

EOP: FR-P.1	TITLE: RESPONSE TO IMMINENT PRESSURIZED THERMAL SHOCK CONDITION	REV: 7 PAGE 1 of 22
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ROCHESTER GAS AND ELECTRIC CORPORATION

GINNA STATION

CONTROLLED COPY NUMBER 23

TECHNICAL REVIEW

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Thomas A. Marlow
PLANT SUPERINTENDENT

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REVIEWED BY: _____

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A. PURPOSE - This procedure provides actions to avoid, or limit, thermal shock or pressurized thermal shock to the reactor pressure vessel, or overpressure conditions at low temperature.

B. ENTRY CONDITIONS/SYMPTOMS

1. ENTRY CONDITIONS - This procedure is entered from:

- a. F-0.4, INTEGRITY Critical Safety Function Status Tree, on either a RED or ORANGE condition.



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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
	<p><u>NOTE:</u> A faulted S/G is any S/G that is depressurizing in an uncontrolled manner or is completely depressurized.</p>	
2	Check RCS Cold Leg Temperatures - STABLE OR INCREASING	<p>Try to stop RCS cooldown:</p> <ol style="list-style-type: none"> Ensure S/G ARVs closed. Close both S/G MSIVs. Ensure MFW flow control valves closed. <ul style="list-style-type: none"> • MFW regulating valves • MFW bypass valves Ensure MFW pumps tripped. Rotate reheater steam supply controller cam to close reheater steam supply valves. <u>IF</u> S/G pressure less than condensate pressure, <u>THEN</u> stop all condensate pumps. <u>IF</u> RHR system in service, <u>THEN</u> stop any cooldown from RHR system. Control total feed flow to non-faulted S/G(s) greater than 200 gpm until narrow range level greater than 5% [25% adverse CNMT] in at least one non-faulted S/G. <u>WHEN</u> S/G level greater than 5% [25% adverse CNMT] in one non-faulted S/G, <u>THEN</u> limit feed flow to stop RCS cooldown.
This Step continued on the next page.		

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
	(Step 2 continued from previous page)	
		i. Minimize cooldown from faulted S/G(s): <ol style="list-style-type: none"> 1) Close faulted S/G(s) TDAFW pump steam supply valve(s). <ul style="list-style-type: none"> • S/G A, MOV-3505A • S/G B, MOV-3504A 2) <u>IF</u> both S/G(s) faulted, <u>THEN</u> control feed flow at 50 gpm to each S/G. 3) <u>IF</u> any S/G <u>NOT</u> faulted, <u>THEN</u> isolate all feedwater to faulted S/G unless necessary for RCS temperature control. <u>IF</u> a faulted S/G is necessary for RCS temperature control, <u>THEN</u> control feed flow at 50 gpm to that S/G.
	3 Check PRZR PORV Block Valves:	
	a. Power to PORV block valves - AVAILABLE	a. Restore power to block valves unless block valve was closed to isolate an open PORV: <ul style="list-style-type: none"> • MOV-515, MCC C position 6C • MOV-516, MCC D position 6C
	b. Block valves - AT LEAST ONE OPEN	b. Open one block valve unless it was closed to isolate an open PORV. <p><u>IF</u> at least one block valve can <u>NOT</u> be opened, <u>THEN</u> dispatch AO to locally check breaker.</p> <ul style="list-style-type: none"> • MOV-515, MCC C position 6C • MOV-516, MCC D position 6C

