

# **PJM Manual 13 :**

Emergency Operations

Revision: 98

Effective Date: July 23, 2026

Prepared By  
System Operations Division

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## Attachment O: Emergency Use of Back-up Generators

**Purpose:** ~~PJM shall notify the Department of Energy when PJM issues or anticipates to that it will issue a NERC EEA1, and expects an emergency warranting the potential issuance of an EEA3 and the need for a Department of Energy 202(c) Order to allow direct back-up generation facilities to run as a last resort avoiding potential firm load shed. When such a Department of Energy 202(c) Order is in effect, bBack-up generation facilities may be used after NERC EEA1 and EEA2 steps are issued, and all available generation resources and all load management procedures (pre-emergency and emergency demand response) have been exhausted.~~

~~PJM Dispatch notifies PJM management, PJM public information personnel, and PJM members of the expected period that system conditions warrant potential use of back-up generation at large loadLarge Load facilities.~~

~~PJM will directly notify member Transmission Owners in advance of the formal request to the Department of Energy for a 202(c) Order and will provide notification directly to member TOs upon receipt of a Department of Energy 202(c) Order to allow TOs to work with EDCs to take necessary steps to coordinate with large loadLarge Loads.~~

~~Once PJM applies for and receives a 202(c) Order from the Department of Energy authorizing the use of back-up generation at data centers in the PJM region, PJM will implement steps outlined below in coordination with member Transmission Owners (TOs) to notify large loadLarge Loads to be prepared to allow large loads to operate large loads on back-up generation within 15 minutes of issuance of the Emergency Use of Backup Generators Action, and disconnected from Utility source power.~~

**Note:** ~~Until NERC establishes an approved definition of "Large Load," PJM will use the terms "Data Centers" and "Large Loads" interchangeably.~~

**Commented [DP1]:** Represent it as a Note in the final manual revision.

### Capacity Emergencies Procedure:

#### PJM Actions

1. ~~(Day-Ahead) PJM issues a Maximum Generation Emergency / Load Management Alert and NERC EEA 1 day ahead and provides notification to the DOE. PJM may issue additional Alerts Day-ahead depending on system projections.~~

**Note:** ~~PJM will post as a Special Notice to the Emergency Procedures Posting Website that there is potential for requesting a 202(c) order to permit use of Emergency Back-up Generation to allow TOs and Electric Distribution Companies and Load Serving Entities (collectively "retail service providers") to take necessary steps to coordinate with large loadLarge Loads in advance. This advanced notice will be based upon projected~~



reserve values and can be issued at any point but no later than issuance of a Primary Reserve Alert.

2. (Real Time) PJM issues Pre-Emergency Load Management, Emergency Load Management and a Public Appeal to reduce Demand and NERC EEA 2 and provides notification to DOE indicating whether PJM anticipates they will be unable to meet their Contingency/Primary Reserve Requirements (i.e. NERC EEA 3 is anticipated).
3. PJM will issue all Capacity Emergency Procedures, up to Step 7 – Deploy All Resource Action but will not issue a Voltage Reduction Action since a Voltage Reduction relief provides Contingency Reserves.

Prior to issuing a Manual Load Dump Warning (NERC EEA 3), PJM will issue an Emergency Use of Back-up Generators Warning and communicate directly to the impacted Transmission Owners via the PJM ALL-CALL System notifying them of the expected MW amount of large load Large Load to be disconnected from utility source power and operate on bBack-up gGeneration within 15 minutes of issuance of the Emergency Use of Back-up Generators Action.

**Note:** PJM Dispatch determines which Transmission Owners are capacity deficient based on EMS calculations and the relative proportion of deficiency. PJM Dispatch requests the total amount of large load Large Load to operate on back-up generation be disconnected and utilizes the PJM EMS to determine deficient Control Zones and their share of responsibility. PJM will exhaust all large load Large Loads capable of being disconnected operated on back-up generation within the specified timeframe 15 minutes timeframe, within the capacity short transmission zone before requesting large load Large Loads to operate on back-up generation disconnect in transmission zones with excess capacity.

