

EOP: FR-H.1	TITLE: RESPONSE TO LOSS OF SECONDARY HEAT SINK	REV: 10 PAGE 1 of 26
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ROCHESTER GAS AND ELECTRIC CORPORATION

GINNA STATION

CONTROLLED COPY NUMBER 23

TECHNICAL REVIEW

PORC REVIEW DATE 6/12/91

Joseph A. Widney  
PLANT SUPERINTENDENT

6/14/91  
EFFECTIVE DATE

CATEGORY 1.0

REVIEWED BY: \_\_\_\_\_

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- A. PURPOSE - This procedure provides actions for responding to a loss of secondary heat sink in both S/Gs.
- B. ENTRY CONDITIONS/SYMPTOMS
  - 1. ENTRY CONDITIONS - This procedure is entered from:
    - a. E-0, REACTOR TRIP OR SAFETY INJECTION, when minimum AFW flow is not verified.
    - b. F-0.3, HEAT SINK Critical Safety Function Status Tree on a RED condition.

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CAUTION

- o IF TOTAL FEED FLOW IS LESS THAN 200 GPM DUE TO OPERATOR ACTION, THIS PROCEDURE SHOULD NOT BE PERFORMED.
- o FEED FLOW SHOULD NOT BE REESTABLISHED TO A FAULTED S/G IF A NON-FAULTED S/G IS AVAILABLE.

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NOTE: Adverse CNMT values should be used whenever CNMT pressure is greater than 4 psig or CNMT radiation is greater than  $10^{-05}$  R/hr.

1 Check If Secondary Heat Sink Is Required:

- a. RCS pressure - GREATER THAN ANY NON-FAULTED S/G PRESSURE

- a. IF RWST level greater than 28%, THEN go to E-1, LOSS OF REACTOR OR SECONDARY COOLANT, Step 1.

IF RWST level less than 28%, THEN go to ES-1.3, TRANSFER TO COLD LEG RECIRCULATION, Step 1.

b. Check the following:

- o RCS cold leg temperature - GREATER THAN 350°F
- o RCS pressure - GREATER THAN 400 psig [300 psig adverse CNMT]

- b. Try to place RHR System in service while continuing with this procedure:

1) Reset SI if necessary.

2) Place letdown pressure controller in MANUAL CLOSED.

3) Check the following valves - OPEN:

- AOV-371, letdown isolation valve
- AOV-427, loop B cold leg to REGEN Hx
- At least one letdown orifice valve (AOV-200A, AOV-200B, or AOV-202)

4) IF pressure on PI-135 less than 400 psig, THEN establish RHR normal cooling (Refer to Attachment RHR COOL).

IF adequate cooling with RHR system established, THEN return to procedure and step in effect.

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RESPONSE NOT OBTAINED

## 2 Monitor Secondary Heat Sink:

- o Verify either S/G level - WIDE RANGE GREATER THAN 35 inches [100 inches adverse CNMT]
- o Verify PRZR pressure - LESS THAN 2335 PSIG

IF a loss of heat sink is indicated, THEN perform the following:

- a. Trip both RCPs.
- b. Go to Step 12 to initiate bleed and feed cooling.

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ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

### 3 Try to Establish AFW Flow To At Least One S/G:

#### a. Check MCB indications for cause of AFW failure:

- 1) Verify CST level - GREATER THAN 5 FEET
- 2) Verify busses supplying power to MDAFW pumps - ENERGIZED

- Bus 14
- Bus 16

#### 3) Check AFW valve alignment

- o AFW pump discharge valves - OPEN

- MOV-4007
- MOV-4008
- MOV-3996

- o TDAFW pump flow control valves - OPEN

- AOV-4297
- AOV-4298

#### b. Check AFW pumps - ALL RUNNING

#### c. Check total flow to S/Gs - GREATER THAN 200 GPM

#### d. Return to procedure and step in effect

- 1) Refer to ER-AFW.1, ALTERNATE WATER SUPPLY TO AFW PUMPS.

- 2) Continue attempts to restore power to MDAFW pumps.

- 3) Dispatch A0 to locally align valves as necessary.

#### b. Perform the following:

- 1) Manually start MDAFW pumps.

- 2) Check TDAFW pump steam supply valves OPEN.

- MOV-3504A
- MOV-3505A

- 3) If necessary dispatch A0 to locally reset TDAFW pump governor valve.