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
***** <u>CAUTION</u> IF ANY PRZR PORV OPENS BECAUSE OF HIGH PRZR PRESSURE, THEN STEP 4 SHOULD BE PERFORMED AFTER PRESSURE DECREASES TO LESS THAN THE APPLICABLE PORV SETPOINT. *****		
4	Check PRZR PORV Status:	
	a. Check Reactor Vessel Overpressure Protection System - IN SERVICE	a. Go to Step 4d.
	b. Check RCS pressure - LESS THAN 410 PSIG	b. Perform the following: 1) Ensure at least one PRZR PORV open. 2) Continue with Step 5. <u>WHEN</u> pressure less than setpoint, <u>THEN</u> do Step 4e.
	c. Go to Step 4e	
	d. PRZR pressure - LESS THAN 2335 PSIG	d. Perform the following: 1) Ensure at least one PRZR PORV open. 2) Continue with Step 5. <u>WHEN</u> pressure less than setpoint, <u>THEN</u> do Step 4e.
	e. Verify PRZR PORVs - CLOSED	e. Manually close valve. <u>IF</u> any valve can <u>NOT</u> be closed, <u>THEN</u> manually close its block valve.



STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
5	Check SI Pumps - ANY RUNNING	Go to Step 14.
6	<p>Check If SI Can Be Terminated:</p> <ul style="list-style-type: none"> o RCS subcooling based on core exit T/Cs - GREATER THAN 50°F USING FIGURE MIN SUBCOOLING o Check RVLIS indication: <ul style="list-style-type: none"> o Level (no RCPs) - GREATER THAN 68% [73% adverse CNMT] <p>-OR-</p> <ul style="list-style-type: none"> o Fluid fraction (any RCP running) - GREATER THAN 80% 	<p>Do <u>NOT</u> stop SI pumps. Perform the following:</p> <ul style="list-style-type: none"> a. <u>IF</u> RCS subcooling based on core exit T/Cs greater than 0°F using Figure MIN SUBCOOLING and no RCP running, <u>THEN</u> attempt to start an RCP: <ul style="list-style-type: none"> 1) Establish conditions for starting an RCP: <ul style="list-style-type: none"> o Bus 11A or 11B energized o Refer to Attachment RCP START 2) <u>IF</u> conditions established, <u>THEN</u> start one RCP. b. Go to Step 27.
<p>***** <u>CAUTION</u> IF OFFSITE POWER IS LOST AFTER SI RESET, THEN SELECTED SW PUMPS AND ONE CCW PUMP WILL AUTO START ON EMERGENCY D/G. MANUAL ACTION WILL BE REQUIRED TO RESTART SAFEGUARDS EQUIPMENT. *****</p>		
7	Reset SI	

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
8	Stop SI And RHR Pumps And Place In AUTO	
9	Reset CI:	
	a. Depress CI reset pushbutton	
	b. Verify annunciator A-26, CNMT ISOLATION - EXTINGUISHED	b. Perform the following: 1) Reset SI. 2) Depress CI reset pushbutton.
10	Verify Adequate SW Flow:	
	a. Check at least two SW pumps - RUNNING	a. Manually start SW pumps as power supply permits (258 kw each). <u>IF</u> less than two SW pumps running, <u>THEN</u> perform the following: 1) Ensure SW isolation. 2) Dispatch AO to establish normal shutdown alignment (Refer to Attachment SD-1). 3) Go to Step 12. <u>WHEN</u> adequate SW available, <u>THEN</u> do Step 11.
	b. Dispatch AO to establish normal shutdown alignment (Refer to Attachment SD-1)	

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
11	Establish IA to CNMT:	
a.	Verify non-safeguards busses energized from offsite power <ul style="list-style-type: none"> o Bus 13 normal feed - CLOSED -OR- o Bus 15 normal feed - CLOSED 	a. Perform the following: <ol style="list-style-type: none"> 1) Close non-safeguards bus tie breakers: <ul style="list-style-type: none"> • Bus 13 to Bus 14 tie • Bus 15 to Bus 16 tie 2) Verify adequate emergency D/G capacity to run air compressors (75 kw each). <u>IF NOT, THEN</u> evaluate if CNMT RECIRC fans should be stopped (Refer to Attachment CNMT RECIRC FANS). 3) <u>WHEN</u> bus 15 restored, <u>THEN</u> reset control room lighting.
b.	Verify SW isolation valves to turbine building - OPEN <ul style="list-style-type: none"> • MOV-4613 and MOV-4670 • MOV-4614 and MOV-4664 	b. Manually align valves.
c.	Verify at least two air compressors - RUNNING	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 AO to locally reset compressors as necessary.
d.	Check IA supply: <ul style="list-style-type: none"> o Pressure - GREATER THAN 60 PSIG o Pressure - STABLE OR INCREASING 	d. Perform the following: <ol style="list-style-type: none"> 1) Continue attempts to restore IA (Refer to AP-IA.1, LOSS OF INSTRUMENT AIR). 2) Continue with Step 12. <u>WHEN</u> IA restored, <u>THEN</u> do Steps 11e and f.
e.	Reset both trains of XY relays for IA to CNMT AOV-5392	
f.	Verify IA to CNMT AOV-5392 - OPEN	



