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ROCHESTER GAS AND ELECTRIC CORPORATION

GINNA STATION

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TECHNICAL REVIEW

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- A. PURPOSE - This procedure provides the necessary instructions for transferring the Safety Injection system and Containment Spray system to recirculation modes of operation.
- B. ENTRY CONDITIONS/SYMPTOMS
1. ENTRY CONDITIONS - This procedure may be entered from:
 - a. E-1, LOSS OF REACTOR OR SECONDARY COOLANT, or,
 - b. ECA-0.2, LOSS OF ALL AC POWER WITH SI REQUIRED; or,
 - c. ECA-2.1, UNCONTROLLED DEPRESSURIZATION OF ALL STEAM GENERATORS, or,
 - d. FR-C.1, RESPONSE TO INADEQUATE CORE COOLING, or,
 - e. FR-C.2, RESPONSE TO DEGRADED CORE COOLING, or,
 - f. FR-C.3, RESPONSE TO SATURATED CORE COOLING, or,
 - g. FR-H.1, RESPONSE TO LOSS OF SECONDARY HEAT SINK, or,
 - h. FR-Z.1, RESPONSE TO HIGH CONTAINMENT PRESSURE, on low RWST level.
 - i. Other procedures whenever RWST level reaches the switchover setpoint (28%).

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED

<u>CAUTION</u>		
	<ul style="list-style-type: none"> o INJECTION FLOW TO THE RCS SHALL BE MAINTAINED AT ALL TIMES. o 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. o CONSULT WITH HEALTH PHYSICS BEFORE DISPATCHING PERSONNEL TO AUXILIARY BUILDING. 	

<u>NOTE:</u>	<ul style="list-style-type: none"> o FOLDOUT page should be open and monitored periodically. o 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	Verify CNMT Sump B Level - GREATER THAN 113 INCHES	IF RWST level is less than 28% <u>AND</u> CNMT sump B level is less than 113 inches, <u>THEN</u> go to ECA-1.2, LOCA OUTSIDE CONTAINMENT, Step 1.
<u>NOTE:</u>	Steps 2 through 11 should be performed without delay. FR procedures should not be implemented prior to completion of these steps.	
2	Reset SI	

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
<p>NOTE: IF D/Gs supplying emergency AC busses, THEN non-essential loads may be shed as necessary to allow start of additional SW pumps.</p>		
<p>3 Establish Adequate SW Flow:</p>		
a.	Verify at least two SW pumps - RUNNING	<p>a. Start additional SW pumps as power supply permits (258 kw each). IF only 1 SW pump operable, THEN perform the following:</p> <ol style="list-style-type: none"> 1). Ensure Attachment MIN SW is complete. 2) Go to Step 4.
b.	<p>Verify AUX BLDG SW isolation valves - OPEN</p> <ul style="list-style-type: none"> • MOV-4615 and MOV-4734 • MOV-4616 and MOV-4735 	<p>b. Establish SW to AUX BLDG (Refer to Attachment AUX BLDG SW).</p>
c.	<p>Dispatch AO to verify total SW flow to CCW Hxs - GREATER THAN 5000 GPM</p>	<p>c. Perform the following:</p> <ol style="list-style-type: none"> 1) Isolate SW to screenhouse and air conditioning headers. <ul style="list-style-type: none"> • MOV-4609 and MOV-4780 • MOV-4663 and MOV-4733 2) Direct AO to locally adjust total SW flow to the CCW Hxs to between 5000 gpm and 6000 gpm (V-4619 and V-4620). 3) Direct AO to locally isolate SW return from SFP Hxs: <ul style="list-style-type: none"> • SFP Hx A (V-4622) • SFP Hx B (V-8689) 4) Verify SW portions of Attachment SD-1 are complete.

STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
4	Establish CCW flow to RHR Hxs:	
	a. Check both CCW pumps - RUNNING	a. Start CCW pumps as power supply permits (124 kw each).
	b. Manually open CCW valves to RHR Hxs	b. Dispatch AO to locally open valves.
	<ul style="list-style-type: none"> • MOV-738A • MOV-738B 	
***** <u>CAUTION</u> *****		
	o CONSULT WITH HEALTH PHYSICS BEFORE DISPATCHING PERSONNEL TO AUXILIARY BUILDING.	
	o THE RHR HX OUTLET VALVES (HCV-624 AND HCV-625) WILL FAIL OPEN ON LOSS OF INSTRUMENT AIR PRESSURE.	

