# Capacity Testing Requirements

## Issue Source

Dominion Energy

## Issue Content

This issue charge seeks to identify improvements for capacity testing of Hydro Intermittent and Pumped Storage Hydro resources. The evolving landscape of PJM's outage and capability testing requirements—driven by winter capability testing, ongoing transmission construction, and tighter reserve margins—poses new challenges for generation resource owners in coordinating planned outages and capability tests, potentially resulting in inefficiencies[1], increased costs, and scheduling conflicts that may impact system reliability. As these conditions persist, there is a timely opportunity to reassess capacity testing rules for intermittent hydro and pumped storage hydro resources for greater flexibility and to enhance the integration of operational planning, outage management, and capacity testing across the industry. Some generating facilities require longer duration outages that can span an entire seasonal capacity testing window, forcing resource owners to choose between completing critical maintenance needed to ensure long-term reliability and remaining available to perform a capacity test despite the outage being necessary for reliable operation.

## Key Work Activities and Scope

Key work activities:

1) Provide education on topics, but not limited to:

    a. PJM outage planning and scheduling requirements, to the extent to which generation resource owners can prioritize the scheduling of planned outages with PJM and minimize the potential for rescheduling of specific resources.

    b. Rules limiting planned outages during the summer period.

    c. Capacity testing requirements for intermittent hydro and pumped storage hydro resources and identification of key factors that impact performance for each resource type including timing and duration of tests.

    d. Options available to address failed capacity tests or the inability to perform a capacity test during the prescribed time period.

    e. Long duration outages required for long term maintenance and reliability of intermittent hydro and pumped storage hydro resources.

[1] https://www.pjm.com/-/media/DotCom/committees-groups/cifp-lla/2025/20251021/20251021-item-04---additional-large-load-challenges---pjm-presentation.pdf

f. Review other options for resources with longer duration outages including Must Offer Exception, Seasonal Capacity Resource, etc. and the challenges of each option. Interplay between long duration outages and seasonal testing.

2) Identify key factors that impact performance for intermittent hydro and pumped storage hydro resources.

3) Identify improvements for more efficient capability verification testing that account for generation type-specific operational characteristics such as non-ambient effected resources, including penalties for missed capacity tests due to outages or PJM-directives.

4) Examine opportunities and develop improvements for consolidating generation and capacity tests.
5) Examine opportunities and develop improvements to more efficiently coordinate scheduling of tests and outages.

## Out of Scope:

- Capacity market parameters and capacity market rules, except those related to capacity testing, outage planning, and related penalties (such as the Generation Resource Rating Test Failure Charge).
- Energy and Ancillary Service market rules.

## Expected Deliverables

1. Develop the necessary revisions and reforms to the PJM Governing Documents.

## Decision-Making Method

Tier 2

## Stakeholder Group Assignment

MIC

## Expected Duration of Work Timeline

6 months

| Start Date | Priority Level | Timing | Meeting Frequency |
|---|---|---|---|
| Click here to enter a date. | ☐ High | ☒ Immediate | ☐ Weekly |
| | ☒ Medium | ☐ Near Term | ☒ Monthly |
| | ☐ Low | ☐ Far Term | ☐ Quarterly |

## Charter

*(check one box)*

## Issue Charge

| | |
|---|---|
| ☐ | This document will serve as the Charter for a new group created by its approval. |
| ☒ | This work will be handled in an existing group with its own Charter (and applicable amendments). |

*More detail available in M34; Section 6*