Unofficial Comment Form

Project 2007-06 System Protection Coordination

PRC-027-1 (Draft 5)

**DO NOT** use this form for submitting comments. Use the [electronic form](https://sbs.nerc.net/) to submit comments on draft 5 of **PRC-027-1 – Coordination of Protection System Performance During Faults**. The form must be completed and submitted by **8 p.m. Eastern, Friday, May 15, 2015.**

If you have questions, contact Standards Developer, [Al McMeekin](mailto:Al.McMeekin@nerc.net), (via email) or at (404) 446-9675.

The project page may be accessed by clicking [here](http://www.nerc.com/pa/Stand/Pages/Project-2007-06-System-Protection-Coordination.aspx).

## Background Information

The System Protection Coordination Standard Drafting Team (SPCSDT) created a new results-based standard, PRC-027-1, with the stated purpose: “*To maintain the coordination of Protection Systems installed for the purpose of detecting Faults on BES Elements and isolating those faulted Elements, such that the Protection Systems operate in the intended sequence during Faults.*” Draft 4 of PRC-027-1 was posted for comment and ballot from 11/4/13 - 12/31/13. Following the posting, FERC staff from the Office of Electric Reliability raised concerns regarding the posted draft. The primary concern was that the proposed standard did not address the coordination of Protection Systems within a Transmission Owner’s footprint, referred to as “internal” or “intra-entity” Protection Systems. Following discussions with NERC and FERC staff, the SPCSDT prepared a preliminary draft 5 of PRC-027-1 and sought stakeholder input on the conceptual standard during a 21-day informal comment period. Based on stakeholder comments received during the informal comment period, the drafting team modified the proposed standard.

Draft 5 of PRC-027-1 modifies the applicability of the standard to include “*Protection Systems installed for the purpose of detecting Faults on BES Elements and isolating those faulted Elements*,” whereas, prior drafts of the standard limited the applicability to “*Protection Systems installed for the purpose of detecting Faults on Interconnecting Elements.*” With this change to the applicability, the coordination of Protection Systems for all “internal” or “intra-entity” connections between BES Elements are addressed. PRC-027-1 clarifies the coordination aspects and incorporates the reliability objectives of Requirements R3 and R4 from PRC-001-1.1(ii); therefore, the SPCSDT is proposing the retirement of those Requirements from PRC-001-1.1(ii). The SPCSDT has included a redlined version of PRC-001-1.1(ii) and a clean PRC-001-3. PRC-001-3 contains the remaining Requirements R1, R2, R5, and R6 as well as updated pro forma language for the “Effective Date” and “Compliance” sections of the standard.

Draft 5 of PRC-027-1 consists of two proposed requirements.

Requirement R1 mandates that entities establish a process to develop settings for its BES Protection Systems to operate in the intended sequence during Faults; and stipulates certain attributes that must be included in the process. Because entities’ Protection System designs and philosophies vary greatly, the drafting team has included flexibility in developing the coordination processes.

Requirement R2 mandates that entities implement the process established in accordance with Requirement R1. The drafting team asserts that implementing each of the elements of the process will facilitate a consistent approach in the development of accurate Protection System settings, minimize the possibility of introducing errors, and maximize the likelihood of maintaining a coordinated Protection System.

The Project 2007-06 System Protection Coordination Standard Drafting Team (SPCSDT) is posting draft 5 of Reliability Standard PRC-027-1 “Protection System Coordination for Performance During Faults” for comment from April 1, 2015 to May 15, 2015.

**Questions:**

1. Do you agree that Parts 1.1 through 1.5 of Requirement R1 are the essential elements of a successful coordination process? Are there others that should be included? If not, please provide the basis for your disagreement and any proposed revisions or additions.

Yes

No

Comments:

1. Do you agree with the proposed Measures? If not, please provide the basis for your disagreement and your proposed revisions.

Yes

No

Comments:

1. Do you agree with the proposed Implementation Plan? If not, please provide the basis for your disagreement and your proposed revisions.

Yes

No

Comments:

1. If you have any other comments that you haven’t already provided in response to the above questions, please provide them here.

Comments: