Unofficial Comment Form

Project 2010-13.2 Generator Relay Loadability  
(PRC-025-1)

Please **DO NOT** use this form for submitting comments. Please use the [electronic form](https://www.nerc.net/nercsurvey/Survey.aspx?s=4afa3bbd0d61422681c6758547f9fb5e) to submit comments on the Standard. The electronic comment form must be completed by 8 p.m. ET **November 5, 2012**. If you have questions please contact Scott Barfield-McGinnis at [Scott.Barfield@nerc.net](mailto:Scott.Barfield@nerc.net) or by telephone at (404) 446-9689. [Project Webpage](http://www.nerc.com/filez/standards/Project_2010-13.2_Summary_Table.html)

# Background Information

This posting is soliciting formal comments in a 30-day comment period.

The Standard Authorization Request (SAR) for this project was initiated on August 5, 2010 and approved by the Standards Committee (SC) on August 12, 2010. It established the scope of work for Project 2010-13.2 for what is the second phase of Order 733, Transmission Relay Loadability Reliability Standard.[[1]](#footnote-1) Phase I resulted in the NERC Reliability Standard PRC-023-1, and Phase II concerning this project specifically addresses generator step-up and auxiliary transformers in the proposed new standard, PRC-025-1. The SC moved this project into active development on March 8, 2012.

During analysis of many of the major disturbances in the last 25 years on the North American interconnected power system, generators have been found to have tripped for conditions that did not apparently pose a direct risk to those generators and associated equipment within the time period where the tripping occurred. This unnecessary tripping has often been evaluated to have extended the scope and/or duration of that disturbance. This was noted, in detail, to be a serious issue in the August 2003 “blackout’ in the northeastern North American continent.

During the recoverable phase of a disturbance, the disturbance may exhibit a “voltage disturbance” behavior pattern, where system voltage is widely depressed. In order to support the system during this phase of a disturbance, this standard establishes criteria for setting load-responsive relays such that individual generators may provide Reactive Power within their dynamic capability during transient time periods to help the system recover from that voltage disturbance.

Premature or unnecessary tripping of generators during this period can deepen the severity of the voltage disturbance due to removal of dynamic Reactive Power, and change the character of the disturbance such that it is less recoverable.

The Standard Drafting Team has developed an initial draft of a standard to provide requirements that address these concerns, and is presenting this draft to industry for a formal comment period to get industry comments to aid in further development.

*\*Please use the* [*electronic comment form*](https://www.nerc.net/nercsurvey/Survey.aspx?s=4afa3bbd0d61422681c6758547f9fb5e) *to submit your final comments to NERC.*

**You do not have to answer all questions. Enter All Comments in Simple Text Format.**

Bullets, numbers, and special formatting will not be retained. Insert a “check” mark in the appropriate boxes by double-clicking the gray areas.

1. Is the performance of **Requirement R1 (and Measure M1)** clear that the Generator Owner must determine and install settings on its load-responsive protective relays in accordance with PRC-025-1 – Attachment 1: Relay Settings? If not, provide specific suggestions to improve or clarify the performance.

Yes

No

Comments:

1. In response to FERC Order No. 733, paragraph 102, does the **Technical Basis and Guidelines** provide adequate rationale for the criteria in PRC-025-1 – Attachment 1: Relay Settings? If not, provide additional detail that would improve the rationale for setting load responsive protective relays.

Yes

No

Comments:

1. Does PRC-025-1, Attachment 1: Relay Settings, **Table 1** clearly identify the criteria for setting load responsive protective relay types for each Option 1 through 17? If not, provide specific detail that would improve the clarity of Table 1.

Yes

No

Comments:

1. Do you agree an **Implementation Plan** of 48-months to install load-responsive protective relay settings is achievable? If not, provide an alternative with specific rationale for such an alternative period.

Yes

No

Comments:

1. Do you have any other comments? If so, please provide suggested changes and rationale.

Yes

No

Comments:

1. Transmission Relay Loadability Reliability Standard, Order No. 733, 130 FERC ¶ 61,221 (2010), Paragraphs 104, 105, 106, and 108. [↑](#footnote-ref-1)