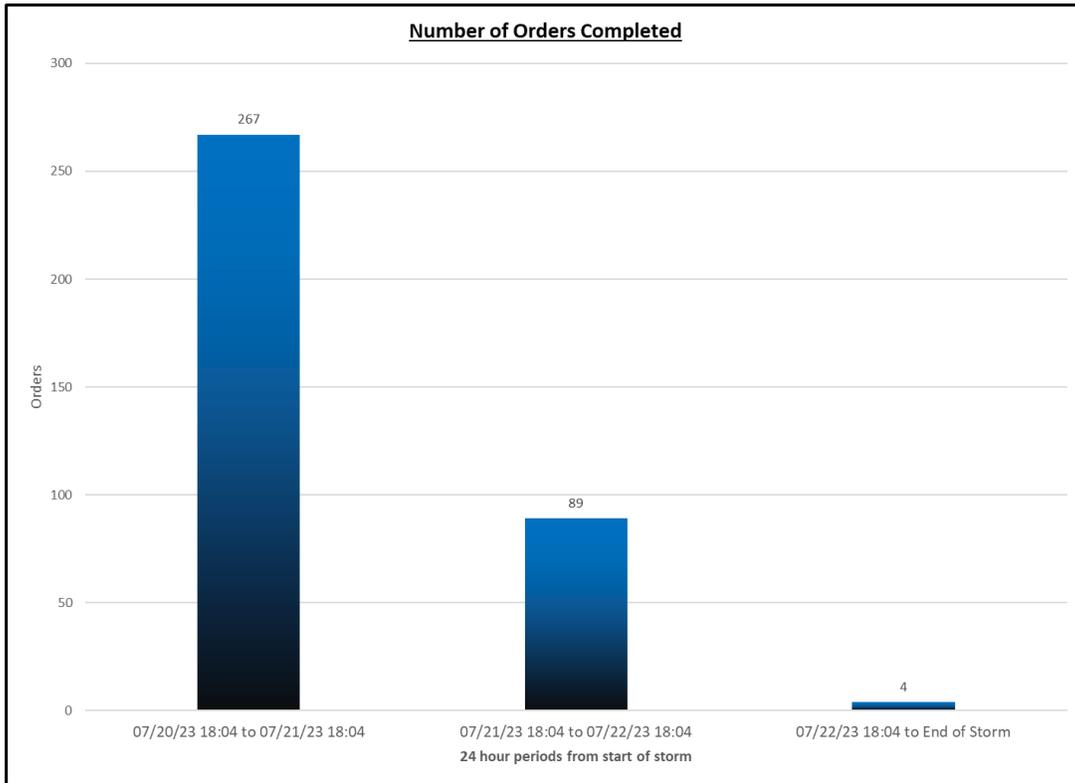
Graphic 4: 24-Hour Total Precipitation: Friday, July 21, 2023



