

EOP: AP-RCP.1	TITLE: RCP SEAL MALFUNCTION	REV: 11 PAGE 1 of 10
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ROCHESTER GAS AND ELECTRIC CORPORATION

GINNA STATION

CONTROLLED COPY NUMBER 23

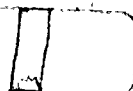
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8-5-97
EFFECTIVE DATE

CATEGORY 1.0

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- A. PURPOSE - This procedure provides the instructions necessary to diagnose and to respond to a reactor coolant pump seal malfunction.
- B. ENTRY CONDITIONS/SYMPTOMS
 1. ENTRY CONDITIONS - This procedure is entered from:
 - a. E-3, STEAM GENERATOR TUBE RUPTURE, or
 - b. ES-1.1, SI TERMINATION, or
 - c. ES-1.2, POST LOCA COOLDOWN AND DEPRESSURIZATION, or
 - d. ECA-0.1, LOSS OF ALL AC POWER RECOVERY WITHOUT SI REQUIRED, or
 - e. ECA-2.1, UNCONTROLLED DEPRESSURIZATION OF BOTH STEAM GENERATORS, or
 - f. ECA-3.1, SGTR WITH LOSS OF REACTOR COOLANT-SUBCOOLED RECOVERY DESIRED, or
 - g. ECA-3.2, SGTR WITH LOSS OF REACTOR COOLANT-SATURATED RECOVERY DESIRED, or
 - h. ECA-3.3, SGTR WITHOUT PRESSURIZER PRESSURE CONTROL, or
 - i. FR-I.1, RESPONSE TO HIGH PRESSURIZER LEVEL, when RCP seal malfunction is indicated.
 2. SYMPTOMS - The symptoms of RCP SEAL MALFUNCTION are;
 - a. Annunciator B-17(18), RCP A(B) No.1 SEAL HI-LO FLOW 5.0 GPM 1.0 , lit, or
 - b. Annunciator B-9(10), RCP A(B) LABYR SEAL LO DIFF PRESS 15" H2O, lit, or
 - c. Annunciator B-3(4), RCP A(B) STAND PIPE HI LEVEL + 1 FT, lit, or

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2. SYMPTOMS (cont)

- d. Annunciator B-11(12), RCP A(B) STAND PIPE LO LEVEL -4 FT, lit, or
- e. Annunciator B-25(26), RCP A(B) No. 1 SEAL LO DIFF PRESS 220 PSID, lit, or
- f. Annunciator B-1(2), RCP A(B) No. 1 SEAL OUT HI TEMP 200°F, lit, or,
- g. Annunciator A-7(15), RCP A(B) CCW RETURN HIGH TEMP OR LOW FLOW, lit.

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
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CAUTION

- o IF, AT ANY TIME DURING THIS PROCEDURE, A REACTOR TRIP OR SI OCCURS, E-0, REACTOR TRIP OR SAFETY INJECTION, SHALL BE PERFORMED.
- o IF ANY RCP IS TRIPPED, THEN SHUTDOWN MARGIN REQUIREMENTS SHOULD BE VERIFIED (REFER TO O-3.1, BORON CONCENTRATION FOR XENON FREE ALL RODS IN MOST REACTIVE ROD STUCK OUT SHUTDOWN MARGIN).
- o IF A RCP IS SECURED BECAUSE OF A SEAL MALFUNCTION, IT SHOULD NOT BE RESTARTED UNTIL THE CAUSE OF THE MALFUNCTION HAS BEEN DETERMINED AND CORRECTED.

NOTE: o If a Reactor trip is initiated while performing Step 1, transition to E-0 should occur while completing subsequent actions of the step.

- o Total #1 Seal Flow is defined as the sum of indicated #1 Seal Leakoff Flow and RCDT leak rate (PPCS Point ID L1003, 3.2 gal/% in the normal operating range).

