



David Warner
Associate Counsel

May 16, 2018

Via Electronic Mail

Hon. Kathleen H. Burgess
Secretary to the Commission
New York State Public Service Commission
Three Empire State Plaza
Albany, New York 12223-1350

RE: Case No. 17-E-0428 – In the Matter of an Investigation into the April 21, 2017 Metropolitan Transportation Authority Subway Power Outage and Consolidated Edison Company of New York, Inc.’s Restoration Efforts.

Dear Secretary Burgess:

In accordance with Ordering Clause 29 of the Public Service Commission’s *Order Directing Steps to Safeguard and Maintain Adequate Utility Service to the Subway System* issued November 10, 2017 in the above referenced proceeding, Consolidated Edison Company of New York, Inc. (“Con Edison”) submits its April 2018 monthly report. As discussed with Department of Public Service Staff, Con Edison files its monthly report on (or about) the 16th day of the following month.

Thank you for your assistance.

Sincerely,

Att:

cc: Michael Worden, Director, Utility Rates and Services

Case 17-E-0428

April 2018 Monthly Report
Consolidated Edison Company of New York, Inc.

May 16, 2018

Consolidated Edison Company of New York, Inc. (“Con Edison”) has prepared this monthly report for April 2018 as required by Ordering Clause 29 of the Public Service Commission’s *Order Directing Steps to Safeguard and Maintain Adequate Utility Service to the Subway System* issued November 10, 2017 in Case 17-E-0428 (“Order”).¹

Table 1 provides the status on the field work in progress that is required under the Order and includes the Ordering Clause number, a description of the specific requirement, the end of month status, the total units of work required, the required completion date (if provided) in the November Order and any explanatory note, if needed. Table 1 also provides a status update on other Ordering Clause requirements that are not field work, but are single activities required by a date certain (e.g., reach agreement on scope, participate in an activity). The Company has noted where contractors that have related expertise to perform this work under MTA oversight are performing this work.

Table 2 tracks completed work, provided in prior monthly reports, including field work that has been completed and the resolution of other Ordering Clause requirements.

¹ In order to create a single comprehensive order and to eliminate any confusion as to the Commission’s requirements, the November 10 Order re-adopts deadlines that have already passed and actions that were already taken by Con Edison pursuant to the Commission’s *Order on Consent Directing Steps to Safeguard and Maintain Adequate Utility Service to the Subway System*, issued August 16, 2017 in Case 17-E-0428.

**Table 1
April 2018 Update**

Field Work Status				
Ordering Clause Number and Requirement	April 30 Status	Total Units to be Completed	Completion Date	Notes
5. Inspections of MTA Property Line Boxes	Property Line Box inspections complete at 297 remaining stations	Total number of remaining stations - current estimate of 299.	5/9/2018 for remaining stations	The number of stations with direct signal feeds from Con Edison is being provided by the MTA and is ongoing with inspections.
5. Inspections of MTA Electric Distribution Rooms*	279	293 remaining locations	5/9/2018 for remaining stations	
7. Install Automatic Transfer Panels*	73	73 priority locations	May 9, 2018	Complete as of April 17, 2018.
7. Identify, inspect and test, currently installed Automatic Transfer Panels*	197	211 remaining locations	August 9, 2018	
7. Install Sag Correctors as needed*	1 at priority locations	115 priority locations	August 9, 2018	
	3 installed at remaining locations	Current estimate is 275 remaining locations	December 31, 2018	

7. Install Quick Connects for Back-Up Generators*	162	162	May 9, 2018	Complete as of April 17, 2018.
7. Install Quick Connects for Back-Up Generators at Remaining Locations*	1 at priority locations	11 priority locations	August 9, 2018	
	0 at remaining locations	40 remaining locations	December 31, 2018	
7. Trackside work except for Signal Cable Replacement*	99 percent complete	100 percent	May 9, 2018	Contractors completed the inspections and work, including necessary repairs and replacements, except for a small number of locations where access could not be provided by the MTA because of the extensive coordination needed in these locations. The MTA advised Con Edison that it will take responsibility for completion of this remaining work.

