

S01-1.2-1.1 LOSS OF REACTOR COOLANT REV 0 STEP ACTION/EXPECTED RESPONSE RESPONSE NOT OBTAINED NOTE: Foldout page should be open. CAUTION ====== If core exit TCs exceed 1200 OF or RCS hot leg temperatures exceed 700 °F then go to S01-1.2-14, RESPONSE TO INADEQUATE CORE COOLING. 1 Check RWST Level: a. RWST level - SLOWLY a. IF RAPIDLY decreasing, DECREASING. AND approaching 21% Tevel, THEN go to step 8. CAUTION ======= RWST level should be monitored until SI is terminated. 2 Check Containment Conditions: a. Containment sump level a. IF neither condition - INCREASING. is increasing, THEN rediagnose event, OR go to S01-1.2-1.0, REACTOR TRIP OR b. Containment radiation SAFETY INJECTION, on ARMS 1232 step 29. - INCREASING.

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CAUTION

c. Block valves - OPEN.

Closed, THEN manually close its block valve.

unless it was closed to isolate a faulty

c. Open block valve

PORV.

If any pressurizer PORV opens because of high RCS pressure, repeat step 5 after pressure drops below PORV setpoint.

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TEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
6	Check If SI Can Be Terminated:	
	a. RCS pressure - GREATER THAN 1400 PSIG <u>AND</u> INCREASING.	a. DO NOT TERMINATE SI, go to step 8.
	b. Pressurizer level - GREATER THAN 50%.	b. IF level is NOT increasing, THEN DO NOT TERMINATE SI, go to step 8. IF level is increasing, THEN continue monitor ing of step 6 until level conditions are met.
	c. RCS subcooling - GREATER THAN 400F.	c. DO NOT TERMINATE SI, go to step 8.
	d. Secondary heat sink:	d. IF neither condition
	Total flow to SGs with established AFW flow - GREATER THAN 250 GPM.	is satisfied, <u>THEN</u> DO NGT TERMINATE SI, go to step 8.
	OR	
	Narrow range level in at least one SG with established AFW flow - GREATER THAN 10%.	

S01-1.2-1.1 LOSS OF REACTOR COOLANT REV 0 STEP ACTION/EXPECTED RESPONSE RESPONSE NOT OBTAINED 7 Terminate SI: a. Go to S01-1.2-1.11, SI TERMINATION FOLLOWING LOSS OF REACTOR COOLANT. 8 Compare RCS And Steam Header Pressure: a. RCS pressure - GREATER a. IF RCS pressure less THAN OR EQUAL TO than steam header STEAM HEADER PRESSURE. pressure, THEN go to step 10. 9 Decrease Steam Header Pressure To 785 PSIG: a. Place steam dump a. If steam dump to condenser NOT availmode selector switch to - PRESSURE CONTROL, able, place steam dump mode selector CONDENSER. switch to - PRESSURE CONTROL, ATMOS. b. Maintain an RCS cooldown rate of LESS THAN 500F/HR while adjusting steam dump pressure controller setpoint to 785 PSIG. 10 Perform Post LOCA Cooldown And Depressurization: a. Implement SO1-1.2-1.12, POST LOCA COOLDOWN AND DEPRESSURIZATION.



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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
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12	Check Containment Spray System:	
	 a. Refueling water pump breakers - CLOSED. 	a. IF pumps NOT running, AND containment pressure less than 1.4 psig, <u>THEN</u> go to step 13.
	b. Containment pressure - LESS THAN 1.4 PSIG.	b. IF pressure high, THEN maintain to stainment spray until contain- ment pressure is less than 1.4 psig.
	c. Stop containment spray and place in standby:	
	1) Reset CSAS Trains A AND B.	
	 Stop both hydrazine additive pumps. 	
	3) Close spray additive pump discharge valves SV 600 <u>AND</u> SV 601.	
	4) Close spray valves CV 82 AND CV 114.	
	 Stop both refueling water pumps. 	
13	Check Reactor Auxiliary Building Radiation:	
•	a. Radiation level on ARMS 1234 - LESS THAN ALARM SET POINT.	a. Try to identify and isolate source of high radiation.