#### c. Continue attempts to restore AFW flow and go to Step 4.

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RESPONSE NOT OBTAINED

4 Stop Both RCPs

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RESPONSE NOT OBTAINED

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CAUTION

IF OFFSITE POWER IS LOST AFTER SI RESET, SELECTED SW PUMPS AND ONE CCW PUMP WILL AUTO START ON EMERGENCY D/G. MANUAL ACTION WILL BE REQUIRED TO RESTART SAFEGUARDS EQUIPMENT.

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5 Try To Establish MFW Flow To  
At Least One S/G:

- a. Check any MFW pump - AVAILABLE
- b. Check condensate system:
  - o Condensate pump - ANY RUNNING
  - o MFW pump suction pressure - GREATER THAN 185 PSIG
- c. Reset SI if necessary
- d. Establish MFW flow:
  - 1) Check MFW pump discharge valves - CLOSED
  - 2) Verify MFW flow control bypass valve - OPERABLE
  - 3) Dispatch A0 to restore MFW pump SW cooling
  - 4) Verify S/G blowdown key switches in NORMAL
  - 5) Ensure one MFW pump recirc valve - OPEN
  - 6) Start selected MFW pump
  - 7) Open MFW pump discharge valve
  - 8) Open MFW flow control bypass valves as necessary to restore S/G level

a. Go to Step 6.

b. IF offsite power available, THEN try to place condensate system in service.

IF NOT, THEN go to Step 6.

d. IF MFW flow can NOT be established, THEN go to Step 6.

e. Go to Step 10

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ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

## 6 Establish SAFW Flow:

## a. Perform the following:

- 1) Align SAFW system for operation (Refer to Attachment SAFW)
- 2) Start both SAFW pumps
- 3) Verify SAFW total flow - GREATER THAN 200 GPM

a. IF greater than 200 gpm, total SAFW flow can NOT be established, THEN go to Step 7.

## b. Go to Step 10

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CAUTION

IF WIDE RANGE LEVEL IN BOTH S/GS DECREASES TO LESS THAN 35 INCHES [100 INCHES ADVERSE CNMT] OR IF PRZR PRESSURE INCREASES TO GREATER THAN 2335 PSIG DUE TO LOSS OF HEAT SINK, THEN STEPS 12 THROUGH 14 SHOULD BE IMMEDIATELY INITIATED FOR BLEED AND FEED.

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## 7 Check Condensate Pumps - ANY RUNNING

IF offsite power available, THEN manually start at least one condensate pump. IF a condensate pump can NOT be started, THEN go to Step 11.

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ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

8 Establish Condenser Steam  
Dump Pressure Control:

a. Verify condenser available:

- o Any MSIV - OPEN
- o Annunciator G-15, STEAM DUMP  
- LIT

a. Place S/G ARV controllers in  
AUTO at desired pressure and go  
to Step 9.

b. Adjust condenser steam dump  
controller HC-484 to desired  
pressure and verify in AUTO

c. Place steam dump mode selector  
switch to MANUAL

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RESPONSE NOT OBTAINED

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CAUTION

FOLLOWING BLOCK OF AUTOMATIC SI ACTUATION, MANUAL SI ACTUATION MAY BE REQUIRED IF CONDITIONS DEGRADE.

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NOTE: If auxiliary spray is in use, spray flow may be increased by closing normal charging valve AOV-294 and normal PRZR spray valves.

9 Try To Establish Feed Flow  
From Condensate System:

a. Establish condensate flowpath  
(Refer to Attachment COND TO S/G)

a. Go to Step 11.

b. Depressurize RCS to less than  
1950 psig:

1) Deenergize PRZR heaters

2) Check letdown - IN SERVICE

2) Use one PRZR PORV. IF IA NOT  
available, THEN refer to  
Attachment N2 PORVS.

IF PORV NOT available, THEN  
use auxiliary spray valve,  
AOV-296 and go to Step 9c.

3) Depressurize using auxiliary  
spray valve (AOV-296)

c. WHEN RCS pressure less than  
1950 psig, THEN perform the  
following:

1) Block SI

2) Dump steam to condenser at  
maximum rate to depressurize  
at least one S/G to less than  
380 psig

2) Manually or locally dump  
steam using intact S/G ARV.

d. Verify condensate flow to S/Gs

d. Go to Step 11.