5. PJM will issue an Emergency Use of Back-up Generators Action directly to the impacted Transmission Owners via the PJM ALL-CALL System, communicating expected MW amount of lLarge lLoad to be directed to disconnected from utility source power and operate on bBack-up gGeneration in order to maintain Contingency/Primary Reserves. Transmission Owners shall coordinate with Electric Distribution Companies and Load Serving Entities (collectively “retail service providers”) large loads and disconnect them from utility source power so that they can automatically begin to support the switch operation of lLarge lLoads to-on back-up on-site generation within 15 minutes of the PJM ALL-CALL.



6. PJM will issue a Manual Load Dump Warning (NERC EEA3) upon issuance of Emergency Use of Back-up Generators Action.

**Note:** Emergency procedure steps may escalate and some steps could be issued simultaneously due to system conditions

### Member Actions

1. Transmission Owners make notification to Electric Distribution Companies and Load Serving Entities (collectively “retail service providers”) to advise Large Load Large Loads of potential need to operate on bBack-up gGenerators as directed by DOE when determined by PJM to maintain Contingency/Primary Reserve levels for specified alert/warning period as communicated on Emergency Procedure Posting website.
2. Transmission Owners report to PJM the MW amount of Llarge Lload that can be disconnected from Utility Power and time required to disconnect and available to operate on Back-up Generation within 15 minutes of the issuance of Emergency Use of Back-Up Generators Action. See Table ??.
3. Transmission Owners coordinate with Electric Distribution Companies and Load Serving Entities for large load Large Loads to support implementation of Back-up Generation Action procedure as directed by PJM within 15 minutes of receiving the PJM ALL-CALL.
- 3-4. Transmission Owners coordinate with PJM and inform Electric Distribution Companies and Load Serving Entities when to notify Llarge Lloads that they can cease operating on bBack-up gGeneration upon cancellation of Emergency Procedure when appropriate as directed by PJM. Transmission Owners / DPs prepare to disconnect large loads from Utility Power via SCADA or by staffing necessary stations.  
Transmission Owners coordinate with Electric Distribution Companies and Load Serving Entities for large loads and to support implementation of Back-up Generation Action procedure as directed by PJM.
5. Transmission Owners coordinate with PJM and inform Electric Distribution Companies and Load Serving Entities when to notify large loads that they can cease operating on Back-up Generation to restore Utility Power to applicable large loads when appropriate as directed by PJM.

**Commented [CD2]:** DLC Comment: DLC proposes adding a table, similar in format to what is included for IROL in Attachment N that would include total MW values for each TO as provided by each TO to be included in this attachment. Would want guidance from PJM on what large load should be included. It is unclear to us at this time what large load is to be included or not included.

**Commented [DP3R3]:** PJM does not want to include a table as part of the manual revision. PJM expects the values to change during each event.

PJM will add a note to identify Large Load references Data Centers until NERC provides an approved definition.



**Transmission Emergency Procedure:**

**PJM Actions**

1. (Day-Ahead) PJM issues a Transmission Security – Local Maximum Generation Emergency Alert, Transmission Security - Load Management Alert, and provides notification to the DOE. PJM may issue additional Alerts Day-ahead depending on system projections.

**Note:** If applicable, PJM will post as a Special Notice to the Emergency Procedures Posting Website that there is potential for requesting a 202(c) order to allow use of Emergency Back-up Generators to allow impacted TesTOs and Electric Distribution Companies and Load Serving Entities (collectively “retail service providers”) to take necessary steps to coordinate with large load Large Loads in advance. This advanced notice will be based upon Day Ahead Transmission Analysis. PJM Dispatch must quickly act to mitigate constrained facilities in accordance with operating procedures identified in PJM's Manual for Transmission Operations (M-03), Section 2: Thermal Operating Guidelines and Section 3: Voltage & Stability Operating Guidelines, and PJM's Manual for Emergency Operations (M-13) Section 5: Transmission Security Emergencies.

