



Stakeholder

Intended Audience: PJM Transmission Owners

You are receiving this email in support of NERC Reliability standard TPL-001-5. This standard specifies the following for Steady-State Analysis:

When an entity's spare equipment strategy could result in the unavailability of major Transmission equipment that has a lead time of one year or more (such as a transformer), PJM as the Transmission Planner and Planning Coordinator is required to study the impact of this possible unavailability on System performance. The studies shall be performed for the P0, P1, and P2 categories identified in Table 1 with the conditions that the System is expected to experience during the possible unavailability of the long lead time equipment. (Requirement 2.1.5).

The standard also states the following for Stability Study Analysis:

When an entity's spare equipment strategy could result in the unavailability of major Transmission equipment that has a lead time of one year or more (such as a transformer), the impact of this possible unavailability on System performance shall be assessed. Based upon this assessment, an analysis shall be performed for the selected P1 and P2 category events identified in Table 1 for which the unavailability is expected to produce more severe System impacts on its portion of the BES. The analysis shall simulate the conditions that the System is expected to experience during the possible unavailability of the long lead time equipment.

To facilitate this effort, PJM is asking Transmission Owners to provide information on their current Spare Equipment strategy with respect to the following general list of equipment for inclusion in this year's annual PJM Planning Assessment analysis:

- Synchronous Condensers
- Gas Insulated Substations
- Transformers (Auto, Phase-Shifting)
- HVDC Transformers for HVDC Facilities
- Thyristors/IGBTs for HVDC Facilities/FACTS Installations
- Interconnection Transformers for FACTS (e.g., SVC) Installations

Please provide responses to the following questions:

1. Does the TO have a Spare Equipment strategy in place for the types of equipment listed above that would cover a long lead time of 1 year or more?
 - a. If NO, please identify the type of equipment, its unique identifier (TX 1, TX2, etc.) and substation location.

2. Does the TO have a Spare Equipment strategy in place for types of equipment not listed above that would cover a long lead time of 1 year or more?

a. If NO, please identify the type of equipment, its unique identifier (TX 1, TX2, etc.) and substation location.

Responses are kindly due back directly to [Antonio Papaconstandinou](#) by EOB, Friday, May 23rd, 2025.

This has been sent to: RSCS

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