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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
<p>***** <u>CAUTION</u> ALIGNING SI PUMP SUCTION TO RWST BEFORE ISOLATING BAST MAY RESULT IN BACKFLOW FROM RWST TO BASTS. *****</p>		
12	<p>Verify SI Pump Suction Aligned To RWST:</p> <p>a. SI pump suction valves from BASTs - CLOSED</p> <ul style="list-style-type: none"> • MOV-826A • MOV-826B • MOV-826C • MOV-826D <p>b. SI pump suction valves from RWST - OPEN</p> <ul style="list-style-type: none"> • MOV-825A • MOV-825B <p>c. Consult TSC to determine if SI flush is required (Refer to Attachment SI FLUSH)</p>	<p>a. Ensure at least one valve in each flow path closed.</p> <ul style="list-style-type: none"> • MOV-826A or MOV-826B • MOV-826C or MOV-826D <p>b. Ensure at least one valve is open.</p>



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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
13	Check If Charging Flow Has Been Established:	
	a. Charging pumps - ANY RUNNING	a. Perform the following: 1) <u>IF</u> CCW flow is lost to any RCP thermal barrier <u>OR</u> any RCP #1 seal outlet temperature offscale high, <u>THEN</u> dispatch AO 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: o LCV-112B - OPEN o LCV-112C - CLOSED	b. <u>IF</u> LCV-112B can <u>NOT</u> be opened, <u>THEN</u> perform the following: 1) Verify charging pump A <u>NOT</u> running and place in PULL STOP. 2) Dispatch AO to locally open manual charging pump suction from RWST (V-358 located in charging pump room). 3) <u>WHEN</u> V-358 open, <u>THEN</u> direct AO 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 adjust charging flow to restore PRZR level	



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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
*14	<p>Monitor SI Reinitiation Criteria:</p> <ul style="list-style-type: none"> o RCS subcooling based on core exit T/Cs - GREATER THAN FIGURE MIN SUBCOOLING o RVLIS indication: <ul style="list-style-type: none"> o Level - GREATER THAN 68% [73% adverse CNMT] -OR- o Fluid fraction (any RCP running) - GREATER THAN 80% 	<p>Manually operate SI pumps as necessary and perform the following:</p> <ul style="list-style-type: none"> a. <u>IF</u> RCS subcooling based on core exit T/Cs greater than Figure MIN SUBCOOLING and no RCP running, <u>THEN</u> attempt to start a RCP: <ul style="list-style-type: none"> 1) Establish conditions for starting an RCP: <ul style="list-style-type: none"> o Bus 11A or 11B energized o Refer to Attachment RCP START 2) <u>IF</u> conditions established, <u>THEN</u> start one RCP. b. Go to Step 27.
15	<p>Check RCS Hot Leg Temperatures - STABLE</p>	<p><u>IF</u> increasing, <u>THEN</u> control feed flow and dump steam to stabilize RCS hot leg temperatures.</p> <p><u>IF</u> decreasing, <u>THEN</u> verify that actions of Step 1 have been performed before continuing with procedure.</p>



