Standard Development Roadmap

This section is maintained by the drafting team during the development of the standard and will be removed when the standard becomes effective.

Development Steps Completed:

- 1. Draft 1 of SAR posted for comment June 11, 2007 July 10, 2007.
- 2. SAR approved on August 13, 2007.
- 3. First posting of revised standard PRC-001-2 on September 11, 2009
- <u>4. PRC-001-2 was approved by the NERC</u> <u>Board of Trustees on May 9, 2012.</u> <u>The legacy Requirements R2, R5, and R6 of</u>
- <u>PRC-001-1 were retired</u>. Transitioned from a revisio to development of PRC-027-1 based on industry comments, quality review feedback, and consideration of FERC directives relative to the existing requirements of PRC-001-1.

Note: The Project 2007-03 Real-time Operations SDT recently proposed revisions to PRC-001-1. A redlined version of PRC-001-1 was posted with the three operating time frames (Requirements R2, R5, and R6) deleted. The resulting clean version of PRC-001-2, containing the remaining three legacy Requirements R1, R3, and R4 of PRC-001-1, was also posted. The Project 2007-06 System Protection Coordination SDT is recommending retirement of the legacy Requirements R3 and R4 of PRC-001-1 that remain in PRC-001-2 (now R2 and R3) because those requirements address Protection System coordination issues included in PRC-027-1. This redlined version shows the changes proposed to PRC-001-2. A mapping document is also posted showing the disposition of those legacy requirements of PRC-001-1 to the proposed requirements of PRC-027-1. The ballot of PRC-001-3 is associated with the approval of PRC-027-1 and the implementation plan for this project.

Proposed Action Plan and Description of Current Draft:

The Project 2007-06 System Protection Coordination SDT is recommending retirement of the legacy Requirements R2 and R3 of PRC-001-2 because those requirements address Protection System coordination issues included in the new Reliability Standard PRC-027-1. This redlined version of PRC-001-2 shows the proposed changes. The SPC SDT is posting PRC-001-3 and PRC-027-1 for stakeholder comments under a 30-day formal comment period. The ballot of PRC-001-3 is associated with the approval of PRC-027-1 and the implementation plan for this project.

The SPC SDT created a new results based standard PRC 027-1 to coordinate Protection Systems utilized to protect interconnected Facilities, such that those Protection Systems remove from service only those Elements required to isolate Faults, while meeting the system performance specified within requirements established in other approved NERC Reliability Standards. This standard incorporates and enhances the coordination aspects of Requirements R3 and R4 from PRC 001-1. The SPC SDT is requesting a posting for stakeholder comments under a 30 day formal comment period.

Future Development Plan:

Anticipated Actions	Anticipated Date
30-day Formal Comment Period with Parallel Successive Ballot	November 2012

Recirculation Ballot	January 2013
Anticipated Actions	Anticipated Date
1. Post for successive ballot.	3Q12
2. Post for recirculation ballot.	1Q13
3. Submit to BOT.	1Q13

Definitions of Terms Used in Standard

This section includes all newly defined or revised terms used in the proposed standard. Terms already defined in the Reliability Standards Glossary of Terms are not repeated here. New or revised definitions listed below become approved when the proposed standard is approved. When the standard becomes effective, these defined terms will be removed from the individual standard and added to the glossary.

There are no new or revised definitions proposed in this standard revision.

A. Introduction

- 1. Title: System Protection Coordination
- **2. Number:** PRC-001-**2**<u>3</u>
- 3. Purpose:

To ensure system protection is coordinated among operating entities.

4. Applicability

- **4.1.** Balancing Authorities
- **4.2.** Transmission Operators
- 4.3. Generator Operators
- 5. Effective Date: All requirements become effective the first day of the first calendar quarter twelve months following applicable regulatory approval. In those jurisdictions where no regulatory approval is not required, the requirements standard shall become effective on the first day of the first calendar quarter quarter that is twelve months following beyond the date this standard is approved by the NERC Board of Trustees, or as otherwise made effective pursuant to the laws applicable to such ERO governmental authorities. adoption.