Attachment C: Restoration Curve



Attachment D: Order Restoration Graphs



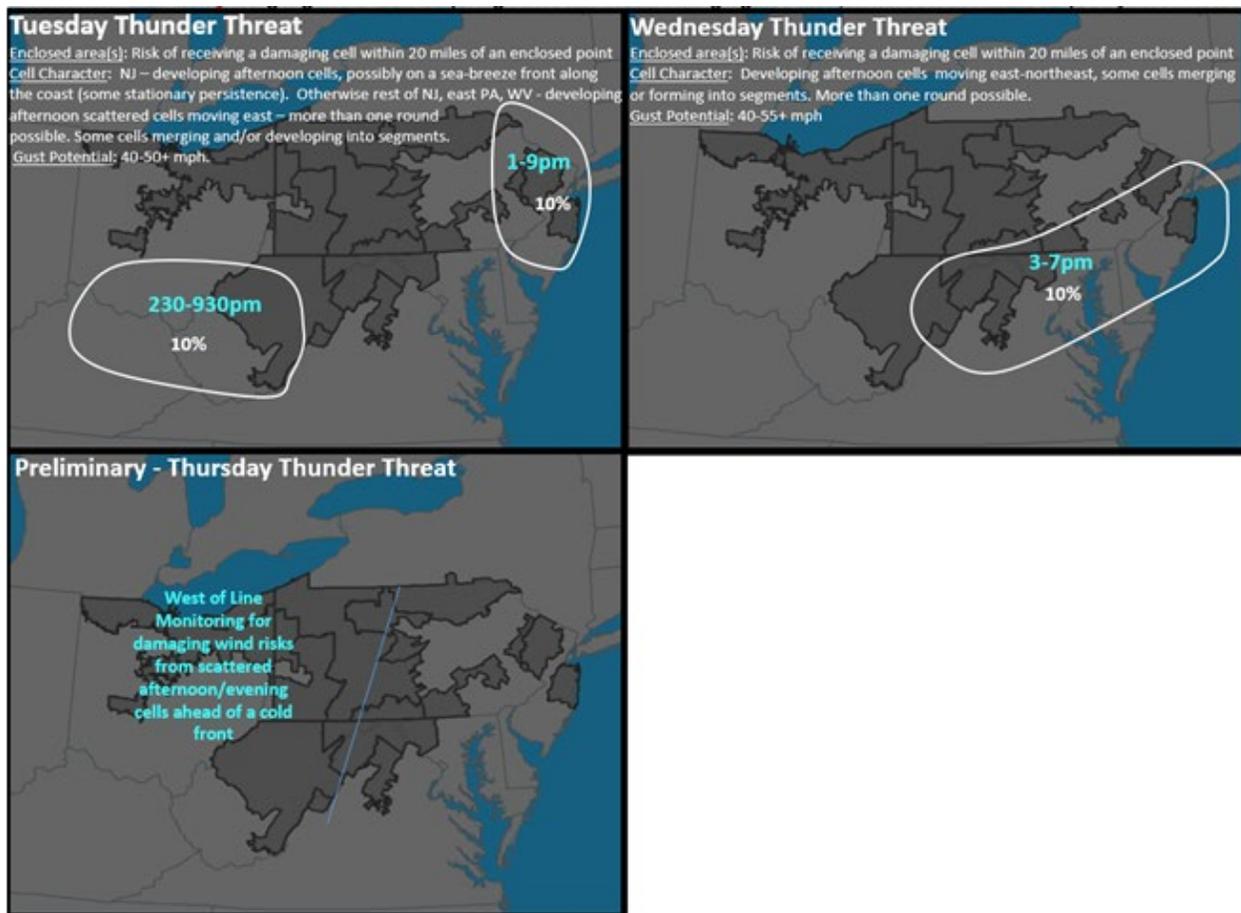
Attachment E: Meteorologist Reports

Tuesday July 18, 2023 @ 0852

Changes:

1. Today: Added area in WV. Confidence is above normal that there will be activity, and near normal regarding risk levels.
2. Wednesday: Added threat for southeast/east FE. Confidence is above normal cells will form in the outlined area, but slightly below normal for risk levels of damage.
3. Thursday: Added indication of threat from an approaching cold front. Confidence is normal for this panel.

See graphics below for further information:

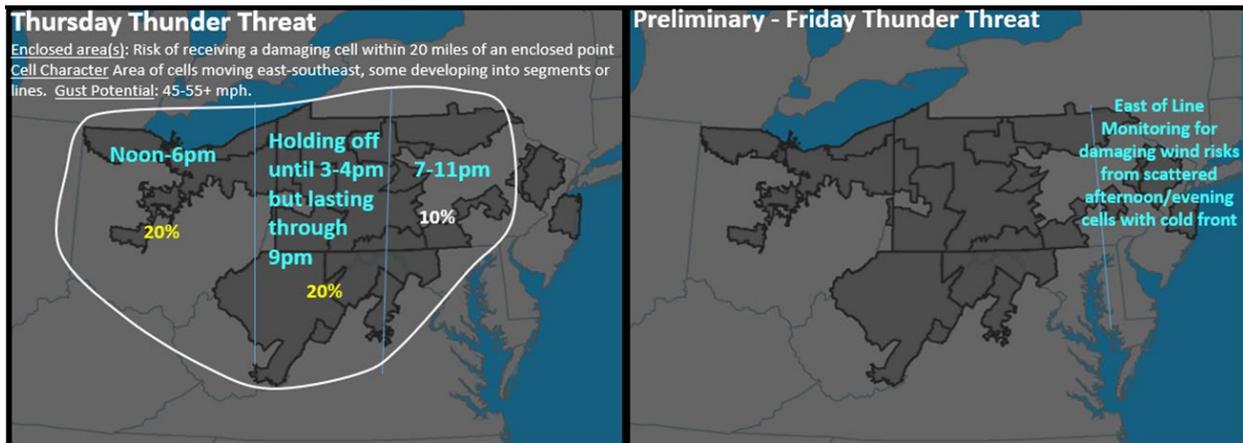


Wednesday July 19, 2023 @ 0947

Changes:

1. Today: Removed threat.
2. Thursday: Added details of threat level and timing with storms ahead of a front. Confidence is above normal cells will form and push through the outlined area, but slightly below normal with coverage and hence risk levels of damage.
3. Friday: Added indication of residual threat from the. Confidence is normal for this panel.

