RESPOND TO A LOSS OF COMPONENT COOLING WATER

JPM P000.015COT Revision 0 DRAFT July 19, 2000 TOTAL REWRITE

K/A REFERENCE: (NUREG-1122)	008K4.02 (2.9/2.7) 008A1.04 (3.1/3.2) 008A2.02 (3.2/3.5) 008A4.07 (2.9/2.9) 026 EA1.05 (3.1/3.1) 026 EA2.02 (2.9/3.6)			
ALTERNATE PATH J	PM YES X	_ NO		
				•
				• .
			+	
PERFORMANCE CH	ECKLIST:			
<u>SAT</u> ISFACTORY - Pr	operly performed and/or in s	sequence (if applicable)		
<u>UNSAT</u> ISFACTORY -	Improperly performed and	or out of sequence (if a	pplicable)	
	lequately addresses task elen er identifier here: <u>AOI</u>	nents. P-9B, Rev. 14		
	ent adequately describes ned er identifier here:	cessary task elements.		
X Task element	s described as attached.			
DESIRED MODE OF	EVALUATION:	·	APPLICABLE EVA	LUATION SETTING:

VALIDATED TIME FOR COMPLETION: 15 MINUTES

SIMULATE/WALKTHROUGH X DISCUSSION PERFORM X IN-PLANT CONTROL ROOM X

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EXAMINEE		<u> </u>		_EVALUATOR	
START TIME				_FINISH TIME	
PERFORMANO	CE SAT	☐ UNS	АT		
JOB TITLE:	□ АОТ	⊠ cot	☐ SRO	☐ STA	
TOOLS/EQUIP	MENT/REFER	ENCES:			•
AOP-9B, Rev. 14	4, "Loss of Comp	onent Cooling	Water"		

TASK STANDARDS:

Respond to a loss of component cooling water in excess of make-up capacity in accordance with AOP-9B, "Component Cooling System Malfunction".

SIMULATOR INFORMATION:

FAIL	COMPONENT	OPTION	VALUE	RAMP	DELAY	ACT	COND
IC-1	100%	Steady State					
Override	Annunciators	WPS2	1				
Leak	CCW Leak 1	NODE 13	150	300		D	-
	IC-1 Override	IC-1 100% Override Annunciators	IC-1 100% Steady State Override Annunciators WPS2	IC-1 100% Steady State Override Annunciators WPS2 1	IC-1 100% Steady State Override Annunciators WPS2 1	IC-1 100% Steady State Override Annunciators WPS2 1	IC-1 100% Steady State Override Annunciators WPS2 1

- NOTE: If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.
- NOTE: Only this page needs to be retained in examinee's record if completed satisfactorily. If unsatisfactory performance is demonstrated, the entire JPM should be retained.

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READ AND PROVIDE TO THE EXAMINEE

THIS SECTION IS READ ONCE FOR THE ENTIRE PACKAGE OF JPMS. IT IS NOT REQUIRED TO REVIEW THIS SECTION FOR EVERY JPM BEING PERFORMED IN THE PACKAGE. THE INITIAL CONDITIONS AND INITIATING CUE(S)/TASKS TO BE PERFORMED SHOULD BE READ AND THEN PROVIDED TO THE EXAMINEE.

After I read you the initial conditions and initiating cue(s)/task to be performed for this JPM and provide you a copy of the same, you may review and begin. Once you have completed the task, indicate completion by handing back this form to the evaluator unless otherwise told.

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

For all two and three-way communications, make your report to me, the JPM evaluator. I will reply to your reports with the statement, "acknowledge." All actions in the plant are to be simulated and all actions in the simulator will be performed. Ensure you make it clear to me, the evaluator, of all actions you are taking so that credit may be given for completing each step of the task.

DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.

INITIAL CONDITIONS:

- You are the Unit 1 Control Operator.
- Both Units at 100% power.
- The following action/alarms occur:
 - (1) CCW surge tank low level alarm.
 - (2) CCW surge tank level lowering.
 - (3) Auxiliary Building –19 ft sump high level alarm.

INITIATING CUE(S) / TASK TO BE PERFORMED (SIMULATED):

The DSS/DOS directs you to respond to the actions/alarms, taking any corrective actions required in accordance with AOP-9B, "Component Cooling System Malfunction."