B. Requirements

- **R1.** Each Transmission Operator, Balancing Authority, and Generator Operator shall be familiar with the purpose and limitations of protection system schemes applied in its area. [Violation Risk factor: High][Time Horizon: Operations Planning, Same-day Operations, Real-time Operations]
- **R2.** A Generator Operator or Transmission Operator shall coordinate new protective systems and changes as follows.
 - **R2.1.** Each Generator Operator shall coordinate all new protective systems and all protective system changes with its Transmission Operator and Host Balancing Authority. [Violation Risk Factor: High][Time Horizon: Operations Planning, Same day Operations, Real time Operations]
 - R2.2. Each Transmission Operator shall coordinate all new protective systems and all protective system changes with neighboring Transmission Operators and Balancing Authorities. [Violation Risk Factor: High]][Time Horizon: Operations Planning, Same day Operations, Real time Operations]
- R3. Each Transmission Operator shall coordinate protection systems on major transmission lines and interconnections with neighboring Generator Operators, Transmission Operators, and Balancing Authorities. [Violation Risk Factor: High]][Time Horizon: Operations Planning, Same-day Operations, Real-time Operations]

C. Measures

M1. Each Generator Operator and Transmission Operator shall have and provide upon request evidence that could include but is not limited to, revised fault analysis study, letters of agreement on settings, notifications of changes, or other equivalent evidence that will be used to confirm that there was coordination of new protective systems or changes as noted in Requirements 2, 2.1, and 2.2.

D. Compliance

1. Compliance Monitoring Process

Updated to add latest default language.

1.1. Compliance Enforcement Authority

The Regional Entity shall be responsible for compliance monitoring. <u>serve as the</u> Compliance enforcement authority unless the applicable entity is owned, operated, or controlled by the Regional Entity. In such cases the ERO or a Regional entity approved by FERC or other applicable governmental authority shall serve as the CEA.

1.2. Compliance Monitoring and Reset Time Frame

One or more of the following methods will be used to assess compliance:

- Self-certification (Conducted annually with submission according to schedule.)
- Spot Check Audits (Conducted anytime with up to 30 days notice given to prepare.)
- Periodic Audit (Conducted once every three years according to schedule.)
- Triggered Investigations (Notification of an investigation must be made within 60 days of an event or complaint of noncompliance. The entity will have up to 30 days to prepare for the investigation. An entity may request an extension of the preparation period, and the extension will be considered by the Compliance Monitor on a case by case basis.)

The Performance-Reset Period shall be 12 months from the last finding of noncompliance.

<u>1.3.1.2.</u> Data Retention

The following evidence retention periods identify the period of time an entity is required to retain specific evidence to demonstrate compliance. For instances where the evidence retention period specified below is shorter than the time since the last audit, the Compliance Enforcement Authority may ask an entity to provide other evidence to show that it was compliant for the full time

period since the last audit.

Each Generator Operator and Transmission Operator shall have Updated to add a time retention period for the remaining requirement.

current, in force documents available as evidence of compliance for Measure 1.

Each responsible entity shall keep evidence to demonstrate compliance with Requirement R1 for the previous three calendar years.

If an entity is found non-compliant, the entity shall keep information related to the noncompliance <u>until mitigation is complete and approveduntil found compliant</u>, or for two years plus the current year<u>the time period specified above</u>, whichever is longer.

Evidence used as part of a triggered investigation shall be retained by the entity being investigated for one year from the date that the investigation is closed, as determined by the Compliance Monitor,

The Compliance <u>Monitor Enforcement Authority</u> shall keep the last periodic audit report and all requested and submitted subsequent compliance records.

