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January 11, 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 –
Pennsylvania Electric Company; Docket No. M-2021-3023564**

Dear Secretary Chiavetta:

Pursuant to 52 Pa. Code § 67.1, Pennsylvania Electric Company (“Penelec”) submits written notification of completed restoration efforts following storm conditions that began on December 22, 2022 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: Pennsylvania Electric Company ("Penelec")
Address: 800 Cabin Hill Road
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:

December 23, 2022 1158
(Date) *(Time)*

5. Interruption or Outage:

(a) Number of customers affected: 50,105 (Represents 8.8% 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	3,452	31	0
Blair	1,639	53	5
Bradford	200	16	0
Cambria	6,774	98	2
Centre	361	8	0
Clarion	81	9	0
Clearfield	8,941	75	8
Crawford	2,538	25	0
Cumberland	49	7	0
Erie	5,686	96	5
Forest	772	7	0
Franklin	14	4	0
Huntingdon	782	10	1
Indiana	1,185	37	0
Jefferson	3,286	37	0
Lycoming	14	3	0
McKean	530	10	0
Mifflin	744	26	0
Perry	155	7	0
Potter	1	1	0
Somerset	2,784	43	1
Sullivan	268	13	1
Susquehanna	761	17	0
Tioga	75	11	0
Venango	4,743	32	0
Warren	963	14	0
Wayne	44	5	0
Westmoreland	909	5	0
Wyoming	2,354	17	0
Total	50,105	717	23

(d) Approximate number of outage cases exceeding 6 or more hours in duration: 354

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

(d) Reason for the interruption or outages: Beginning Thursday morning, December 22, 2022, Winter Storm Elliott, producing a wintry mix of snow and ice along with high

wind gusts, moved from west to east across Pennsylvania including the Penelec service territory. Wind gusts up to 47 miles per hour were experienced in the Penelec service territory on December 23, 2022. See Attachment B for the maximum wind gusts for December 23 and 24, 2022 and 24-hour total precipitation for December 22 and 23, 2022.

Damage as a result of the high winds included downed trees/power lines, damaged and broken poles/crossarms, and damaged equipment. Altoona and Lewistown were the hardest hit areas. Approximately 41% of the total outages that occurred were tree related. Wind speeds, which occasionally exceeded safe work ratings for the aerial lifts combined with subzero temperatures and dangerous wind chills hampered restoration efforts. See Attachment B for the maximum and minimum temperatures for December 23 and 24.

Preliminary data indicate the reliability impact of the storm was 22.1 minutes of SAIDI, 0.09 of SAIFI, and an overall storm CAIDI of 251.3 minutes.

- (g) Projected time of restoration: It was estimated that the majority of customers would be restored by 2300 on December 24, 2022.

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	234	Line Workers
Penn Power	6	Line Workers
West Penn	5	Line Workers
Subtotal	245	Line Workers
Thayer	15	Line Contractor
Thompson	3	Line Contractor
CW Wright	10	Line Contractor
JWD	7	Line Contractor
Penn Line	7	Line Contractor
H&M	15	Line Contractor
Subtotal	57	Line Contractor
Asplundh	30	Forestry Contractor
Davey Tree	31	Forestry Contractor
Pennline	52	Forestry Contractor
Lewis	20	Forestry Contractor

Hazlett	21	Forestry Contractor
Townsend	9	Forestry Contractor
TreeSmiths	53	Forestry Contractor
Subtotal	216	Forestry Contractor
Penelec	30	Hazard Responders
Subtotal	30	Hazard Responders
Penelec	17	Supporting Roles
Subtotal	17	Supporting Roles
Grand Total	565	

- (i) The date and time of the first information of a service interruption: December 22, 2022 at 2200.
- (j) The date and time that repair crews were assembled: December 22, 2022 at 2200.
- (k) The actual time that service was restored to the last affected customer: December 27, 2022 at 1554.
- (l) A general description of the physical damage sustained by the utility facilities as a result of the interruption/outage:

Equipment	Number
Crossarms Replaced	54
Cutouts Replaced	82
Poles Replaced	21
Transformers Replaced	35
Wire & Cable Replaced (feet)	6,529

- (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
191621	Bedford	20	4,717	12/23/2022 0805	12/26/2022 1442
193365	Cambria	2	4,671	12/23/2022 0959	12/26/2022 1550
192517	Cambria	1	4,653	12/23/2022 0902	12/26/2022 1435
193259	Cambria	10	4,613	12/23/2022 0952	12/26/2022 1445
196041	Cambria	2	4,599	12/23/2022 1225	12/26/2022 1704
215713	Blair	2	4,573	12/23/2022 0744	12/26/2022 1157
216861	Cambria	1	4,451	12/23/2022 1613	12/26/2022 1824
199264	Cambria	4	4,394	12/23/2022 1444	12/26/2022 1558
200338	Cambria	2	4,391	12/23/2022 1527	12/26/2022 1638
202624	Indiana	1	4,389	12/23/2022 1655	12/26/2022 1804
195321	Huntingdon	1	4,338	12/23/2022 1152	12/26/2022 1210
198418	Cambria	1	4,223	12/23/2022 1411	12/26/2022 1234
200789	Huntingdon	1	3,991	12/23/2022 1542	12/26/2022 1013
202276	Huntingdon	1	3,956	12/23/2022 1639	12/26/2022 1035
204354	Clearfield	2	3,923	12/23/2022 1817	12/26/2022 1140
203321	Blair	1	3,909	12/23/2022 1726	12/26/2022 1035
215192	Cambria	9	3,907	12/23/2022 0730	12/26/2022 0037
204191	Clearfield	1	3,900	12/23/2022 0000	12/25/2022 1700
206416	Huntingdon	3	3,776	12/23/2022 2039	12/26/2022 1135
207660	Huntingdon	1	3,632	12/23/2022 2230	12/26/2022 1102
195488	Cambria	4	3,630	12/23/2022 0800	12/25/2022 2030
191232	Jefferson	7	3,628	12/23/2022 0727	12/25/2022 1955
209122	Clearfield	2	3,601	12/23/2022 0809	12/25/2022 2010
215122	Clearfield	1	3,601	12/23/2022 0809	12/25/2022 2010
192797	Blair	1	3,590	12/23/2022 0920	12/25/2022 2110
192797	Blair	3	3,571	12/23/2022 0920	12/25/2022 2051
192866	Clearfield	1	3,567	12/23/2022 0925	12/25/2022 2052
214965	Blair	2	3,349	12/23/2022 1156	12/25/2022 1945
211463	Blair	1	3,333	12/24/2022 0957	12/26/2022 1730
213417	Clearfield	5	3,318	12/23/2022 0842	12/25/2022 1600
213415	Clearfield	1	3,283	12/23/2022 0842	12/25/2022 1525

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
215468	Cambria	1	3,273	12/23/2022 2147	12/26/2022 0420
192235	Blair	1	3,271	12/23/2022 0844	12/25/2022 1515
191579	Cambria	25	3,250	12/23/2022 0800	12/25/2022 1410
202636	Clearfield	6	3,238	12/23/2022 0719	12/25/2022 1317
210550	Bedford	3	3,202	12/23/2022 0943	12/25/2022 1505
193915	Bedford	35	3,083	12/23/2022 1028	12/25/2022 1351
210436	Bedford	4	3,072	12/23/2022 1349	12/25/2022 1701
213836	Clearfield	4	3,025	12/23/2022 0719	12/25/2022 0944
207576	Blair	1	3,021	12/23/2022 1153	12/25/2022 1414
197421	Mifflin	2	2,972	12/23/2022 1323	12/25/2022 1455
214360	Blair	1	2,967	12/23/2022 1153	12/25/2022 1320
214361	Blair	3	2,948	12/23/2022 1153	12/25/2022 1301
202128	Blair	15	2,945	12/23/2022 1622	12/25/2022 1727
209254	Clearfield	6	2,943	12/23/2022 0719	12/25/2022 0822
197935	Clearfield	3	2,919	12/23/2022 1346	12/25/2022 1425
191650	Blair	1	2,910	12/23/2022 0808	12/25/2022 0838
191678	Clearfield	5	2,894	12/23/2022 0811	12/25/2022 0825
210475	Clearfield	26	2,894	12/23/2022 1021	12/25/2022 1035
200828	Huntingdon	3	2,876	12/23/2022 1544	12/25/2022 1540
201791	Cambria	2	2,872	12/23/2022 1619	12/25/2022 1611
195302	Mifflin	15	2,857	12/23/2022 1151	12/25/2022 1128
214092	Mifflin	2	2,792	12/23/2022 1333	12/25/2022 1205
207576	Blair	18	2,767	12/23/2022 1153	12/25/2022 1000
210884	Blair	3	2,747	12/24/2022 1143	12/26/2022 0930
193915	Bedford	28	2,745	12/23/2022 1606	12/25/2022 1351
214027	Blair	3	2,736	12/23/2022 1653	12/25/2022 1429
211451	Mifflin	2	2,735	12/23/2022 1212	12/25/2022 0947
213104	Mifflin	2	2,678	12/24/2022 2125	12/26/2022 1803
192223	Blair	2	2,550	12/23/2022 0844	12/25/2022 0314
203511	Clearfield	6	2,538	12/23/2022 1736	12/25/2022 1154
190402	Bradford	2	2,500	12/22/2022 2200	12/24/2022 1540
202590	Blair	27	2,497	12/23/2022 1653	12/25/2022 1030
215813	Cambria	1	2,480	12/24/2022 1634	12/26/2022 0954
205958	Blair	1	2,473	12/23/2022 1957	12/25/2022 1310
213171	Blair	1	2,455	12/23/2022 0830	12/25/2022 0125
204535	Clearfield	5	2,435	12/23/2022 1840	12/25/2022 1115
201594	Centre	19	2,420	12/23/2022 1611	12/25/2022 0831