7. Signal Cable Replacement*	7 locations	10 locations	May 9, 2018	
13. Replacement of Aluminum conductors	159 sections replaced at remaining stations	165 sections	May 9, 2018	
16. Implement work plans for improved redundancy at remaining locations	48 complete	Current estimate is 50 locations	May 9, 2018	
Other Ordering Clause Requirements				
None				

* This work is being performed by contractors that have related expertise to perform this work under MTA oversight.

**Table 2
Completed Work**

Field Work				
Ordering Clause Number and Requirement	Monthly Report	Total Units to be Completed	Completion Date	Notes
1. Inspections of Con Edison structures directly serving MTA stations	October 2017 Report	462 MTA passenger/signaling facilities in the Con Edison service territory	9/30/2017	Complete.
4. Mapping deficiencies identified	September 2017 Report	462 MTA facilities in Ordering Clause 1	9/30/2017	Complete - Con Edison has corrected 258 mapping deficiencies within 5 days.
5. Inspections of MTA Property Line Boxes	January 2018 Report	100 priority locations	2/9/2018	Complete.
5. Inspections of MTA Electric Distribution Rooms	February 2018 Report	119 Priority Stations	2/9/2018	Complete.
7. Inspections of Signal Relay Rooms	February 2018 Report	201	2/20/2018	Complete.
7. Review Remaining Locations for Determining Alternate Electric Service	March 2018 Report	66	3/27/2018	Complete. 51 of 66 require necessary construction work.
8. Inspections of MTA's high voltage substations	September 2017 Report	5	9/30/2017	Complete.

9. Sensors at MTA stations	September 2017 Report	462 stations	9/30/2017	Complete.
10. AMI meters and communications equipment associated with MTA signaling services	January 2018 Report	752 meters	Manhattan and Brooklyn: 1/31/2018	Complete.
10. AMI meters and communications equipment associated with MTA signaling services	March 2018 Report	359 meters	Bronx and Queens: 3/20/2018	Complete.
13. Replacement of Aluminum conductors	December 2017 Report	77 sections at High Priority locations	12/31/2017	Complete.
15. Implement work plans for improved redundancy at 17 high priority locations	December 2017 Report	17	12/31/2017	Complete.
21. Con Edison to provide “virtual presence” or key operating employee on site	December 2017 Report	Con Edison is installing 10 dedicated automatic ring down circuits between Con Edison Regional Electric Control Centers and the MTA power control center.	12/31/2017	Complete. Con Edison, DPS Staff and the MTA reached agreement on the “virtual presence” approach by August 31, 2017 (See August 2017 monthly report). The 10 dedicated automatic ring down circuits have been installed and are in service.

Complete - Other Ordering Clause Requirements

Ordering Clause Number and Requirement	Monthly Report	Company Response
5. Scope of inspections and roles of parties for MTA Property Line Boxes and Electric Distribution Rooms	August 2017 Report	Con Edison, DPS Staff and the MTA reached agreement in principle on August 31, 2017 on the scope and roles for these required inspections. The agreed-upon date to complete the inspections is February 9, 2018 for 119 priority stations that MTA identified and May 9, 2018 for the remaining stations.
7. Scope of inspections and roles of the parties for the inspections of MTA interlocking station electric equipment	August 2017 Report	Con Edison, DPS Staff and the MTA reached agreement in principle on August 31, 2017 on the scope and roles for the required inspections. The agreed-upon date to complete these inspections is May 9, 2018.
8. Scope of inspections and roles of the parties for the inspection of MTA's 221 high voltage substations	August 2017 Report	Con Edison, DPS Staff and the MTA reached agreement in principle on August 31, 2017 on the scope and roles for the required inspections. The agreed-upon date to complete these inspections is September 30, 2017.
8. Con Edison and DPS will come to an agreement on what Con Edison's inspection history indicates about the need for additional inspections of Con Edison's area substation equipment serving MTA's high voltage substations. Con Edison will inspect its area substation equipment serving MTA's high voltage substations where indicated by the agreement by June 1, 2018. The inspected equipment shall include but not be limited to area station transformers, circuit breakers, and relays	October 2017 Report	Con Edison and DPS have reviewed Con Edison's inspection history, agreed on what it requires with respect to inspections, and Con Edison has completed those inspections.