See graphics below for further information:



Thursday July 20, 2023 @ 0913

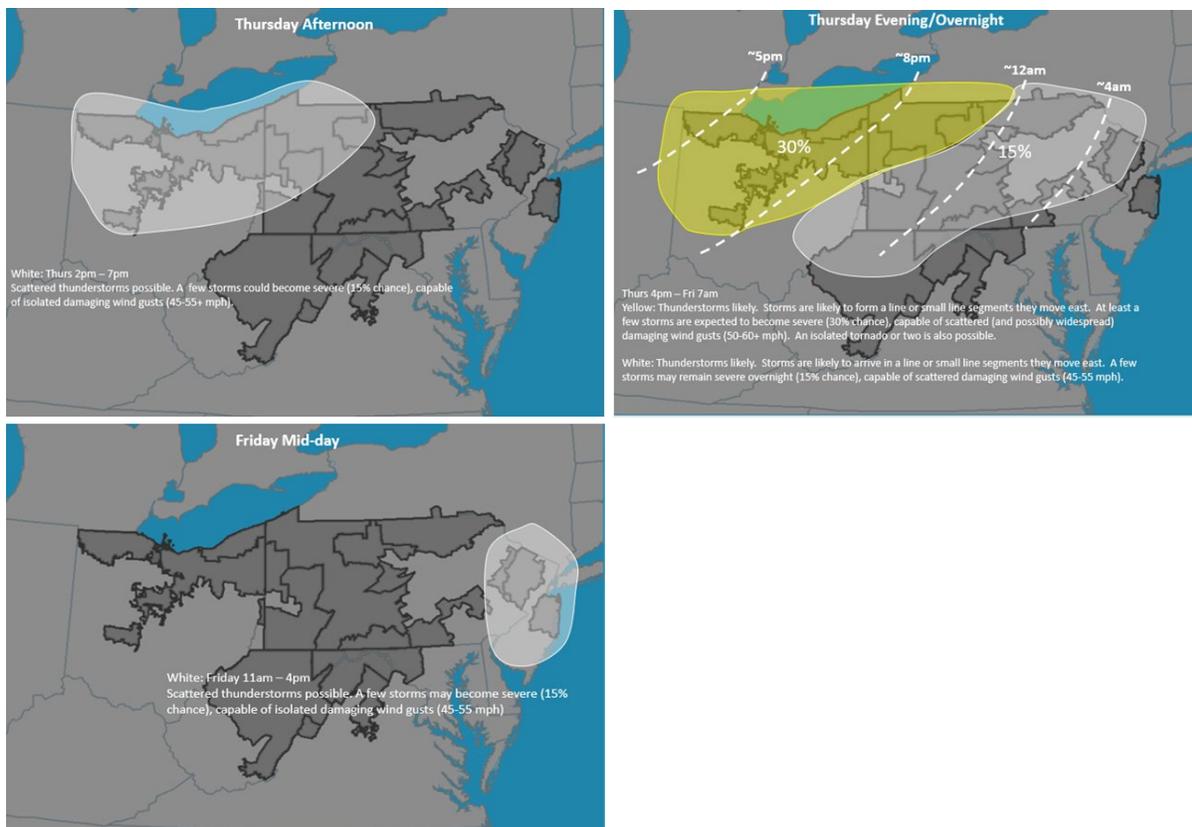
Changes:

- Separated today into two separate thunderstorm threats, 1) this afternoon across portions of western FE, and 2) a more legitimate threat this evening and overnight for most portions of the northern half of FE as a cold front moves east.
- Extended threat this evening/overnight eastward to include areas of central/eastern PA and NJ.
- Slight increase in severe storm/wind damage potential with the evening/overnight storms across portions OH and western PA.
- Added an area on Friday for scattered severe storm potential across areas of far eastern PA and NJ.

Notes:

- The timing and intensity of the storms this evening/overnight are still a bit uncertain, as any storms that may develop this afternoon could impact the threat of later storms associated with the cold front. Additional updated alerts may be warranted to change or update the situation.
- Conditions will support at least an isolated damaging wind threat overnight as storms move eastward, even in the early morning hours.
- A round of storms may re-develop mid-day Friday in eastern PA and NJ—although this threat is at least partially tied to overnight activity, and therefore remains a bit uncertain.

See graphics below for further information:



Thursday July 20, 2023 @ 1640

Changes:

- Only update this evening is raise risk for severe storms with damaging wind gusts for areas of northeast OH and northwest PA. A line of severe storms has developed over Michigan this afternoon and will cross Lake Erie and impact these areas later this evening. This line will bring the potential for both widespread and significant (60+ mph) damaging wind gusts.

Otherwise, there are no major changes to other areas of the forecast for this evening for tomorrow at this time. Only small adjustment is to timing of potential storms Friday afternoon across eastern PA and NJ.

See graphics below for further information:

