

VYNPS

TABLE 3.2.1

EMERGENCY CORE COOLING SYSTEM ACTUATION INSTRUMENTATION

Core Spray - A & B (Note 1)			
Minimum Number of Operable Instrument Channels per Trip	System	Trip Function	Trip Level Setting
2		High Drywell Pressure	≤ 2.5 psig
2		Low-Low Reactor Vessel Water Level	$\geq 82.5^*$ above top of enriched fuel
1		Low Reactor Pressure (PT-2-3-56C/D(M))	$300 \leq P \leq 350$ psig
2		Low Reactor Pressure (PT-2-3-56A/B(M) & 52C/D(M))	$300 \leq P \leq 350$ psig
1		Time Delay (14A-K16A & B)	≤ 10 seconds
2		Pump (P-46-1A/B) Discharge Pressure	≥ 100 psig
1		Auxiliary Power Monitor	--
1		Pump Bus Power Monitor	--
1		Trip System Logic	--
			Required Action When Minimum Conditions for Operation are Not Satisfied
			Note 2
			Note 2
			Note 2
			Note 2
			Note 2
			Note 5
			Note 5
			Note 5

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TABLE 3.2.1
(Cont'd)EMERGENCY CORE COOLING SYSTEM ACTUATION INSTRUMENTATION

Low Pressure Coolant Injection System A & B (Note 1)			
<u>Minimum Number of Operable Instrument Channels per Trip System</u>	<u>Trip Function</u>	<u>Trip Level Setting</u>	<u>Required Action When Minimum Conditions for Operation are Not Satisfied</u>
1	Low Reactor Pressure (PT-2-3-56C/D(M))	$300 \leq p \leq 350$ psig	Note 2
2	High Drywell Pressure (PT-10-101A-D(M))	≤ 2.5 psig	Note 2
2	Low-Low Reactor Vessel Water Level	$\geq 82.5^*$ above top of enriched fuel	Note 2
1	Time Delay (10A-K51A & B)	0 seconds	Note 5
1	Reactor Vessel Shroud Level	$\geq 2/3$ core height	Note 5
1	Time Delay (10A-K72A & B)	≤ 60 seconds	Note 5
-	Time Delay (10A-K50A & B)	≤ 5 seconds	Note 5
1	Low Reactor Pressure (PS-2-128A & B)	$100 \leq p \leq 150$ psig	Note 2
2 per pump	RHR Pump A & C Discharge Pressure	≥ 100 psig	Note 5
2	High Drywell Pressure (PT-10-101A-D(S1))	≤ 2.5 psig	Note 2

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TABLE 3.2.1
(Cnt'd)EMERGENCY CORE COOLING SYSTEM ACTUATION INSTRUMENTATION

Low Pressure Coolant Injection System A & B (Note 1)			
<u>Minimum Number of Operable Instrument Channels per Trip System</u>	<u>Trip Function</u>	<u>Trip Level Setting</u>	<u>Required Action When Minimum Conditions for Operation are Not Satisfied</u>
1	Time Delay (10A-K45A & B)	≤ 6 minutes	Note 5
2	Low Reactor Pressure (PT-2-3-56A/B(M) & 52C/D(M))	$300 \leq p \leq 350$ psig	Note 2
1	Auxiliary Power Monitor	--	Note 5
1	Pump Bus Power Monitor	--	Note 5
1	Trip System Logic	--	Note 5

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TABLE 4.2.1

MINIMUM TEST AND CALIBRATION FREQUENCIES
EMERGENCY CORE COOLING ACTUATION INSTRUMENTATION

Core Spray System			
<u>Trip Function</u>	<u>Functional Test(8)</u>	<u>Calibration(8)</u>	<u>Instrument Check</u>
High Drywell Pressure	(Note 1)	Once/Operating Cycle	Once Each Day
Low-Low Reactor Vessel Water Level	(Note 1)	Once/Operating Cycle	Once Each Day
Low Reactor Pressure (PT-2-3-56C/D(M))	(Note 1)	Once/Operating Cycle	--
Low Reactor Pressure (PT-2-3-56A/B(M) & 52C/D(M))	(Note 1)	Once/Operating Cycle	--
Pump (P-46-1A/B) Discharge Pressure	(Note 1)	Every Three Months	--
Auxiliary Power Monitor	(Note 1)	Every Refueling	Once Each Day
Pump Bus Power Monitor	(Note 1)	None	Once Each Day
Trip System Logic	Once/Operating Cycle	Once/Operating Cycle (Note 3)	--

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TABLE 4.2.1
(Cont'd)MINIMUM TEST AND CALIBRATION FREQUENCIES
EMERGENCY CORE COOLING ACTUATION INSTRUMENTATION

<u>Low Pressure Coolant Injection System</u>			
<u>Trip Function</u>	<u>Functional Test(8)</u>	<u>Calibration(8)</u>	<u>Instrument Check</u>
Low Reactor Pressure (PT-2-3-56C/D(M))	(Note 1)	Once/Operating Cycle	--
High Drywell Pressure (PT-10-101A-D(M))	(Note 1)	Once/Operating Cycle	Once Each Day
Low-Low Reactor Vessel Water Level	(Note 1)	Once/Operating Cycle	Once Each Day
Reactor Vessel Shroud Level	(Note 1)	Once/Operating Cycle	--
Low Reactor Pressure (PS-2-128A/B)	(Note 1)	Every Three Months	--
RHR Pump Discharge Pressure	(Note 1)	Every Three Months	--
High Drywell Pressure (PT-10-101A-D(S1))	(Note 1)	Once/Operating Cycle	--
Low Reactor Pressure (PT-2-3-56A/B)(M) & 52C/D(M))	(Note 1)	Once/Operating Cycle	--
Auxiliary Power Monitor	(Note 1)	Every Refueling Outage	Once Each Day
Pump Bus Power Monitor	(Note 1)	None	Once Each Day
Trip System Logic	Once/Operating Cycle	Once/Operating Cycle (Note 3)	--