1.4.1.3. Compliance Monitoring and Assessment Processes

One or more of the following methods will be used to assess compliance:

- Compliance Audit
- ____Self-certification
- (Conducted annually with submission according to schedule.)
- <u>-</u> Spot Checking Audits (Conducted anytime with up to 30 days notice given to prepare.)
- Compliance Investigation
- Self-Reporting
- Complaint
- ____

- Periodic Audit (Conducted once every three years according to schedule.)

Triggered Investigations (Notification of an investigation must be made within 60 days of an event or complaint of noncompliance. The entity will have up to 30 days to prepare for the investigation. An entity may request an extension of the preparation period, and the extension will be considered by the Compliance Monitor on a case by case basis.)

<u>1.5.1.4.</u> Additional Compliance Information

None.

2. Violation Severity Levels

Requirement #	VRF	Time Horizon	Lower	Moderate	High	Severe
R1	High	Operations Planning, Same-day Operations, Real- time Operations	N/A	N/A	The responsible entity failed to be familiar with the limitations of protection system schemes applied in its area.	The responsible entity failed to be familiar with the purpose of protection system schemes applied in its area.
R2	N/A	N/A	N/A	N/A	N/A	N/A
R2.1	High	Operations Planning, Same-day Operations, Real- time Operations	The Generator Operator failed to coordinate one new protective system or protective system change with either its Transmission Operator or its Host Balancing Authority or both.	The Generator Operator failed to coordinate two new protective systems or protective system changes with either its Transmission Operator or its Host Balancing Authority, or both.	The Generator Operator failed to coordinate three new protective systems or protective system changes with either its Transmission Operator or its Host Balancing Authority, or both.	The Generator Operator failed to coordinate more than three new protective systems or protective system changes with its Transmission Operator or its Host Balancing Authority, or both.
R2.2	High	Operations Planning, Same-day Operations, Real- time Operations	The Transmission Operator failed to coordinate one new protective system or protective system change with neighboring	The Transmission Operator failed to coordinate two new protective systems or protective system changes with neighboring	The Transmission Operator failed to coordinate three new protective systems or protective system changes with	The Transmission Operator failed to coordinate more than three new protective systems or protective system changes

			Transmission Operators or Balancing Authorities or both.	Transmission Operators or Balancing Authorities or both.	neighboring Transmission Operators or Balancing Authorities or both.	with neighboring Transmission Operators or Balancing Authorities or both.
R3	High	Operations Planning, Same day Operations, Real- time Operations	The TransmissionOperator failed tocoordinateprotection systemson majortransmission linesandinterconnectionswith one of itsneighboringGeneratorOperators,TransmissionOperators, orBalancingAuthorities.	The TransmissionOperator failed tocoordinateprotection systemson majortransmission linesandinterconnectionswith two of itsneighboringGeneratorOperators,TransmissionOperators, orBalancingAuthorities.	The TransmissionOperator failed tocoordinateprotection systemson majortransmission linesandinterconnectionswith three of itsneighboringGeneratorOperators,TransmissionOperators, orBalancingAuthorities.	The TransmissionOperator failed tocoordinateprotection systemson majortransmission linesandinterconnectionswith three or moreof its neighboringGeneratorOperators,TransmissionOperators, andBalancingAuthorities.

E. Regional Differences

None identified.

Version History

Version	Date	Action	Change Tracking
0	April 1, 2005	Effective Date	New
0	August 8, 2005	Removed "Proposed" from Effective Date	Errata
0	August 25, 2005	Fixed Standard number in Introduction from PRC-001-1 to PRC-001-0	Errata
1	November 1, 2006	Adopted by Board of Trustees	Revised
2	May 9, 2012	Delete data Requirements R2, R5, and R6, as they are now addressed in TOP-003-2.	Revised
<u>3</u>	<u>May 9, 2012</u>	Adopted by Board of Trustees	Revised
<u>4</u>	TBD	Delete Requirements R2 and R3, as they are now addressed in PRC-027-1.	Revised