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STEP	ACTION/EXPECTED RESPONSE RESPONSE NOT OBTAINED		
14	Initiate Post Accident Sampling:		
·- ·	a. Direct Chemistry Department to obtain appropriate post accident samples.		
15	Determine And Evaluate Plant Systems Status:		
	a. Inservice safety systems. O IF any unsatisfactory		
	b. Standby safety systems. identified, <u>THEN</u>		
	c. Balance of plant systems Coordinator.		
	b. Evaluate long term plant status.		
16	Subsequent Action Determination:		
·	a. Emergency Coordinator should determine if the reactor vessel head should be vented per SCI-4-33, REACTOR COOLANT VENT SYSTEM.		
17	Align SI For Hot Leg Recirculation:		
	a. At 19 hours after event initiation, align SI system for hot leg recirculation per SO1-1.2-1.14, TRANSFER TO HOT LEG RECIRCULATION.		
	-END -		

MANAGER, STATION OPERATIONS

SO1-1.2-1.1 Rev 0

MOTOR DRIVEN AFW PUMP RESTART CRITERIA

- a. IF a motor driven AFW pump trips on low discharge pressure, THEN:
 - 1) Lower AFW flow controllers.
 - 2) Reset <u>AND</u> restart pump.

SI TERMINATION CRITERIA FOLLOWING LOSS OF REACTOR COOLANT

- a. Terminate SI when ALL parameters listed below are met:
 - 1) RCS Pressure GREATER THAN 1400 PSIG. 2) RCS Subcooling - 40 PF.
 - 3) Pressurizer Level
 - 4) Heat Sink: (a) SG Level
 - 10% N. R.
 - (b) AFW Flow $\frac{OR}{-250 \text{ GPM}}$.

SI REINITIATION CRITERIA FOLLOWING LOSS OF REACTOR COOLANT

a. Reinitiate SI if <u>ANY</u> ONE of the parameters listed below occurs:

- 1) RCS Pressure 2) RCS Subcooling
- 3) Pressurizer Level
- LESS THAN 1400 PSIG. LESS THAN 40 PF. LESS THAN 20%.

- GREATER THAN 50%.

COLD LEG RECIRCULATION SWITCHOVER CRITERIA

a. IF RWST level less than 21%, THEN align SI system for cold leg injection and recirculation per S01-1.2-1.13, TRANSFER TO COLD LEG INJECTION AND RECIRCULATION.

SYMPTOMS FOR RESPONSE TO INADEQUATE CORE COOLING

- a. Go to SO1-1.2-14, RESPONSE TO INADEQUATE CORE COOLING, when <u>ANY ONE</u> of the following symptoms occur:
 - 1) Five or more core exit TCs GREATER THAN 1200 OF.

OR

2) RCS hot leg temperatures - GREATER THAN 700 °F.

SYMPTOMS FOR RESPONSE TO LOSS OF SECONDARY HEAT SINK

a. Go to SO1-1.2-15, RESPONSE TO LOSS OF SECONDARY HEAT SINK, IF AFW Flow is NOT AVAILABLE.

IF EVENTS REQUIRE IMPLEMENTATION OF THIS PROCEDURE

- a. Notify Watch Engineer.
- b. Notify Shift Technical Advisor.
- c. Notify Shift Communicator.
- d. Determine if event is classified as an emergency and requires notification of offsite agencies and implementation of the Emergency Plan per S0123-VIII-11, RECOGNITION AND CLASSIFICATION OF EMERGENCIES.
- e. IF event is NOT classified as an emergency in d above THEN determine if notification of the NRC is required within one hour per SO1-14-13, NOTIFICATION TO NRC OF SIGNIFICANT EVENTS.