	APPLICABLE MODES OR OTHER SPECIFIED	REQUIRED		SURVEILLANCE	ALLOWABLE	NOMINAL ^(a) TRIP
FUNCTION	CONDITIONS	CHANNELS	CONDITIONS	REQUIREMENTS	VALUE	SETPOINT
10. Reactor Coolar Flow—Low	it 1 ^(g)	3 per loop	М	SR 3.3.1.1 SR 3.3.1.7 SR 3.3.1.10 SR 3.3.1.16	≥ 89.8% of measured loop flow	90% of measured loop flow
11. Reactor Coolan Pump (RCP) Breaker Positio	n 1 ^(g)	1 per RCP	М	SR 3.3.1.14	NA	NA
12. Undervoltage RCPs	1 ^(g)	2 per bus	М	SR 3.3.1.9 SR 3.3.1.10 SR 3.3.1.16	≥ 7877 V each bus	8050 V each bus
13. Underfrequency RCPs	/ 1 ^(o)	3 per bus	М	SR 3.3.1.9 SR 3.3.1.10 SR 3.3.1.16	≥ 53.9 Hz each bus	54.0 Hz each bus
14. a. Steam Generator (SG) Water Level—Low Low	1,2	3 per SG	Ε	SR 3.3.1.1 SR 3.3.1.7 SR 3.3.1.10 SR 3.3.1.16	≥ 14.8%	15.0%
b. SG Water Level - Low Low Trip Tin Delay (TTD)	1,2 ne	4	X	SR 3.3.1.7 SR 3.3.1.10	TTD \leq 1.01 TD (Note 3) for RCS loop Δ T variable input \leq 50.7% RTP and TTD=0 for RCS loop Δ T variable input > 50.7 % RTP	TTD ≤ TD (Note 3) for RCS loop ΔT variable input 50% RTP TTD=0 for RCS loop ΔT variable input 50% RTP
15. Not used						

Table 3.3.1-1 (page 3 of 7) Reactor Trip System Instrumentation

(continued)

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(a) A channel is OPERABLE with an actual Trip Setpoint value outside its calibration tolerance band provided the Trip Setpoint value is conservative with respect to its associated Allowable Value and the channel is readjusted to within the established calibration tolerance band of the Nominal Trip Setpoint. A Trip Setpoint may be set more conservative than the Nominal Trip Setpoint as necessary in response to plant conditions.
 (a) A beye the P.7 (Law Power Poetra Trip Setpoint as necessary in response to plant conditions.

(g) Above the P-7 (Low Power Reactor Trips Block) interlock.

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DIABLO CANYON - UNITS 1 & 2

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Unit 1 - Amendment No. 135, 142, 161, 178 Unit 2 - Amendment No. 135, 142, 162, 180

ESFAS Instrumentation 3.3.2

	FUNCTION	APPLICABLE MODES OR OTHER SPECIFIED CONDITIONS	REQUIRED CHANNELS	CONDITIONS	SURVEILLANCE REQUIREMENTS	ALLOWABLE VALUE	NOMINAL ^(a) TRIP SETPOINT
5.	Feedwater Isolation (continued)						
	b. SG Water Level-High High (P-14)	1,2 ⁰⁾	3 per SG	J	SR 3.3.2.1 SR 3.3.2.5 SR 3.3.2.9 SR 3.3.2.10	≤ 75.2%	75%
	c. Safety Injection	Refer to Funct	ion 1 (Safety Inj	ection) for all initi	ation functions and re	quirements.	
6.	Auxiliary Feedwater						
	a. Manual	1,2,3	1 sw/pp	N	SR 3.3.2.13	NA	NA
	b. Automatic Actuation Logic and Actuation Relays (Solid State Protection System)	1,2,3	2 trains	G	SR 3.3.2.2 SR 3.3.2.4 SR 3.3.2.6	NA	NA
	c. Not used						
	d.1SG Water Level-Low I	1,2,3 Low	3 per SG	D	SR 3.3.2.1 SR 3.3.2.5 SR 3.3.2.9 SR 3.3.2.10	≥ 14.8%	15.0%
							(continued)

Table 3.3.2-1 (page 5 of 7) Engineered Safety feature Actuation System Instrumentation

(a) A channel is OPERABLE with an actual Trip Setpoint value outside its calibration tolerance band provided the Trip Setpoint value is conservative with respect to its associated Allowable Value and the channel is re-adjusted to within the established calibration tolerance band of the Nominal Trip Setpoint. A Trip Setpoint may be set more conservative than the Nominal Trip Setpoint as necessary in response to plant conditions.

(j) Except when all MFIVs, MFRVs, and associated bypass valves are closed and de-activated or isolated by a closed manual valve.

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