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
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10 Check S/G Levels:

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| <p>a. Narrow range level in at least one S/G - GREATER THAN 5% [25% adverse CNMT]</p> <p>b. Return to procedure and step in effect</p> | <p>a. <u>IF</u> feed flow verified to at least one S/G, <u>THEN</u> maintain flow to restore narrow range level greater than 5% [25% adverse CNMT]. <u>IF NOT</u> verified, <u>THEN</u> go to Step 11.</p> |
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11 Verify Secondary Heat Sink:

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|---|---|
| <p>a. Check the following:</p> <ul style="list-style-type: none"> <li>o Either S/G level - WIDE RANGE GREATER THAN 35 inches [100 inches adverse CNMT]</li> <li>o PRZR pressure - LESS THAN 2335 PSIG</li> </ul> <p>b. Return to Step 1</p> | <p>a. <u>IF</u> loss of heat sink is indicated, <u>THEN</u> perform the following:</p> <ul style="list-style-type: none"> <li>1) Trip both RCPs.</li> <li>2) Go to Step 12 to initiate bleed and feed cooling.</li> </ul> |
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CAUTION

STEPS 12 THROUGH 14 MUST BE PERFORMED QUICKLY IN ORDER TO ESTABLISH RCS HEAT REMOVAL BY RCS BLEED AND FEED.

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12 Actuate SI and CI

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RESPONSE NOT OBTAINED

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CAUTION

WHEN BAST LEVEL DECREASES TO 10%, THEN SI PUMP AUTOMATIC SWITCHOVER TO RWST SHOULD BE ENSURED.

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## 13 Verify RCS Feed Path:

a. Check SI pumps - AT LEAST ONE RUNNING

b. Check valve alignment for operating SI pumps - PROPER EMERGENCY ALIGNMENT

Manually start pumps and align valves as necessary to establish RCS feed path.

IF a feed path can NOT be established, THEN continue attempts to establish feed flow. Return to Step 3.

## 14 Establish RCS Bleed Path:

a. Open both PRZR PORV block valves

b. Place both PRZR PORV switches to OPEN

c. Align RCS overpressurization nitrogen system to open both PRZR PORVs (Refer to Attachment N2 PORVS)

a. Ensure power to MCCs supplying block valves.

- MCC C for MOV-515
- MCC D for MOV-516

IF any block valve can NOT be opened, THEN dispatch AO to locally check breaker:

- MOV-515, MCC C position 6C
- MOV-516, MCC D position 6C

c: IF BOTH PRZR PORVs can NOT be opened, THEN perform the following:

1) Ensure both PORV switches in OPEN.

2) Go to Step 15.

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STEP

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RESPONSE NOT OBTAINED

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CAUTION

IF OFFSITE POWER IS LOST AFTER SI RESET, SELECTED SW PUMPS AND ONE CCW PUMP WILL AUTO START ON EMERGENCY D/G. MANUAL ACTION WILL BE REQUIRED TO RESTART SAFEGUARDS EQUIPMENT.

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15 Check If SI Can Be Reset:

a. Check the following:

- o PRZR pressure - LESS THAN 1750 PSIG

-OR-

- o Either steamline pressure - LESS THAN 514 PSIG

- a. IF PRZR pressure stable or increasing, THEN reset SI and go to Step 16.

IF PRZR pressure decreasing, THEN perform the following:

- 1) WHEN PRZR pressure less than 1750 psig, THEN reset SI.
- 2) Go to Step 16.

b. Reset SI

16 Reset CI:

a. Depress CI reset pushbutton

- b. Verify annunciator A-26, CONTAINMENT ISOLATION - EXTINGUISHED

b. Perform the following:

- 1) Reset SI.
- 2) Depress CI reset pushbutton

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RESPONSE NOT OBTAINED

## 17 Verify Adequate SW Flow:

a. Verify at least two SW pumps -  
RUNNING

b. Verify AUX BLDG SW isolation  
valves - AT LEAST ONE SET OPEN

- MOV-4615 and MOV-4734
- MOV-4616 and MOV-4735

a. Manually start pumps as power  
supply permits (258 kw each).  
IF less than two SW pumps can be  
operated, THEN go to Step 20.

b. Establish SW to AUX BLDG (Refer  
to Attachment AUX BLDG SW).

