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January 7, 2022

**VIA ELECTRONIC FILING**

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

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

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 December 21, 2021 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) 921-6658.

Sincerely,



Tori L. Giesler

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 Bidelsbach – 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 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 21, 2021 1106  
*(Date)* *(Time)*

5. Interruption or Outage:
- (a) Number of customers affected: 5,331
  - (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
Cumberland	3,253	7	1
York	2078	10	7
<b>Total</b>	<b>5,331</b>	<b>17</b>	<b>8</b>

(d) Approximate number of outage cases exceeding 6 or more hours in duration: 7

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

See Attachment A.

- (f) Reason for the interruption or outages: On Tuesday, December 21, 2021, service from the Allen Substation was interrupted as a result of the transformer load tap changer (LTC) failure. The LTC was identified as the initiating cause of the outage after further inspection following restoration and revises the initial cause, which was communicated to be as a result of a transformer bushing failure. This LTC failure caused a loss of supply impacting the 00501-4, 00502-4, and 00503-4 circuits. A total of 5,331 customers were impacted. Switching was performed in stages to reduce the risk of additional outages due to increased load from early morning cold temperatures, which dictated spreading out initial restoration of 2,817 customers. The restoration posed a significant challenge due to the layout of the substation and configuration of the mobile unit, which required a pole to be installed in order to complete the mobile unit installation. See Attachment B for a detailed timeline of events. Further, See Attachment C for the restoration curve and Attachment D for the order restoration graphs.

Preliminary data indicates that this outage resulted in approximately 5.9 minutes of SAIDI and 636.9 minutes of CAIDI and less than 0.01 SAIFI impact.

- (g) Projected time of restoration: The estimated time of restoration for customers impacted was initially reported as December 21, 2021 at 2000, but was later updated to December 21, 2021 at 2300 as restoration continued throughout the day. Met-Ed initiated a reverse Interactive Voice Response system at approximately 1800 on December 21, 2021 to the affected customers advising them of the updated time of restoration.
- (h) The number of utility workers, contract workers and workers received as mutual aids assigned specifically to the repair work by general function: Met-Ed utilized a three-person transmission crew, six substation crew members, one relay technician, ten lineworkers, three supervisors and one commissioning engineer to install the mobile substation unit as safely and quickly as possible.
- (i) The date and time of the first information of a service interruption: December 21, 2021 at 0612.
- (j) The date and time that repair crews were assembled: December 21, 2021 at 0600 as crews were on duty and additional crews were assembled as the outage continued.
- (k) The actual time that service was restored to the last affected customer: December 22, 2021 at 0150.

- (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	0
Secondary Spans Replaced	0
Crossarms Replaced	0
Cutouts Replaced	0
Poles Installed	1
Transformers Replaced	0
Wire & Cable Installed (feet)	170

- (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:

This interruption/outage event was not weather related.

- (n) If the interruption/outage event caused approximate outages that exceed 10% or more of customer 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 outage statistics contained in this report are preliminary. The review and approval of the outage 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 information<sup>1</sup>:**

<b>Order #</b>	<b>Approximate Location (County)</b>	<b>Total Number of Customers Affected</b>	<b>Duration of the Outage (minutes)</b>	<b>Initial Date and Time of the Outage</b>	<b>Restoration Date and Time</b>
11873042-1	York	7	1,178	12/21/2021 0612	12/22/2021 0150
11873042-1	York	12	1,176	12/21/2021 0612	12/22/2021 0148
11873034-1	Cumberland	302	1,157	12/21/2021 0612	12/22/2021 0129
11873042-1	York	153	1,154	12/21/2021 0636	12/22/2021 0150
11873042-1	York	216	1,152	12/21/2021 0636	12/22/2021 0148
11873047-1	Cumberland	1215	1,147	12/21/2021 0612	12/22/2021 0119
11873034-1	Cumberland	609	1,135	12/21/2021 0634	12/22/2021 0129

