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M-2021-3023564

January 11, 2021

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 –
Metropolitan Edison Company; Docket No. ~~L-PRMD7509~~***

Dear Secretary Chiavetta:

Pursuant to 52 Pa. Code § 67.1, Metropolitan Edison Company (“Met-Ed”) submits written notification of completed restoration efforts following an interruption that began on December 24, 2020 that caused multiple service interruptions in the Met-Ed 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) 921-6783.

Sincerely,



Teresa K. Harrold

Enclosures

c: Dan Searfoorce – PaPUC Bureau of Technical Utility Services (via electronic mail)
Derek Ruhl - 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: Metropolitan Edison Company ("Met-Ed")
Address: 800 Cabin Hill Drive
Greensburg, PA 15601

2. Name and title of person making report:

Scott Wyman
(Name)

President, Pennsylvania Operations
(Title)

3. Telephone number: (724) 838-6150
(Telephone Number)

4. Date and time report was made to Commission:

December 25, 2020
(Date)

0806
(Time)

5. Interruption or Outage:

(a) Number of customers affected: 6,863 (Represents 1.2% of Met-Ed'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	209	5	2
Berks	2,542	80	45
Bucks	451	12	8
Chester	25	3	1
Cumberland	10	1	1
Dauphin	26	3	0
Lancaster	9	2	2
Lebanon	93	12	3
Monroe	737	38	23
Montgomery	25	4	5
Northampton	1113	29	8
Pike	671	11	5
York	952	26	13
Total	6,863	226	116

(d) Approximate number of outage cases exceeding 6 or more hours in duration: 147

(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 Thursday afternoon December 24, 2020, and continuing into the early morning hours of Friday, a storm front moved across Pennsylvania, including the Met-Ed service territory. This storm produced freezing rain and winds with wind gusts up to 53 miles per hour.

Damage as a result of this storm front included downed trees and power lines, damaged and broken poles, transformers, crossarms, and cutouts. The Reading, Stroudsburg, and Easton Districts were the hardest hit areas. Approximately 70% of the total outages that occurred were tree-related with some outages in remote, off-road locations. See Attachment B for the wind reports for December 24 and 25 and the precipitation report for December 24, 2020.

Preliminary data indicates the reliability impact of the storm was 5.7 minutes of SAIDI, 0.01 of SAIFI, and an overall storm CAIDI of 468.5 minutes.

(g) Projected time of restoration: It was estimated that the majority of customers would be restored by 2000 on December 26, 2020.

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
Met-Ed	135	Line Workers
Subtotal	135	
Gettle Inc	2	Line Contractor
Henkels & McCoy	6	Line Contractor
J.W. Didado	33	Line Contractor
Karch Electric	2	Line Contractor
Miller Brothers	6	Line Contractor
NG Gilbert	4	Line Contractor
Valiant Power Group	21	Line Contractor
Subtotal	74	
Asplundh Tree Experts	4	Forestry Contractor
Davey Tree Experts	6	Forestry Contractor
Lewis Tree Service	8	Forestry Contractor
Nelson Tree Service	6	Forestry Contractor
Penn Line Service	6	Forestry Contractor
Tree Smiths	26	Forestry Contractor
York Tree	2	Forestry Contractor
Subtotal	58	
Met-Ed	3	Hazard Responders/Damage Assessors
Subtotal	3	
Met-Ed	62	Supporting Roles
Contractors (Various)	8	Supporting Roles
Subtotal	70	
Grand Total	340	

- (i) The date and time of the first information of a service interruption: December 24, 2020 at 1843.
- (j) The date and time that repair crews were assembled: Crews were assigned by district at 1530 on December 24, 2020 extending beyond their normal working hours.

(k) The actual time that service was restored to the last affected customer: December 26, 2020 at 1609. Additionally, Met-Ed was able to restore 89.7% of the impacted customers within 24 hours.

(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	53
Secondary Spans Replaced	10
Crossarms Replaced	10
Cutouts Replaced	44
Poles Replaced	13
Transformers Replaced	13
Wire & Cable Replaced (feet)	4,222

(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 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 is still in progress at the time of filing this report.

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
11430882-3	Berks	1	2,600	12/24/2020 2040	12/26/2020 1600
11431337-4	Bucks	12	2,451	12/24/2020 2318	12/26/2020 1609
11431195-2	Bucks	4	2,356	12/24/2020 2159	12/26/2020 1315
11431193-2	Monroe	55	2,351	12/24/2020 2232	12/26/2020 1343
11431265-3	Bucks	4	2,310	12/24/2020 2153	12/26/2020 1223
11435964-1	Monroe	3	2,225	12/25/2020 0150	12/26/2020 1455
11432129-2	Monroe	1	2,219	12/25/2020 0015	12/26/2020 1314
11431632-2	Monroe	28	2,200	12/24/2020 2358	12/26/2020 1238
11431250-2	Pike	31	2,192	12/24/2020 2245	12/26/2020 1117
11431131-2	Northampton	8	2,179	12/24/2020 2220	12/26/2020 1039
11434181-1	Pike	2	2,162	12/25/2020 0252	12/26/2020 1454
11432194-2	Monroe	1	2,154	12/25/2020 0021	12/26/2020 1215
11431277-2	Monroe	28	2,143	12/24/2020 2252	12/26/2020 1035
11431610-2	Monroe	20	2,139	12/24/2020 2356	12/26/2020 1135
11431908-2	Monroe	13	2,134	12/25/2020 0003	12/26/2020 1137
11433382-1	Monroe	1	2,119	12/25/2020 0202	12/26/2020 1321
11434368-2	Monroe	16	2,000	12/25/2020 0323	12/26/2020 1243
11434572-2	Monroe	1	1,898	12/25/2020 0406	12/26/2020 1144
11437903-2	Berks	1	1,891	12/25/2020 0531	12/26/2020 1302
11434033-2	Pike	57	1,878	12/25/2020 0232	12/26/2020 0950
11435358-1	Pike	16	1,856	12/25/2020 0239	12/26/2020 0935
11435380-2	Berks	1	1,761	12/25/2020 0748	12/26/2020 1309
11435461-2	Montgomery	5	1,688	12/25/2020 0142	12/26/2020 0550
11436674-2	Berks	1	1,677	12/25/2020 1106	12/26/2020 1503
11437254-2	Montgomery	1	1,651	12/25/2020 0029	12/26/2020 0400
11436841-1	Pike	8	1,646	12/25/2020 1133	12/26/2020 1459
11432160-1	Monroe	50	1,613	12/25/2020 0018	12/26/2020 0311
11437806-1	Monroe	1	1,566	12/25/2020 1237	12/26/2020 1443
11437289-2	Monroe	3	1,564	12/25/2020 1256	12/26/2020 1500
11436197-2	Berks	1	1,529	12/25/2020 0939	12/26/2020 1108
11432138-2	Monroe	1	1,439	12/25/2020 0016	12/26/2020 0015

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.

