

Category	Contingency events Simulate the removal of all elements that protection systems, including Special Protection Systems, are expected to automatically disconnect for each event that involves an AC fault.	Fault type (permanent) and/or condition applied On the listed elements where applicable	Performance to be assessed
Extreme System Conditions	Contingency events listed in Table 1, Category 1, Single Event	Peak load conditions resulting from extreme weather	i (b, c), ii, iii
		Generating unit(s) fuel shortage (e.g. gas supply adequacy or low hydro) under normal weather peak conditions	i (c), ii, iii

Performance Assessment

- i Model the following pre-contingency conditions
 - a transfers within or between Transmission Planner and Planning Coordinator Areas should be studied at values not expected to be exceeded more than 25% of the time
 - b highly probable dispatch patterns of generation for the transfers being studied
 - c appropriate load representation (e.g. active and reactive power as a function of voltage) for transient tests and post transient load flows
- ii Examine post contingency steady state conditions, as well as stability, overload, cascading outages and voltage collapse to obtain an indication of system robustness and determine the extent of any widespread system disturbance
- iii Where assessment concludes there are serious consequences, an evaluation of implementing a change to design or operating practices to address such contingencies shall be conducted

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