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

**Attachment B: Timeline of Events**

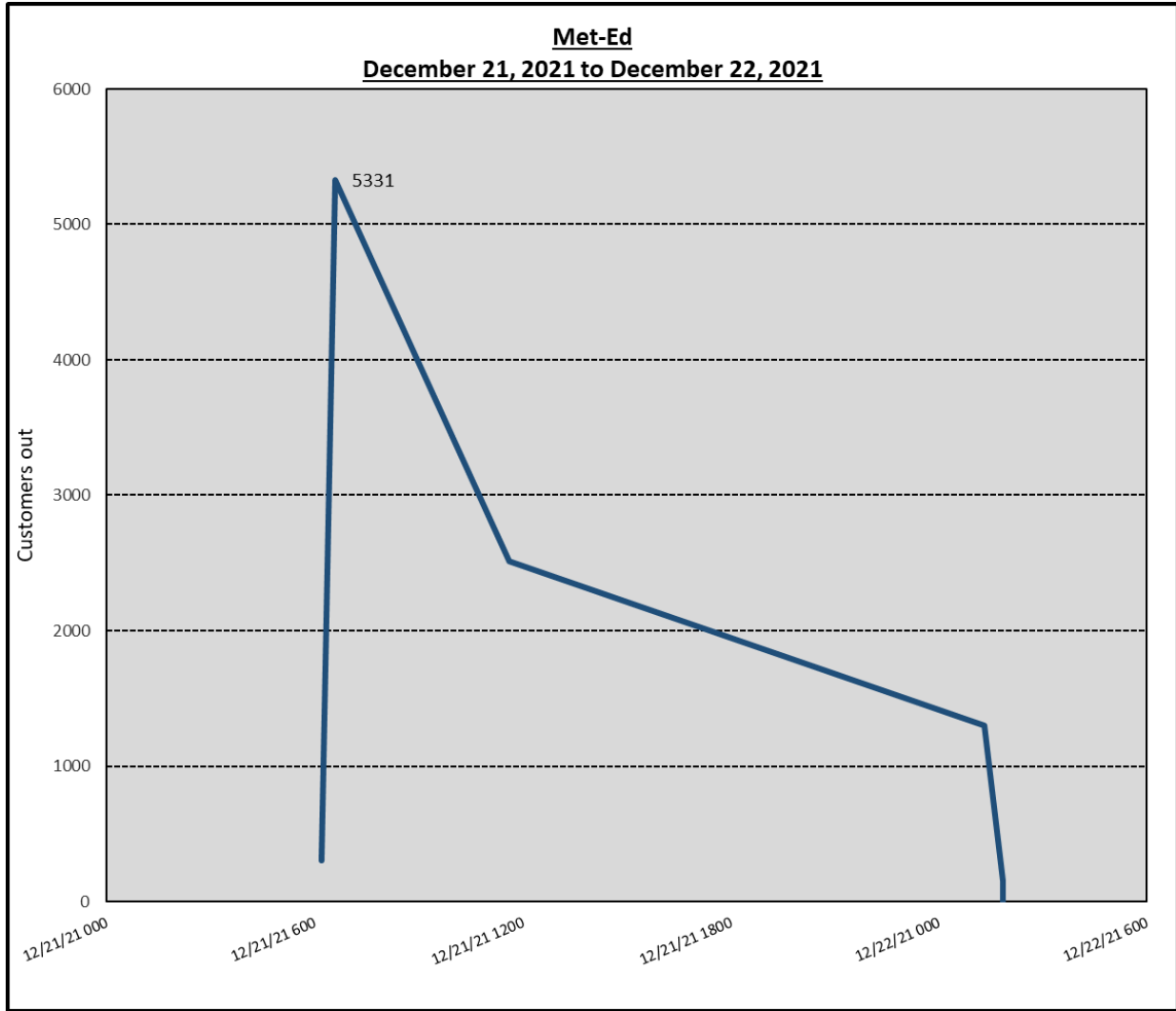
**Table 1- List of Customers Impacted**

<b>District</b>	<b>Substation</b>	<b>Circuit</b>	<b>Time Off</b>	<b>Time Restored</b>	<b>Customers Affected</b>	<b>Duration (min)</b>
Dillsburg	Allen	00502-4	12/21/21 0612	12/22/21 0119	1,215	1147
Dillsburg	Allen	00503-4	12/21/21 0612	12/22/21 0150	2,078	5498
Dillsburg	Allen	00501-4	12/21/21 0614	12/22/21 0129	2,038	3178

**Table 2 – Cumulative Customers Out or Restored**

<b>Date</b>	<b>Time</b>	<b>Customers (Out) or Restored</b>	<b>Cumulative Customers On</b>	<b>Cumulative Customers Out</b>	<b>Summary</b>
12/21/2021	0612	(2,433)		(2,433)	Contractor discovered noise and smoke coming from transformer.
12/12/2021	0634	(1,450)		(3,883)	
12/21/2021	0636	(1,448)		(5,331)	
12/21/2021	0726-1137	2,817	2,817	(2,514)	Switching performed in stages to restore 2,817 customers.
12/22/2021	0119-0150	2,514	5,331	0	2,514 customers were restored in stages following the mobile substation placed into service.

**Attachment C: Order Restoration Curve**



**Attachment D: Order Restoration Graphs**