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
11430845-1	Berks	1	1,414	12/24/2020 2003	12/25/2020 1937
11437761-2	Berks	2	1,393	12/25/2020 1142	12/26/2020 1055
11437058-2	Berks	3	1,376	12/25/2020 0021	12/25/2020 2317
11430751-2	Berks	17	1,336	12/24/2020 2054	12/25/2020 1910
11430751-2	Berks	11	1,336	12/24/2020 2054	12/25/2020 1910
11431948-1	Monroe	75	1,311	12/25/2020 0005	12/25/2020 2156
11435450-1	Monroe	4	1,295	12/24/2020 2359	12/25/2020 2134
11432412-1	Northampton	1	1,275	12/25/2020 0042	12/25/2020 2157
11431317-2	Berks	4	1,212	12/24/2020 2253	12/25/2020 1905
11435894-1	Berks	3	1,207	12/25/2020 0134	12/25/2020 2141
11437742-2	Berks	5	1,196	12/25/2020 1539	12/26/2020 1135
11433665-1	Pike	85	1,189	12/25/2020 0021	12/25/2020 2010
11434204-1	Pike	60	1,177	12/25/2020 0250	12/25/2020 2227
11433468-1	Berks	1	1,175	12/25/2020 0208	12/25/2020 2143
11432175-1	Northampton	1	1,173	12/25/2020 0018	12/25/2020 1951
11430833-2	Berks	5	1,161	12/24/2020 1950	12/25/2020 1511
11437900-1	Berks	5	1,131	12/25/2020 0307	12/25/2020 2158
11430950-1	Northampton	1	1,113	12/24/2020 2131	12/25/2020 1604
11437762-1	Monroe	3	1,113	12/25/2020 1553	12/26/2020 1026
11430831-1	Monroe	12	1,107	12/24/2020 1947	12/25/2020 1414
11438231-1	Pike	23	1,094	12/25/2020 0645	12/26/2020 0059
11437678-1	Pike	2	1,080	12/25/2020 0258	12/25/2020 2058
11432471-1	Monroe	5	1,077	12/25/2020 0046	12/25/2020 1843
11433937-2	Berks	23	1,064	12/25/2020 0230	12/25/2020 2014
11434407-3	Northampton	10	1,061	12/24/2020 2227	12/25/2020 1608
11430822-1	Northampton	4	1,051	12/24/2020 1938	12/25/2020 1309
11436413-1	Berks	5	1,045	12/24/2020 2307	12/25/2020 1632
11430826-2	Berks	4	1,023	12/24/2020 1946	12/25/2020 1249
11436833-1	Northampton	1	1,022	12/25/2020 0245	12/25/2020 1947
11431357-1	Bucks	124	1,016	12/24/2020 2320	12/25/2020 1616
11434980-1	Monroe	43	996	12/24/2020 1952	12/25/2020 1228
11430924-3	Northampton	15	988	12/24/2020 2106	12/25/2020 1334
11432960-1	Northampton	1	979	12/25/2020 0122	12/25/2020 1741
11431032-1	Bucks	4	978	12/24/2020 2157	12/25/2020 1415
11434407-3	Northampton	16	978	12/24/2020 2227	12/25/2020 1445
11430928-1	Northampton	22	973	12/24/2020 2106	12/25/2020 1319

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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
11430881-1	Berks	1	962	12/24/2020 2039	12/25/2020 1241
11431302-1	Bucks	2	947	12/24/2020 2306	12/25/2020 1453
11436520-1	Monroe	10	941	12/25/2020 0012	12/25/2020 1553
11435393-1	Berks	6	933	12/25/2020 0233	12/25/2020 1806
11431397-2	Berks	104	916	12/24/2020 2329	12/25/2020 1445
11435929-1	Monroe	14	914	12/25/2020 0141	12/25/2020 1655
11434914-2	Berks	10	912	12/25/2020 0128	12/25/2020 1640
11431641-1	Bucks	8	909	12/24/2020 2153	12/25/2020 1302
11435203-1	Bucks	3	903	12/25/2020 0703	12/25/2020 2206
11431611-1	Berks	1	897	12/24/2020 2306	12/25/2020 1403
11437540-1	Monroe	3	895	12/25/2020 0200	12/25/2020 1655
11430946-1	Northampton	5	890	12/24/2020 2129	12/25/2020 1219
11434907-1	Berks	2	888	12/25/2020 0213	12/25/2020 1701
11436149-1	Monroe	40	884	12/25/2020 0042	12/25/2020 1526
11437911-2	Bucks	3	863	12/25/2020 2357	12/26/2020 1420
11432774-1	Berks	2	849	12/25/2020 0109	12/25/2020 1518
11435221-2	Berks	6	811	12/25/2020 0101	12/25/2020 1432
11436420-1	Northampton	2	796	12/25/2020 0203	12/25/2020 1519
11434509-1	Berks	15	791	12/25/2020 0312	12/25/2020 1623
11433971-1	Monroe	9	782	12/25/2020 0227	12/25/2020 1529
11431506-2	Bucks	39	778	12/24/2020 2347	12/25/2020 1245
11437215-1	Berks	1	770	12/25/2020 0802	12/25/2020 2052
11436127-1	Berks	5	764	12/25/2020 0131	12/25/2020 1415
11431466-2	York	1	764	12/24/2020 2341	12/25/2020 1225
11437919-2	Montgomery	1	734	12/25/2020 1705	12/26/2020 0519
11434647-1	Chester	18	733	12/25/2020 0106	12/25/2020 1319
11437903-1	Berks	3	728	12/25/2020 0531	12/25/2020 1739
11434765-1	Berks	11	726	12/25/2020 0254	12/25/2020 1500
11433189-2	Berks	125	721	12/25/2020 0139	12/25/2020 1340
11435945-1	Berks	31	714	12/25/2020 0451	12/25/2020 1645
11436333-1	Northampton	5	702	12/25/2020 0006	12/25/2020 1148
11437271-1	Montgomery	18	701	12/25/2020 0029	12/25/2020 1210
11436836-1	Northampton	8	701	12/25/2020 0235	12/25/2020 1416
11434813-1	Monroe	19	688	12/24/2020 2302	12/25/2020 1030
11432180-2	Bucks	149	687	12/25/2020 0023	12/25/2020 1150
11431305-1	Berks	4	675	12/24/2020 2307	12/25/2020 1022

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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
11432302-1	Berks	1	666	12/25/2020 0032	12/25/2020 1138
11435371-1	Berks	6	664	12/25/2020 0746	12/25/2020 1850
11434648-1	Chester	1	641	12/25/2020 0338	12/25/2020 1419
11432065-1	Berks	44	633	12/25/2020 0010	12/25/2020 1043
11430825-2	Berks	1	628	12/24/2020 2356	12/25/2020 1024
11435154-1	Northampton	5	614	12/25/2020 0247	12/25/2020 1301
11434586-1	York	24	611	12/25/2020 0409	12/25/2020 1420
11434164-1	Berks	4	610	12/25/2020 0250	12/25/2020 1300
11432795-1	Berks	21	600	12/25/2020 0111	12/25/2020 1111
11434879-1	Berks	4	591	12/25/2020 0140	12/25/2020 1131
11434040-1	Northampton	44	588	12/25/2020 0234	12/25/2020 1222
11430924-2	Northampton	272	581	12/24/2020 2106	12/25/2020 0647
11432637-1	Berks	38	570	12/25/2020 0055	12/25/2020 1025
11435425-1	Berks	25	549	12/25/2020 0758	12/25/2020 1707
11433169-1	Berks	10	540	12/25/2020 0137	12/25/2020 1037
11435009-1	Berks	2	537	12/25/2020 0614	12/25/2020 1511
11431530-1	Northampton	42	536	12/24/2020 2347	12/25/2020 0843
11434048-1	Northampton	20	534	12/25/2020 0235	12/25/2020 1129
11434451-2	Adams	38	533	12/25/2020 0341	12/25/2020 1234
11438613-1	Monroe	1	527	12/26/2020 0513	12/26/2020 1400
11435329-1	Berks	1	524	12/25/2020 0737	12/25/2020 1621
11435008-2	Lancaster	7	493	12/25/2020 0614	12/25/2020 1427
11433980-1	Monroe	68	490	12/25/2020 0231	12/25/2020 1041
11430821-2	Berks	1	490	12/25/2020 0817	12/25/2020 1627
11430821-2	Berks	1	490	12/25/2020 0817	12/25/2020 1627
11438131-2	Berks	1	479	12/25/2020 1831	12/26/2020 0230
11434740-1	Berks	6	477	12/25/2020 0503	12/25/2020 1300
11433023-1	Berks	88	469	12/25/2020 0125	12/25/2020 0914
11433481-1	Berks	27	463	12/25/2020 0208	12/25/2020 0951
11432879-2	Berks	42	461	12/25/2020 0109	12/25/2020 0850
11435349-1	Dauphin	1	449	12/25/2020 0742	12/25/2020 1511
11434261-1	Northampton	32	447	12/25/2020 0234	12/25/2020 1001
11433720-1	Berks	3	446	12/25/2020 0222	12/25/2020 0948
11434264-1	Northampton	6	443	12/25/2020 0304	12/25/2020 1027
11433434-1	Monroe	129	424	12/25/2020 0203	12/25/2020 0907
11434168-1	Dauphin	6	420	12/25/2020 0251	12/25/2020 0951