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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
16	<p>Check If SI ACCUMs Should Be Isolated:</p> <p>a. Check the following:</p> <ul style="list-style-type: none"> o RCS subcooling based on core exit T/Cs - GREATER THAN 0°F USING FIGURE MIN SUBCOOLING o RVLIS indication: <ul style="list-style-type: none"> o Level - GREATER THAN 68% [73% adverse CNMT] <p style="text-align: center;">-OR-</p> <ul style="list-style-type: none"> o Fluid fraction (any RCP running) - GREATER THAN 80% <p>b. Dispatch AO with locked valve key to locally close breakers for SI ACCUM discharge valves</p> <ul style="list-style-type: none"> • MOV-841, MCC C position 12F • MOV-865, MCC D position 12C <p>c. Close SI ACCUM discharge valves</p> <ul style="list-style-type: none"> • MOV-841 • MOV-865 <p>d. Locally reopen breakers for MOV-841 and MOV-865</p>	<p>a. Return to Step 14.</p> <p>c. Vent any unisolated ACCUMs:</p> <ol style="list-style-type: none"> 1) Open vent valves for unisolated SI ACCUMs. <ul style="list-style-type: none"> • ACCUM A, AOV-834A • ACCUM B, AOV-834B 2) Open HCV-945. 3) Continue with Step 17. Do <u>NOT</u> decrease RCS pressure to less than unisolated ACCUM pressure.



STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
***** <u>CAUTION</u> *****		
THE RCS SHOULD NOT BE DEPRESSURIZED TO LESS THAN SI ACCUM PRESSURE UNTIL SI ACCUMS ISOLATED.		

<p><u>NOTE:</u> o If auxiliary spray is in use, spray flow may be increased by closing normal charging valve AOV-294 and normal PRZR spray valves.</p> <p> o When using a PRZR PORV select one with an operable block valve.</p>		
17	Depressurize RCS To Decrease RCS Subcooling:	
	<p>a. Depressurize using normal PRZR spray if available</p> <p>b. Depressurize RCS until either of the following conditions satisfied:</p> <p> o RCS subcooling based on core exit T/Cs - LESS THAN 10°F USING FIGURE MIN SUBCOOLING</p>	<p>a. <u>IF</u> normal spray <u>NOT</u> available, <u>THEN</u> use one PRZR PORV. <u>IF</u> IA <u>NOT</u> available, <u>THEN</u> refer to Attachment N2 PORVS.</p> <p><u>IF</u> no PRZR PORV available, <u>THEN</u> use auxiliary spray valve (AOV-296).</p>
	-OR-	
	<p>o PRZR level - GREATER THAN 87% [75% adverse CNMT]</p> <p>c. Stop RCS depressurization</p>	

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
18	Check If RCPs Must Be Stopped:	
	a. RCPs - ANY RUNNING	a. Go to Step 19.
	b. Check the following:	b. Go to Step 19.
	o RCP #1 seal D/P - LESS THAN 220 PSID	
	-OR-	
	o RCP #1 seal leakoff - LESS THAN 0.25 GPM	
	c. Stop affected RCP(s)	

CAUTION		
AN INCREASE IN RCS PRESSURE MAY RESULT IN EXCESSIVE REACTOR VESSEL STRESS. RCS PRESSURE AND TEMPERATURE SHOULD BE MAINTAINED STABLE WHILE PERFORMING SUBSEQUENT STEPS IN THIS PROCEDURE.		

19	Check PRZR Level - GREATER THAN 13% [40% adverse CNMT]	Try to restore level with charging while maintaining stable RCS pressure. <u>IF</u> level can <u>NOT</u> be restored, <u>THEN</u> go to Step 26.