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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
213414	Clearfield	12	2,408	12/23/2022 0842	12/25/2022 0050
200727	Blair	5	2,404	12/23/2022 1540	12/25/2022 0744
207082	Blair	4	2,354	12/23/2022 2141	12/25/2022 1255
193357	Indiana	4	2,281	12/23/2022 0959	12/25/2022 0000
212870	Blair	58	2,254	12/23/2022 0830	12/24/2022 2204
212388	Jefferson	1	2,236	12/24/2022 0122	12/25/2022 1438
202502	Blair	1	2,211	12/23/2022 1649	12/25/2022 0540
207163	Jefferson	1	2,187	12/23/2022 0745	12/24/2022 2012
207777	Cambria	20	2,186	12/23/2022 2247	12/25/2022 1113
191988	Blair	14	2,104	12/23/2022 0830	12/24/2022 1934
207165	Bradford	1	2,093	12/22/2022 2202	12/24/2022 0855
199683	Blair	4	2,092	12/23/2022 1502	12/25/2022 0154
212547	Cambria	2	2,076	12/23/2022 0719	12/24/2022 1755
192382	Centre	38	2,061	12/23/2022 0852	12/24/2022 1913
212548	Cambria	1	2,059	12/23/2022 0719	12/24/2022 1738
193695	Clearfield	24	2,048	12/23/2022 1028	12/24/2022 2036
212546	Cambria	1	2,045	12/23/2022 0719	12/24/2022 1724
212545	Cambria	1	2,033	12/23/2022 0719	12/24/2022 1712
193417	Cambria	6	2,024	12/23/2022 0719	12/24/2022 1703
194739	Blair	44	2,018	12/23/2022 1127	12/24/2022 2105
211259	Indiana	1	1,949	12/23/2022 0641	12/24/2022 1510
212873	Venango	2	1,947	12/23/2022 1445	12/24/2022 2312
191776	Huntingdon	1	1,933	12/23/2022 0817	12/24/2022 1630
211240	Venango	3	1,926	12/23/2022 1139	12/24/2022 1945
194245	Clearfield	31	1,917	12/23/2022 1103	12/24/2022 1900
210738	Jefferson	5	1,916	12/23/2022 0847	12/24/2022 1643
191359	Erie	3	1,902	12/23/2022 0736	12/24/2022 1518
193167	Clearfield	5	1,773	12/23/2022 0947	12/24/2022 1520
212128	Clearfield	1	1,761	12/23/2022 1109	12/24/2022 1630
193232	Jefferson	3	1,759	12/23/2022 0951	12/24/2022 1510
206333	Sullivan	10	1,746	12/23/2022 1020	12/24/2022 1526
206725	Sullivan	2	1,742	12/23/2022 1014	12/24/2022 1516
193187	Mifflin	58	1,729	12/23/2022 0949	12/24/2022 1438
192295	Centre	3	1,723	12/23/2022 0847	12/24/2022 1330
201923	Crawford	27	1,718	12/23/2022 1112	12/24/2022 1550
191126	Indiana	174	1,702	12/23/2022 0716	12/24/2022 1138
193203	Indiana	97	1,695	12/23/2022 0633	12/24/2022 1048

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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
201923	Crawford	5	1,693	12/23/2022 1112	12/24/2022 1525
193349	Lycoming	2	1,687	12/23/2022 0958	12/24/2022 1405
193854	Clearfield	4	1,680	12/23/2022 1036	12/24/2022 1436
192424	Clearfield	27	1,662	12/23/2022 0855	12/24/2022 1237
191667	Clarion	2	1,659	12/23/2022 0809	12/24/2022 1148
191077	Indiana	19	1,645	12/23/2022 0712	12/24/2022 1037
196831	Lycoming	6	1,622	12/23/2022 0925	12/24/2022 1227
194580	Clarion	1	1,611	12/23/2022 0935	12/24/2022 1226
209907	Jefferson	3	1,608	12/23/2022 1901	12/24/2022 2149
192117	Blair	40	1,607	12/23/2022 0837	12/24/2022 1124
191325	Clearfield	30	1,602	12/23/2022 0733	12/24/2022 1015
201071	Clearfield	3	1,598	12/23/2022 1555	12/24/2022 1833
191439	Jefferson	267	1,592	12/23/2022 0745	12/24/2022 1017
193117	Bedford	113	1,572	12/23/2022 0943	12/24/2022 1155
210676	Tioga	1	1,564	12/23/2022 1353	12/24/2022 1557
203378	Venango	1	1,552	12/23/2022 1238	12/24/2022 1430
203378	Venango	8	1,552	12/23/2022 1238	12/24/2022 1430
191618	Erie	15	1,539	12/23/2022 0804	12/24/2022 0943
193854	Clearfield	6	1,529	12/23/2022 1036	12/24/2022 1205
209724	Erie	1	1,507	12/23/2022 0844	12/24/2022 0951
192211	Erie	2	1,500	12/23/2022 0843	12/24/2022 0943
193117	Bedford	2	1,498	12/23/2022 0943	12/24/2022 1041
195061	Mifflin	34	1,495	12/23/2022 1140	12/24/2022 1235
197754	Erie	5	1,487	12/23/2022 1336	12/24/2022 1423
201892	Jefferson	7	1,481	12/23/2022 1629	12/24/2022 1710
194576	Sullivan	1	1,445	12/23/2022 1118	12/24/2022 1123
211092	Cambria	23	1,435	12/24/2022 1227	12/25/2022 1222
191618	Erie	10	1,418	12/23/2022 1005	12/24/2022 0943
197162	Erie	5	1,407	12/23/2022 1313	12/24/2022 1240
198657	Forest	1	1,407	12/23/2022 1420	12/24/2022 1347
202836	Crawford	1	1,399	12/23/2022 1710	12/24/2022 1629
193448	Clearfield	15	1,398	12/23/2022 0842	12/24/2022 0800
211964	Clearfield	2	1,384	12/24/2022 1546	12/25/2022 1450
202851	Cambria	105	1,383	12/23/2022 1712	12/24/2022 1615
199785	Jefferson	1	1,383	12/23/2022 1507	12/24/2022 1410
197588	Cambria	2	1,364	12/23/2022 1329	12/24/2022 1213
206298	Indiana	2	1,356	12/23/2022 1014	12/24/2022 0850

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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
199241	Erie	1	1,349	12/23/2022 1444	12/24/2022 1313
203378	Venango	3	1,349	12/23/2022 1238	12/24/2022 1107
210635	Tioga	2	1,345	12/23/2022 1905	12/24/2022 1730
205403	Blair	31	1,345	12/23/2022 1915	12/24/2022 1740
203413	Clearfield	83	1,342	12/23/2022 1732	12/24/2022 1554
206349	Somerset	15	1,337	12/23/2022 1840	12/24/2022 1657
199640	Westmoreland	1	1,336	12/23/2022 1437	12/24/2022 1253
195061	Mifflin	23	1,328	12/23/2022 1427	12/24/2022 1235
195353	Erie	1	1,311	12/23/2022 1154	12/24/2022 0945
204878	Sullivan	7	1,295	12/23/2022 0100	12/23/2022 2235
198155	Somerset	1	1,281	12/23/2022 1356	12/24/2022 1117
206766	Indiana	78	1,263	12/23/2022 1442	12/24/2022 1145
207907	Venango	2	1,248	12/23/2022 2312	12/24/2022 2000
203013	Cambria	1	1,212	12/23/2022 1718	12/24/2022 1330
211920	Jefferson	8	1,212	12/23/2022 1919	12/24/2022 1531
207506	Indiana	1	1,209	12/23/2022 2206	12/24/2022 1815
197266	Erie	1	1,204	12/23/2022 1318	12/24/2022 0922
214092	Mifflin	1	1,197	12/23/2022 1333	12/24/2022 0930
211500	Blair	10	1,192	12/23/2022 2353	12/24/2022 1945
211416	Crawford	9	1,162	12/23/2022 1803	12/24/2022 1325
210914	Cambria	2	1,157	12/23/2022 1648	12/24/2022 1205
205438	Somerset	97	1,155	12/23/2022 1320	12/24/2022 0835
198722	Cambria	2	1,152	12/23/2022 1424	12/24/2022 0936
191032	Cambria	14	1,139	12/23/2022 0658	12/24/2022 0157
211825	Bedford	2	1,120	12/24/2022 0307	12/24/2022 2147
206763	Blair	64	1,111	12/23/2022 2113	12/24/2022 1544
208070	Jefferson	1	1,108	12/23/2022 2357	12/24/2022 1825
199182	Cambria	5	1,087	12/23/2022 1441	12/24/2022 0848
208061	Crawford	55	1,071	12/23/2022 1732	12/24/2022 1123
211151	Cambria	1	1,051	12/23/2022 1924	12/24/2022 1255
204198	Wyoming	31	1,050	12/23/2022 1818	12/24/2022 1148
208874	Bedford	303	1,043	12/24/2022 0206	12/24/2022 1929
208874	Bedford	278	1,033	12/24/2022 0206	12/24/2022 1919
208019	Jefferson	14	1,028	12/23/2022 0737	12/24/2022 0045
208654	Indiana	1	1,020	12/24/2022 0330	12/24/2022 2030
215047	Centre	1	1,006	12/25/2022 1908	12/26/2022 1154
205286	Jefferson	13	995	12/23/2022 1907	12/24/2022 1142

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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
204181	Erie	17	982	12/23/2022 1817	12/24/2022 1039
189933	Wyoming	27	970	12/22/2022 2218	12/23/2022 1428
206763	Blair	73	965	12/23/2022 2113	12/24/2022 1318
208365	Jefferson	10	958	12/24/2022 0122	12/24/2022 1720
205250	Tioga	14	949	12/23/2022 1905	12/24/2022 1054
196125	Bradford	1	938	12/23/2022 1227	12/24/2022 0405
194076	Mifflin	7	905	12/23/2022 1055	12/24/2022 0200
197600	Cambria	10	891	12/23/2022 1329	12/24/2022 0420
211145	Somerset	97	885	12/24/2022 1235	12/25/2022 0320
206458	Mifflin	1	884	12/23/2022 2045	12/24/2022 1129
212878	Wayne	1	882	12/24/2022 1943	12/25/2022 1025
205944	Indiana	7	880	12/23/2022 1955	12/24/2022 1035
213709	Mifflin	1	876	12/25/2022 0701	12/25/2022 2137
207501	Erie	2	868	12/23/2022 2206	12/24/2022 1234
207650	Franklin	2	858	12/23/2022 1917	12/24/2022 0935
217038	Cambria	7	857	12/26/2022 1928	12/27/2022 0945
202460	Cambria	3	857	12/23/2022 1647	12/24/2022 0704
208880	Cambria	3	850	12/24/2022 0520	12/24/2022 1930
209152	Blair	2	839	12/24/2022 0636	12/24/2022 2035
205174	Jefferson	21	837	12/23/2022 1901	12/24/2022 0858
191200	Erie	166	827	12/23/2022 0724	12/23/2022 2111
202312	Bradford	3	821	12/23/2022 1641	12/24/2022 0622
193526	Sullivan	15	820	12/23/2022 0044	12/23/2022 1424
215900	Clearfield	8	812	12/26/2022 0059	12/26/2022 1431
215900	Clearfield	70	809	12/26/2022 0059	12/26/2022 1428
207914	Cambria	10	793	12/23/2022 2002	12/24/2022 0915
207473	Forest	157	788	12/23/2022 2202	12/24/2022 1110
206763	Blair	38	774	12/23/2022 2113	12/24/2022 1007
201801	Indiana	47	770	12/23/2022 0656	12/23/2022 1946
204049	Venango	6	767	12/23/2022 1003	12/23/2022 2250
191402	Erie	9	760	12/23/2022 0740	12/23/2022 2020
208566	Blair	1	760	12/23/2022 1428	12/24/2022 0308
198815	Blair	3	760	12/23/2022 1428	12/24/2022 0308
208561	Blair	34	760	12/23/2022 1428	12/24/2022 0308
198395	Somerset	5	751	12/23/2022 1409	12/24/2022 0240
205623	Cambria	7	739	12/23/2022 1930	12/24/2022 0749
192416	Clearfield	36	736	12/23/2022 0854	12/23/2022 2110