1 Check Total #1 Seal Leakoff
Flows - LESS THAN 8.0 GPM

IF a #1 Seal Failure is verified by a decrease in Labyr Seal Diff Pressure OR increasing Seal Inlet/Outlet temps, THEN perform the following:

- a. IF reactor trip breakers closed, THEN trip the reactor.
- b. Trip the affected RCP(s).
- c. Allow 4 minutes for pump coast down, THEN close affected RCP(s) seal disch valve.
 - RCP A, AOV-270A
 - RCP B, AOV-270B
- d. IF reactor trip was NOT required, THEN go to Step 4.

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
2	<p>Check RCP Seal Return Valve Alignment:</p> <p>a. RCP seal return isolation valve, MOV-313 - OPEN</p> <p>b. Verify RCP seal disch valves - OPEN</p> <ul style="list-style-type: none"> • RCP A, AOV-270A • RCP B, AOV-270B 	<p>a. Perform the following:</p> <ol style="list-style-type: none"> 1) Ensure CI reset. 2) Ensure both trains of XY relays for RCP seal return isolation valve, MOV-313, reset. 3) Open RCP seal return isolation valve, MOV-313. <p><u>IF</u> MOV-313 can <u>NOT</u> be opened, <u>THEN</u> dispatch AO to AUX BLDG with RWST area key to check valve and breaker locally (breaker MCC C position 13J).</p> <p>b. Manually open valves. <u>IF</u> valves can <u>NOT</u> be opened, <u>THEN</u> verify IA aligned to CNMT and go to Step 3.</p>

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
<p><u>NOTE:</u></p> <ul style="list-style-type: none"> o If a reactor trip is initiated while performing Step 3, transition to E-0 should occur while completing subsequent actions of the step. o The 0.8 GPM limit for #1 seal flow applies when the RCS is at normal operating pressure. Refer to Figure RCP SEAL LEAKOFF and consult plant staff for guidance if the RCS is at reduced pressure. 		
3	<p>Check <u>Total</u> #1 Seal Flow - BETWEEN 0.8 GPM AND 6.0 GPM</p>	<p><u>IF</u> #1 Seal Inlet and Outlet temperatures are increasing, <u>THEN</u> perform the following:</p> <ul style="list-style-type: none"> a. <u>IF</u> reactor trip breakers closed, <u>THEN</u> trip the reactor. b. Trip the affected RCP(s). c. Allow 4 minutes for pump coast down, <u>THEN</u> close affected RCP(s) seal disch valve. <ul style="list-style-type: none"> • RCP A, AOV-270A • RCP B, AOV-270B <p><u>IF</u> #1 Seal Inlet and Outlet temperatures are stable, <u>THEN</u> perform the following while continuing with this procedure.</p> <ul style="list-style-type: none"> o <u>IF</u> total #1 Seal Flow greater than 6.0 gpm, <u>THEN</u> maintain seal injection flow rate of 9.0 GPM or greater to the affected RCP. o <u>IF</u> <u>total</u> #1 Seal flow exceeds 8.0 GPM <u>OR</u> Seal Inlet/Outlet temperatures begin to increase, <u>THEN</u> return to Step 1. o Prepare for orderly pump shutdown by placing the plant in Hot Shutdown using O-2.1, NORMAL SHUTDOWN TO HOT SHUTDOWN. o Secure the affected RCP with 8 hours.

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
<p><u>NOTE:</u> Attachment RCP DIAGNOSTICS may be used to aid in diagnosis.</p>		
4	Check RCP Cooling:	Perform the following:
	<ul style="list-style-type: none"> o Annunciator A-7, RCP A CCW RETURN HIGH TEMP OR LOW FLOW - EXTINGUISHED o Annunciator A-15, RCP B CCW RETURN HIGH TEMP OR LOW FLOW - EXTINGUISHED 	<ul style="list-style-type: none"> a. Verify RCP CCW supply and return valves open. <ul style="list-style-type: none"> • RCP A, MOV-749A and MOV-759A • RCP B, MOV-749B and MOV-759B b. Ensure open CCW outlet valves from RCP thermal barriers. <ul style="list-style-type: none"> • RCP A, AOV-754A • RCP B, AOV-754B
5	Check RCP #2 Seal Indications:	<u>IF</u> affected RCP #1 seal leakoff flow decreasing, <u>THEN</u> failure of #2 seal may be indicated. Continue plant operation while closely monitoring RCP seal indications.
	<ul style="list-style-type: none"> o Annunciator B-3, RCP A STANDPIPE HI LEVEL +1 FT - EXTINGUISHED o Annunciator B-4, RCP B STANDPIPE HI LEVEL +1 FT - EXTINGUISHED 	

