



Generator Outage Scheduling Overview

Ray Lee

Lead Engineer, Generation

OC Special Session: Outage Coordination

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Generation Owner requests outage by submitting a generator outage ticket into eDART

Planned (PO)
Maintenance (MO)
Unplanned/Forced (FO)



eDART validates ticket against business rules and available generator outage margin

eDART automatically approves outage if all checks pass. Outage that fails a check is put in Pending Evaluation status for additional review by PJM staff



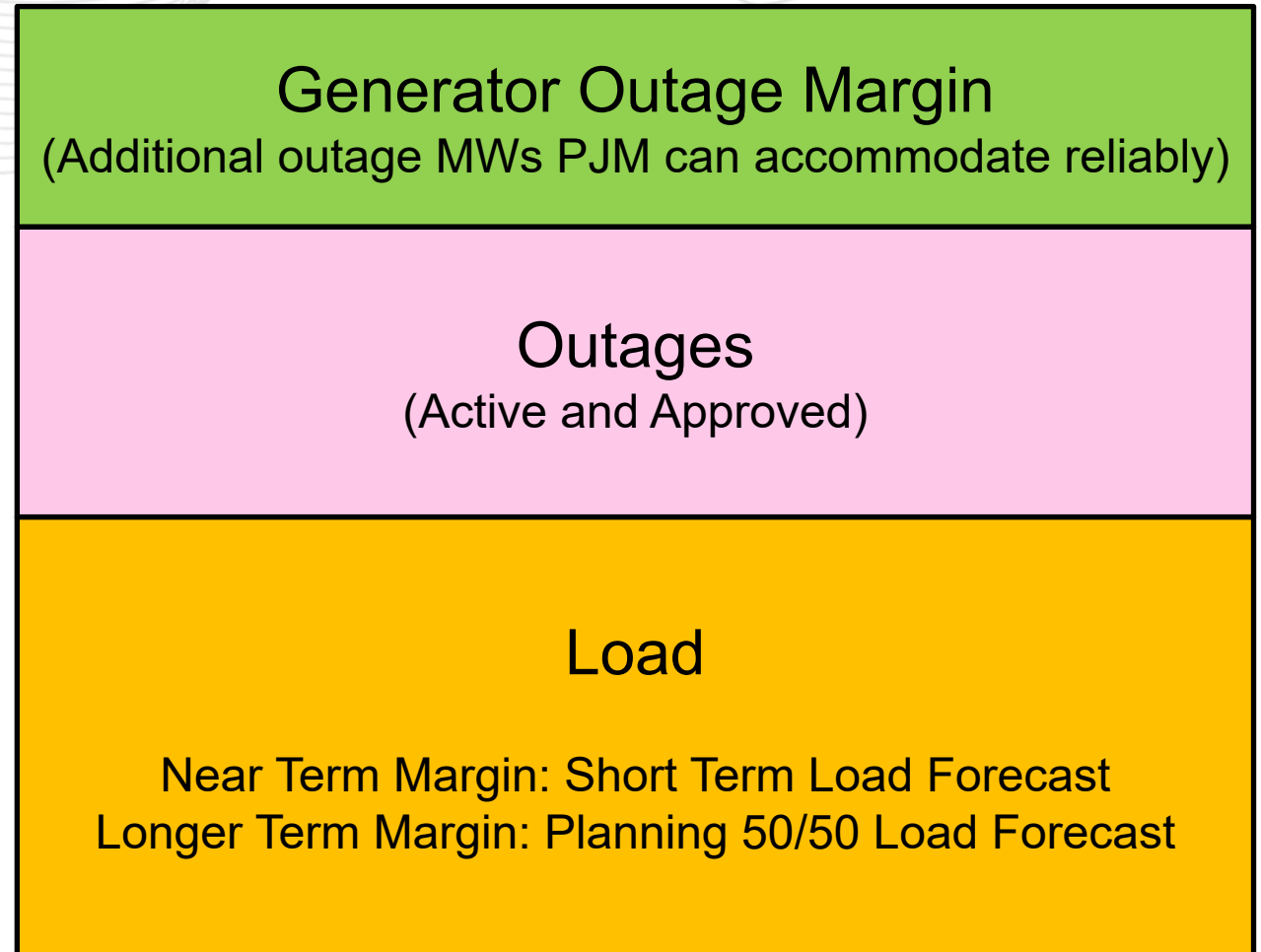
PJM incorporates active and approved outages into near and long term studies.