5	Check RHR Flow:	Manually adjust RHR Hx outlet valves equally to reduce flow to less than 1500 gpm per operating pump.
	o Both RHR pumps - RUNNING	
	o RHR flow (FI-626) - LESS THAN 1500 GPM PER OPERATING PUMP	<ul style="list-style-type: none"> • RHR Hx B, HCV-624 • RHR Hx A, HCV-625
		IF flow can <u>NOT</u> be reduced manually, <u>THEN</u> dispatch an AO to locally adjust RHR Hx outlet manual valves equally to reduce flow.
		<ul style="list-style-type: none"> • RHR Hx B, V-715 • RHR Hx A, V-717

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
***** CAUTION *****		
ANY PUMPS TAKING SUCTION FROM RWST SHOULD BE STOPPED UPON REACHING RWST LO-LO LEVEL ALARM. *****		
6	Check IF Unnecessary Pumps Can Be Stopped:	
	a. Three SI pumps - RUNNING	a. Go to Step 6c.
	b. Stop SI pump C and place both switches in PULL STOP	
	c. Both CNMT spray pumps - RUNNING	c. Pull stop any idle CNMT spray pump and go to Step 6e.
	d. Pull stop one CNMT spray pump	
	e. Stop both RHR pumps and place in PULL STOP	

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
7	Verify RHR System Alignment:	
a.	Verify the following valves - CLOSED <ul style="list-style-type: none"> o RHR suction valves from loop A hot leg <ul style="list-style-type: none"> • MOV-700 • MOV-701 o RHR discharge valves to loop B cold leg <ul style="list-style-type: none"> • MOV-720 • MOV-721 	a. Ensure at least one suction valve and one discharge valve closed.
b.	Verify RHR pump suction crosstie valves - OPEN <ul style="list-style-type: none"> • MOV-704A • MOV-704B 	b. Manually open valves. If valves can <u>NOT</u> be opened, <u>THEN</u> dispatch AO to locally open valves.
c.	Verify the following valves - OPEN <ul style="list-style-type: none"> o RHR pump discharge to Rx vessel deluge valves <ul style="list-style-type: none"> • MOV-852A • MOV-852B o RHR suction from sump B (inside CNMT) <ul style="list-style-type: none"> • MOV-851A • MOV-851B 	c. Ensure at least one valve in each set open.
d.	Verify RCDT pump suction valves from sump B - CLOSED <ul style="list-style-type: none"> • MOV-1813A • MOV-1813B 	d. Manually close valves.



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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
***** CAUTION *****		
RHR FLOW INDICATED ON FI-626 SHOULD BE LIMITED TO 1500 GPM PER OPERATING PUMP TO ENSURE OPTIMUM PUMP PERFORMANCE. *****		
8	Initiate RHR Sump Recirculation:	
	a. Close RWST outlet valve to RHR pump suction, MOV-856 (turn on DC power key switch)	a. Dispatch AO to locally close valve and continue with Step 8b.
	b. Open both RHR suction valves from sump B (outside CNMT)	b. <u>IF</u> two RHR pump suction paths from sump B can <u>NOT</u> be established, <u>THEN</u> perform the following:
	o MOV-850A - OPEN	1) Initiate only one train of RHR recirculation (Refer to Attachment RHR NPSH for further guidance).
	o MOV-850B - OPEN	2) Go to Step 9.
	c. Start both RHR pumps	
	d. Verify at least one RHR pump - RUNNING	d. <u>IF</u> no RHR pump can be started, <u>THEN</u> go to ECA-1.1, LOSS OF EMERGENCY COOLANT RECIRCULATION, Step 1.



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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
<p><u>NOTE:</u> The TSC should be requested to establish periodic monitoring of the AUX BLDG sub-basement, as radiological conditions permit, to monitor RHR pump operation.</p>		
9	Check RWST Level - LESS THAN 15%	DO NOT continue with this procedure until RWST level is less than 15%.
10	Stop All Pumps Supplied From RWST:	
	a. Stop all SI pumps and place in PULL STOP	
	b. Stop all charging pumps	
	c. Stop operating CNMT spray pump and place in PULL STOP	
	d. Check CNMT pressure - LESS THAN 28 PSIG	d. Go to Step 11.
	e. Reset CNMT spray if necessary	
	f. Close CNMT spray pump discharge valves	
	<ul style="list-style-type: none"> • MOV-860A • MOV-860B • MOV-860C • MOV-860D 	