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
207806	Erie	3	733	12/23/2022 2254	12/24/2022 1107
192877	Jefferson	29	730	12/23/2022 0711	12/23/2022 1921
195385	Indiana	25	728	12/23/2022 0650	12/23/2022 1858
192158	Jefferson	27	727	12/23/2022 0840	12/23/2022 2047
199206	Mifflin	1	718	12/23/2022 1442	12/24/2022 0240
211059	Blair	6	711	12/24/2022 1219	12/25/2022 0010
208922	Indiana	25	711	12/24/2022 0534	12/24/2022 1725
208753	Perry	12	709	12/23/2022 2314	12/24/2022 1103
193447	Clearfield	12	708	12/23/2022 0907	12/23/2022 2055
213434	Cambria	19	707	12/25/2022 0152	12/25/2022 1339
208323	Mifflin	373	697	12/23/2022 1333	12/24/2022 0110
193193	Erie	1	697	12/23/2022 0949	12/23/2022 2126
191503	Cambria	51	696	12/23/2022 0749	12/23/2022 1925
213028	Centre	28	696	12/24/2022 2049	12/25/2022 0825
213006	Clearfield	9	692	12/24/2022 2036	12/25/2022 0808
207549	Mifflin	13	689	12/23/2022 2213	12/24/2022 0942
204602	Jefferson	33	689	12/23/2022 0712	12/23/2022 1841
197231	Somerset	10	670	12/23/2022 1317	12/24/2022 0027
207835	Cambria	22	659	12/23/2022 1225	12/23/2022 2324
197681	Clearfield	1	658	12/23/2022 0958	12/23/2022 2056
207974	Bradford	23	639	12/23/2022 2329	12/24/2022 1008
191395	Erie	4	630	12/23/2022 0740	12/23/2022 1810
191013	Erie	25	625	12/23/2022 0655	12/23/2022 1720
191432	Blair	195	622	12/23/2022 0743	12/23/2022 1805
190410	Susquehanna	17	621	12/23/2022 0206	12/23/2022 1227
193298	Erie	21	620	12/23/2022 0954	12/23/2022 2014
195332	Blair	54	615	12/23/2022 1153	12/23/2022 2208
193051	Erie	4	610	12/23/2022 0940	12/23/2022 1950
190527	Wayne	1	604	12/23/2022 0331	12/23/2022 1335
193594	Sullivan	8	600	12/23/2022 1020	12/23/2022 2020
197413	Somerset	5	597	12/23/2022 1323	12/23/2022 2320
198759	Venango	6	590	12/23/2022 1022	12/23/2022 2012
191620	Wyoming	208	588	12/22/2022 2245	12/23/2022 0833
206725	Sullivan	6	586	12/23/2022 1014	12/23/2022 2000
206054	Bedford	4	586	12/23/2022 1034	12/23/2022 2020
200027	Mifflin	71	586	12/23/2022 1516	12/24/2022 0102
212544	Cambria	1	584	12/23/2022 0719	12/23/2022 1703

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
191161	Clearfield	536	578	12/23/2022 0719	12/23/2022 1657
196571	Jefferson	59	575	12/23/2022 0730	12/23/2022 1705
190486	Susquehanna	1	575	12/23/2022 0300	12/23/2022 1235
190408	Bradford	1	574	12/23/2022 0202	12/23/2022 1136
209453	Erie	2	571	12/24/2022 0739	12/24/2022 1710
196925	Somerset	16	568	12/23/2022 1350	12/23/2022 2318
214249	Forest	2	566	12/25/2022 0734	12/25/2022 1700
201801	Indiana	80	558	12/23/2022 0656	12/23/2022 1614
194232	Erie	1	553	12/23/2022 1102	12/23/2022 2015
190149	Wyoming	23	553	12/22/2022 2245	12/23/2022 0758
198654	Erie	9	550	12/23/2022 1220	12/23/2022 2130
197740	Crawford	11	548	12/23/2022 1028	12/23/2022 1936
191592	Clearfield	51	548	12/23/2022 0750	12/23/2022 1658
191238	Erie	26	547	12/23/2022 0728	12/23/2022 1635
191417	Erie	38	538	12/23/2022 0742	12/23/2022 1640
210711	Wyoming	21	532	12/24/2022 0230	12/24/2022 1122
190416	Bradford	35	532	12/23/2022 0136	12/23/2022 1028
194498	McKean	1	531	12/23/2022 1113	12/23/2022 2004
194118	Cambria	12	531	12/23/2022 1058	12/23/2022 1949
192002	Huntingdon	40	526	12/23/2022 0824	12/23/2022 1710
190492	Susquehanna	1	523	12/23/2022 0304	12/23/2022 1147
195046	Erie	1	521	12/23/2022 1139	12/23/2022 2020
191198	Clearfield	76	520	12/23/2022 0724	12/23/2022 1604
191475	Cambria	9	517	12/23/2022 0747	12/23/2022 1624
190946	Susquehanna	2	513	12/23/2022 0635	12/23/2022 1508
194856	Mifflin	9	509	12/23/2022 1131	12/23/2022 2000
197167	Forest	434	507	12/23/2022 1238	12/23/2022 2105
210645	Somerset	3	503	12/24/2022 1055	12/24/2022 1918
205787	Cambria	460	502	12/23/2022 1113	12/23/2022 1935
207888	Somerset	6	500	12/23/2022 2109	12/24/2022 0529
207909	Cambria	15	497	12/23/2022 2312	12/24/2022 0729
191503	Cambria	126	497	12/23/2022 0749	12/23/2022 1606
201419	Clearfield	42	497	12/23/2022 0853	12/23/2022 1710
191319	Somerset	7	496	12/23/2022 0732	12/23/2022 1548
193754	Cumberland	3	495	12/23/2022 0957	12/23/2022 1812
196697	Cumberland	8	495	12/23/2022 0957	12/23/2022 1812
193336	Cumberland	9	495	12/23/2022 0957	12/23/2022 1812

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
210711	Wyoming	24	493	12/24/2022 0230	12/24/2022 1043
198032	Clarion	15	492	12/23/2022 0715	12/23/2022 1527
215900	Clearfield	8	491	12/26/2022 0059	12/26/2022 0910
195156	Erie	17	489	12/23/2022 1147	12/23/2022 1956
205787	Cambria	98	484	12/23/2022 1113	12/23/2022 1917
190419	Susquehanna	9	482	12/23/2022 0211	12/23/2022 1013
206666	Mifflin	44	477	12/23/2022 1333	12/23/2022 2130
193759	Erie	163	471	12/23/2022 1031	12/23/2022 1822
209055	Indiana	83	467	12/24/2022 0557	12/24/2022 1344
208138	Tioga	6	464	12/24/2022 0026	12/24/2022 0810
192429	Sullivan	7	463	12/23/2022 1002	12/23/2022 1745
217956	Erie	2	459	12/27/2022 0453	12/27/2022 1232
200694	Bedford	58	459	12/23/2022 0927	12/23/2022 1706
191168	Erie	134	458	12/23/2022 0722	12/23/2022 1500
213675	Blair	2	457	12/25/2022 0624	12/25/2022 1401
208631	Crawford	4	454	12/24/2022 0322	12/24/2022 1056
208640	Crawford	123	454	12/24/2022 0322	12/24/2022 1056
208632	Crawford	542	454	12/24/2022 0322	12/24/2022 1056
192963	Erie	4	449	12/23/2022 0931	12/23/2022 1700
191973	Clearfield	77	447	12/23/2022 0803	12/23/2022 1530
191762	Warren	17	444	12/23/2022 0816	12/23/2022 1540
191098	Erie	158	442	12/23/2022 0713	12/23/2022 1435
191673	Clearfield	58	442	12/23/2022 0810	12/23/2022 1532
191848	Venango	3	440	12/23/2022 0820	12/23/2022 1540
210711	Wyoming	47	437	12/24/2022 0230	12/24/2022 0947
200907	Crawford	31	432	12/23/2022 1543	12/23/2022 2255
190966	Cambria	23	432	12/23/2022 0640	12/23/2022 1352
189893	Bedford	88	429	12/22/2022 2206	12/23/2022 0515
199042	Cambria	23	426	12/23/2022 1434	12/23/2022 2140
190956	Wayne	5	424	12/23/2022 0636	12/23/2022 1340
197690	Jefferson	27	424	12/23/2022 0819	12/23/2022 1523
193323	Somerset	4	424	12/23/2022 0956	12/23/2022 1700
191400	Erie	6	420	12/23/2022 0740	12/23/2022 1440
202533	Bedford	1	419	12/23/2022 1651	12/23/2022 2350
197690	Jefferson	17	414	12/23/2022 0819	12/23/2022 1513
200913	Erie	27	411	12/23/2022 1734	12/24/2022 0025
191400	Erie	40	410	12/23/2022 0740	12/23/2022 1430