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STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

CAUTION REDUCING CHARGING FLOW WILL RESULT IN INCREASING REGEN HX OUTLET TEMPERATURE.

6 Check RCP Labyrinth Seal D/Ps
- GREATER THAN 15 INCHES OF
WATER

Perform the following:

- a. Ensure open CCW outlet valves from RCP thermal barriers.
 - RCP A, AOV-754A
 - RCP B, AOV-754B
- b. Verify seal injection flow greater than 5 GPM for affected RCP.
- c. Adjust HCV-142 as necessary.
- d. Dispatch AO to check seal injection filter D/P.
- e. Check CCW surge tank level stable. IF level increasing, THEN go to AP-CCW.1, LEAKAGE INTO THE COMPONENT COOLING LOOP.

7 Check RCP #3 Seal Indications:

Check CNMT radiation monitors normal.

- o Annunciator B-11, RCP A STAND
PIPE LO LEVEL -4FT - EXTINGUISHED
- o Annunciator B-12, RCP B STAND
PIPE LO LEVEL -4FT - EXTINGUISHED

- R-11
- R-12

IF RCP standpipe level low and CNMT radiation increasing, THEN # 3 seal leakage increase is probable. Continue plant operation while closely monitoring RCP seal indications.

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STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

NOTE: In the absence of other seal failure indications, an elevated #1 seal outlet temperature may indicate pump bearing damage.

*** 8 Monitor Plant Conditions:**

a. RCP #1 seal flow

- o Total #1 seal leakoff flow - LESS THAN 6.0 GPM
- o Total #1 seal flow - GREATER THAN 0.8 GPM

b. RCP #1 Seal Flow - WITHIN THE NORMAL OPERATING RANGE OF FIGURE RCP SEAL LEAKOFF

c. RCP #1 seal outlet temperatures - LESS THAN 215° AND STABLE

d. RCS leakage - NORMAL (Refer to leakage surveillance sheet)

a. IF affected RCP running, THEN return to Step 1. IF NOT, THEN perform the following:

- 1) Monitor affected RCP (Refer to Attachment RCP DIAGNOSTICS).
- 2) Consult Plant Staff to determine if cooldown required.

b. Perform the following:

- o Ensure seal injection flow exceeds #1 seal leakoff flow.
- o Refer to S-2.1, Reactor Coolant Pump Operation.
- o Consult plant staff for further instructions.

c. IF pump bearing damage is suspected, THEN notify plant staff and expedite shutdown of the affected RCP. IF NOT, THEN return to Step 1.

d. Perform the following:

- 1) Calculate RCS leakrate.
- 2) Refer to ITS section 3.4.13.

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
<p><u>NOTE:</u> Refer to 0-9.3, NRC IMMEDIATE NOTIFICATION, for reporting requirements.</p> <p>9 Notify Higher Supervision</p> <p>-END-</p>		

