

Proposed Definitions

Project 2007-06.2 Phase 2 of System Protection Coordination

Introduction

The following definitions are proposed for revision under the Project 2007-06.2 – Phase 2 of System Protection Coordination. The definitions of Operational Planning Analysis (OPA) and Real-time Assessment (RTA) are used in the Transmission Operations and Interconnection Reliability Operations and Coordination (TOP/IRO) sets of Reliability Standards.¹ To address the reliability objective PRC-001-1.1(ii) – Protection System Coordination, Requirement R1 to be familiar with the limits of Protection System schemes, the two definitions are being modified to include the phrase “...functions, and limits...” to ensure the Transmission Operator (TOP), and Reliability Coordinator (RC) that is not applicable to PRC-001-1.1(ii), consider the functions and limits of Protection Systems and Remedial Action Schemes in their evaluations. The reliability objective is addressed by revising the definitions to require the RC and the TOP to integrate the functions and limits (i.e., purpose and limitations) into its OPA and RTA to ensure that the Bulk Electric System is operated within System Operating Limits and Interconnection Reliability Operating Limits.

Proposed Definitions

This section includes the two modified terms used in the Reliability Standards and requirements below that will be included in the *Glossary of Terms Used in NERC Reliability Standards* upon applicable regulatory approval. Terms that are not being modified can be found in the *Glossary of Terms Used in NERC Reliability Standards*. The new or revised terms listed below will be presented for approval with the proposed standard PER-006-1 – Specific Training for Personnel in order to completely retire PRC-001-1.1(ii).

Term(s):

These two terms are not found within the proposed PER-006-1 standard, but are an integral part of the basis for the retirement of PRC-001-1.1(ii), Requirement R1. There are two significant revisions.

1. An administrative update to replace “Special Protection System” to “Remedial Action Scheme.”
2. The addition of the phrase “...functions, and limits...” to address the reliability objective of PRC-001-1.1(ii), Requirement R1 for the applicable TOP that must integrate the “functions and limits” into these evaluations. The proposed definition revision also has an effect on the RC that is not applicable to PRC-001-1.1(ii). The bold text in the definitions below accentuate the proposed revisions.

¹ Transmission Operations Reliability Standards and Interconnection Reliability Operations and Coordination Reliability Standards, Order No. 817, 153 FERC ¶ 61,178 (2015).

Operational Planning Analysis (OPA)

An evaluation of projected system conditions to assess anticipated (pre-Contingency) and potential (post-Contingency) conditions for next-day operations. The evaluation shall reflect applicable inputs including, but not limited to: load forecasts; generation output levels; Interchange; known Protection System and **Remedial Action Scheme** status or degradation, **functions, and limits**; Transmission outages; generator outages; Facility Ratings; and identified phase angle and equipment limitations. (Operational Planning Analysis may be provided through internal systems or through third-party services.)

Real-time Assessment (RTA)

An evaluation of system conditions using Real-time data to assess existing (pre-Contingency) and potential (post-Contingency) operating conditions. The assessment shall reflect applicable inputs including, but not limited to: load; generation output levels; known Protection System and **Remedial Action Scheme** status or degradation, **functions, and limits**; Transmission outages; generator outages; Interchange; Facility Ratings; and identified phase angle and equipment limitations. (Real-time Assessment may be provided through internal systems or through third-party services.)