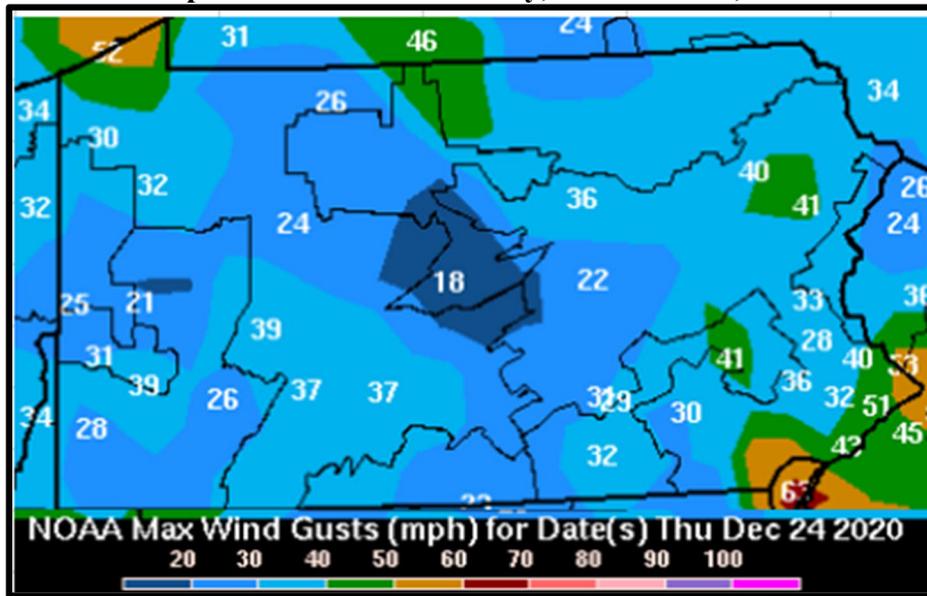
Met-Ed Storm Report

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
11438199-1	Monroe	1	405	12/25/2020 1904	12/26/2020 0149
11434066-1	Lebanon	1	405	12/25/2020 0239	12/25/2020 0924
11437780-1	Berks	2	402	12/25/2020 0933	12/25/2020 1615
11436777-1	Berks	1	402	12/25/2020 1118	12/25/2020 1800
11430792-1	York	2	397	12/24/2020 1918	12/25/2020 0155
11434946-1	Monroe	31	383	12/25/2020 0551	12/25/2020 1214
11435492-1	Northampton	1	378	12/25/2020 0811	12/25/2020 1429
11434687-1	Berks	141	371	12/25/2020 0241	12/25/2020 0852

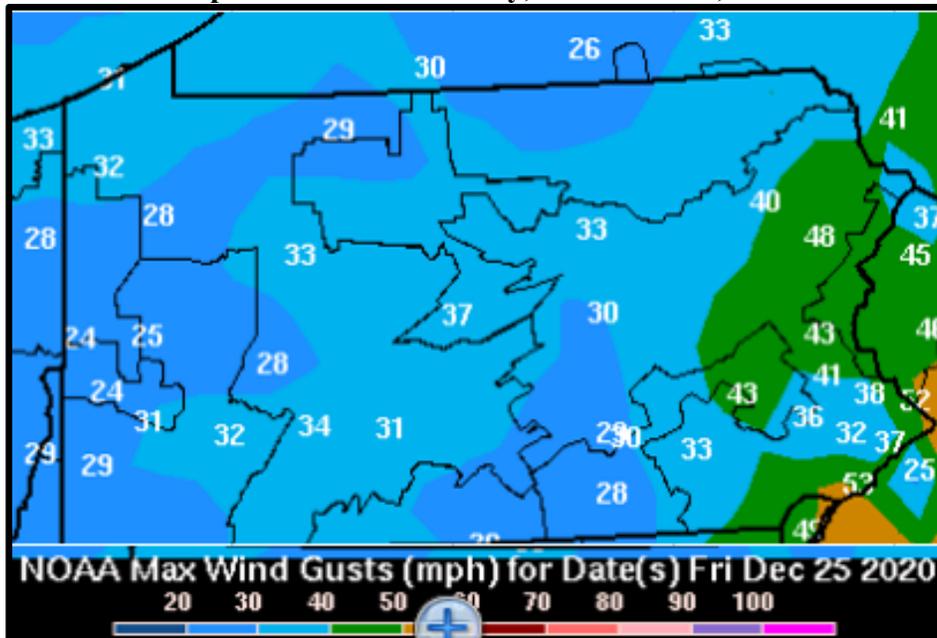
Attachment B: FirstEnergy Meteorologist Total Precipitation and Wind Reports

Total Precipitation and Wind Reports: Graphic 1 and 2 illustrates the maximum wind gusts on December 24 and 25, 2020. Graphic 3 illustrates the total precipitation in the Met-Ed service territory on December 24, 2020. The graphics are from the National Oceanic and Atmospheric Administration (“NOAA”).

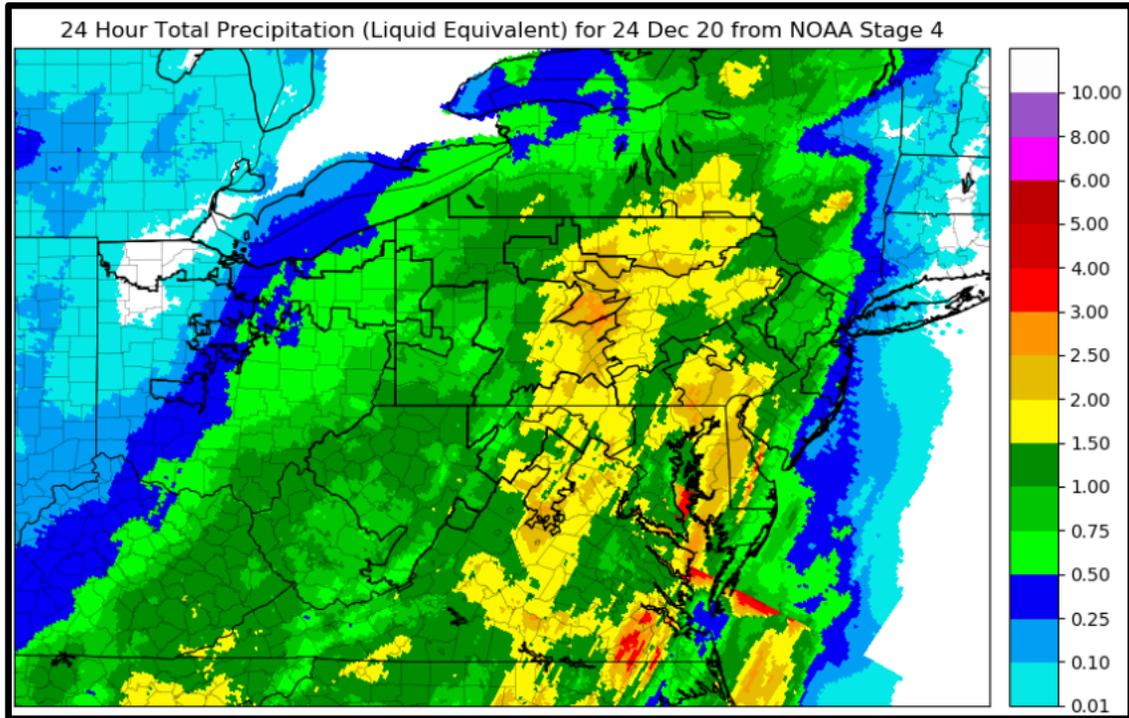
Graphic 1 – Winds: Thursday, December 24, 2020