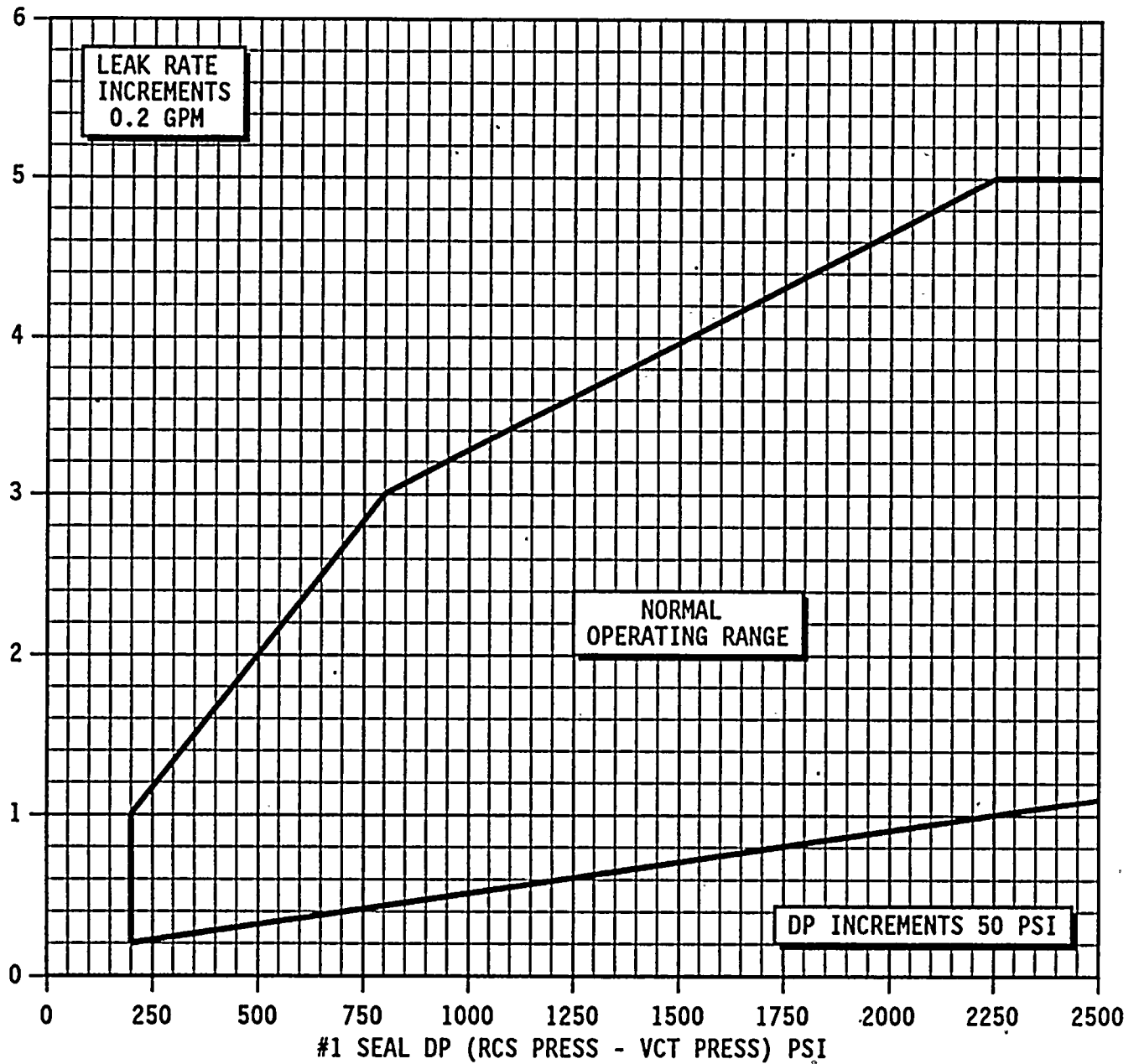
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AP-RCP.1 APPENDIX LIST

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2) ATTACHMENT RCP DIAGNOSTICS	1

FIGURE RCP SEAL LEAKOFF

#1 SEAL LEAK RATE (GPM)



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ROCHESTER GAS AND ELECTRIC CORPORATION

GINNA STATION

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TECHNICAL REVIEW


RESPONSIBLE MANAGER

9-14-95
EFFECTIVE DATE

CATEGORY 1.0

REVIEWED BY: _____

EOP: AP-TURB.5	TITLE: RAPID LOAD REDUCTION	REV: 1 PAGE 2 of 11
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A. PURPOSE -

B. ENTRY CONDITIONS/SYMPTOMS

1. ENTRY CONDITIONS - This procedure is entered from

a. The SS has determined that a rapid load reduction is required.