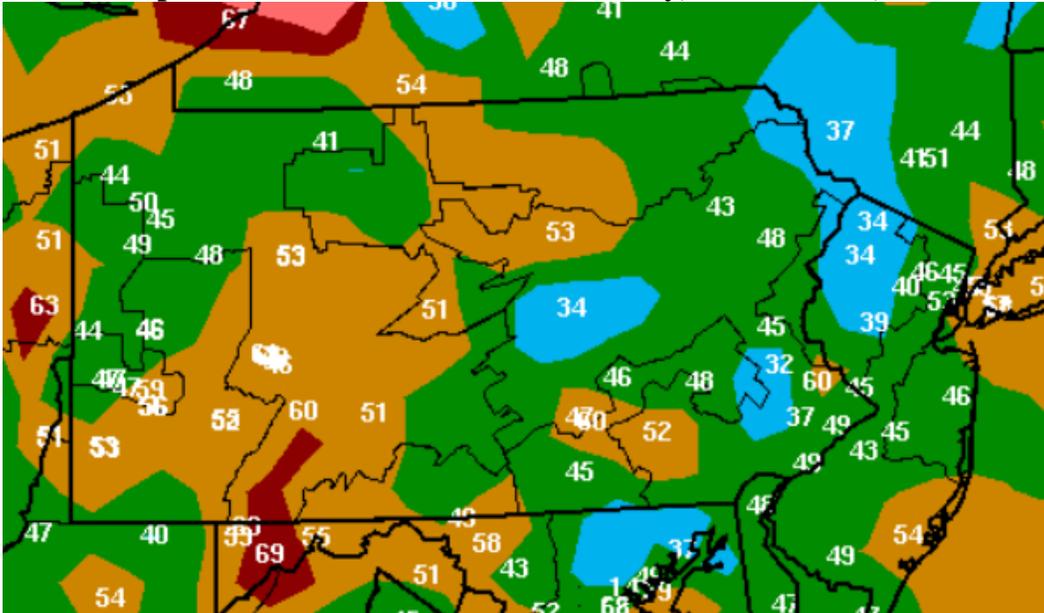
Penelec Storm Report

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
213971	Bradford	31	403	12/25/2022 0949	12/25/2022 1632
207629	Somerset	12	402	12/23/2022 2222	12/24/2022 0504
217804	Warren	2	401	12/27/2022 0902	12/27/2022 1543
204442	Warren	34	400	12/23/2022 1535	12/23/2022 2215
196459	Somerset	3	397	12/23/2022 0753	12/23/2022 1430
211982	Venango	1	394	12/24/2022 1548	12/24/2022 2222
215656	Warren	1	392	12/26/2022 0828	12/26/2022 1500
195798	Warren	172	392	12/23/2022 0843	12/23/2022 1515
194390	Susquehanna	3	387	12/23/2022 0523	12/23/2022 1150
191541	Erie	44	386	12/23/2022 0754	12/23/2022 1420
193268	Clearfield	81	386	12/23/2022 0941	12/23/2022 1607
201580	Warren	5	385	12/23/2022 1610	12/23/2022 2235
193929	Lycoming	6	383	12/23/2022 1042	12/23/2022 1705
190493	Susquehanna	426	382	12/23/2022 0305	12/23/2022 0927
206035	Jefferson	11	382	12/24/2022 0909	12/24/2022 1531
189893	Bedford	152	379	12/22/2022 2206	12/23/2022 0425
192092	Indiana	67	379	12/23/2022 0836	12/23/2022 1455
192261	Erie	123	374	12/23/2022 0846	12/23/2022 1500
193385	Blair	8	374	12/23/2022 1001	12/23/2022 1615
192306	Venango	13	374	12/23/2022 0848	12/23/2022 1502
211786	Clarion	2	370	12/24/2022 1456	12/24/2022 2106
196915	Somerset	9	370	12/23/2022 1258	12/23/2022 1908
191258	Venango	17	369	12/23/2022 0729	12/23/2022 1338
209322	Cambria	5	367	12/24/2022 0717	12/24/2022 1324
209081	Cambria	1	365	12/24/2022 0610	12/24/2022 1215
191081	Erie	102	362	12/23/2022 0712	12/23/2022 1314
210711	Wyoming	235	360	12/24/2022 0230	12/24/2022 0830

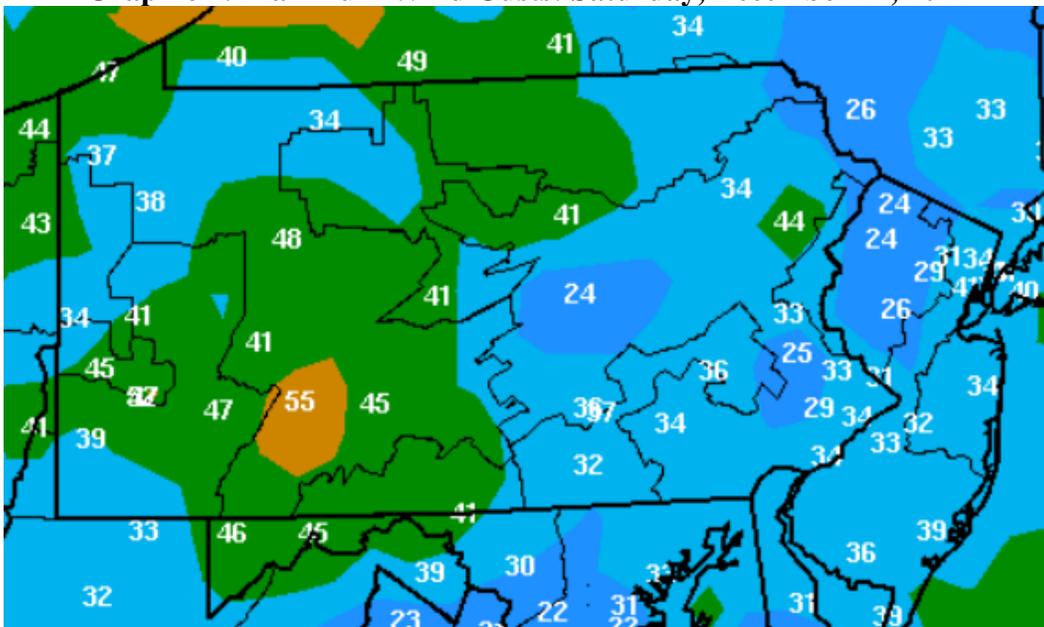
Attachment B: Wind, Precipitation & Temperature Reports

Wind, Precipitation & Temperature Reports: Graphics 1 and 2 illustrate the maximum wind gusts in the Penelec service territory on December 23 and 24, 2022. Graphics 3 and 4 illustrate the 24-Hour Total Precipitation in the Penelec service territory on December 22 and 23, 2022. Graphics 5 and 6 illustrate the maximum and minimum temperatures in the Penelec service territory on December 23 and 24, 2022. The graphics are from the National Oceanic and Atmospheric Administration (“NOAA”).

Graphic 1: Maximum Wind Gusts: Friday, December 23, 2022

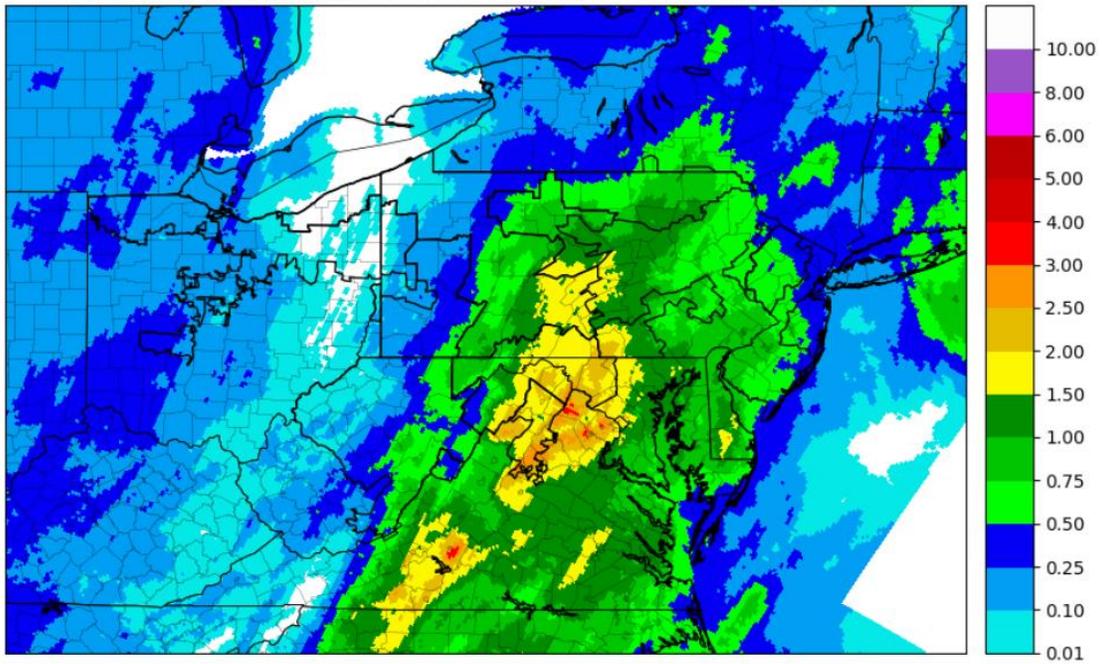


Graphic 2: Maximum Wind Gusts: Saturday, December 24, 2022



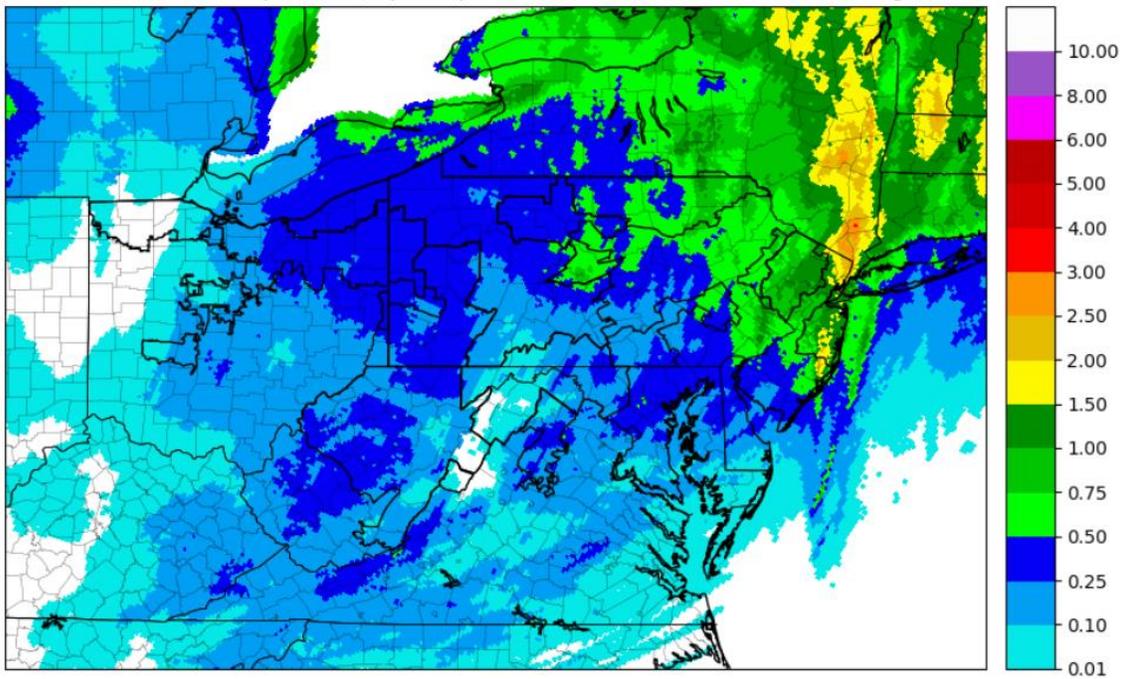
Graphic 3: 24-Hour Total Precipitation: Thursday, December 22, 2022