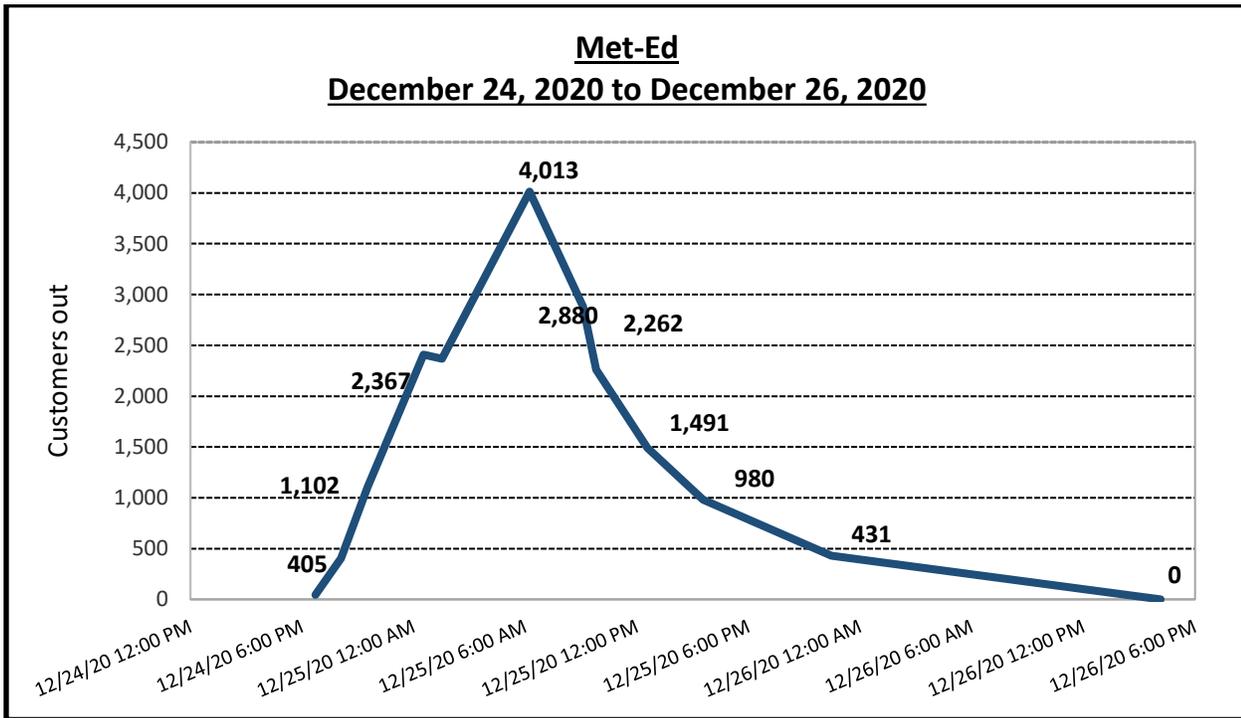
Graphic 1 – Winds: Friday, December 25, 2020



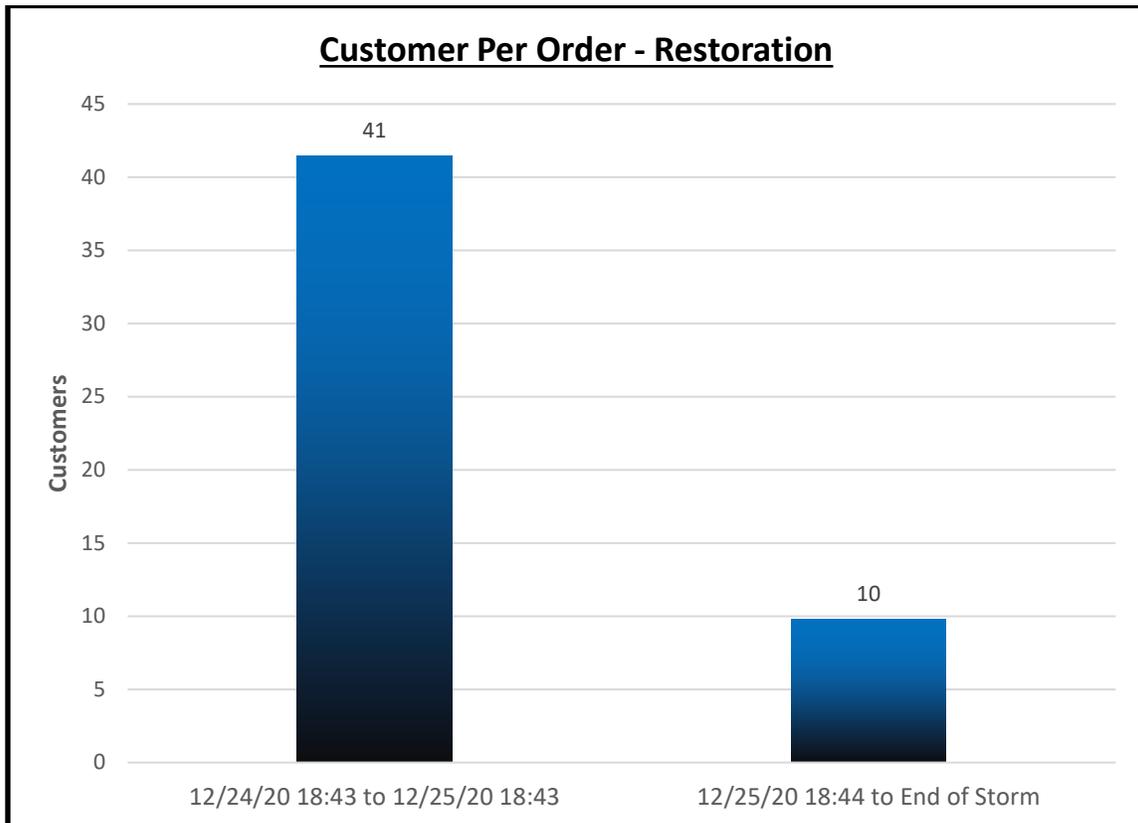
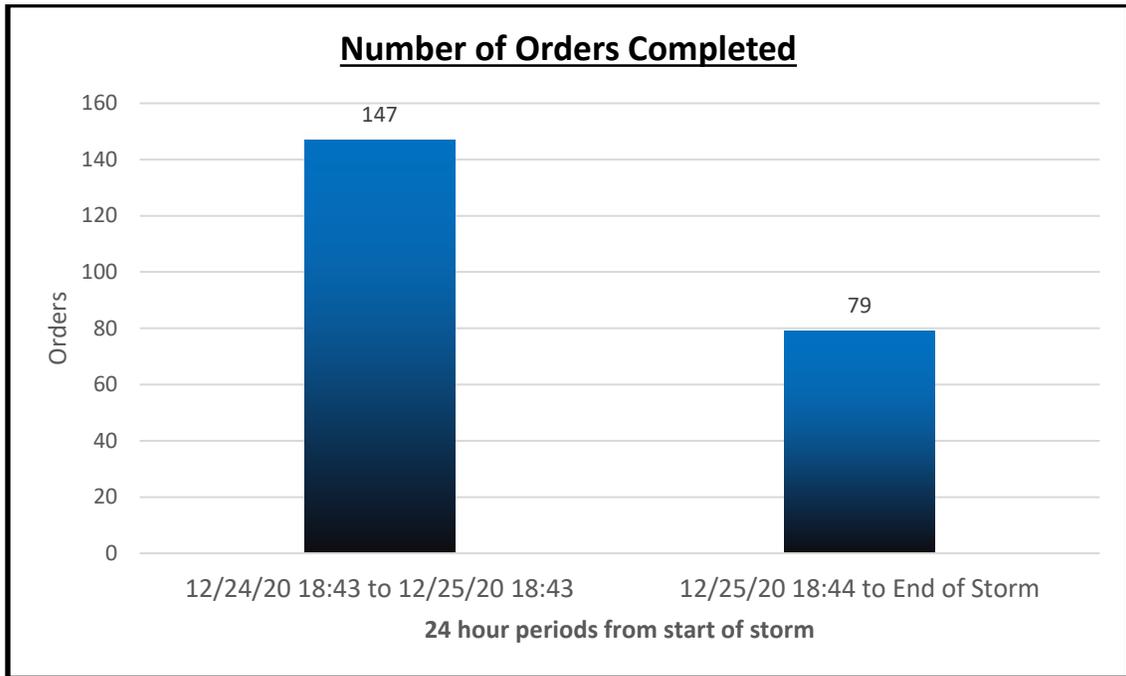
Graphic 3 – Total Precipitation: Thursday, December 24, 2020