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18	Establish IA to CNMT:	
	<p>a. Verify non-safeguards busses energized from offsite power</p> <ul style="list-style-type: none"> <li>o Bus 13 normal feed - CLOSED</li> <li>-OR-</li> <li>o Bus 15 normal feed - CLOSED</li> </ul> <p>b. Verify turbine building SW isolation valves - OPEN</p> <ul style="list-style-type: none"> <li>• MOV-4613 and MOV-4670</li> <li>• MOV-4614 and MOV-4664</li> </ul> <p>c. Verify at least two air compressors - RUNNING</p> <p>d. Check IA supply:</p> <ul style="list-style-type: none"> <li>o Pressure - GREATER THAN 60 PSIG</li> <li>o Pressure - STABLE OR INCREASING</li> </ul> <p>e. Reset both trains of XY relays for IA to CNMT AOV-5392</p> <p>f. Verify IA to CNMT AOV-5392 - OPEN</p>	<p>a. Perform the following:</p> <ol style="list-style-type: none"> <li>1) Close non-safeguards bus tie breakers: <ul style="list-style-type: none"> <li>• Bus 13 to Bus 14 tie</li> <li>• Bus 15 to Bus 16 tie</li> </ul> </li> <li>2) Verify adequate emergency D/G capacity to run air compressors (75 kw each).   <u>IF NOT</u>, <u>THEN</u> evaluate if CNMT RECIRC fans should be stopped (Refer to Attachment CNMT RECIRC FANS).</li> <li>3) <u>WHEN</u> bus 15 restored, <u>THEN</u> reset control room lighting.</li> </ol> <p>b. Manually align valves.</p> <p>c. Manually start air compressors as power supply permits (75 kw each). <u>IF</u> air compressors can <u>NOT</u> be started, <u>THEN</u> dispatch A0 to locally reset compressors as necessary.</p> <p>d. Perform the following:</p> <ol style="list-style-type: none"> <li>1) Continue attempts to restore IA (Refer to AP-IA.1, LOSS OF INSTRUMENT AIR).</li> <li>2) Continue with Step 20. <u>WHEN</u> IA restored, <u>THEN</u> do Steps 18e, f and 19.</li> </ol>



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RESPONSE NOT OBTAINED

19 Restore RCS  
Overpressurization Nitrogen  
System To Standby:

a. Verify instrument bus D -  
ENERGIZED

a. Perform the following:

1) Ensure steam dump mode  
control in MANUAL.

2) Restore power to instrument  
bus D from MCC B or MCC A  
(maintenance supply).

b. Place relief valve PC-431 and  
PC-430 arming switches to BLOCK

- SOV-8619A
- SOV-8619B

c. Close SURGE TK VLVs

- SOV-8616A
- SOV-8616B

NOTE: PRZR PORVs may close temporarily until adequate IA pressure is  
restored in CNMT.

20 Verify Adequate RCS Bleed  
Path - BOTH PRZR PORVS OPEN

IF PRZR PORVs can NOT be opened,  
THEN perform the following:

a. Open Rx vessel head vents.

- SOV-590
- SOV-591
- SOV-592
- SOV-593

b. Depressurize at least one intact  
S/G to atmospheric pressure  
using S/G ARV.

c. Align any available low pressure  
water source to the  
depressurized S/Gs.

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***** <u>CAUTION</u> THE RCS BLEED PATH MUST BE MAINTAINED EVEN IF RCS PRESSURE REMAINS GREATER THAN SI PUMP SHUTOFF HEAD. *****		
21	Maintain RCS Heat Removal: <ul style="list-style-type: none"> <li>o Maintain SI flow</li> <li>o Maintain both PRZR PORVs and block valves - OPEN</li> </ul>	
22	Check Normal Power Available To Charging Pumps: <ul style="list-style-type: none"> <li>o Bus 14 normal feed breaker - CLOSED</li> <li>o Bus 16 normal feed breaker - CLOSED</li> </ul>	Verify adequate emergency D/G capacity to run charging pumps (75 kw each).  <u>IF NOT, THEN</u> evaluate if CNMT RECIRC fans can be stopped (Refer to Attachment CNMT RECIRC FANS).