24 Hour Total Precipitation (Liquid Equivalent) for 22 Dec 22 from NOAA Stage 4

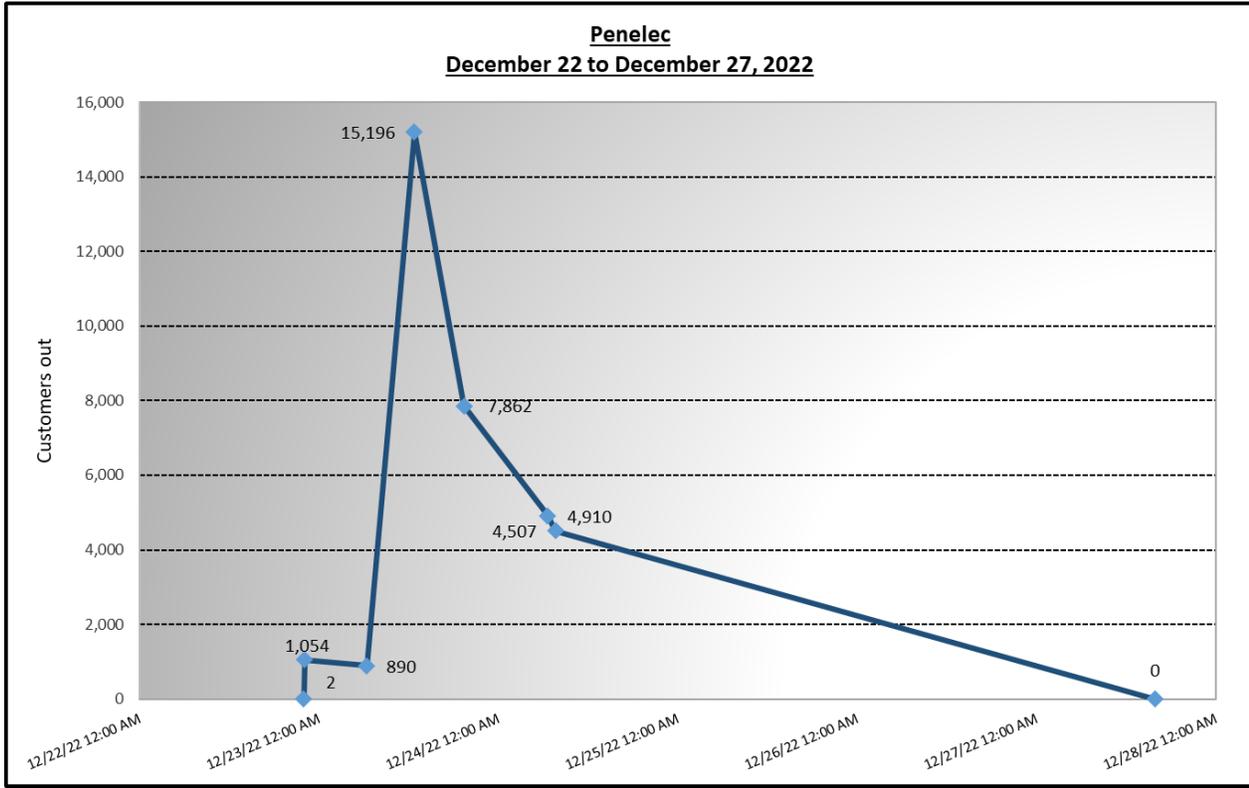


Graphic 4: 24-Hour Total Precipitation: Friday, December 23, 2022

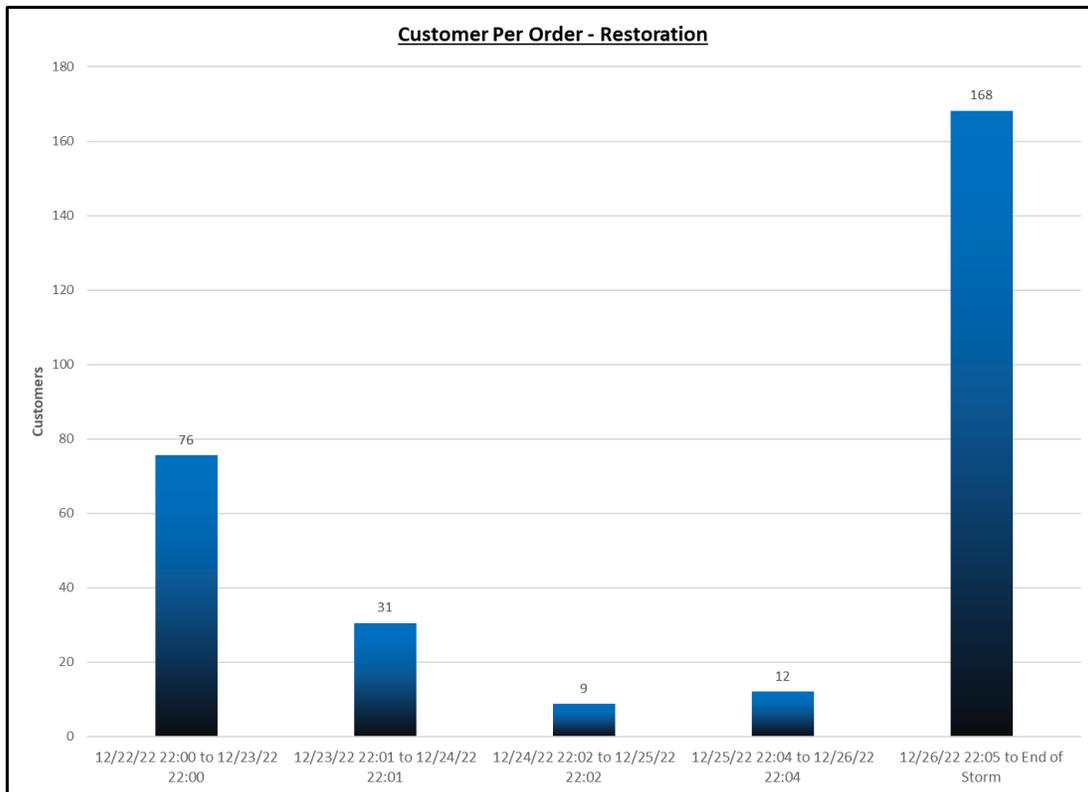
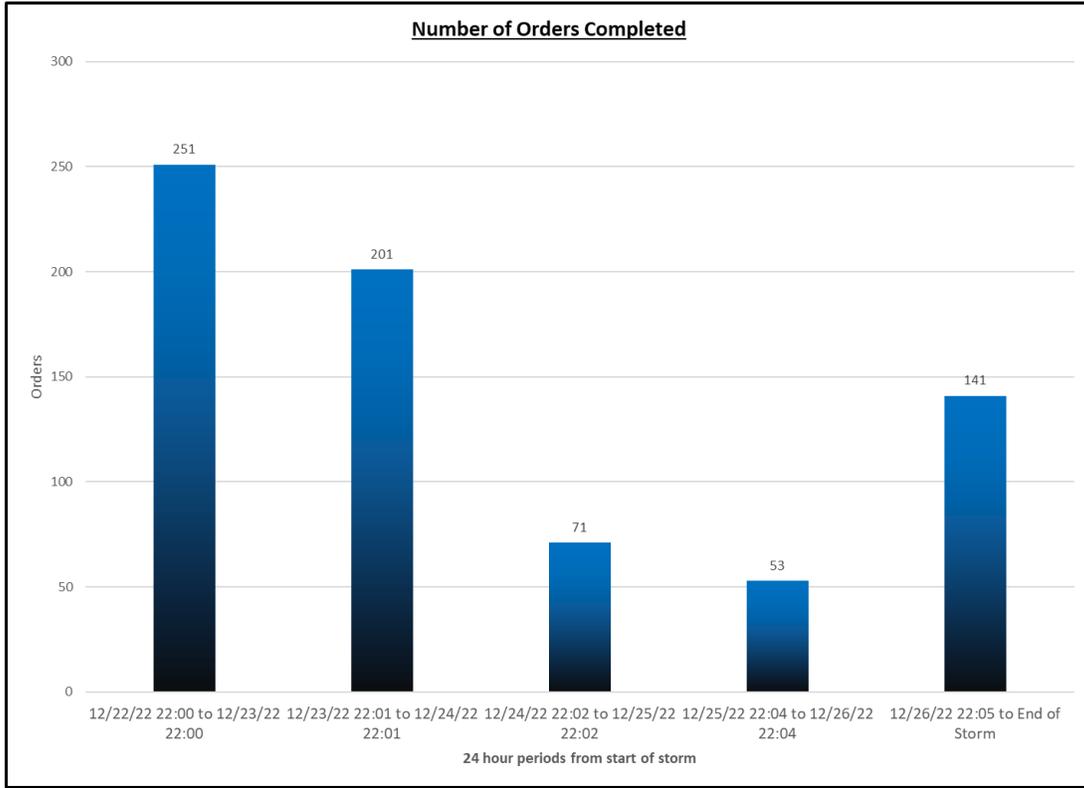
24 Hour Total Precipitation (Liquid Equivalent) for 23 Dec 22 from NOAA Stage 4



