Generation Outage Review Expectations

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Key Objectives

- Acknowledge recent changes in generation outage review expectations
  - Detailed descriptions outlining work scope
  - Appropriate durations for work scope
  - Extensions connected to original work scope
- This discussion is intended to:
  - Explain why the change is necessary
  - Explain why outage approvals are taking longer
  - Clarify outage information requirements
  - Reinforce continued coordination to maintain Bulk Electric System reliability

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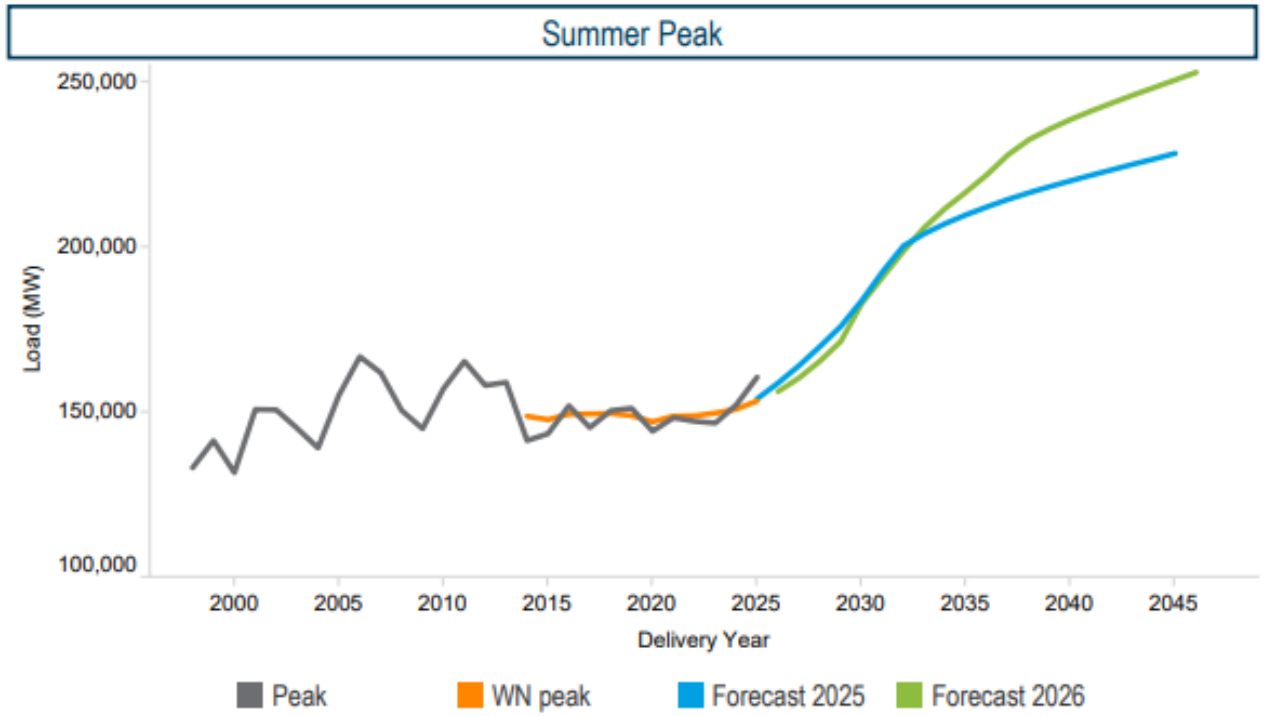
Current Planning and Operating Environment

*2026 load report

- Load levels have increased and will continue to increase.
- Off-peak periods now experience higher base load conditions.
- Generation capacity additions have not offset load growth.



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Reliability Impact

- Each generation outage has increased impact on:
  - Local and system-wide reliability
  - Transmission constraints
  - Reserve adequacy
- With reduced margins concurrent and extended outages increase operational risk
- Outage decisions directly affect PJM's ability to manage system contingencies

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Outage Review Objectives:

PJM approved outages must:

- Not adversely impact Bulk Electric system reliability
- Are aligned with Manual 10 guidelines
- Are scheduled and evaluated equitably across all Generation Owners
- Are supported by a **defined and reasonable** work scope
- Have durations consistent with the proposed maintenance activities

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Information Required from Generation Owners

To facilitate eDART outage ticket approval PJM requires:

- Clear and detailed work scope descriptions
  - **Include top 3-5 specific items that could shift (critical path) outage end date**
- Specific cause codes that align with work description
- Requested outage durations aligned with planned work
- Sufficient detail to support potential outage extensions

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Work Scope, Duration, and Extensions

eDART Ticket Descriptions - Work Scope:

- Specific maintenance or repair activities
- Major equipment or systems impacted

Duration:

- Reasonable reflection of work scope and testing
- Should not assume extensions to complete planned work

Extensions:

- Must be traceable to the originally approved scope
- Include cause of delay and updated completion timeline

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Key Drivers for Detailed eDART Ticket Descriptions

- Enables objective, criteria-based decisions
- Promotes equitable access to outage opportunities across fleet
- Improves PJM's ability to grant justified extensions when reliability permits
- Benefits both system reliability and Generation Owners

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eDART Ticket Description Example

Work Scope Definition

- Limited Detail:
  - Planned/Maintenance Outage, Spring/Fall Outage, Annual Maintenance

- Adequate Detail:
  - CT1 Major inspection (Contingencies: Bearing refurbishment/replacement, Hydrogen seal replacement, inlet duct repair), replace Feedwater pump motor replacement, HRSG tube leak repair, Inspect/repair HP control valve.

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eDART Ticket Extension Example

Original Description: CT1 Major inspection (Contingencies: Bearing refurbishment/replacement, Hydrogen seal replacement, inlet duct repair), replace Feedwater pump motor replacement, HRSG tube leak repair, Inspect/repair HP control valve.

Extension Cause: During CT1 Major inspection we identified bearing #2 needed to be refurbished, due to bearing condition the work took a little longer than anticipated.

Requested Duration: 2 days

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Shared Commitment to Reliability

- PJM recognizes the importance of timely and effective maintenance on generation assets
- Generation Owners and PJM share responsibility for reliable operations
- Improved communication and transparency enables better outcomes for all parties
- Detailed outage requests enable PJM to better balance maintenance needs and system reliability

- **Next Step:**
  - Continue collaboration to align outage planning with evolving system conditions.

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Key Takeaways

1	2	3
• Generator outages are essential to maintaining assets and keeping the PJM system reliable.	• Increased load and reduced operating margins require greater diligence in outage Planning, Requests and Approvals.	• Detailed work descriptions help support outage durations and extension requests.

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