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RESPONSE NOT OBTAINED

23 Check If Charging Flow Has  
Been Established:

a. Charging pumps - ANY RUNNING

a. Perform the following:

- 1) IF CCW flow is lost to any RCP thermal barrier OR any RCP #1 seal outlet temperature offscale high, THEN dispatch A0 with key to RWST gate to locally close seal injection needle valve(s) to affected RCP:

- RCP A, V-300A
- RCP B, V-300B

- 2) Ensure HCV-142 open, demand at 0%.

b. Align charging pump suction to RWST:

b. IF LCV-112B can NOT be opened, THEN perform the following:

- o LCV-112B - OPEN
- o LCV-112C - CLOSED

- 1) Verify charging pump A NOT running and place in PULL STOP.
- 2) Dispatch A0 to locally open manual charging pump suction from RWST (V-358 located in charging pump room).
- 3) WHEN V-358 open, THEN direct A0 to close V-268 to isolate charging pumps B and C from VCT (V-268 located in charging pump room).

c. Start charging pumps as necessary and establish maximum charging flow

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RESPONSE NOT OBTAINED

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CAUTION

- o IF RWST LEVEL DECREASES TO LESS THAN 28%, THEN THE SI SYSTEM SHOULD BE ALIGNED FOR COLD LEG RECIRCULATION USING STEPS 1 THROUGH 13 OF ES-1.3, TRANSFER TO COLD LEG RECIRCULATION.
- o IF CONTAINMENT PRESSURE INCREASES TO GREATER THAN 28 PSIG, CONTAINMENT SPRAY SHOULD BE VERIFIED.

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24 Continue Attempts To  
Establish Secondary Heat Sink  
In At Least One S/G:

- AFW flow
- Main FW flow
- Standby AFW flow
- Condensate flow

25 Check For Adequate Secondary  
Heat Sink:

- a. Check narrow range level in at least one S/G - GREATER THAN 5% [25% adverse CNMT]
- b. Adjust S/G ARV controllers to existing S/G pressure

a. Return to Step 24.

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RESPONSE NOT OBTAINED

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CAUTION

IF THE RCS IS WATER SOLID, THEN ANY INCREASE IN RCS TEMPERATURE MAY RESULT IN A SIGNIFICANT RCS PRESSURE INCREASE. RCS HEATUP SHOULD BE PREVENTED.

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26 Monitor RCS Temperatures:

Perform the following:

- o Core exit T/Cs - DECREASING
- o RCS hot leg temperatures - DECREASING

- a. Control steam dump and feed flow to establish natural circulation and stabilize RCS temperature.
- b. Return to Step 24.

27 Check CCW Pumps - ANY RUNNING

Perform the following:

- a. IF any RCP #1 seal outlet temperature offscale high, THEN isolate CCW to thermal barrier of affected RCP(s).
  - RCP A, MOV-749A and MOV-759A
  - RCP B, MOV-749B and MOV-759B
- b. Manually start one CCW pump (124 kw).

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STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

\*\*\*\*\*

CAUTION

IF RCS IS SOLID, THEN TERMINATION OF FEED AND BLEED MAY RESULT IN RAPID RCS PRESSURE INCREASE UNLESS RCS INFLOW AND OUTFLOW ARE CAREFULLY CONTROLLED.

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28. Check If One Of Three SI Pumps Should Be Stopped:

- a. Three SI pumps - RUNNING
- b. RCS subcooling based on core exit T/Cs - GREATER THAN 35°F [90°F adverse CNMT] USING FIGURE MIN SUBCOOLING
- c. Check PRZR level - GREATER THAN 13% [40% adverse CNMT]
- d. Stop one SI pump

a. Go to Step 29.

b. Check the following:

- o RCS pressure greater than 1625 psig [1825 psig adverse CNMT]
- o RCS subcooling based on core exit T/Cs greater than 0°F using Figure MIN SUBCOOLING

IF NOT, THEN go to Step 31.

c. Do NOT stop SI pump. Go to Step 31.