Attachment C: Restoration Curve



Attachment D: Order Restoration Graphs



Attachment E: Meteorologist Reports

Sunday December 18, 2022 @ 0833

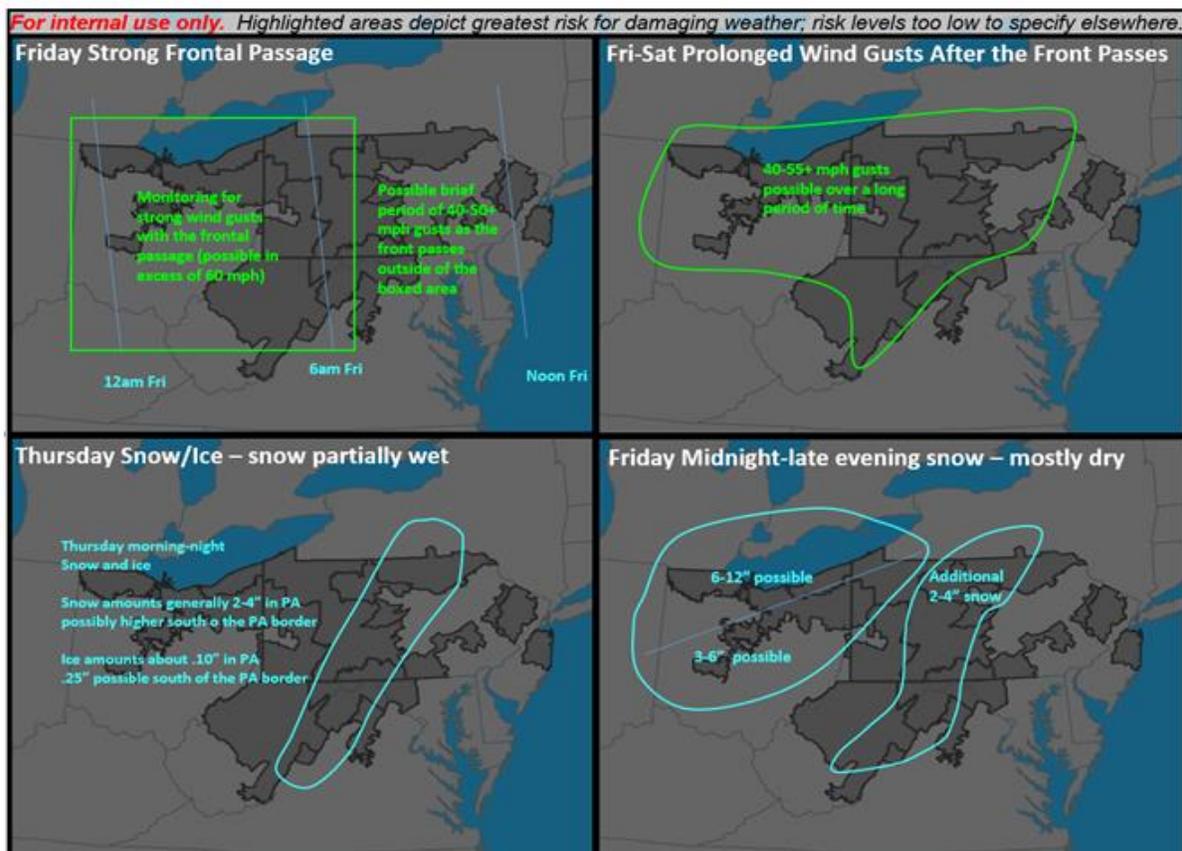
New Issuance: Preliminary outlook for a strong weather event Thu evening through Sat morning in most of FE.

In outlined areas...

1. Moderate confidence in wind forecast – regardless of the strength of the winds with the frontal passage itself (which might be quite powerful in the west half of FE), a prolonged day-long+ duration of strong wind gusts is highly likely after the front passes. The timing of the frontal passage is still in question (may be delayed 12 hours of that depicted)
2. Low confidence in snow/ice forecast - precise path of system may shift east/west by a good 75 miles and shift heavy snow area in FE West accordingly -- and influence amounts of snow/ice in the elevations of WV/MD/southwest PA. Timing of the start/end times of the winter precipitation are not etched in stone.

Two additional post-event concerns heading into Christmas weekend

1. Extreme cold for this time of year - daytime highs in the teens and twenties with over night lows in some cases near or slightly below zero. Wind chill factors in the west half of FE easily in the 10-20 BELOW zero range
2. Persistent light snow in FE West and the typical terrain areas is possible after the main event concludes with no possible melting

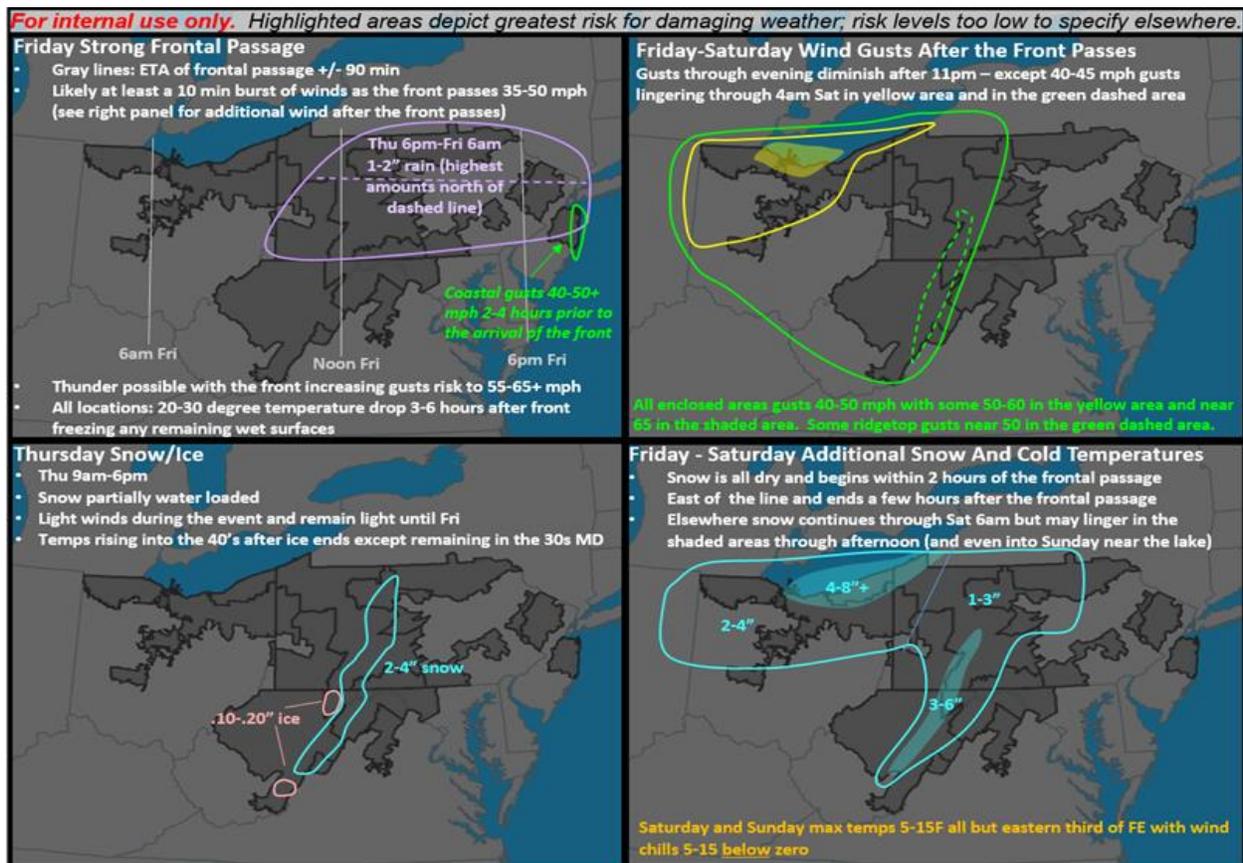


Monday December 19, 2022 @ 1037

Changes - added preliminary details of timing and magnitude to all threats including cold temperatures.

Confidence details

1. Wind gusts
 - a. With the front Friday – confidence is slightly below normal with strength of gusts as the front passes (monitoring for the potential of 60+ mph)
 - b. After the front passes Friday into Saturday – confidence is slightly below with the extent of yellow area (monitoring for potential to extend into east OH)
2. Snow/ice amounts
 - a. Thursday – confidence is slightly below normal with these amounts as the quick-hitting nature of the event may further limit accumulations of both snow and ice
 - b. Friday through Saturday – confidence is below normal with amounts outside of the shaded areas (cold air may lead to more effective accumulations and increase the amounts 1.5-2x that depicted)
3. Temperatures – confidence is high with the strength of the cold air after the front
 - a. Reference temperature forecasts [here](#) and wind chill charts [here](#) to see how quickly exposed skin is prone to frostbite



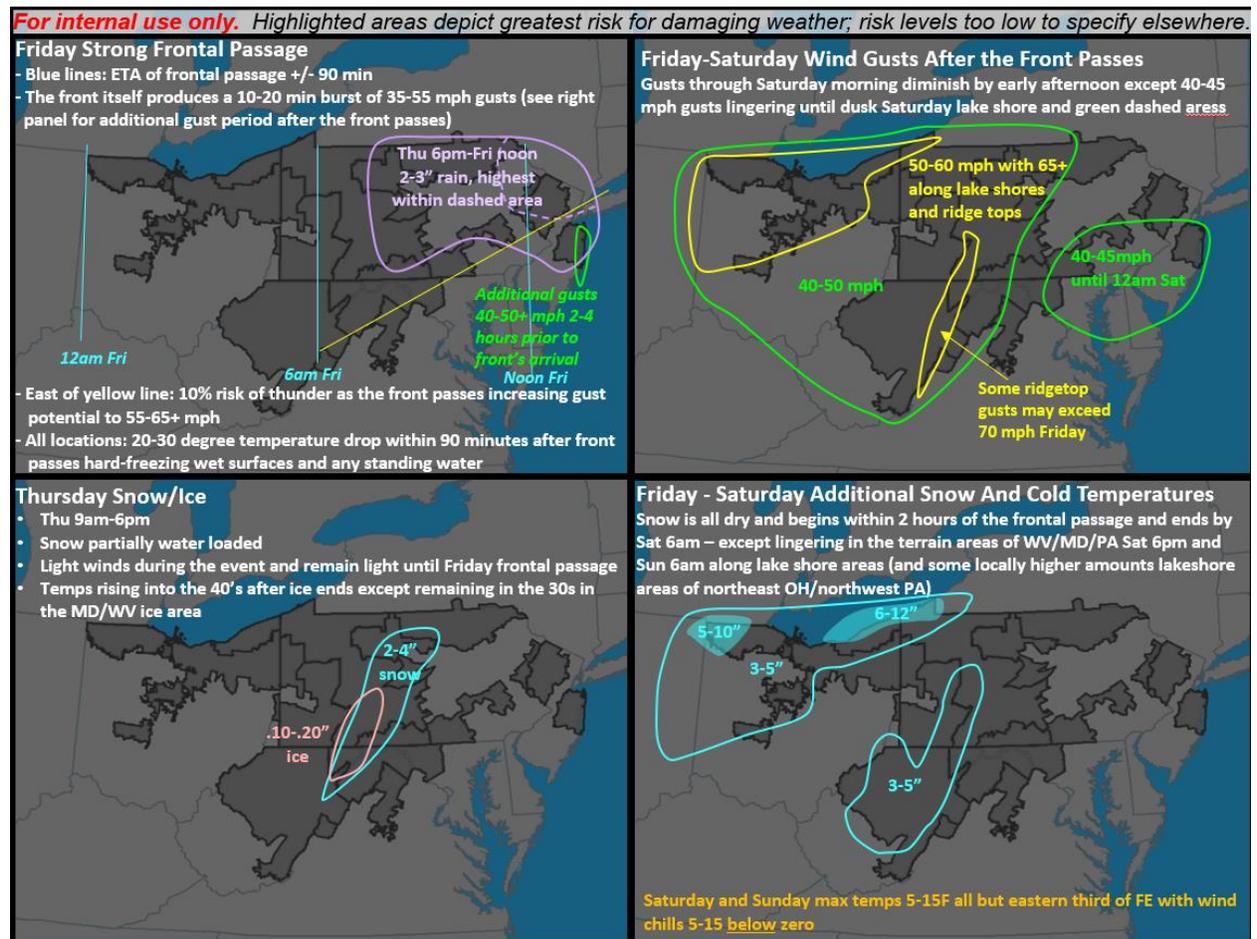
Tuesday December 20, 2022 @ 1109

Changes

1. Frontal passage – made ETA earlier by 6 hours, increased gust threat with frontal passage, added thunder threat area, added details of how quickly temperatures will drop after the front passes, increased rain amounts ahead of front in PA/NJ ahead of the front
2. Snow/Ice
 - a. Thu - increased snow/ice area
 - b. Fri/Sat – shrunk areas but increased amounts in northwest OH and lakeshore areas of northeast OH/northwest PA, refined timing
3. Wind gusts – refined gust area and magnitudes and also added gust area in southeast PA and NJ