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
<p>*****</p> <p style="text-align: center;"><u>CAUTION</u></p> <p>o IF AT ANY TIME DURING THIS PROCEDURE, A REACTOR TRIP OR SI OCCURS, THEN E-0, REACTOR TRIP OR SAFETY INJECTION, SHALL BE PERFORMED.</p> <p>o IF MAIN FEEDWATER FLOW SHOULD DECREASE TO 25% OF FULL POWER VALUE (.825 E+6 LBM/HR) PRIOR TO THE AMSAC SYSTEM AUTOMATICALLY BLOCKING, THEN A TURBINE TRIP AND AUX FEED PUMPS START COULD RESULT.</p> <p>*****</p> <p><u>NOTE:</u> o This procedure is intended for use when the required load reduction rate is > 1%/min.</p> <p>o A maximum continuous load reduction rate of > 5%/min would not normally be used unless otherwise directed by the Shift Supervisor.</p>		
* 1	Initiate Load Reduction	
a.	Verify ROD CONTROL BANK SELECTOR SWITCH is in AUTOMATIC	<p>a. <u>IF</u> Auto Rod Control is inoperable <u>OR</u> Manual Control is desired, <u>THEN</u> perform the following:</p> <p>1) Place ROD CONTROL BANK SELECTOR SWITCH to MANUAL.</p> <p>2) Insert Rods as necessary to match Tavg and Tref.</p>
b.	Reduce turbine load using Auto Turbine EH Control if desired	<p>b. <u>IF</u> Auto Control is inoperable <u>OR</u> Manual Control is desired, <u>THEN</u> reduce turbine load in manual as desired.</p>
	<p>1) Select desired rate on thumbwheel</p> <p>2) Reduce the setter to the desired load</p> <p>3) Depress the GO button</p>	
c.	Verify Steam Dump operating in auto, as required	<p>c. Place Steam Dump in manual and operate as necessary.</p>

STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

CAUTION

EXTREME AND RAPID ROD MOTION TO MITIGATE TAVG SWINGS MAY RESULT IN LARGE
POWER EXCURSIONS AND SHOULD BE AVOIDED.

2 Monitor RCS Tavg

- o Tavg - GREATER THAN 545°F
- o Tavg - LESS THAN 578°F

Verify AUTO control rod motion as
required. IF NOT, THEN place rod
control bank selector switch to
MANUAL and adjust control rods as
necessary.

IF Tavg is outside limits AND
CANNOT be controlled, THEN trip the
reactor and go to E-0, REACTOR TRIP
OR SAFETY INJECTION.

NOTE: A thumb rule for initial boron addition is ~2 gal/% load reduction.

3 Add Boric Acid As Necessary
To:

- o Maintain or return Δ Flux to the
target band
- o Maintain control rods above
insertion limits
- o Match Tavg and Tref
- o Compensate for xenon

