



TEXAS RE

TPL-001-5.1 Transmission System Planning - Spare Equipment Strategy

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Purpose

Establish Transmission system planning performance requirements within the planning horizon to develop a Bulk Electric System (BES) that will operate reliably over a broad spectrum of System conditions and following a wide range of probable Contingencies.

Functional Entity

- Planning Coordinator (PC)
- Transmission Planner (TP)



2025 ERO Enterprise CMEP Implementation Plan



Risk element added

Transmission Planning and Modeling



Area of Focus for multiple
Standards including TPL-001-5.1

Address load growth concerns

Ensure proper transmission planning and modeling and proper use of data mining and modeling data



R2 – Spare Equipment Strategy



R2.1.5 and R2.4.5

- 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 assessed



Major Transmission Equipment

□ When compiling lists of major transmission equipment, ensure criteria used to define this equipment is clear and the entity's methodology is documented.

- How was this criteria developed?
- Document rationale to support the classification of equipment
- Examples include (but are not limited to): BES transformers, breakers, capacitors, and switches

HOW

WHY



Roles and Responsibilities

Identify and document who is responsible for:

- Maintaining and communicating equipment inventory
- Tracking lead times
- Submitting requests
- Granting approvals
- Etc.

Create and follow a documented process



Who?



What?



When?



Best Practices

□ Internal Controls focused on:

- Regular inspections and maintenance of major transmission equipment
 - Opportunity for a proactive approach
 - For in-use and spare equipment
 - May extend the useful life of equipment
- Utilizing tools intended to prompt
 - The backfilling of equipment
 - When equipment is due for inspection and maintenance



The background of the slide features a blurred image of the Texas state flag on the left and a close-up of a wind turbine's hub and blades on the right, set against a clear blue sky.

Questions?



TEXAS RE

Ensuring electric reliability for Texans