

PRC-023 – Attachment B

Criteria

Review each circuit (line and transformer) less than 200 kV needs against the following criteria to determine if that circuit needs to be evaluated for conformance with PRC-023. If any of the criteria apply to a circuit, the circuit needs to be evaluated.

1. Each circuit that is a monitored element of a flowgate in the Eastern Interconnection, Commercially Significant Constraint¹ in the Texas Interconnection, or rated path in the Western Interconnection.
2. Each circuit that is a monitored element of an IROL.
3. Each circuit that are directly related to off-site power supply to nuclear plants.
4. Each circuit whose outage causes unacceptable voltages (pursuant to plant license design specifications) on the off-site power bus at a nuclear plant, regardless of its proximity to the plant.
5. Each circuit agreed to by the Reliability Coordinator, the Planning Coordinator, and Regional Entity.

Note – This criterion allows the Reliability Coordinator, Planning Coordinator and Regional Entity additional latitude in designating other circuits that should be tested for conformance to the relay loadability criteria.

6. Each circuit operated between 100 kV and 200 kV that exceeds its Short Term Emergency Rating by 15 percent or more as a result of a double contingency (for those combinations selected by engineering judgment in TPL-003 System Performance Following Loss of Two or More BES Elements analyses) beyond the requirements of the TPL-003 standard, i.e., loss of a single circuit, followed by loss of a second circuit, without system adjustments in between.

Note – This Modified TPL C3 contingency reflects a situation where a System Operator may not have time between two contingencies to make appropriate system adjustments.

¹ In the ERCOT Zonal Protocols (effective through November 30, 2010):

Commercially Significant Constraint (CSC): A constraint in the ERCOT Transmission Grid that is found, through the process described in Section 7, to result in Congestion which limits the free flow of energy within the ERCOT market to a commercially significant degree. The reference to Section 7 is to the ERCOT Zonal Protocols.