



NORTHEAST POWER COORDINATING COUNCIL, INC.
1040 AVE. OF THE AMERICAS, NEW YORK, NY 10018 (212) 840-1070 FAX (212) 302-2782

August 8th, 2017

Subject: TFSP Criteria Clarification---NPCC Directory#4 *System Protection Criteria*.

NPCC Full Member Representatives and Alternates:

In accordance with the NPCC *Directory Development and Revision Manual* the Task Force on System Protection (TFSP) has considered a *Request for Criteria Clarification* and has provided the attached response.

The TFSP clarification provides guidance relating to the installation of trip coil monitoring devices and the language of the criteria as contained in Section 5.12.3 of the Directory.

Comments on this clarification will be received for forty- five days through September 22nd, 2017.

The NPCC Open Process can be accessed through the following link:

<https://www.npcc.org/Standards/SitePages/NonStandardsList.aspx>

In accordance with the Directory Manual and subsequent to the TFSP consideration of comments, the final Clarification will be presented to the Reliability Coordinating Committee (RCC) for approval.

Please contact me with any questions regarding Directory content or comment procedures.

Thank you.

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NPCC Request for Criteria Clarification

Note: a Clarification cannot be used to revise the Criteria within a Directory.

Request for a Clarification of Criteria
Date submitted: August 8, 2017 Date revised version submitted:
Contact information for person requesting the clarification:
Name: John Babu
Organization: Eversource Energy
Telephone: 860-665-2448
E-mail: john.babu@eversource.com
Identify the Directory that contains the Criteria requiring clarification:
Directory Number : Directory 4
Directory Title: Bulk Power System Protection Criteria
Identify specifically what portion of the Criteria needs clarification:
Text of Requirement: Section 5.12.3 Wiring for separate protection groups and teleprotections protecting the same system element shall not be in the same cable or terminated in the same panel. The sole exception is cable termination on single non-redundant breaker failure panels.

Identify the material impact associated with the lack of clarity:

Identify the material impact to your organization or others caused by the lack of clarity or an incorrect interpretation of this Directory:

The proposed Eversource Eastern Mass Trip Coil Monitoring design implements separate A and B monitoring devices located in the same panel as the single non-redundant breaker failure.

Separating the Trip Coil Monitoring devices would require a modification to standard designs.

Task Force Response to Request for Criteria Clarification:
Criteria Clarification
Directory #4 for Eversource

The following clarification of the criteria in Directory#4 System Protection Criteria was developed by the Task Force on System Protection (TFSP).

Directory #4 Text of Requirement

Section 5.12.3 Wiring for separate protection groups and teleprotections protecting the same system element shall not be in the same cable or terminated in the same panel. The sole exception is cable termination on single non-redundant breaker failure panels.

Question 1

Is the installation of separate Trip Coil Monitoring devices in the same panel that also houses the non-redundant breaker failure protection acceptable, under the exception stated in requirement 5.12.3?

TFSP Response to Question 1

The trip coil is a part of the protection system and its monitoring must be separated on non-adjacent panels.

The TFSP will initiate a Directory#4 review at the September 2017 meeting to clarify the separation requirement for the trip coil monitoring system.

Due to the lack of clarity on this issue in the current version of Directory#4, the TFSP will accept existing designs until the criteria is clarified on the implementation of separate trip coil monitoring devices within the non-redundant breaker failure panel.

The TFSP encourages future designs to implement trip coil monitoring separation similar to System 1 and System 2 protection separation as outlined throughout Directory#4.

Until the criteria is revised, a proposed project that does not implement trip coil monitoring separation similar to System 1 and System 2 protection, the TFSP will expect an Exception request to this part of the requirement in Directory#4.