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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
11	Align SI And CNMT Spray For Sump Recirculation:	
a.	Verify SI pump suction valves from BASTs - CLOSED <ul style="list-style-type: none"> • MOV-826A and MOV-826B • MOV-826C and MOV-826D 	a. Ensure at least one valve in each flowpath closed. .
b.	Close and verify closed RWST outlet valves to SI and CNMT spray pumps (turn on DC power key switches) <ul style="list-style-type: none"> • MOV-896A • MOV-896B 	b. Ensure at least one valve closed.
c.	Close and verify closed SI pump RECIRC valves <ul style="list-style-type: none"> • MOV-898 • MOV-897 	c. Ensure at least one valve closed.
d.	Verify SI pump suction valves from RWST - OPEN <ul style="list-style-type: none"> • MOV-825A • MOV-825B 	d. Ensure at least one valve open.
e.	Open and verify open RHR Hx outlet valves to SI and CNMT spray pump suction <ul style="list-style-type: none"> • MOV-857A • MOV-857B • MOV-857C 	e. Ensure at least one RHR pump(s) aligned to SI and CS pump suction header (Refer to Attachment RHR SYSTEM).

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
***** CAUTION *****		
SI PUMPS SHOULD BE STOPPED IF RCS PRESSURE IS GREATER THAN THEIR SHUTOFF HEAD PRESSURE.		

NOTE: Operation of SI pump C is preferred since it delivers to both RCS loops.		
12	Verify Adequate RCS Makeup Flow:	
	a. RCS pressure - LESS THAN 225 psig [425 psig adverse CNMT]	a. Perform the following: 1) Check RCS conitions: o RCS subcooling based on core exit T/Cs greater than Figure MIN SUBCOOLING. o PRZR level greater than 5% [30% adverse CNMT]. IF either condition NOT met, THEN start one SI pump. 2) Go to Step 13.
	b. RHR injection flow adequate: o Core exit T/Cs - LESS THAN REQUIREMENTS OF FIGURE RHR INJECTION o Check RVLIS level (no RCPS) - GREATER THAN 43% [46% adverse CNMT]	b. Start one SI pump.



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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
<p>***** <u>CAUTION</u> IF A CNMT SPRAY PUMP IS STARTED, THEN CNMT PRESSURE SHOULD BE CLOSELY MONITORED. CNMT PRESSURE SHOULD NOT BE REDUCED TO LESS THAN 32 PSIG. *****</p>		
13	<p>Check If CNMT Spray Is Required:</p> <p>a. CNMT pressure - GREATER THAN 37 PSIG</p> <p>b. Verify open CNMT spray pump discharge valves</p> <ul style="list-style-type: none"> • MOV-860A • MOV-860B • MOV-860C • MOV-860D <p>c. Start selected CNMT spray pump</p> <p>d. Open NaOH tank outlet valves for running pump</p> <ul style="list-style-type: none"> • CS pump A, AOV-836A • CS pump B, AOV-836B <p>e. <u>WHEN</u> CNMT pressure decreases to 32 psig, <u>THEN</u> PULL STOP CNMT spray pump</p>	<p>a. Perform the following:</p> <p>1) <u>IF</u> CNMT spray previously actuated and NaOH tank level greater than 55%, <u>THEN</u> consult TSC to determine if CNMT spray should be restarted.</p> <p>2) Go to Step 14.</p> <p>b. Manually open valve(s) for selected pump.</p> <ul style="list-style-type: none"> • CS pump A, MOV-860A or MOV-860B • CS pump B, MOV-860C or MOV-860D

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
14	Verify Adequate Core Cooling:	
	<ul style="list-style-type: none"> Core exit T/Cs - STABLE OR DECREASING RVLIS level (no RCPs) - STABLE OR INCREASING RVLIS level (no RCPs) - GREATER THAN 43% [46% adverse CNMT] 	<p><u>IF</u> both RHR pumps running, <u>THEN</u> ensure two SI pumps running.</p> <p><u>IF</u> only one RHR pump running, <u>THEN</u> perform the following:</p> <ul style="list-style-type: none"> a. Ensure one SI pump running. b. <u>WHEN</u> CNMT spray pumps stopped, <u>THEN</u> start one additional SI pump.
<p>*****</p> <p style="text-align: center;"><u>CAUTION</u></p> <p>IF CST LEVEL DECREASES TO LESS THAN 5 feet, THEN ALTERNATE WATER SOURCES FOR AFW PUMPS WILL BE NECESSARY (REFER TO ER-AFW.1, ALTERNATE WATER SUPPLY TO AFW PUMPS).</p> <p>*****</p>		
<p><u>NOTE:</u> TDAFW pump flow control valves fail open on loss of IA.</p>		
*15	Monitor Intact S/G Levels:	
	<ul style="list-style-type: none"> a. Narrow range level - GREATER THAN 5% [25% adverse CNMT] b. Control feed flow to maintain narrow range level between 17% [25% adverse CNMT] and 50% 	<ul style="list-style-type: none"> a. Maintain total feed flow greater than 200 gpm until narrow range level greater than 5% [25% adverse CNMT] in at least one S/G.