Attachment C: Restoration Curve



Attachment D: Order Restoration Graphs



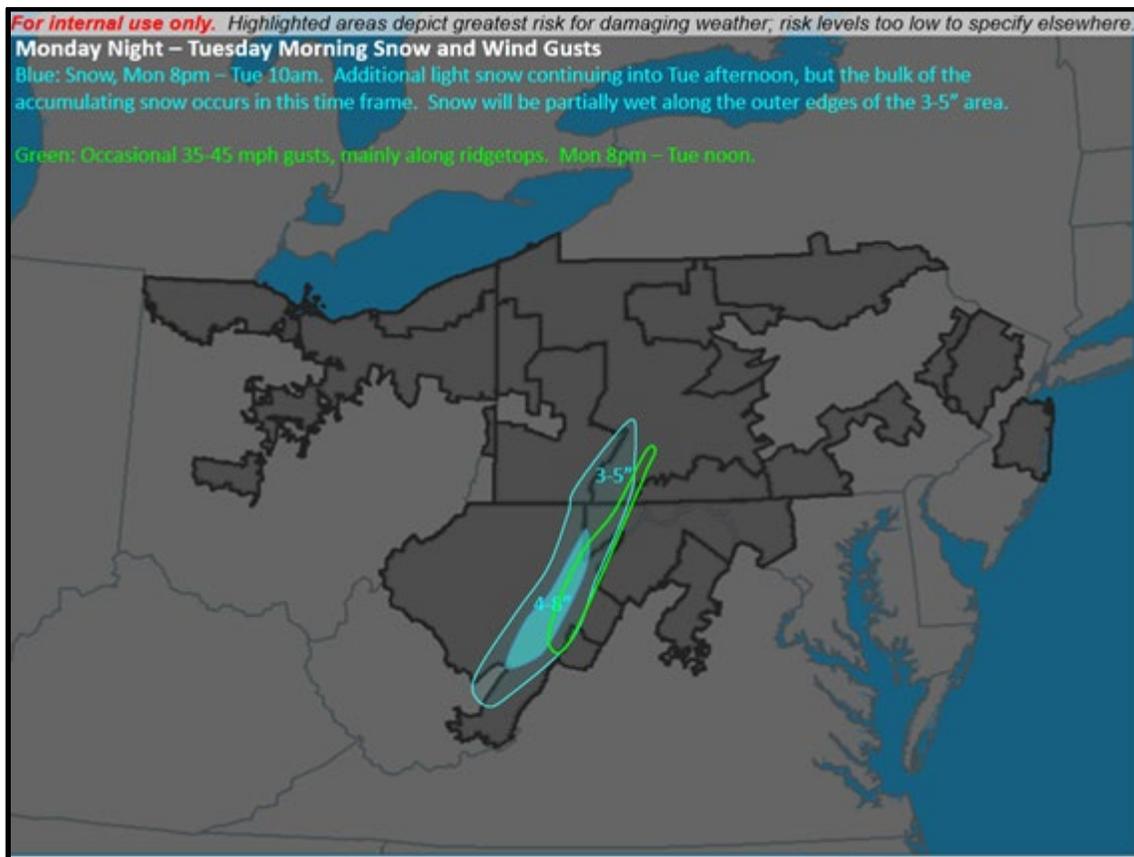
Attachment E: FirstEnergy Meteorologist Reports

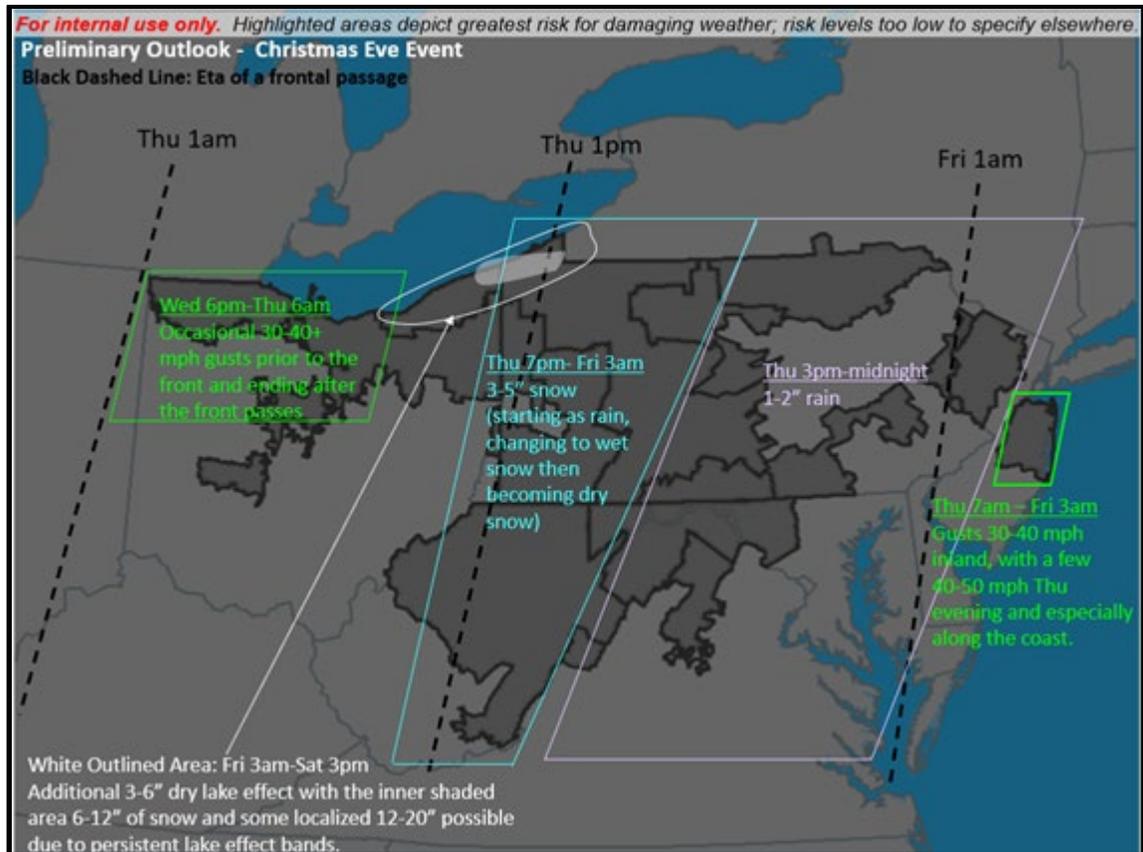
Monday, December 21, 2020 at 0929

New Issuance for two separate events:

1. Snow today – confidence is normal for this graphic.
2. Preliminary Outlook for Christmas Eve Event. Some aspects of this event commence Wed evening while others carry over into the day after Christmas. Due to requests for details for staffing purposes details of timing have been added although areas have been provided as general boxes. Details will be added tomorrow. Confidence is near to below normal mainly for the timing of the event which may be a few hours later than anticipated.

Note - Temperatures after the frontal passage Christmas Eve will drop sharply causing many wet surfaces to freeze. Also for those wondering about snow for Christmas, areas within either side of about 50 miles of the blue box are expected to receive an inch of snow and out to 100 miles either side of the box for the chance of at least some kind of coating of snow on unpaved surfaces.

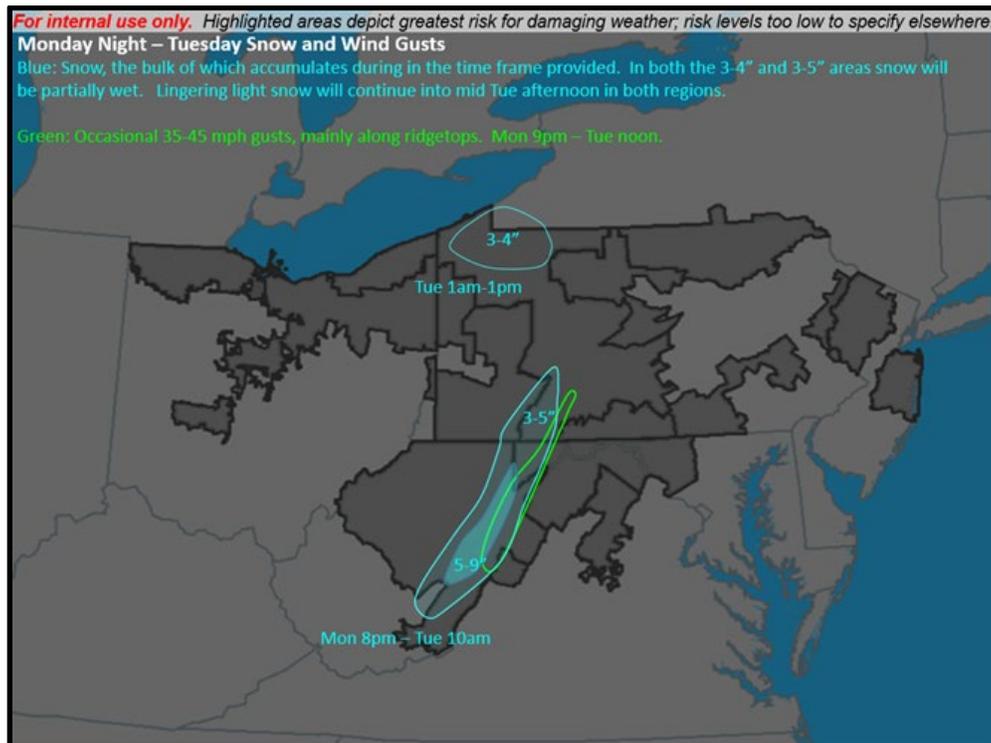




Monday, December 21, 2020 at 1511

Changes.