Confidence is normal for all aspects of the graphic except the following

- Snow/ice amounts Thu in WV/MD/PA - below normal for snow amounts (might be lower)
- Thunder risk on Fri – below normal (weak signal, but worth mentioning in the forecast)

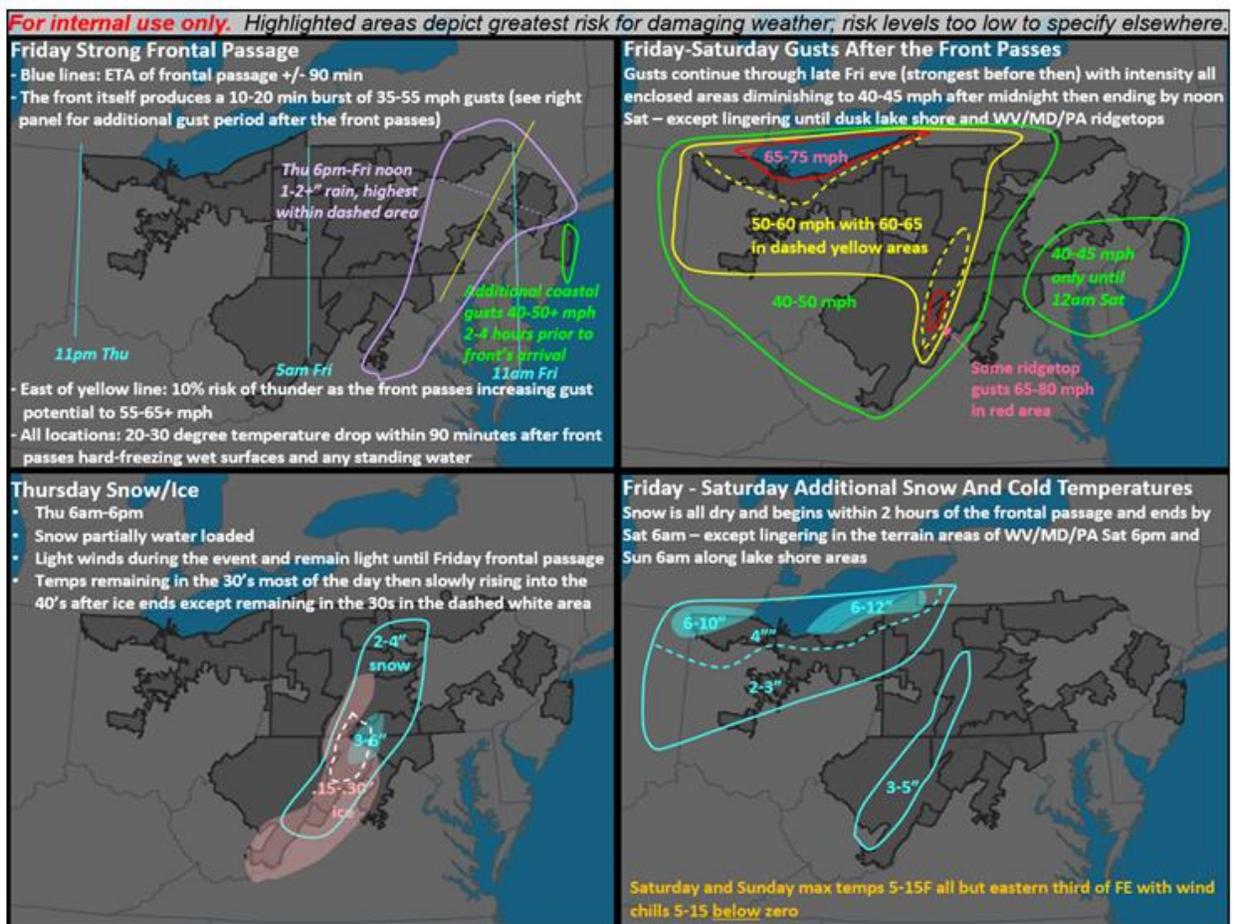


Wednesday December 21, 2022 @ 0920

Changes. Clarification - there are two drivers to the wind: the frontal passage itself (represents a 10-20 min burst of winds as it passes – see top left panel) then an additional long-duration period of gusts developing after the front passes (see top right panel).

1. Frontal passage: Made ETA earlier by 1 hour, fine-tuned thunder threat area, decreased rain amounts ahead of front in PA/NJ
2. Wind gusts: Refined gust area and increased magnitudes
3. Snow/Ice: Thu – extended south snow/ice area, Fri/Sat – refined areas and limited 4”+ snow

Confidence is normal for all aspects of the graphic except for snow/ice/rain amounts Thu and thunder risk on Fri.

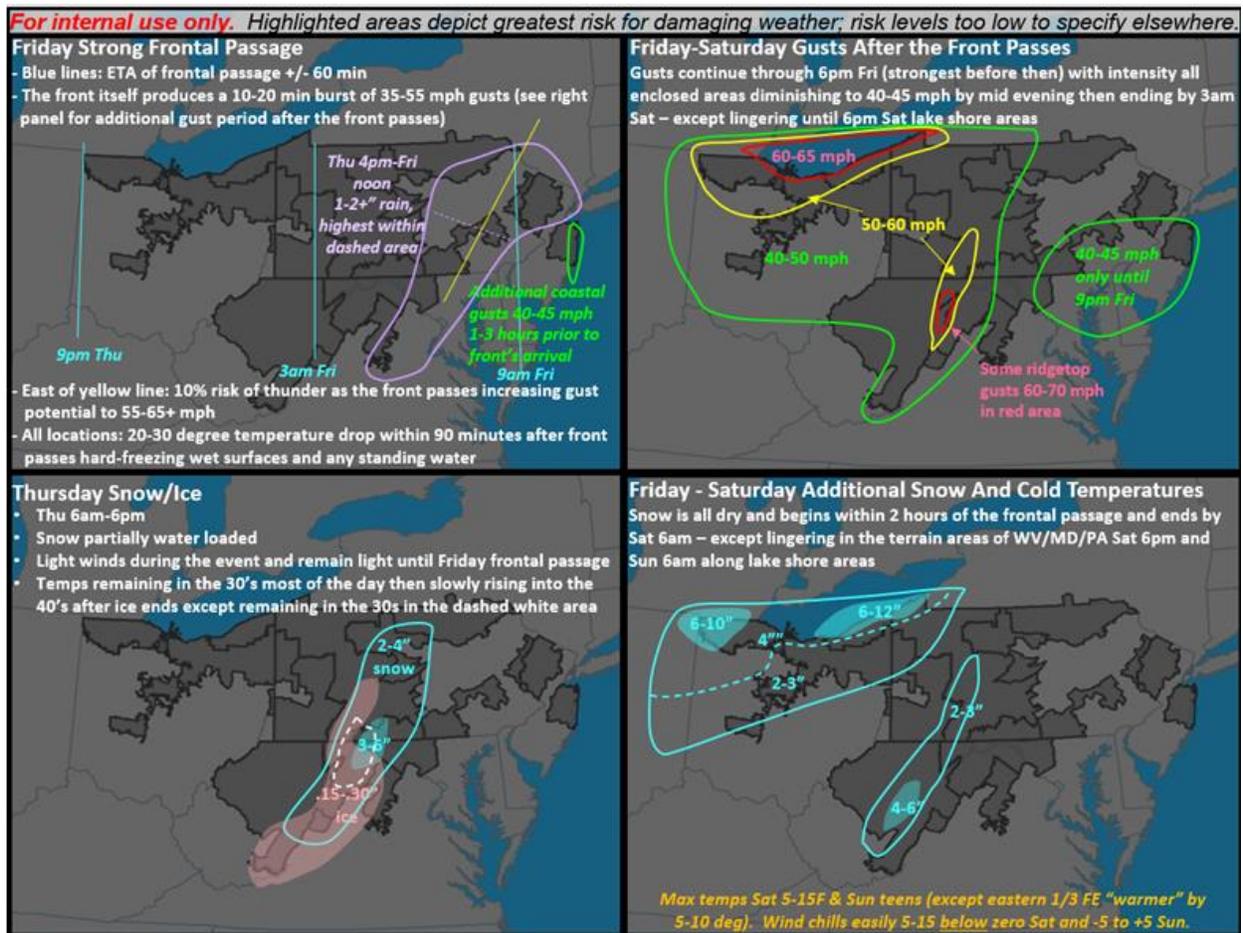


Wednesday December 21, 2022 @ 1421

Changes

1. Wind gusts intensity: Toned down intensity of gusts by 10 mph after the front passes and decreased duration of wind event by 3-6 hours
2. Frontal passage timing: Made ETA earlier by 2 hours, fine-tuned rain area
3. Snow/Ice Amounts: Fri/Sat small changes to fine tune amounts

Confidence is normal for all aspects of the graphic except for snow/ice/rain amounts Thu and thunder risk on Fri.



