

Text to add to the PJM SGIWG Standard for generators 2-10 MW

In its present form IEEE Standard 1547 is primarily intended to address generator interconnections of 10 MW or less to radial distribution systems. In order to extend the use of IEEE Standard 1547 beyond this scope to include connection to transmission¹ facilities it is necessary to clarify the meaning of section 4.2.1 to assure that system protection requirements are compatible with the reliability criteria** generally used for those systems.

IEEE Standard 1547 Section 4.2.1 (Area EPS Faults) requires that “The DR unit shall cease to energize the Area EPS for faults on the Area EPS circuit to which it is connected”

Clarification for transmission¹ system interconnections:

This requires that the protection be compatible with TO protection used for the line or substation to which it is interconnected.

¹ In the context used above transmission systems are 69 kV or greater, or networked 34.5 kV which is used as a backbone delivery systems within smaller geographic areas much the same as most 69 kV systems.