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
<p><u>NOTE:</u> It is permissible to operate RCPs for limited periods without seal injection, provided CCW is being supplied to the thermal barriers.</p>		
4	<p>Check IA Available To CNMT</p> <ul style="list-style-type: none"> o IA pressure - > 60 psig o Instr Air to CNMT Isol Valve, AOV-5392 - OPEN 	<p>Control PRZR level and pressure and follows:</p> <ul style="list-style-type: none"> o Adjust load reduction rate o Ensure control rods are moving to control Tavg o Secure charging pumps if necessary o Operate proportional and backup heaters as required
5	<p>Monitor Plant Parameters - CONTROLLING AT OR TRENDING TO PROGRAM VALUES</p> <ul style="list-style-type: none"> • PRZR Pressure • PRZR Level • S/G Level 	<p><u>IF</u> any parameter is approaching a trip setpoint <u>AND</u> CANNOT be controlled, <u>THEN</u> trip the reactor and go to E-0, REACTOR TRIP OR SAFETY INJECTION.</p>
<p><u>NOTE:</u> The load reduction should not be delayed to perform the remaining steps.</p>		
6	<p>Check If Condensate Booster Pumps Should Be Secured</p> <ul style="list-style-type: none"> a. Power < 65% <u>OR</u> Trim Valve V-9508G indicates > 80% open b. Place the auto condensate booster pump to the trip position c. Stop one condensate booster pump d. <u>WHEN</u> the condensate system stabilizes, <u>THEN</u> stop the remaining condensate booster pump 	<p>a. Go to Step 13.</p>

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
7	<p>Check If One MFW Pump Should Be Secured</p> <ul style="list-style-type: none"> a. Power < 50% b. Verify at least one MFWP Seal Booster pump in service c. Two MFW Pumps running d. Close discharge valve for the pump to be secured <ul style="list-style-type: none"> • MFW Pump A - MOV-3977 • MFW Pump B - MOV-3976 e. Stop the desired MFW Pump f. Close the secured MFW pump recirc valve by placing the control switch in pull stop g. Close the service water block valve to the secured MFW pump oil cooler <ul style="list-style-type: none"> • MFW Pump A - V-4701 • MFW Pump B - V-4702 	<ul style="list-style-type: none"> a. Go to Step 13. b. Notify AO to start one MFWP Seal Booster pump c. Go to Step 8.
8	<p>Verify Trim Valves Controlling Condensate System Pressure in Auto (300-375 PSIG)</p>	<p>Place controller in manual and adjust pressure as necessary</p>

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
9	Check AMSAC System Status	
	a. Power < 35% (~150 psig first stage pressure)	a. Go to Step 13.
	b. Verify AMSAC Auto Block Status Light is ON	b. Place AMSAC Manual Block switch to the BLOCK position
10	Check Heater Drain Tank Pump Status	
	a. Generator load < 175 MWe	a. Go to Step 13.
	b. Stop one Heater Drain Tank Pump	
	c. <u>WHEN</u> Heater Drain Tank level control is stable, <u>THEN</u> stop the second Heater Drain Tank Pump	
11	Check FW Flow Bypass Vlv Status	
	a. Power < 30%	a. Go to Step 13.
	b. FW Flow Bypass Vlv in AUTO	b. Perform the following:
	<ul style="list-style-type: none"> • HCV-480 • HCV-481 	1) Slowly open the FW Flow Bypass Vlv while verifying the associated FW Reg Vlv compensates by closing slightly 2) Place FW Flow Bypass Vlv in AUTO

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
12	Align Systems For Low Power Operation	
a.	Power < 30%	a. Go to Step 13.
b.	Place AOV-3959, CNDST Bypass Vlv to CLOSE	
c.	Place LC-107, Hotwell Level Control, to MANUAL	
d.	Generator load < 100 MWe	d. Go to Step 13.
e.	Open turbine drain valves	
13	Evaluate Plant Status	
a.	Power stable at desired level	<p>a. <u>IF</u> power > 20% and further reduction is required, <u>THEN</u> continue load reduction and return to Step 6.</p> <p><u>IF</u> power < 20% and further reduction is required, <u>THEN</u> refer to procedure O-2.1, NORMAL SHUTDOWN TO HOT SHUTDOWN.</p>

