Spare Equipment Strategy: TPL-001-4

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• **R2.1.5.** *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 studied. 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.*
1. PJM to create a list of long-lead Transmission Equipment
2. PJM to submit a questionnaire to Transmission Owners asking about current Spare Equipment strategy
   1. Equipment types with a lead time $\geq 1$ year
   2. Equipment identification
3. PJM to tailor analysis based on TO Spare Equipment strategy
Long-Lead Transmission Equipment

- Auto-Transformers
- Synchronous Condensers
- Phase-Shifting Transformers
- Generator Step-Up Transformers
- HVDC Transformers for HVDC Facilities
- Thyristors/IGBTs for HVDC Facilities/FACTS Installations
- Interconnection Transformers for FACTS (e.g., SVC) Installations
- Other