Requirement R3 Contingency Category Comparison

New Category	Old Category	Description
P0	Cat A	System intact
P1 P2.1 P3.2*	Cat B	Single contingency (Fault of a shunt device- fixed, switched or SVC/STATCOM is new)
P2	Cat C1, C2	Single event which may result in multiple element outage. Open line w/o fault, bus section fault, internal breaker fault
P3	Cat C3	Loss of generator unit followed by system adjustments + P1. No load shed is allowed
P4	Cat C	Fault + stuck breaker events
P5	n/a	Fault + non redundant relay failure to operate (new)
P6	Cat C3	Two overlapping singles (not generator)
P7	Cat C5, C4	Common tower outages; loss of bipolar DC



Category	Initial Condition	Event 1	Fault Type ²	BES Level 3	Interruption of Firm Transmission Service Allowed ⁴	Non-Consequential Load Loss Allowed
P0 No Contingency	Normal System	None	N/A	EHV, HV	No	No
P1 Single Contingency	Normal System	Loss of one of the following: 1. Generator 2. Transmission Circuit 3. Transformer ⁵ 4. Shunt Device ⁶ 5. Single Pole of a DC line	3Ø SLG	EHV, HV	No ^p	No ¹²
P2 Single Contingency	Normal System	Opening of a line section w/o a fault 7	N/A	EHV, HV	No®	No ¹²
		Bus Section Fault	SLG	EHV	No ⁹ Yes	No Yes
		3. Internal Breaker Fault ⁶	SLG	EHV	No ⁹	No No
		(non-Bus-tle Breaker)		HV	Yes	Yes
		Internal Breaker Fault (Bus-tie Breaker) ⁶	SLG	EHV. HV	Yes	Yes
		4. Internal Dieaker Lauk (Duo-se Dieaker)	020	2110,110	100	100
Category	Initial Condition	Event 1	Fault Type ²	BES Level 3	Interruption of Firm Transmission Service Allowed ⁴	Non-Consequential Load Loss Allowed
P3 Multiple Contingency	Loss of generator unit followed by System adjustments ⁹	Loss of one of the following: 1. Generator 2. Transmission Circuit 3. Transformer ⁵ 4. Shunt Device ⁶ 5. Single pole of a DC line	3Ø SLG	EHV, HV	No ^p	No ¹²
P4 Multiple Contingency (Fault plus stuck breaker ¹⁰)	Normal System	Loss of multiple elements caused by a stuck breaker ¹⁰ (non-Bus-tle Breaker) attempting to clear a Fault on one of the following:	SLG	EHV	No ⁹	No
		Generator Transmission Circuit Transformer ⁵ Shunt Device ⁶ Bus Section		HV	Yes	Yes
		 Loss of multiple elements caused by a stuck breaker¹⁰ (Bus-tie Breaker) attempting to clear a Fault on the associated bus 	SLG	EHV, HV	Yes	Yes
P5 Multiple Contingency (Fault plus relay failure to operate)	Normal System	Delayed Fault Clearing due to the failure of a non-redundant relay ¹³ protecting the Faulted element to operate as designed, for one of the following: 1. Generator 2. Transmission Circuit 3. Transformer ⁵ 4. Shunt Device ⁶ 5. Bus Section	SLG	EHV	No ^p	No
				HV	Yes	Yes
P6 Multiple Contingency (Two overlapping singles)	Loss of one of the following followed by System adjustments. 1. Transmission Circuit 2. Transformer ⁵ 3. Shunt Device ⁶ 4. Single pole of a DC line	Loss of one of the following: 1. Transmission Circuit 2. Transformer ⁵ 3. Shunt Device ⁶	3Ø	EHV, HV	Yes	Yes
		4. Single pole of a DC line	SLG	EHV, HV	Yes	Yes
Category	Initial Condition	Event 1	Fault Type ²	BES Level 3	Interruption of Firm Transmission Service Allowed ⁴	Non-Consequential Load Loss Allowed