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
20	Check If Normal CVCS Operation Can Be Established	
a.	Verify IA restored: <ul style="list-style-type: none"> o IA to CNMT (AOV-5392) - OPEN o IA pressure - GREATER THAN 60 PSIG 	a. Continue with Step 24. <u>WHEN</u> IA restored; <u>THEN</u> do Steps 20 through 23.
b.	CCW pumps - ANY RUNNING	b. Perform the following: <ol style="list-style-type: none"> 1) <u>IF</u> any RCP #1 seal outlet temperature offscale high, <u>THEN</u> isolate CCW to thermal barrier of affected RCP(s). <ul style="list-style-type: none"> • RCP A, MOV-749A and MOV-759A • RCP B, MOV-749B and MOV-759B 2) Manually start one CCW pump.
c.	Verify instrument bus D - .ENERGIZED	c. Energize MCC B. <u>IF</u> MCC B <u>NOT</u> available, <u>THEN</u> perform the following: <ol style="list-style-type: none"> 1) Verify MCC A energized. 2) Place instrument bus D on maintenance supply.
d.	Charging pump - ANY RUNNING	d. Continue with Step 25. <u>WHEN</u> any charging pump running, <u>THEN</u> do Steps 21 through 25.



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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
<p>***** <u>CAUTION</u> IF RCS PRESSURE LESS THAN 250 PSIG, THEN PCV-135 SHOULD BE ADJUSTED TO ESTABLISH DESIRED LETDOWN FLOW, NOT TO INCREASE PRESSURE. *****</p>		
21	Establish Normal Letdown:	IF RCP seal return has been established, <u>THEN</u> establish excess letdown as follows:
	a. Establish charging line flow to REGEN Hx - GREATER THAN 20 GPM	o Place excess letdown divert valve, AOV-312, to NORMAL.
	b. Place the following switches to CLOSE:	o Ensure CCW from excess letdown open, (AOV-745).
	• Letdown orifice valves (AOV-200A, AOV-200B, and AOV-202)	o Open excess letdown isolation valve AOV-310.
	• AOV-371, letdown isolation valve	o Slowly open HCV-123 to maintain excess letdown temperature less than 195°F and pressure less than 100 psig.
	• AOV-427, loop B cold leg to REGEN Hx	o Adjust charging pump speed as necessary.
	c. Place letdown controllers in MANUAL at 25% open	IF RCP seal return <u>NOT</u> established, <u>THEN</u> consult TSC to determine if excess letdown should be placed in service.
	• TCV-130	
	• PCV-135	
	d. Reset both trains of XY relays for AOV-371 and AOV-427	
	e. Open AOV-371 and AOV-427	
	f. Open letdown orifice valves as necessary	
	g. Place TCV-130 in AUTO at 105°F	
	h. Place PCV-135 in AUTO at 250 psig	
	i. Adjust charging pump speed and HCV-142 as necessary	



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STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

22 Check VCT Makeup System:

a. BAST levels - ANY GREATER THAN 5%

a. Go to Step 23.

b. Check Annunicator B-23, BORIC
ACID TANK LO LO LEVEL -
EXTINGUISHED

b. Perform the following:

- 1) Adjust boric acid flow
control valve to required
flow from table.

BAST LEVEL	BORIC ACID FLOW (GPM)
<10%	4.5
10-15%	6.7
15-20%	8.9
>20%	10.0

2) Go to Step 22d.

c. Adjust boric acid flow control
valve in AUTO to 4.5 gpm

d. Verify the following:

d. Adjust controls as necessary.

1) RMW mode selector switch in
AUTO

2) RMW control armed - RED LIGHT
LIT

e. Check VCT level:

e. Manually increase VCT makeup
flow as follows:

o Level - GREATER THAN 20%

-OR-

o Level - STABLE OR INCREASING

1) Ensure BA transfer pumps and
RMW pumps running. IF NOT,
THEN reset MCC C and MCC D UV
lockouts as necessary.

2) Place RMW flow control valve
HCV-111 in MANUAL and
increase RMW flow.

3) Increase boric acid flow as
necessary.



