

## Implementation Plan for PER-005-1 – System Personnel Training

### Prerequisite Approvals

There are no other reliability standards or Standard Authorization Requests (SARs), in progress or approved, that must be implemented before this standard can be implemented.

### Modified Standards

PER-002-0 should be retired when PER-005-0 becomes effective.

PER-004-1 Requirements 2, 3 and 4 should be retired when PER-005-1 becomes effective.

The following tables summarize the mapping of the PER-004-1 requirements to PER-005-1 and other standard requirements:

PER-004-1 Requirement	PER-005-1 Requirements
R2. All Reliability Coordinator operating personnel shall each complete a minimum of five days per year of training and drills using realistic simulations of system emergencies, in addition to other training required to maintain qualified operating personnel.	R3. At least every 12 months, each Reliability Coordinator, Balancing Authority and Transmission Operator shall provide each System Operator with at least 32 hours months of emergency operations training applicable to its organization that reflect emergency operations topics (which includes system restoration) using training, drills, exercises and hands on training using simulators.  PER-005-1 R3 includes PER-004-1 R2 and therefore PER-004-1 R2 should be retired. (Note that the five days per year of training has been clarified to mean 32 hours of training.)
R3. Reliability Coordinator operating personnel shall have a comprehensive understanding of the Reliability Coordinator Area and interactions with neighboring Reliability Coordinator Areas.	R1. Each Reliability Coordinator, Balancing Authority and Transmission Operator shall complete a systematic approach to training to establish a new or modify an existing training program(s) for the Bulk Electric System (BES) company-specific reliability-related tasks performed by its System Operators.  R2. Each Reliability Coordinator, Balancing Authority and Transmission Operator shall verify each System Operator’s capability to perform each task identified in R1.1 at least one time.  The training program (PER-005-1 R1) and an assessment of each System Operator’s capabilities (PER-005-1 R2) duplicate PER-004-1 R3 and therefore PER-004-1 R3 should be retired.
R4. Reliability Coordinator operating personnel shall have an extensive understanding of the Balancing Authorities, Transmission Operators, and Generation Operators within the Reliability Coordinator Area, including the operating staff, operating practices and procedures, restoration priorities and objectives, outage plans, equipment capabilities, and operational restrictions.	R1. Each Reliability Coordinator, Balancing Authority and Transmission Operator shall complete a systematic approach to training to establish a new or modify an existing training program(s) for the Bulk Electric System (BES) company-specific reliability-related tasks performed by its System Operators.  R2. Each Reliability Coordinator, Balancing Authority and Transmission Operator shall verify each System Operator’s capability to perform each task identified in R1.1 at least

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PER-004-1 Requirement	PER-005-1 Requirements
	one time. The training program (PER-005-1 R1) and an assessment of each System Operator’s capabilities (PER-005-1 R3) duplicate PER-004-1 R4 and therefore PER-004-1 R4 should be removed.

Red-line versions of PER-002-0 and PER-004-1 are posted with this Implementation Plan.

**Compliance with Standards**

Once this standard becomes effective, the responsible entities identified in the applicability section of the standard must comply with the requirements. These include:

- Reliability Coordinators
- Balancing Authorities
- Transmission Operators

**Proposed Effective Date**

Compliance with PER-005 shall be implemented over a three-year period, as follows:

- Requirement 1, Requirement 2, and Requirement 3 shall become effective 36 months after the first day of the first quarter following regulatory approval or, in those jurisdictions where regulatory approval is not required, the Reliability Standard otherwise becomes effective 36 months after the first day of the first quarter after Board of Trustee adoption.