NUCLEAR POWER BUSINESS UNIT TRAINING JOB PERFORMANCE MEASURES

JPM P000.031COT Revision 0 DRAFT July 18, 2000 TOTAL REWRITE

RESPOND TO A RCP MALFUNCTION

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K/A REFERENCE:	015/17AA1.07 (3.5/3.4)
(NUREG-1122)	015/17 AA1.22 (4.0/4.2)
	015/17 AA2.01 (3.0/3.5

~~ ~015/17AA2.10 (3.7/3.7)

ALTERNATE PATH JPM	X	YES	NO

PERFORMANCE CHECKLIST:
<u>SAT</u> ISFACTORY - Properly performed critical step(s) and/or in sequence (if applicable)
<u>UNSAT</u> ISFACTORY - Improperly performed critical step(s) and/or out of sequence (if applicable)
X Procedure adequately addresses task elements.
Enter identifier here: AOP-1B, Rev. 11
Other document adequately describes necessary task elements. Enter identifier here: X Task elements described as attached.
DESIRED MODE OF EVALUATION: APPLICABLE EVALUATION SETTING:
SIMULATE/WALKTHROUGH X DISCUSSION PERFORM X IN-PLANT CONTROL ROOM X
VALIDATED TIME FOR COMPLETION: 15 MINUTES

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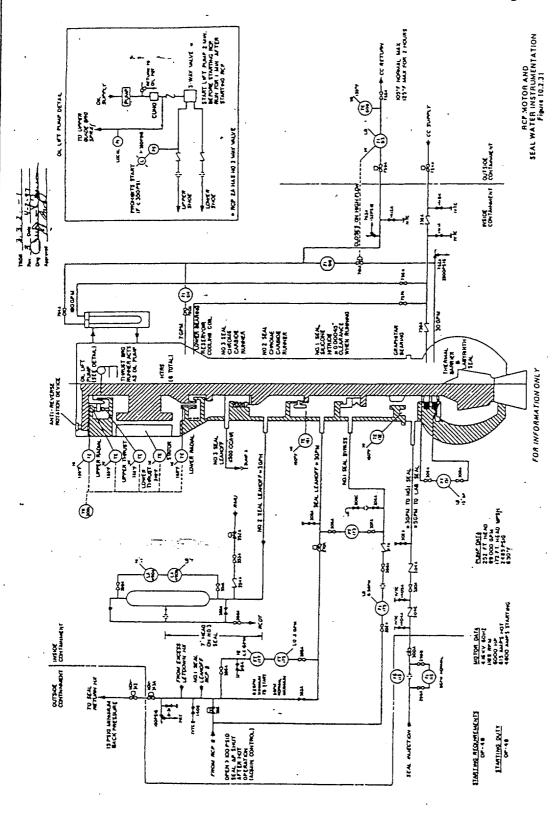
PERFORMANCE INFORMATION

	TICAL STEPS ARE DENOTED WITH A "Y". FAILURE TO MEET THE STANDARDS FOR THIS ON CONSTITUTES FAILURE.
	STEP/SEQUENCE/CRITICAL SAT 9 9 N UNSAT
ELEMENT:	Adjust seal injection throttle valve, and charging flow control valves as necessary to establish a positive labyrinth seal DP. (1CV-300A and/or 1HC-142).
STANDARD:	 CO adjusts HC-142 to establish a positive labyrinth seal ΔP and/or PAB AO adjusts 1CV-300A to establish a positive labyrinth seal ΔP.
CUE:	Positive labyrinth seal AP is indicated on IPI-131 for 1A RCP (or as indicated on simulator): Tell exam applicant to adjust HC-142 to certablish 720"
NOTE:	This step requires adjustment only if lab seal AP is not positive, therefore the operator may not make
COMMENTS:	Examiner-cue licensee to put in vibration 9 problem.
600	STEP/SEQUENCE/CRITICAL ACTACHECSAT UNSAT UNSAT
ELEMENT:	Check thermal barrier cooling normal: 1) Thermal barrier outlet AOV open (1CV-761A & B) on 1C03. 2) RCP cooling water low flow alarm clear (1C03 1D 1-4 & 1-5).
STANDARD:	Thermal barrier checked as above.
CUE:	 1) 1CV-761A and 1CV-761B red lights on, green lights off (or as indicated on simulator.) 2) RCP cooling water Low Flow alarm is not lit (or as indicated on simulator.)
COMMENTS:	
	STEP/SEQUENCE/CRITICAL SAT UNSAT UNSAT
ELEMENT:	Check RCP component cooling return temperature alarm clear (1C03 1D 2-4)
STANDARD:	RCP component cooling return temperature alarm checked clear on 1C03 1D 2-4.
CUE:	Alarm is not lit (or as indicated on simulator).
COMMENTS:	

