Proposed text for FAC-011-4 R5, R6, and R7:

**R5.** Each Reliability Coordinator shall identify in its SOL Methodology the following Contingency Events for 1) use in determining stability limits (to be determined in seasonal or other stability studies as needed, which are then used as SOLs in real-time), and 2) use in Operational Planning Analysis (OPAs) and Real‐time Assessments (RTAs) for the area under study. The SOL Methodology shall:

**5.1.** Specify the following single Contingency events for use in determining Stability Limits. These single Contingency events should also be used when performing OPAs and RTAs:

**5.1.1.** Loss of any of the following either by single phase to ground or three phase Fault (whichever is more severe) with Normal Clearing, or without a Fault:

* generator;
* transmission circuit;
* transformer;
	+ - * shunt device; or
			* single pole block, with Normal Clearing, in a monopolar or bipolar
			* high voltage direct current system.

**5.2.** Identify any additional single or multiple Contingency events or types of Contingency events.

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**5.3.** Describe the method(s) for identifying which, if any, of the Contingency events provided by the Planning Coordinator or Transmission Planner in accordance with FAC‐015‐1, Requirement R4, to use in determining stability limits.

**R6.** Each Reliability Coordinator shall include in its SOL Methodology, at a minimum, the following Bulk Electric System performance criteria:

**6.1.** The actual pre‐Contingency state (Real‐time monitoring and Real‐time Assessment) and anticipated pre‐Contingency state (Operational Planning Analysis) demonstrates the following:

**6.1.1.** Flow through Facilities are within Normal Ratings; however, Emergency Ratings may be used when System adjustments to return the flow within its Normal Rating could be expected to be executed and completed within the specified time duration of those Emergency Ratings based upon engineering judgment.

**6.1.2.** Voltages are within normal System Voltage Limits; however, emergency System Voltage Limits may be used when System adjustments to return the voltage within its normal System Voltage Limits could be executed and completed within the specified time duration of those emergency System Voltage Limits.

**6.1.3.** Widespread Instability, Cascading or uncontrolled separation do not occur as determine from the power flow studies (no dynamic studies are required).

**6.2.** The evaluation of single Contingencies listed in Part 5.1.1 against the actual pre‐Contingency state (Real‐time monitoring and Real‐time Assessments) and anticipated pre‐Contingency state (Operational Planning Analysis) demonstrates the following:

**6.2.1.** Flow through Facilities are within applicable Emergency Ratings, provided that System adjustments could be expected to be executed and completed within the specified time duration of those Emergency Ratings. Flow through a Facility must not be above the Facility’s highest Emergency Rating based upon engineering judgment.

**6.2.2.** Voltages are within emergency System Voltage Limits.

**6.2.3.** Widespread Instability, Cascading or uncontrolled separation do not occur as determine from the power flow studies (no dynamic studies are required).

**6.3.** The evaluation of the Contingencies identified in Part 5.2 against the actual pre‐Contingency state (Real‐time monitoring and Real‐time Assessments) and anticipated pre‐Contingency state (Operational Planning Analysis) demonstrates that instability, Cascading, or uncontrolled separation does not occur.

**6.4.** In determining the System’s response to any Contingency identified in Parts 5.1 and 5.2, planned load shedding is acceptable only after all other available System adjustments have been made.

**R7.** Each Reliability Coordinator shall include in its SOL Methodology:

**7.1.** A description of how to identify the subset of SOLs that qualify as

Interconnection Reliability Operating Limits (IROLs).

**7.2.** Criteria for determining when exceeding a SOL qualifies as an IROL and criteria for developing any associated IROL Tv.

**M7.** Acceptable evidence may include, but is not limited to, dated electronic or hard copy

documentation of its SOL Methodology that addresses the items listed in Requirement R7.