Approved outages may be rescinded and active MO may be recalled pending system conditions.

PJM outage scheduling rules can be found in PJM Manual M10

<https://www.pjm.com/-/media/documents/manuals/m10.ashx>

- Margin is calculated for the RTO and individual zones
- Zonal margins account for import capability
- Near term margin: outages occurring within next 7 days
- Longer term margin: outage occurring 7+ day out
- Outage requests resulting in a negative margin in the RTO or area are rescheduled or denied



Longer Term Assessment Only

Near & Longer Term Assessment

Near Term Assessment Only

Today

Today + 7 Days

7+ Days Out

1. Near term assessment only: Tickets & revisions starting/ending within next 7 days
2. Near/longer term assessment: Tickets & revisions starting within next 7 days and ending 7+ days
3. Longer term assessment only: Tickets & revisions starting/ending 7+ days assessed

- Typically longer in duration involving more complex tasks, repairs and plant modifications
- Must be submitted at least 30 days in advance
- Cannot occur during peak period maintenance season, which runs from the 24th week to 36th week.
 - Peak periods maintenance periods can be found using the following link in PJM Manual 10 <https://www.pjm.com/~media/markets-ops/rpm/2016-2057-peak-period-maintenance-seasons.ashx>
- Not subject to the same recall provision as a Maintenance Outage

- Intended for generators to perform maintenance between major “overhauls” that tend to take long periods of time or to maintain/repair plant systems
- Generally limited to nine days in duration. PJM may approve MO requests longer than nine days pending system conditions
- Not to be used to extend PO beyond approved estimated end date
- Active MOs can be recalled by PJM for grid reliability reasons with 72 hours’ notice. Units that are not made available by the Recall Date are treated as an Unplanned/Forced Outage with a “Forced Date” applied to the outage ticket for the recall period

- POs and MOs can be extended beyond original estimated completion date when the original scope of work requires more time to complete
 - PO extension requests must be submitted 48 hours before the last approved end date and time
 - MO extension requests must be submitted prior to the last approved end date and time
 - POs and MOs that fail to follow extension deadlines may result in the extension of the outage ticket being treated as an Unplanned/Forced Outage with a “Forced Date” being applied to the outage ticket in eDART
- Unexpected issues or delays are not grounds for extensions

- Unexpected failures or inability to operate
- Typically submitted with very short notice
- PJM cannot deny Unplanned/Forced Outages

Generator Outage Scheduling Tools: Generator Outage Margin & Peak Period

Generator Tickets Main Menu	
Summer Peak Period Maintenance Margin Season Start: 06/13/2022 End: 09/09/2022	
Current Maintenance Margin	
Mid-Atlantic	0
Western-Southern	0
Create New Ticket Opportunity Window View/Revise Ticket	

- Current day generator outage margin for Mid-Atlantic and Western-Southern areas
- Refer to the eDART User Guide: Peak Period Maintenance for additional details.
<https://pjm.com/-/media/etools/edart/edart-user-guide.ashx>

Generator Outage Opportunity Window

Generator outage opportunity window shows potential available dates for outages.
Proposed windows are based solely on current reserve projections and does not guarantee outage approval.
Outages will be evaluated against current edart rules upon submittal.

Company: **Generation Co.** Unit:

Reduction: Duration (in days): Interval Start: Interval End:

Reduction: Duration (in days): Interval Start: Interval End:

Opportunity Window **DURING:** 08/21/2017 00:00 - 09/30/2017 00:00

- Refer to the eDART User Guide: Opportunity Window for additional details. <https://pjm.com/-/media/etools/edart/edart-user-guide.ashx>

- Generation Owners may request email notifications from eDART for transmission outages that impact their resources
- eDART Transmission Notification Request Process <https://pjm.com/-/media/etools/edart/edart-transmission-ticket-notification-request-form-guide.ashx>
- Transmission Ticket Notification Request form for Generation Entities <https://pjm.com/markets-and-operations/etools/edart/transmission-ticket-notification-request>

Facilitator:
Rich Brown,
Richard.Brown@pjm.com

Secretary:
Madalyn Beban,
Madalyn.Beban@pjm.com

SME/Presenter:
Ray Lee,
Ray.Lee@pjm.com

Generator Outage Scheduling Education



Member Hotline

(610) 666 – 8980

(866) 400 – 8980

custsvc@pjm.com

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