Minution alarm comes an notuno stribatal - 01 gaz MAT Conmont: Applicant may continue with (-64) mat out & elges of 03 - rounds 81-90A & 81 gate of absorb (5 Standard: 1)Re cognizes fold out page cultivas Element: Vibration aloun

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Figure 2
RCP Motor and Seal Water Instrumentation Diagram



POINT BEACH NUCLEAR PLANT ABNORMAL-OPERATING PROCEDURE

REACTOR COOLANT PUMP MALFUNCTION -

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STEP

ACTION/EXPECTED RESPONSE

RESPONSE NOT OBTAINED

18 Secure Affected RCP:

- a. Trip reactor
- b. Stabilize plant using EOPs while continuing with this procedure

c. Trip affected RCP

- d. Check at least one RCP running
- e. Shut associated PZR normal spray valve
 - o 1RC-431A for RCP A
 - o 1RC-431B for RCP B
- f. Check affected RCP has been tripped for 3 minutes ifashed 3min gone by Steps 18.g through 18.h.
- g. Shut affected RCP No. 1 seal water return MOV
- ✓ o 1CV-270A for RCP A o 1CV-270B for RCP B
- h. Check RCP seal water bypass control valve shut
 - 1CV-386__

- d. Place steam dump mode selector in MANUAL.
- e. <u>IF</u> spray valve can <u>NOT</u> be shut. THEN place manual override switch for affected spray valve to close.
 - o 1RC-431A-S for 1RC-431A
 - o 1RC-431B-S for 1RC-431B
 - f. WHEN affected RCP has been tripped for 3 minutes, THEN do

- h. Perform the following:
 - 1) IF open per OP-4B, REACTOR COOLANT PUMP OPERATION, THEN go to Step 19.
 - 2) Shut RCP seal water bypass control valve.
 - 1CV-386

Return To Procedure And Step In Effect

and IPM

-END-

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RESPOND TO A RCP MALFUNCTION

PERFORMANCE INFORMATION

		STEP/S	EQUENCE	/CRITICAL	SAT		
		16	16	Y	UNSAT		
ELEMENT:	Shutdown per OP-3A, "Normal Power Operation to Low Power Operation."						
STANDARD:	Shutdown requirement identified.						
CUE:	DSS/DOS acknowledges a shutdown per OP-3A is required and directs the CO to continue with Step 10 RNO.						
COMMENTS:							
		STEP/S		CRITICAL	SATUNSAT		
		17	17	Y	UNSAT		
ELEMENT:	Adjust seal is injection flow	njection throt w greater than	tle valves and or equal to 9	Vor charging flow copport gpm to 1A RCP.	ntrol valve as necessary to main	tain seal	
STANDARD:	Throttle closed on 1HC-142 on 1804 and/or direct PAB AO to throttle open 1CV-300A until >9 gpm sea injection flow is indicated. Charging pump speed may also be adjusted.						
CUE:	If asked, the PAB AO reports seal injection flow is 7 gpm. After adjustment in made, PAB AO reports 10 gpm seal injection flow is established.						
NOTE:					: If lab seal adjustment was manes a critical step vs. this step.	de in JPM	
COMMENTS:					•		