1. Tonight and Tue Snow Event. Added lake effect snow at and over 3", increased amounts in the terrain of WV by 1". Confidence is normal for this graphic.
2. Christmas Eve Event. Confidence remains near to below normal for this event due to timing which impacts wind gusts potential in east FE and snow amounts in the west half of FE.
 - a. Wind
 - i. West OH - increased wind gust area and fine-tuned timing.
 - ii. East PA, West NJ, East MD - added threat area and although the majority of gusts are expected to be between 30-40 mph, the pattern supports an isolated and infrequent gust in the mid 50 mph range.
 - iii. East NJ - delayed start time of threat window and although the majority of gusts are expected to be near 40 mph, the pattern supports isolated and infrequent gusts 50-60 mph.
 - b. Snow
 - i. Thu - Increased area of 3-5", added mention of 6"+, and made start time earlier. There is some uncertainty as to how far west the 3-5" accumulations will occur, but there is higher confidence along and east of the referenced blue dashed line in the graphic.
 - ii. Fri - decreased potential for 12"+ amounts of lake effect snow
 - c. Rain - fine-tuned time window.



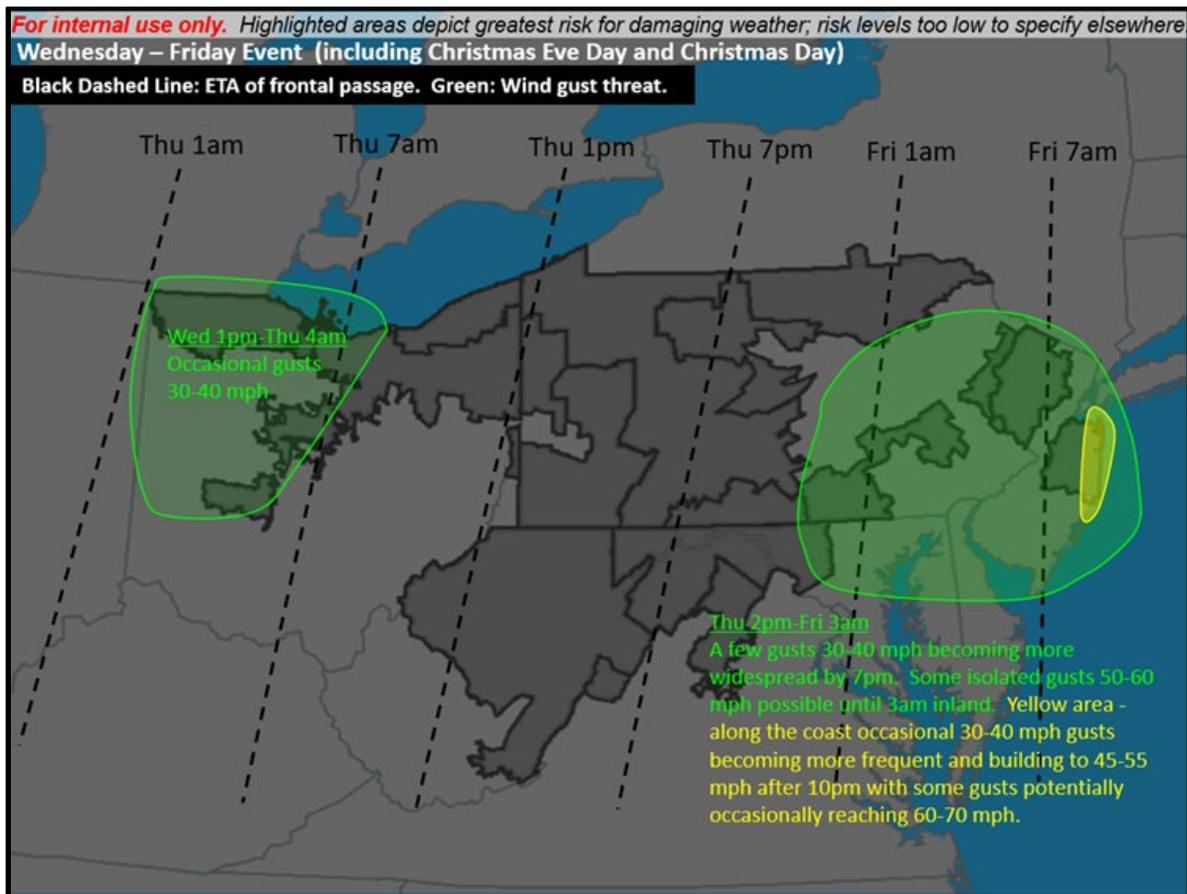
Tuesday, December 22, 2020 at 0919

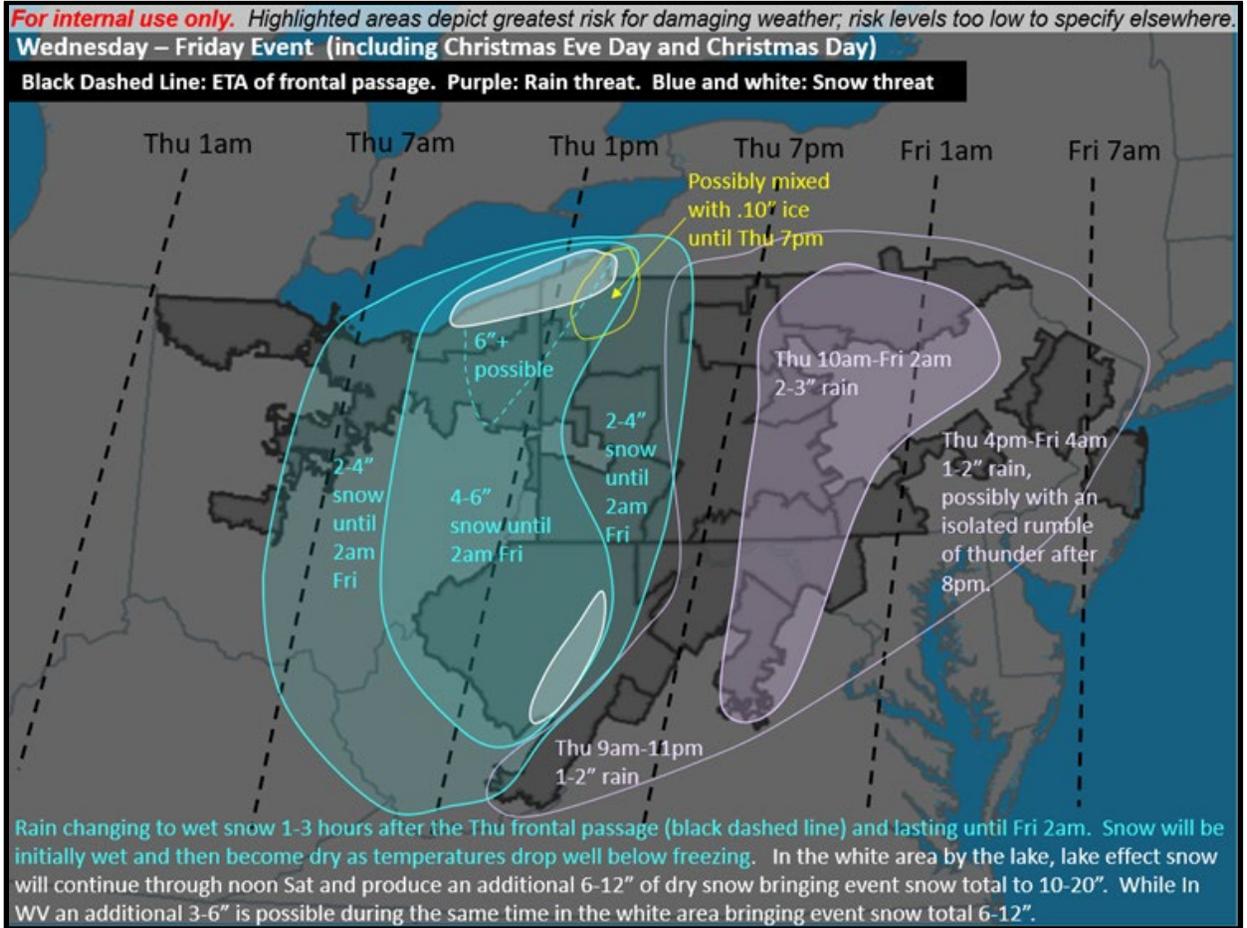
Changes – the front will be slower to move through the east half of FE as a weak low-pressure area moves along it from south to north which means the following:

