

PRC-024-3 – Summary of Key Changes

Project 2018-04 Modifications to PRC-024-2

Momentary Cessation

- Requirements R1 and R2 modified to specify that a generating resource may neither trip NOR enter momentary cessation inside the No Trip Zone

No Trip Zone

- To clarify confusion regarding tripping or entering momentary cessation *outside* the No Trip Zone, the area outside the boundary is now labeled as a “May Trip Zone”

Applicability Section

- Facilities Section added that explicitly lists protective functions for specific equipment
 - Plant Auxiliary Equipment is not included as an applicable facility
 - Specifies that voltage and frequency protection should be applied to both generator step-up (GSU) and collector transformers
 - Addresses a potential reliability gap identified by the standard drafting team
 - Some Transmission Owners (TOs) own GSU or collector transformers, yet are not currently in scope PRC-024

Inclusion of Some TOs as Functional Entities¹

- *Not all TOs are applicable*
- Only those specific TOs that own a GSU or collector transformer and apply protection listed in the facilities section are now in scope of PRC-024

Point of Interconnection (POI)

- To address ambiguity concerns, removed the term altogether and replaced with precise language for this standard:

¹ Requirements R1 and R2 in the currently enforceable PRC-024-2 standard, via footnotes 2 and 4, include all frequency and voltage protective relays from the individual generating resource to the high side of the main power transformer for dispersed power producing resources. There was also an identified potential reliability gap when frequency and voltage protection, specifically volts per hertz, are applied to conventional generator GSUs. To alleviate this potential reliability gap, and to achieve parity for all resources, the SDT added a facilities section to specify the facilities that are subject to the Standard, if those facilities have frequency and voltage protection enabled. The facilities section now clarifies that the GSU or collector transformer is an applicable facility.

- “at the high side of the GSU or collector transformer”

Figures and Tables

- Clarified areas of confusion as specified by the Standard Authorization Request
- General “clean up” work throughout

Variance – Quebec Interconnection

- Variance to Requirement R2 with more stringent under/over voltage boundaries