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STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

29 Check If One Of Two SI Pumps  
Should Be Stopped:

a. Two SI pumps - RUNNING

a. Go to Step 30.

b. Determine required RCS  
subcooling from table:

Charging Pump Availability	RCS Subcooling Criteria
NONE	120°F [200°F adverse CNMT]
ONE	115°F [190°F adverse CNMT]
TWO	105°F [180°F adverse CNMT]
THREE	100°F [175°F adverse CNMT]

c. RCS subcooling based on core  
exit T/Cs - GREATER THAN VALUE  
FROM TABLE ABOVE USING FIGURE  
MIN SUBCOOLING

c. Check the following:

- o RCS pressure greater than  
1625 psig [1825 psig adverse  
CNMT]
- o RCS subcooling based on core  
exit T/Cs greater than 0°F  
using Figure MIN SUBCOOLING

IF NOT, THEN go to Step 31.

d. PRZR level - GREATER THAN 13%  
[40% adverse CNMT]

d. Do NOT stop SI pump. Go to  
Step 31.

e. Stop one SI pump

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STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

30 Check If Last SI Pump Should  
Be Stopped:

a. One SI pump - RUNNING

a. Go to Step 32.

b. Check the following:

b. Go to Step 31.

o RCS subcooling based on core  
exit T/Cs greater than 0°F  
using Figure MIN SUBCOOLING

o RCS pressure greater than  
1625 psig [1825 psig adverse  
CNMT]

c. PRZR level - GREATER THAN 13%  
[40% adverse CNMT]

c. Do NOT stop SI pump. Go to  
Step 31.

d. Stop running SI pump

e. Go to Step 32

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STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

NOTE: After closing a PORV, it may be necessary to wait for RCS pressure to increase to permit stopping SI pumps in Steps 28, 29 and 30.

### 31 Check PRZR PORV Status:

#### a. PRZR PORVs - ANY OPEN

a. Close any open Rx vessel head vent valves and go to appropriate plant procedure:

- o IF RWST level greater than 28%, THEN go to E-1, LOSS OF REACTOR OR SECONDARY COOLANT, Step 1.

-OR-

- o IF RWST level less than 28%, THEN go to ES-1.3, TRANSFER TO COLD LEG RECIRCULATION, Step 1.

#### b. PRZR PORVs - BOTH OPEN

b. IF PRZR level greater than 75% [65% adverse CNMT], THEN perform the following:

#### 1) Establish excess letdown as follows:

- o Place AOV-312 to NORMAL.
- o Ensure CCW pump running.
- o Ensure CCW from excess letdown Hx open (AOV-745).
- o Open excess letdown isolation valve AOV-310.
- o Slowly open HCV-123.

#### 2) Stop all but one charging pump and decrease charging flow to as necessary to control RCS pressure.

This Step continued on the next page.

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
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(Step 31 continued from previous page)

c. Close one open PRZR PORV

c. Close PORV block valve.

IF block valve can NOT be closed, THEN go to appropriate plant procedure:

o IF RWST level greater than 28%, THEN go to E-1, LOSS OF REACTOR OR SECONDARY COOLANT, Step 1.

-OR-

o IF RWST level less than 28%, THEN go to ES-1.3, TRANSFER TO COLD LEG RECIRCULATION, Step 1.

d. Return to Step 28

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CAUTION

IF RCS IS SOLID, CLOSURE OF PORVS WILL RESULT IN RAPID RCS PRESSURE INCREASE UNLESS RCS INFLOW AND OUTFLOW ARE CAREFULLY CONTROLLED.

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32 Check PRZR PORVs And Rx Vessel Head Vent Valves - ALL CLOSED

Close all PRZR PORVs and Rx vessel head vent valves. IF any PRZR PORV can NOT be closed, THEN manually close its block valve.



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STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

33 Check If RHR Pumps Should Be Stopped:

a. Check RCS pressure:

- 1) Pressure - GREATER THAN 250 psig [465 psig adverse CNMT]
- 2) Pressure - STABLE OR INCREASING

b. Stop RHR pumps and place in AUTO

34 Start Charging Pumps As Necessary And Control Charging Flow To Maintain PRZR Level

35 Go To ES-1.1, SI TERMINATION, Step 8

a. Go to appropriate plant procedure:

- o IF RWST level greater than 28%, THEN go to E-1, LOSS OF REACTOR OR SECONDARY COOLANT, Step 1.

-OR-

- o IF RWST level less than 28%, THEN go to ES-1.3, TRANSFER TO COLD LEG RECIRCULATION, Step 1.

-END-



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3)	ATTACHMENT COND TO S/G	1
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5)	ATTACHMENT SD-1	1
6)	ATTACHMENT RHR COOL	2
7)	ATTACHMENT SAFW	1
8)	ATTACHMENT AUX BLDG SW	1

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FIGURE MIN SUBCOOLING

NOTE: Subcooling Margin = Saturation Temperature From Figure  
Below [-] Core Exit T/C Indication