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
14	Establish Stable Plant Conditions:	
a.	Tavg - TRENDING TO TREF	a. Perform the following: <ol style="list-style-type: none"> 1) Verify AUTO control rod motion as required. <u>IF NOT</u>, <u>THEN</u> place rod control bank selector switch to MANUAL and adjust control rods as necessary. 2) Borate if required for power reduction.
b.	PRZR pressure - TRENDING TO 2235 PSIG	b. Verify proper operation of PRZR heaters and spray <u>OR</u> take manual control of PRZR pressure controller 431K. <u>IF</u> PRZR pressure can <u>NOT</u> be controlled, <u>THEN</u> refer to AP-PRZR.1, ABNORMAL PRESSURIZER PRESSURE.
c.	PRZR level - TRENDING TO PROGRAM	c. Verify proper operation of charging pump speed controllers <u>OR</u> take manual control of speed controllers to control PRZR level.
d.	Rod insertion limit alarms - EXTINGUISHED	d. Borate as necessary and withdraw control rods to clear insertion limit alarms (refer to affected rod bank alarm response procedures if necessary).
e.	Narrow range S/G levels - TRENDING TO PROGRAM LEVEL	e. Ensure MFW regulating valves controlling in AUTO, <u>OR</u> control feedwater in MANUAL.

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
15	Establish Normal Plant Conditions:	
a.	Verify EH control in OPER PAN and IMP IN	a. <u>IF</u> conditions requiring manual operation have cleared, <u>THEN</u> place EH in OPER PAN and IMP IN.
b.	Verify steam dump controller, HC-484, in AUTO at 1005 psig	
c.	Verify annunciator G-15, STEAM DUMP ARMED - EXTINGUISHED	c. <u>IF</u> Tavg within 6°F of Tref, <u>THEN</u> perform the following: 1) Ensure steam dump valves closed. 2) Reset steam dump.
d.	Verify PRZR pressure control in AUTO	d. Place PRZR pressure control in AUTO as desired. • 431K master controller • PRZR spray valve controllers • PRZR heater controllers
e.	Verify PRZR level control in AUTO	e. Place one charging pump speed controller in AUTO if desired.
f.	Verify Rod Control Selector Switch in AUTO	f. Place Rod Control Selector Switch in AUTO if desired.
<u>NOTE:</u> Refer to O-9.3, NRC IMMEDIATE NOTIFICATION, for reporting requirements.		
16	Notify Higher Supervision	

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STEP	ACTION/EXPECTED RESPONSE	RESPONSE NOT OBTAINED
17	Refer to O-5.1, LOAD REDUCTIONS, for additional guidance	
18	Return To Procedure Or Guidance In Effect	
-END-		

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Superintendent B. M. L.

Date 7-26-94

A) The following conditions must be met to place either normal or excess letdown in service:

- o IA to CNMT - ESTABLISHED
- o CCW - IN SERVICE
- o PRZR level - GREATER THAN 13%

B) Establish Normal Letdown:

1. Establish charging line flow to REGEN Hx - GREATER THAN 20 gpm.
2. Place the following switches to CLOSE:
 - o Letdown orifice valves (AOV-200A, AOV-200B, and AOV-202)
 - o AOV-427, loop B cold leg to REGEN Hx
3. Place letdown controllers in MANUAL at 40% open:
 - o Temperature control valve, TCV-130
 - o Pressure control valve, PCV-135
4. Verify AOV-371, letdown isolation valve - OPEN.
5. Open loop B cold leg to REGEN Hx, AOV-427.
6. Open one 40 gpm letdown orifice valve (AOV-200A or AOV-200B).
7. Place TCV-130 in AUTO at 105°F.
8. Place PCV-135 in AUTO at 250 psig.
9. Adjust charging pump speed and HCV-142 as necessary to stabilize PRZR level and maintain RCP labyrinth seal D/P.

C) IF normal letdown can NOT be established, THEN establish excess letdown:

1. Place AOV-312 to NORMAL.
2. Ensure CCW from excess letdown Hx, (AOV-745) - OPEN.
3. Open excess letdown isolation valve AOV-310.
4. Slowly open HCV-123 to maintain excess letdown temperature less than 195°F and pressure less than 100 psig.
5. Adjust charging pump speed as necessary to stabilize PRZR level and maintain RCP labyrinth seal D/P.

50-244

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6/16/00
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