

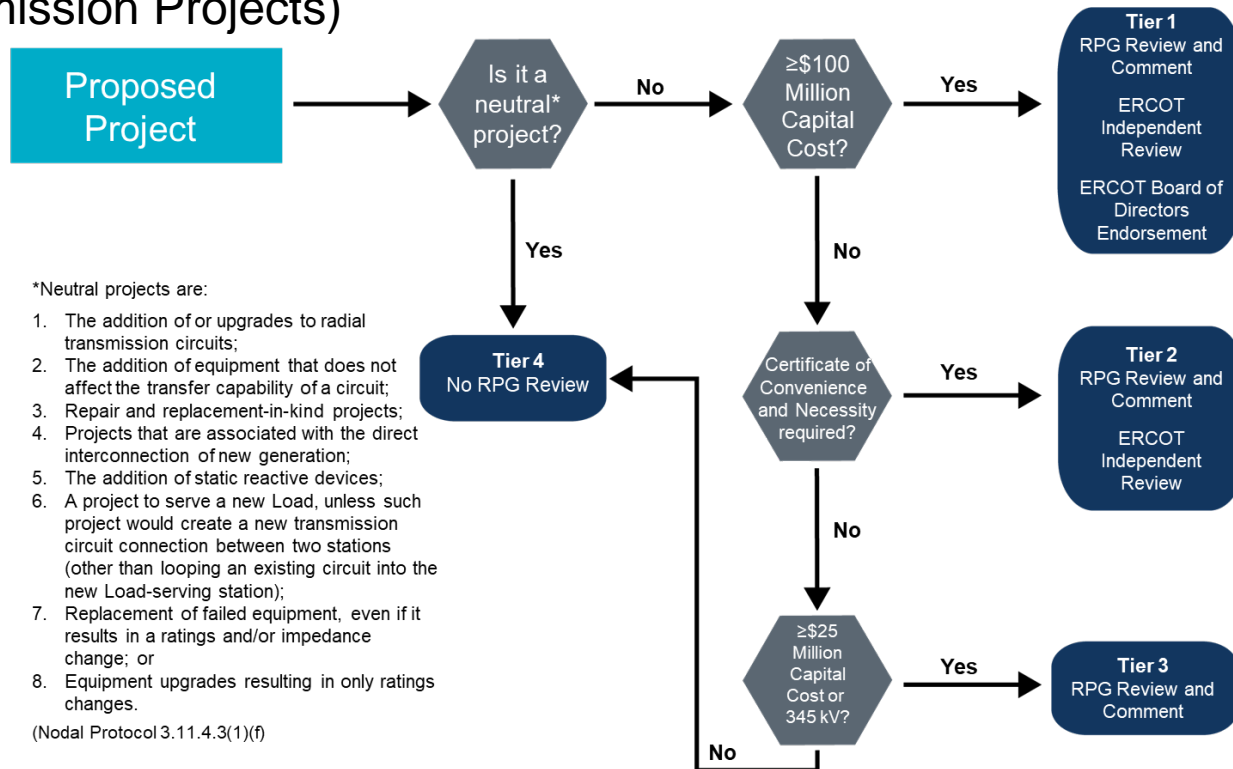


RPG Submittal Expectations

RPG, January 21, 2020

RPG Project Tiers

- The criterion used to classify a specific project into the appropriate Tier is outlined in **Protocol Section 3.11.4.3** (Categorization of Proposed Transmission Projects)



- All transmission projects in Tiers 1, 2 and 3 shall be submitted to rpg_submittal@ercot.com (**Protocol Section 3.11.4.1(2), Planning Guide 3.1.5(1)**)

Key Items to be Included in RPG Project Submittal

- ❑ Submitting all necessary information will help the RPG review process and will prevent potential delay due to lack of information

- ❑ Some of the key items are listed below. More details can be found in ***Planning Guide Section 3.1.2.1 (All Projects)***
 - Identification of the SSWG, DWG or RTP cases used as a basis for the study
 - Description and data for all changes made to the cases
 - Project need (e.g. reliability criteria, economic criteria, and/or TSP criteria)
 - Feasible alternative(s) considered, expected cost, data (e.g. IDEVs and RAWD), and maps and one-line diagrams
 - Analysis of rejected alternatives, including cost estimates, and other factors
 - Desired/Needed in-service date, and feasible in-service date if different
 - Sub-synchronous Resonance (SSR) impact of the proposed project to the generation facilities in the system (*Protocol Section 3.22.1.3 Transmission Project Assessment*)
 - Any other information that the submitting party believes is relevant to the need for any submitted project

Key Items to be Included in RPG Project Submittal

- ❑ The following elements should be described in an RPG submittal in accordance with the NERC reliability standards **FAC-002-2** (Facility Interconnection Studies), **TPL-001-4** (Transmission System Planning Performance Requirements), **Protocol 3.11.2** (Planning Criteria), and **Planning Guide Section 4** (Transmission Planning Criteria)
 - Steady-state, dynamic and short-circuit studies
 - If any of these studies are deemed unnecessary, please state the reasoning in the submittal
 - Contingencies
 - If testing any of the contingency categories in NERC TPL-001-4 or Planning Guide Section 4 are deemed unnecessary, please state the reasoning in the submittal

Questions or Comments?



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Appendix

NERC FAC-002-2 FAC-002-2 — Facility Interconnection Studies

- 1.3. Steady-state, short-circuit, and dynamics studies, as necessary, to evaluate system performance under both normal and contingency conditions; and

Protocol Section 3.11

3.11.2 *Planning Criteria*

- (1) ERCOT and Transmission Service Providers (TSPs) shall evaluate the need for transmission system improvements and shall evaluate the relative value of alternative improvements based on established technical and economic criteria.
- (2) The technical reliability criteria are established by the Planning Guide, Operating Guides, and the North American Electric Reliability Corporation (NERC) Reliability Standards. ERCOT and TSPs shall strongly endeavor to meet these criteria, identify current and future violations thereof and initiate solutions necessary to ensure continual compliance.

Planning Guide Section 4.1

4 TRANSMISSION PLANNING CRITERIA

4.1 Introduction

- (6) Each Transmission Service Provider (TSP) will perform steady-state, short circuit, and dynamic analyses appropriate to ensure the reliability of its portion of the ERCOT System and implement appropriate solutions to meet the reliability performance criteria in this Section 4.1.