<p>8. Con Edison’s role will be to inspect with the MTA, the MTA’s maintenance and inspection records and to visually inspect with the MTA its equipment in the field without taking it out of service, and to provide recommendations to MTA by a date certain established in the agreement, subject to the MTA providing Con Edison access to MTA’s records and facilities as required.</p>	<p>October 2017 Report</p>	<p>The agreed upon date for Con Edison to make recommendations for the MTA’s 221 high voltage substations is November 30, 2017.</p>
<p>8. Con Edison’s role will be to inspect with the MTA, the MTA’s maintenance and inspection records and to visually inspect with the MTA its equipment in the field without taking it out of service, and to provide recommendations to MTA by a date certain established in the agreement, subject to the MTA providing Con Edison access to MTA’s records and facilities as required.</p>	<p>November 2017 Report</p>	<p>Con Edison provided recommendations to the MTA on November 29, 2017.</p>
<p>11. Jointly develop Con Edison and MTA protocols regarding power and equipment issues, including, but not limited to AMI.</p>	<p>December 2017 Report</p>	<p>Written procedures and protocols were jointly developed by Con Edison, MTA, and DPS. They were agreed to during the weekly meeting on December 20, 2017.</p>
<p>11. Con Edison protocols for communications regarding power and equipment issues, including but not limited to AMI issues, will be developed and fully implemented by January 31, 2018 in Manhattan and Brooklyn.</p>	<p>January 2018 Report</p>	<p>Con Edison has fully implemented the procedures and protocols in Manhattan and Brooklyn. Protocols and procedures are also in place and in use for AMI equipment installed and operating at MTA locations in Queens and the Bronx to date.</p>
<p>13. (aluminum conductors) Con Edison shall complete the other locations (other than the high priority locations) by a date certain established in consultation with the MTA and DPS following the completion of the inspections required by Ordering Clause 1 above.</p>	<p>October 2017 Report</p>	<p>Con Edison has consulted with the MTA and DPS Staff on the removal of aluminum conductors at the “other locations” serving the MTA. The agreed upon date for the removal of the additional aluminum conductors is May 9, 2018.</p>

16. Jointly develop work plans to improve the redundancy of Con Edison's electric service and/or install additional redundant Con Edison electric supply options for the rest of MTA's signaling services.	December 2017 Report	Con Edison, MTA and DPS jointly developed work plans to improve redundancy of Con Edison's electric service at 42 MTA locations. The parties agreed that the date certain to complete this work is May 9, 2018.
18. Establish inventory of generators and determine staging locations.	December 2017 Report	Con Edison, MTA and DPS worked together to develop a generator staging plan. This plan identifies the locations of MTA generators and Con Edison workout locations where generators will be dispatched from. At the weekly meeting on December 20, 2017, DPS, MTA and Con Edison agreed on the generator staging plan.
19. Work with the MTA to perform an analysis of power supply and power quality events affecting MTA's signaling services from 2015 to date.	December 2017 Report	Con Edison worked with the MTA to perform an analysis of power supply and power quality events affecting signaling services. 198 events from January 1, 2015 to August 2, 2017 were reviewed using MTA reported times and locations to correlate with Con Edison system events. Root causes and solutions were identified to the extent applicable (cause could not be determined for 56 events, 3 were attributable to the MTA and 11 were not in the Con Edison service territory).
20. Con Edison will demonstrate by August 31, 2017, that it has response personnel to provide priority response for power failure issues/impacts affecting the MTA system.	August 2017 Report	Con Edison provided this demonstration to DPS Staff and the MTA and it was agreed that Con Edison has sufficient response personnel.
21. Con Edison, DPS Staff and the MTA to consider Con Edison providing a "virtual presence" on site or key operating employee on site.	August 2017 Report	Con Edison, DPS Staff and the MTA reached agreement by August 31, 2017 for the use of a virtual presence and dedicated communications equipment.
22. Con Edison will work with the MTA and participate in a joint response drill on August 10, 2017.	August 2017 Report	Con Edison and MTA participated in a Joint Response drill on August 10, 2017. DPS Staff observed the drill.

23. Con Edison is directed to within five business days designate a specific team of individuals to assist DPS and EPRI in the power assessment.	August 2017 Report	Con Edison designated a team to assist DPS Staff and EPRI with the Power Quality review team within five days of the issuance of the Order.
28. Con Edison will prepare by August 31, 2017, a Project Management Plan to coordinate all its activities related to the MTA system.	August 2017 Report	Con Edison provided a Project Management Plan to Staff on August 24, 2017.