Thursday December 22, 2022 @ 0835

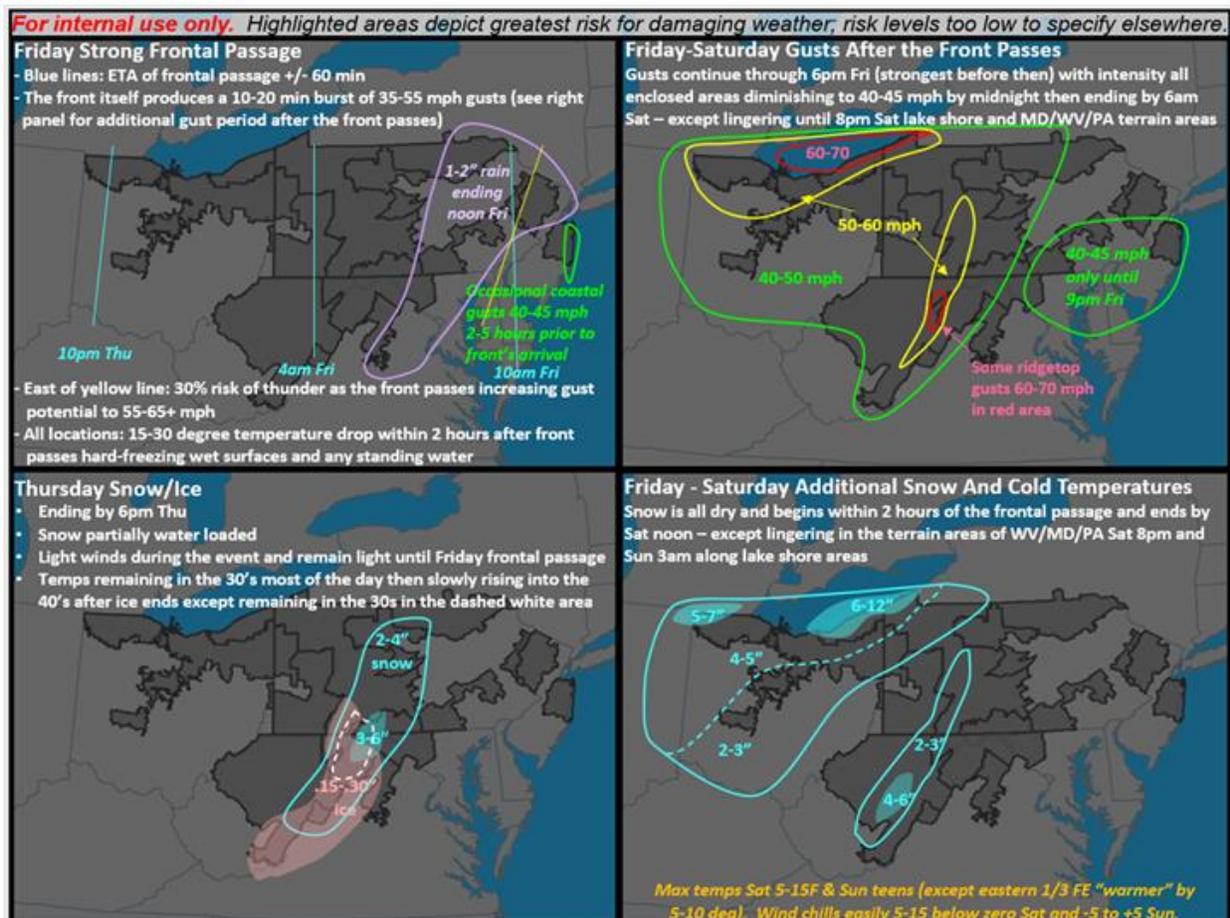
Changes (fine-tunings)

1. Wind gusts intensity: Expansion of general gust area and fine-tuned duration
2. Frontal passage timing: Made ETA earlier by 1 hour, fine-tuned rain area
3. Snow/Ice Amounts: Thu trimmed north extend of ice area, Fri/Sat increased general extent of snow area.
4. Thunder: Increased risk for embedded thunder in NJ

Confidence is above normal for all aspects of the graphics.

As a final warning

- Friday many roads across FE will experience spotty flash freezes within 2 hours of the frontal passage -- which will be exacerbated in areas expecting snow with reduced visibilities due to wind gusts.
- Wind chills through the weekend will be well below zero. Friday frostbite potential is the highest with cold temperatures and high winds (exposed skin will experience frostbite within 30 minutes - reference temperature forecasts [here](#) and wind chill charts [here](#))

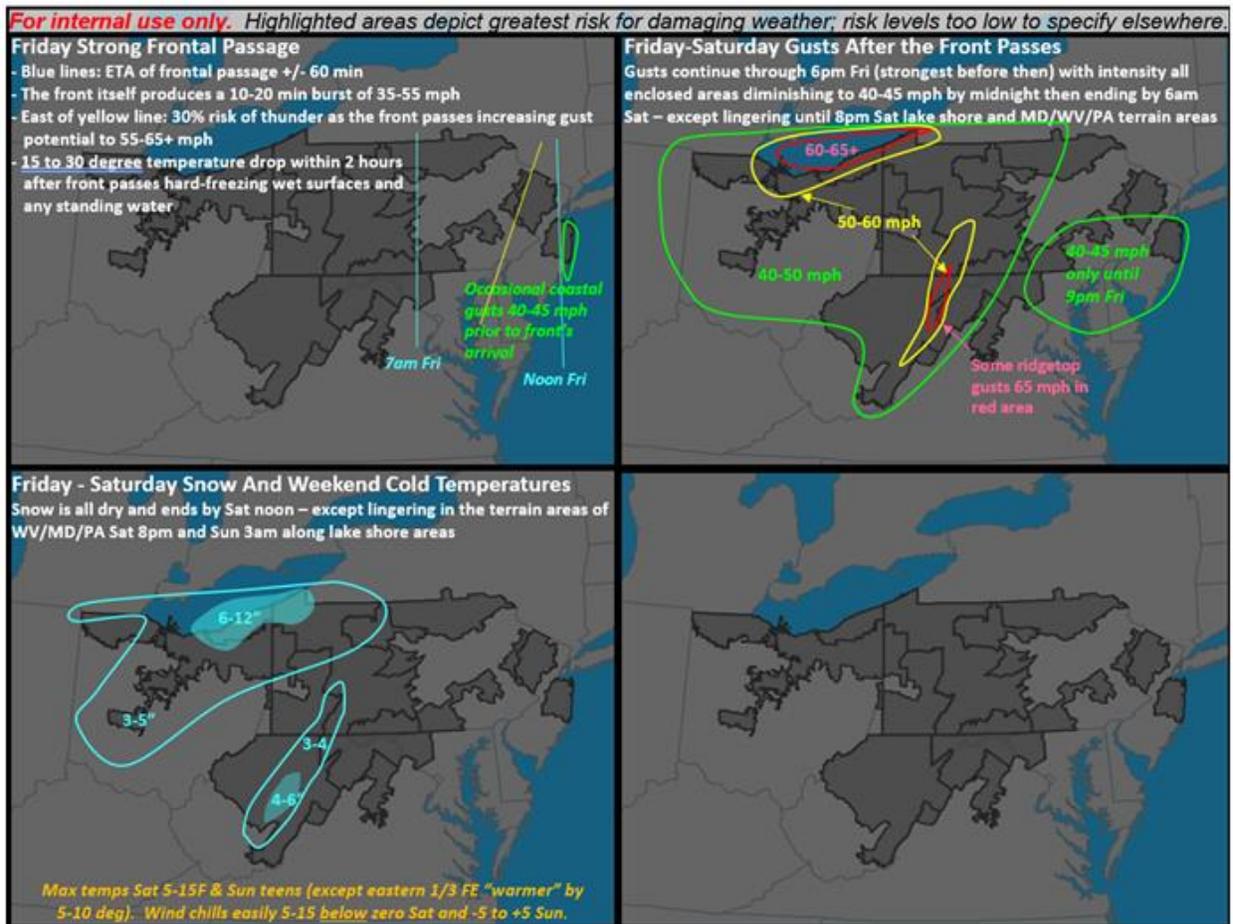


Friday December 23, 2022 @ 0814

Changes (fine-tunings)

1. Wind gusts intensity: Decrease in max areas by 5 mph
2. Snow Amounts: Removed significant snow amounts in extreme west OH and fine-tuned areas

Confidence is above normal for all aspects of the graphics.

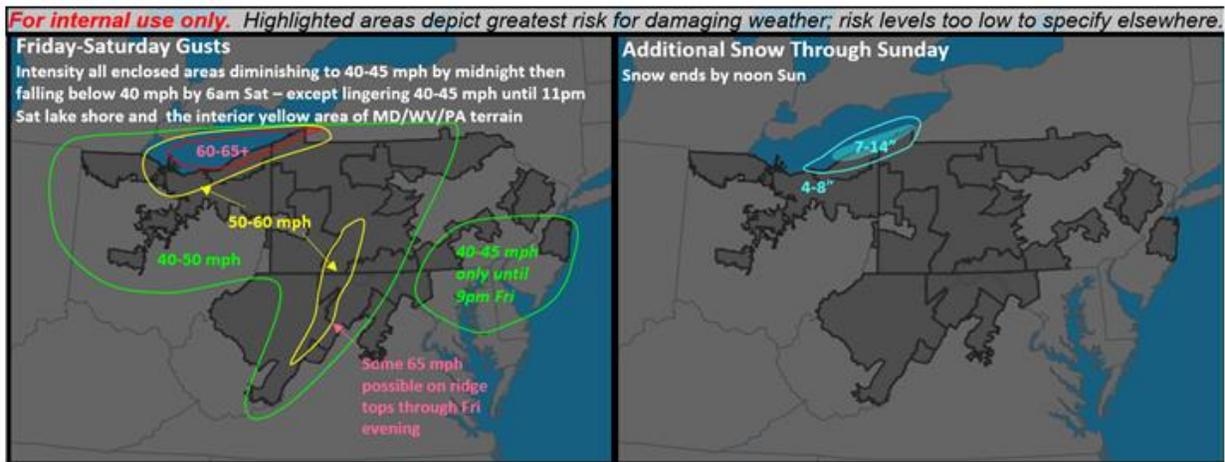


Friday December 23, 2022 @ 1125

Updated to show remainder of event starting noon Fri (some areas have seen most of the snow anticipated and also some of the higher gusts associated with the frontal passage have already occurred).

Confidence is normal for all aspects of the graphics.

Temperature forecast [here](#) compared to the wind chill chart [here](#) shows exposed skin in areas with -5F to +5F temperatures and gusts 35-50 mph will experience frostbite in about 20 minutes.



Saturday December 24, 2022 @ 0754

Final updated to show remainder of threats and timing. Confidence is normal for all aspects of the graphics.

1. Today temperatures will rise no higher than 10F except into the teens NJ, east PA, east MD, extreme northwest OH, and west WV
 - a. Wind chills will still be dangerous today. Temperature forecast [here](#) compared to the wind chill chart [here](#) shows exposed skin in areas with 5F to 15F temperatures and gusts 35-45 mph will experience frostbite in about 30 minutes
 - b. This issue is largely alleviated tomorrow as temperatures will be about 10 degrees warmer with lighter winds in all locations
2. Also and not depicted, a final round of light snow may produce a coating in the entire west half of FE Monday between noon and dusk – although not expected to exceed an inch may cause slippery driving conditions that afternoon