1. Higher wind gusts in east MD, east PA, and NJ
2. More snow in the west half of FE

This event is depicted in separate graphics for wind and precipitation. Confidence is near to below normal with the frequency of max gust magnitudes in FE East and with the max snow amounts in the main region of depicted snow (which could be under done by 1-2” and may need to extend farther west by 25 miles)

Note – freezing of wet surfaces will occur in all areas of FE after the front passes. This may add extra load to elevated tree branches and wires where snow is expected to accumulate a couple of inches or more. Also, temperatures on Christmas Day over most of FE will be near 20 with wind chill factors in the single digits, except in east PA, east MD, and NJ where highs will be 25-35 (west to east in that region) and windchills in the 15-25 deg range and dropping as the day progresses.



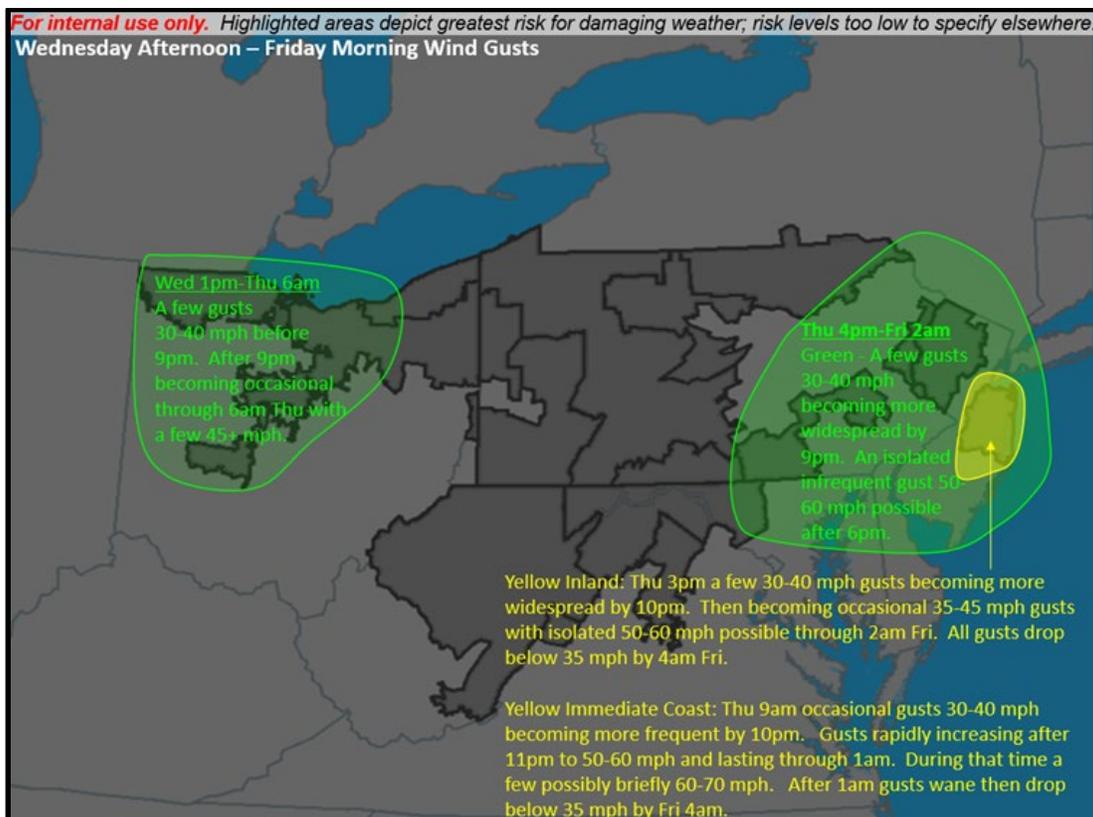


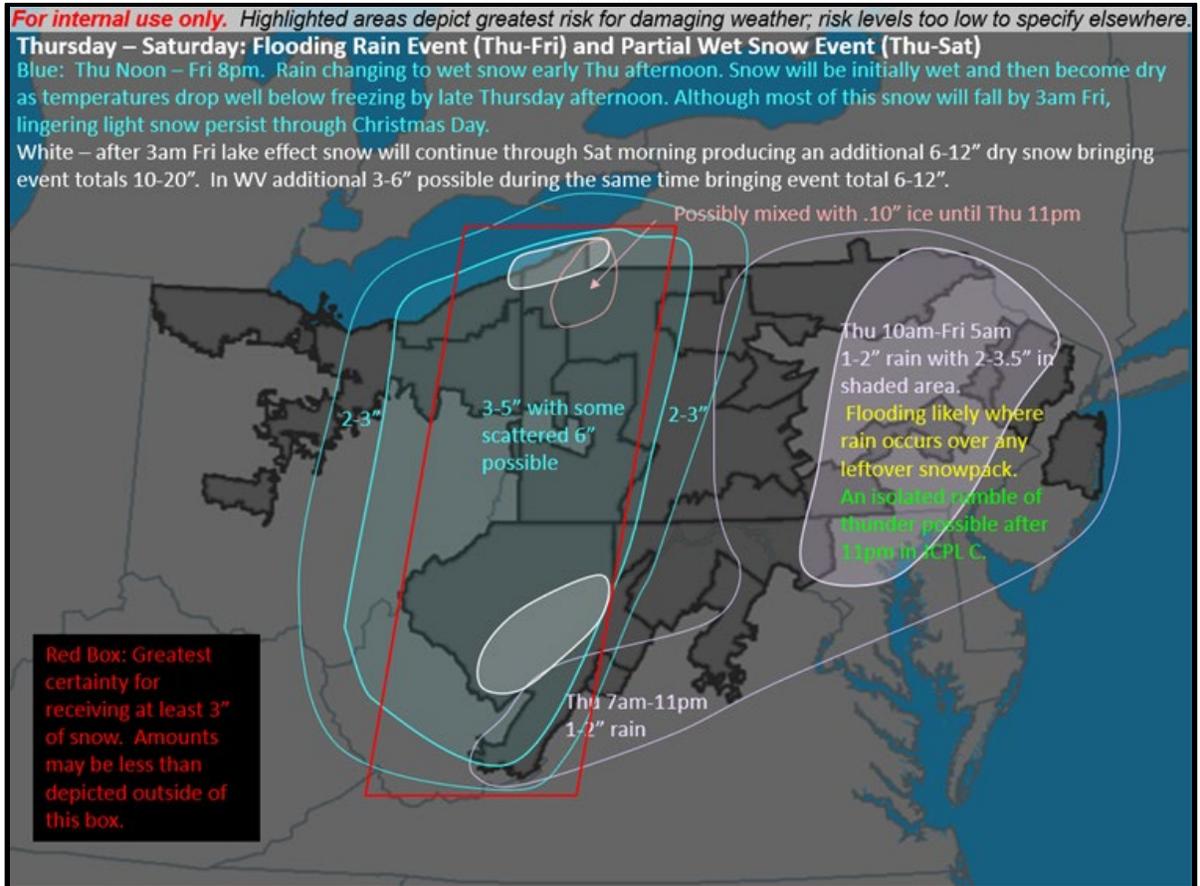
Wednesday, December 23, 2020 at 0909

Changes:

1. Wind: fine-tuned timing and added some detail of frequency and magnitude. Confidence is normal for this part of the graphic.
2. Rain: Shifted east 2-3” rain area and mentioned flooding due in part to heavy rain itself and any falling on residual melting snowpack from the last snowstorm. Confidence is normal for this part of the graphic.
3. Snow: Modified area of snow and timing. But despite being closer to the event there still exists a great amount of uncertainty than usual in this part of the alert and therefore confidence is below normal for the snowfall forecast. Our best models indicate general max snowfall amounts in the 3-6” range (away from the Lake and outside of WV).