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
16	Establish Normal Shutdown Alignment:	
	a. Check condenser - AVAILABLE	a. Dispatch AO to perform Attachment SD-2.
	b. Perform the following:	
	o Open generator disconnects	
	• 1G13A71	
	• 9X13A73	
	o Place voltage regulator to OFF	
	o Open turbine drain valves	
	o Rotate reheater steam supply controller cam to close valves	
	o Place reheater dump valve switches to HAND	
	o Stop all but one condensate pump	
	c. Verify adequate Rx head cooling:	
	1) Check IA to CNMT - AVAILABLE	1) Go to Step 16d.
	2) Verify at least one control rod shroud fan - RUNNING	2) Manually start one fan as power supply permits (45 kw)
	3) Verify one Rx compartment cooling fan - RUNNING	3) Perform the following:
		o Dispatch AO to reset UV relays at MCC C and MCC D.
		o Manually start one fan as power supply permits (23 kw)
	d. Verify Attachment SD-1 - COMPLETE	

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
17	<p>Check If Emergency D/Gs Should Be Stopped:</p> <ul style="list-style-type: none"> a. Verify AC emergency busses energized by offsite power: <ul style="list-style-type: none"> o Emergency D/G output breakers - OPEN o AC emergency bus voltage - GREATER THAN 420 VOLTS o AC emergency bus normal feed breakers - CLOSED b. Stop any unloaded emergency D/G and place in standby (Refer to Attachment D/G STOP) 	<ul style="list-style-type: none"> a. Try to restore offsite power (Refer to ER-ELEC.1, RESTORATION OF OFFSITE POWER).

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
18	Check If SI ACCUMs Should Be Isolated:	
	<p>a. Both RCS hot leg temperatures - LESS THAN 400°F</p> <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"> • ACCUM A, MOV-841 • ACCUM B, MOV-865 <p>d. Locally reopen breakers for MOV-841 and MOV-865</p>	<p>a. Continue with Step 19. <u>WHEN</u> both RCS hot leg temperatures less than 400°F, <u>THEN</u> do Steps 18b through d.</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.



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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
<p>*****</p> <p style="text-align: center;"><u>CAUTION</u></p> <p>IF FUEL DAMAGE IS SUSPECTED, MAINTAIN S/G PRESSURE SLIGHTLY GREATER THAN RCS PRESSURE.</p> <p>*****</p>		
19	<p>Check If Intact S/Gs Should Be Depressurized To RCS Pressure:</p> <ul style="list-style-type: none"> a. RCS pressure - LESS THAN INTACT S/G PRESSURES b. Check S/G radiation - NORMAL <ul style="list-style-type: none"> o Steamline Monitors (R-31, R-32) o Direct HP to sample S/Gs for activity c. Dump steam to condenser from intact S/G(s) until S/G pressure less than RCS pressure 	<ul style="list-style-type: none"> a. Go to Step 20. b. Do <u>NOT</u> dump steam from a S/G with high radiation. Isolate feed flow to a S/G with high radiation. c. <u>IF</u> steam dump to condenser <u>NOT</u> available, <u>THEN</u> dump steam using intact S/G ARVs until S/G pressure less than RCS pressure.
20	<p>Consult TSC to Determine If Rx Vessel Head Should Be Vented</p>	