2. (Real Time) PJM issues Pre-Emergency Load Management, Emergency Load Management and a Public Appeal to reduce Demand in impacted Transmission Zone(s). PJM provides notification to DOE indicating whether PJM anticipates additional emergency procedures up to and including Manual Load Shed.
3. PJM will issue all Transmission Security Emergency Procedures up to Step 7 – Transmission Security - Deploy All Resource Action.

Prior to issuing a Transmission Security - Manual Load Dump Warning, PJM will issue an Emergency Use of Back-up Generators Warning and communicate directly to the impacted Transmission Owners notifying them of the expected MW amount of large load Large Load needed to to be disconnected from Utility Source Power and operate on Back-up Generation within 15 minutes of issuance of the Emergency Use of Backup Generators Action.

**Note:** PJM Dispatch determines which Transmission Owners are impacted based on EMS calculations and Load Distribution Factors (dFax). PJM Dispatch requests the total amount of large load Large Load to be operate on back-up generation disconnected and utilizes the PJM EMS to determine impacted Control Zones and their share of responsibility. PJM will exhaust all large load Large Loads capable of being



~~operate on back-up generation disconnected within the specified a 15 minute timeframe within the impacted transmission zone based on impact to constrained Transmission Facility.~~

- ~~PJM will issue an Emergency Use of Back-up Generators Action directly to the impacted Transmission Owners, communicating expected MW amount of large load Large Load to be disconnected from Utility Source Power and needed to operate on bBack-up Generation in order to maintain Transmission facilities within applicable limits. Transmission Owners shall coordinate with Electric Distribution Companies and Load Serving Entities large loads and disconnect them from utility source power to support communication to large load Large Loads so that they can automatically begin to switch operate onto back-up on site generation within 15 minutes of receiving the PJM ALL-CALL. PJM will issue a Transmission Security – Manual Load Dump Warning upon issuance of Emergency Use of Back-up Generators Action.~~
- ~~When conditions improve, PJM will communicate directly with impacted Transmission Owners in order to support communication to large load Large Loads when they can safely cease operating on back-up generation and and reestablish utility source power to large loads incrementally based on MW amount in order to maintain reliability and balancing requirements.~~

**Note:** ~~Emergency procedure steps may escalate and some steps could be issued simultaneously due to system conditions.~~

**Note:** ~~Utilities may disconnect large loads via SCADA control. If a large load cannot be isolated via SCADA, the utility may elect to send staff to the location to manually open up equipment to place the large load on back-up generation.~~

#### **Member Actions**

- ~~Transmission Owners make notification to Electric Distribution Companies and Load Serving Entities to inform large load Large Loads of potential need to operate on Bback-up gGenerators as directed by PJM to maintain Transmission facilities within applicable limits for specified alert/warning period as communicated on Emergency Procedure Posting website.~~
- ~~Transmission Owners report to PJM the MW amount of large load Large Load that can be disconnected from Utility Power and time required to disconnect and operate on Bback-up gGeneration within 15 minutes of the issuance of Emergency Use of Back-Up Generators Action and the time required to make that switch. See Table ??.~~



- ~~3. Transmission Owners / DPs prepare to disconnect large loads from Utility Power via SCADA or by staffing necessary stations.~~
3. Transmission Owners coordinate with Electric Distribution Companies and Load Serving Entities to facilitate communication to large-loadLarge Loads andto be prepared to implement Use of Bback-up Generators Action procedure as directed by DOE when determined by PJM within 15 minutes of receiving the PJM ALL-CALL.
4. Transmission Owners coordinate with Electric Distribution Companies and Load Serving Entities for large-loadLarge Loads to support implementation of Back-up Generation Action procedure as directed by PJMwithin 15 minutes of receiving the PJM ALL-CALL.
- 4.5. Transmission Owners coordinate with PJM and with Electric Distribution Companies and Load Serving Entities to ensure communication to large-loadLarge Loads when they may cease operating on bBack-up generation upon cancellation of Emergency Procedure to restore Utility Power to applicable large-loads when appropriate as directed by PJM.

**Note:** Emergency procedure steps may escalate and some steps could be issued simultaneously due to system conditions.