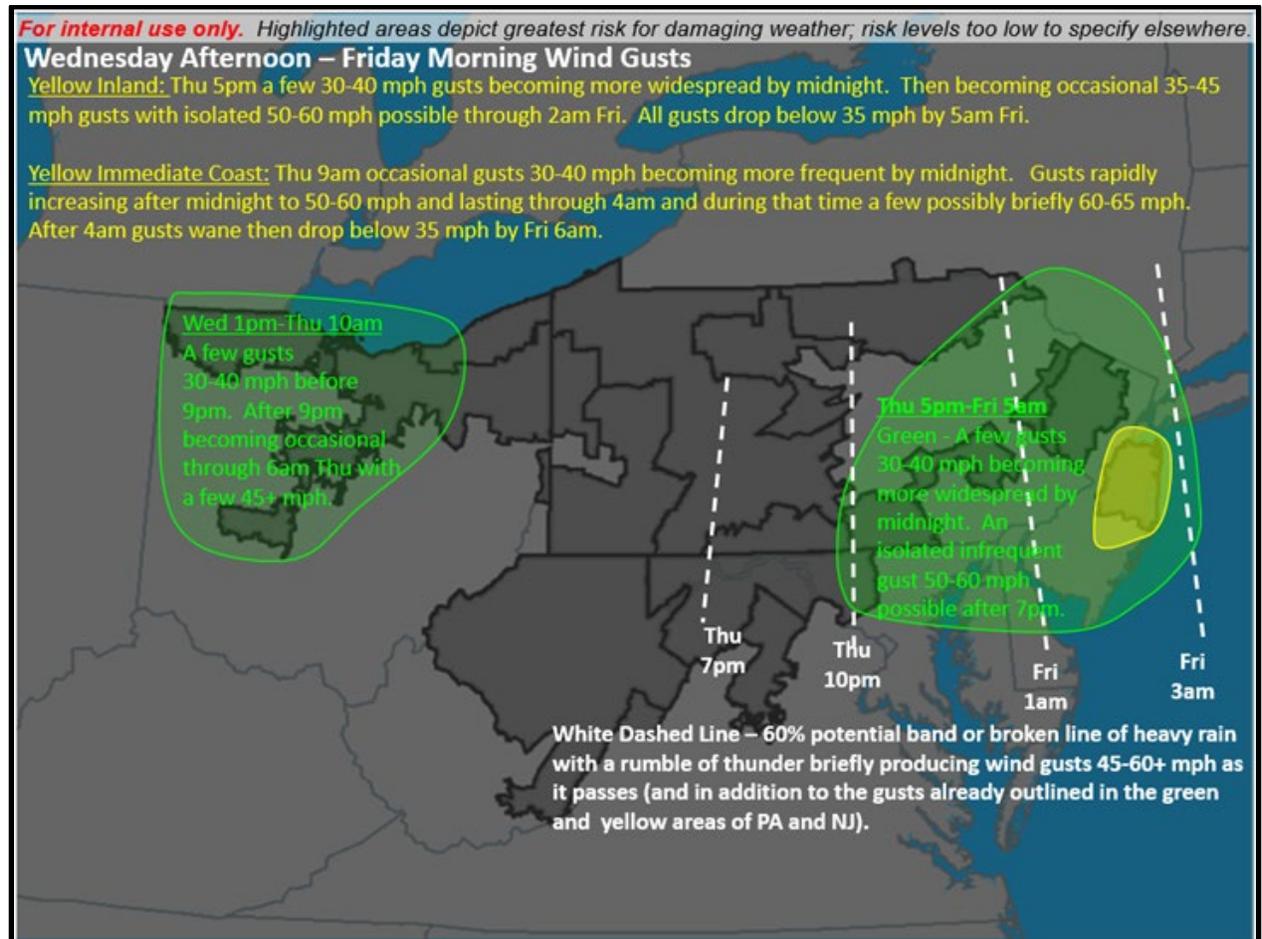
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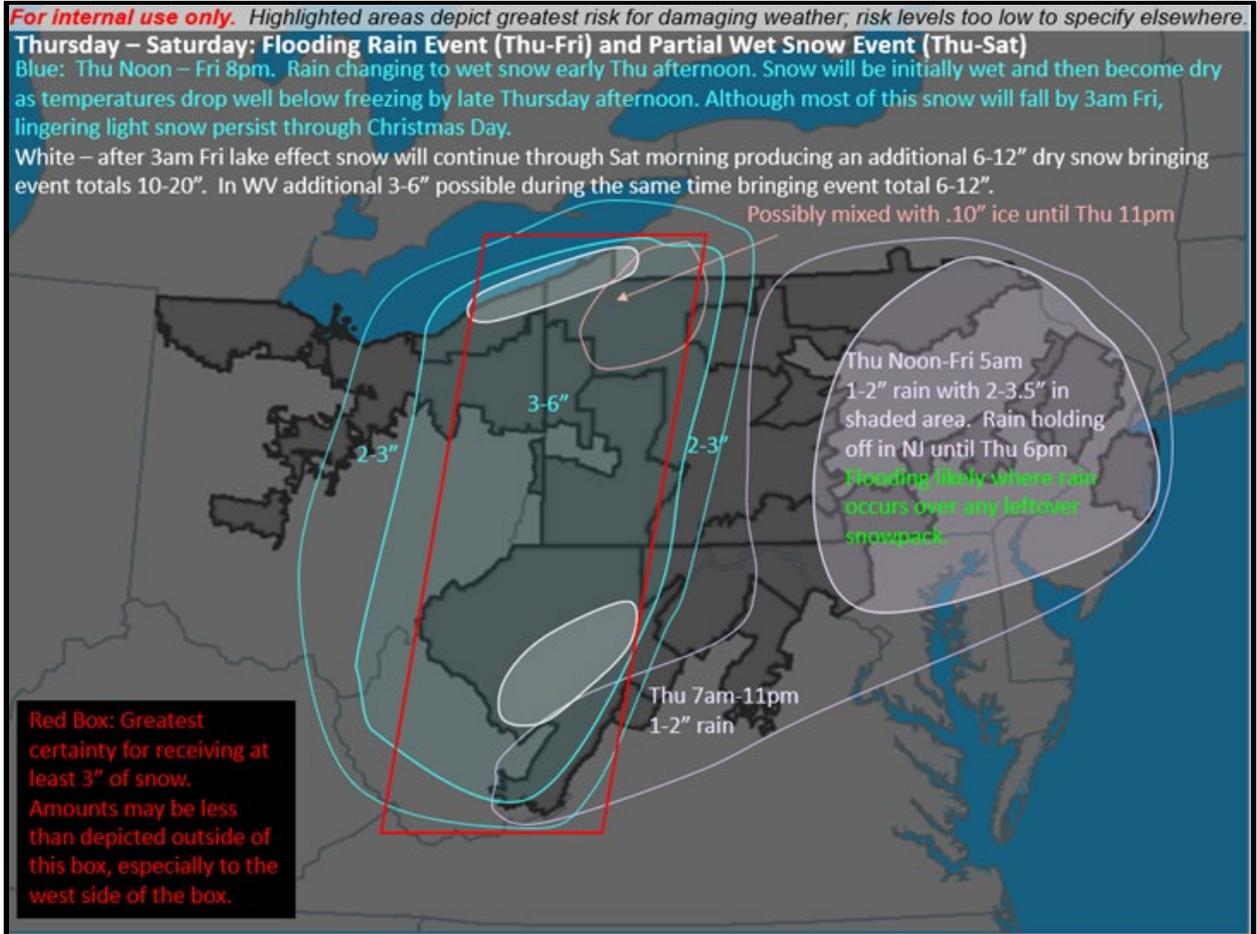




Wednesday, December 23, 2020 at 1451

Updated primarily to introduce the risk of a squall line in east PA and NJ tomorrow night in the first graphic. Other changes are minor with some fine tuning of timing. We still are seeing a great deal of uncertainty in the snow accumulations west of the depicted red box.





Thursday, December 24, 2020 at 0946

Changes:

1. Added mention of a lesser band in east PA 5pm-9pm that may also produce enhanced gusts
2. Added details to the original squall line threat (white)
3. Fine-tuned timing of the non-squall line general wind gust threat (green/yellow)
4. Fine-tuned snowfall area and timing
5. Fine-tuned rainfall area and timing

All threats will be over or ending by tomorrow morning so this will be the final update.

