

As presented at the 2/16/17 DEDSTF Meeting, please see below for two versions of Section 1 of the DEDSTF Protection Subgroup Requirements.

“A” is as proposed by the DEDSTF Protection Subgroup

“B” is suggested wording proposed by PJM

A - DEDSTF Protection Subgroup wording:

1. System Protection Engineering and Design Requirements for Facilities that Interconnect to Existing Incumbent Transmission Owners

For Transmission Circuits and other facilities with protective zones that are shared with existing incumbent Transmission Owners (i.e., facilities that represent ties between existing substations owned by incumbent Transmission Owners and Competitive Substation Facilities, etc.), the incumbent Transmission Owner will determine the design requirements for system protection, metering, and controls that are specific to that facility. The Designated Entity must coordinate with the neighboring transmission owner(s) to develop the protection system design following the interconnecting transmission owner's applicable standards, or other mutually agreed to solution for the following items:

- Line relay scheme (DCB, POTT, current diff, etc.)
- Line relay types/models
- Line protection communication media (Fiber, Power Line Carrier, etc.)
- Line protection communication scheme requirements – number of channels, channel types (POTT,DCB, DTT, etc.), and channel performance requirements
- Design must allow protection system maintenance to be performed without taking any primary element out of service (e.g., line, transformer, bus).
- Reclosing method (HBDL, sync check, etc.) and associated timing must be coordinated with the local TO.
- Breaker failure timing must be coordinated per NERC Standard PRC-001.

B - PJM suggested wording:

1. System Protection Engineering and Design Requirements for Facilities that Interconnect to Existing Transmission Owners

For transmission circuits and other facilities with protective zones that are shared with existing Transmission Owners, the Designated Entity must coordinate with the Transmission Owner(s) to develop the protection system design that is compatible with the Transmission Owner's existing protection system and does not degrade the performance of that system. Such coordination may include, but is not limited to, the following design elements:

- Line relay scheme (DCB, POTT, current diff, etc.)
- Line relay types/models
- Line protection communication media (Fiber, Power Line Carrier, etc.)

- Line protection communication scheme requirements – number of channels, channel types (POTT,DCB, DTT, etc.), and channel performance requirements
- Design must allow protection system maintenance to be performed without taking any primary element out of service (e.g., line, transformer, bus).
- Reclosing method (HBDL, sync check, etc.) and associated timing must be coordinated with the local TO.
- Breaker failure timing must be coordinated per NERC Standard PRC-001.