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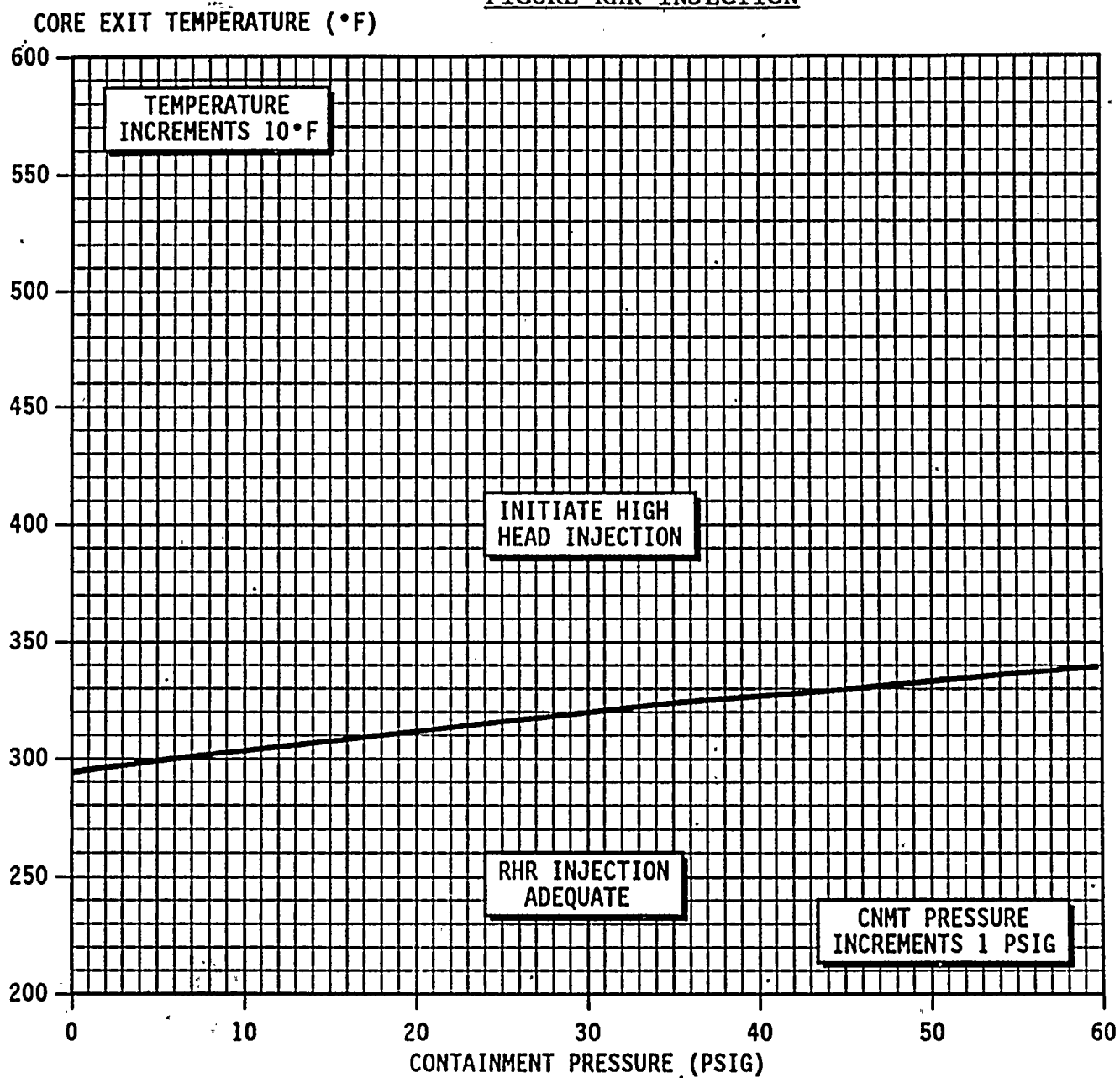
STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
<p><u>NOTE:</u> This procedure should be continued while obtaining CNMT hydrogen sample in Step 21.</p>		
21	<p>Check CNMT Hydrogen Concentration:</p> <p>a. Direct HP to start CNMT hydrogen monitors as necessary</p> <p>b. Hydrogen concentration - LESS THAN 0.5%</p>	<p>b. Consult TSC to determine if hydrogen recombiners should be placed in service.</p>
<p><u>NOTE:</u> The TSC should be consulted before changing recirculation lineups.</p>		
22	<p>Check Event Duration - GREATER THAN 19 HOURS AFTER EVENT INITIATION</p>	<p>Consult TSC to evaluate long term plant status.</p>
23	<p>Place CNMT Spray Pumps In PULL STOP</p>	
24	<p>Verify Two SI Pumps - RUNNING</p>	<p>Manually start pumps.</p>
25	<p>Check Core Exit T/Cs - LESS THAN REQUIREMENTS OF FIGURE RHR INJECTION</p>	<p>Perform the following:</p> <p>a. Manually open both PRZR PORVs and block valves.</p> <p>b. Verify core exit T/Cs decreasing to less than requirements of Figure RHR INJECTION. <u>IF NOT, THEN</u> dump steam from intact S/Gs until core exit T/Cs less than required.</p>

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FIGURE RHR INJECTION





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FOLDOUT PAGE

1. SI REINITIATION CRITERIA

IF EITHER condition listed below occurs, THEN operate SI pumps manually as necessary:

- o Core exit TCs - GREATER THAN REQUIREMENTS OF FIGURE RHR INJECTION

OR

- o RVLIS level - LESS THAN 43% [46% adverse CNMT]

2. AFW SUPPLY SWITCHOVER CRITERION

IF CST level decreases to less than 5 feet, THEN switch to alternate AFW water supply (Refer to ER-AFW.1, ALTERNATE WATER SUPPLY TO AFW PUMPS).