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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
23	<p>Check Charging Pump Suction Aligned To VCT:</p> <p>a. VCT level - GREATER THAN 20%</p> <p>b. Verify charging pumps aligned to VCT</p> <ul style="list-style-type: none"> o LCV-112C - OPEN o LCV-112B - CLOSED 	<p>a. <u>IF</u> VCT level can <u>NOT</u> be maintained greater than 5%, <u>THEN</u> perform the following:</p> <ol style="list-style-type: none"> 1) Ensure charging pump suction aligned to RWST <ul style="list-style-type: none"> o LCV-112B open o LCV-112C closed 2) Continue with Step 24. <u>WHEN</u> VCT level greater than 40%, <u>THEN</u> do Step 23b. <p>b. Manually align valves as necessary.</p>
24	<p>Check PRZR Level - LESS THAN 87% [75% adverse CNMT]</p>	<p>Control charging and letdown as necessary to reduce PRZR level to less than 87% [75% adverse CNMT]. If necessary establish excess letdown.</p> <p><u>IF</u> no letdown available <u>AND</u> CCW to RCPs established, <u>THEN</u> cycle charging pumps as necessary to control PRZR level.</p>

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
	<p><u>NOTE:</u> For optimum long term pressure control, saturated conditions should be restored in the PRZR.</p>	
25	Verify PRZR Liquid Temperature (TI-424) - AT SATURATION FOR DESIRED PRESSURE	IF PRZR liquid temperature low, <u>THEN</u> energize PRZR heaters as necessary to establish desired temperature.
26	Check RCS Subcooling Based On Core Exit T/Cs - BETWEEN 0°F AND 10°F USING FIGURE MIN SUBCOOLING	<p>IF RCS pressure less than 160 psig [200 psig adverse CNMT], <u>THEN</u> go to Step 27. <u>IF NOT</u>, <u>THEN</u> depressurize using normal spray.</p> <p>IF normal spray <u>NOT</u> available and letdown is in service, <u>THEN</u> use auxiliary spray for any further depressurization. Return to Step 17b.</p> <p>IF auxiliary spray <u>NOT</u> available, <u>THEN</u> return to Step 17a.</p>
27	Check Cool Down Rate In RCS Cold Legs - GREATER THAN 100°F IN ANY 60 MINUTES PERIOD	Return to procedure and step in effect.
28	Maintain RCS Pressure And Temperature Stable For At Least 1 Hour	
	a. Control steam dump and feed flow as necessary	
	b. Perform actions of other procedures in effect which do not cool down the RCS or increase RCS pressure until the RCS temperature soak has been completed	



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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
29	<p><u>WHEN</u> 1 HOUR Soak Is Complete, <u>THEN</u> Continue RCS Cooldown And Depressurization As Necessary</p> <p>a. Maintain RCS pressure and cold leg temperature within the limits of Figure SOAK LIMITS</p> <p>b. Establish and maintain cooldown rate in RCS cold legs - LESS THAN 50°F IN ANY 60 MINUTES PERIOD</p>	
30	<p>Verify SI Flow Not Required:</p> <p>o RCS subcooling based on core exit T/Cs - GREATER THAN FIGURE MIN SUBCOOLING</p> <p>o RVLIS indication:</p> <p>o Level - GREATER THAN 68% [73% adverse CNMT]</p> <p>-OR-</p> <p>o Fluid fraction (any RCP running) - GREATER THAN 80%</p>	<p>Manually operate SI pumps as necessary.</p> <p><u>IF</u> RCS subcooling based on core exit T/Cs greater than Figure MIN SUBCOOLING and no RCP running, <u>THEN</u> perform the following:</p> <p>a. Establish conditions for starting an RCP:</p> <p>o Bus 11A or 11B energized</p> <p>o Refer to Attachment RCP START</p> <p>b. <u>IF</u> conditions established, <u>THEN</u> start one RCP.</p>



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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
31	Return To Procedure And Step In Effect	
		-END-



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FR-P.1 APPENDIX LIST

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5) ATTACHMENT CNMT RECIRC FANS	1
6) ATTACHMENT N2 PORVS	1
7) ATTACHMENT SI FLUSH	1

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TITLE:

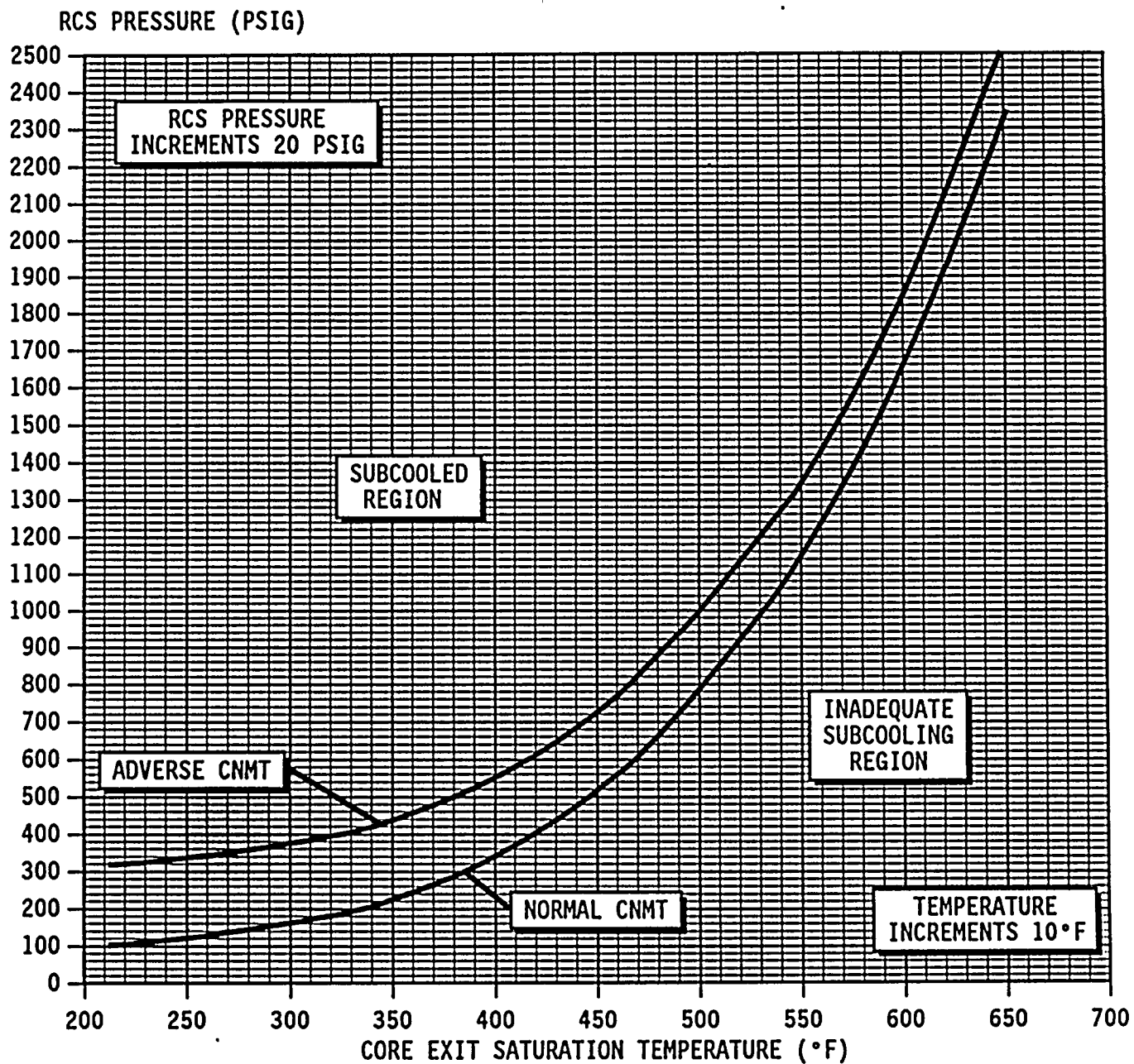
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FIGURE MIN SUBCOOLING

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





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FIGURE SOAK LIMITS