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		<u>Pl</u>	ERFORMA	NCE INFORMA'	<u>FION</u>	
	ITICAL STEPS EM CONSTITUT			A "Y". FAILUR	E TO MEET THE STANDAR	DS FOR THIS
START TIME		STEP/S	EQUENCE/	CRITICAL N	SAT	
ELEMENT:	Check at least	one compor	ent cooling p	oump running (1P-	11A or 1P-11B).	
STANDARD:	Checked that of	one CCW pu	mp is runnin	g on 1C03.		
CUE:	One CCW pur	np red light	on, green lig	ht off (or as indica	ted on simulator).	
COMMENTS:						
				CRITICAL	SAT	
		2	2	Y	UNSAT	
ELEMENT:		nent Cooling nt YYLT 61 CS point L-6	8	level lowering.		
STANDARD:	CCW surge tai	nk level stab	ility checked	by at least one of	the above noted indications.	
CUE:	CCW surge tar	nk level low	ering (or as i	ndicated on simula	itor).	
COMMENTS:						
		STEP/S	EQUENCE/	CRITICAL	SAT	
		2	3	N	UNSAT	
ELEMENT:	Start reactor m P-23A P-23B	akeup water	pump aligno	ed for service		
STANDARD:	Start either P-2	23A or P-23	B, whichever	is aligned for serv	vices, behind C01.	
CUE:	P-23A or B rea	d light is lit,	green light is	s off (or as indicate	ed on simulator).	
COMMENTS:						

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	<u>PI</u>	ERFORMA)	<u>NCE INFORMAT</u>	<u>ION</u>	
	RITICAL STEPS ARE DENO EM CONSTITUTES FAILU		' A "Y". FAILURI	E TO MEET THE STANDARDS	S FOR THIS
	STEP/S	EQUENCE/ 4	CRITICAL N	SAT	
ELEMENT:	Station a level 2 dedicated Unit 1 CI or SI signal.	operator wit	h instructions to im	mediately shut 1CC-17 upon noti	fication of
STANDARD:	Requests a level 2 dedicate	ed operator b	e stationed.		
CUE:	When asked, a level 2 dedi	icated operat	or has been statione	ed.	
COMMENTS:					
	STEP/SI	EQUENCE/	CRITICAL N	SATUNSAT	
ELEMENT:	Ensure component cooling	surge tank v	ent (1CC-17) open.		
STANDARD:	Open 1CC-17 on 1C03 (red	d indicating	light is on and green	n light is off).	
CUE:	1CC-17 red indicating ligh	t is on (or as	indicated on simula	ator).	
COMMENTS:					
	STEP/SI	EQUENCE/	CRITICAL N	SAT	
ET EMENT.		Ŧ		o maintain level between 20% an	d 60%
ELEMENT: STANDARD:			_	level trend. Recognizes that CC	
CUE:	Component cooling surge t	ank level is	still slowly lowering	g. (or as shown on simulator).	
NOTE:				trainee should perform Step 3 o -11B are placed in pull-out and	
COMMENTS:					

COMMENTS:

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PERFORMANCE INFORMATION NOTE: CRITICAL STEPS ARE DENOTED WITH A "Y". FAILURE TO MEET THE STANDARDS FOR THIS ITEM CONSTITUTES FAILURE. STEP/SEQUENCE/CRITICAL SAT UNSAT 7 **ELEMENT:** Isolate leak per Attachment A, "leak isolation for lowering surge tank level", while continuing with this procedure. Using Attachment A, control room alarms/indications, and reports, identify that system Leakage to STANDARD: Atmosphere (A3) applies. CUE: The PAB AO reports that water spraying from the common discharge pipe in the area below C-59 by the shortline and that no isolation valves exist to stop the leakage. The examinee upon recognizing that the leak cannot be isolated and with full CCW make-up, is NOTE: insufficient to maintain Surge Tank level, should recommend a plant shutdown or a plant trip. Examinee may raise concerns about chromate's spill however should not be distracted from this AOP by concurrently entering into the hazardous spill AOP. **COMMENTS:** STEP/SEQUENCE/CRITICAL **UNSAT** 2 8 Y **ELEMENT:** Check component cooling surge tank level stable Recognize that component cooling surge tank level is NOT STABLE and continue with the procedure. STANDARD: Surge tank level is as indicated based on position of 1CC-815. CUE:

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PERFORMANCE INFORMATION

	TICAL STEPS ARE DENOTED WITH A "Y". FAILURE TO MEET THE STANDARDS FOR THIS M CONSTITUTES FAILURE.					
	STEP/SEQUENCE/CRITICAL SAT UNSAT UNSAT					
ELEMENT:	Check surge tank level greater than 10% 1LI-618B PPCS Point YYLT618 (New PPCS point L-618)					
STANDARD:	Check surge tank level using one of the above indicators.					
CUE:	Surge tank level is as indicated. DOS directs you to perform Step 3 RNO.					
COMMENTS:						
	STEP/SEQUENCE/CRITICAL SAT UNSAT UNSAT					
ELEMENT:	 Perform the following: Place 1P-11A and 1P-11B, component cooling water pumps in PULL-OUT. Trip reactor, stabilize plant with EOPs while continuing with AOP-9B. Stop RCPs Transfer Condenser Steam Dump Mode Selector switch to MANUAL. 					
STANDARD:	Place Component Coolant Water pumps to PULL-OUT on 1C03. Trip the reactor on 1C04 or C01.					
CUE:	After reactor is tripped, this completes this JPM.					
COMMENTS:						
TERMINATION	CUE: THIS COMPLETES THIS JPM. COMPLETION TIME:					