JPM P000.006COT Revision 0 DRAFT July 18, 2000

PERFORM POWER RANGE DETECTOR POWER LEVEL ADJUSTMENTS

K/A REFERENCE: (NUREG-1122)	015 K5.03(2.3/2.6) 015 K5.19 (2.9/3.2) 015 A1.01 (3.5/3.9) 015 A3 04 (3.3/3.5)
	015 A3.04 (3.3/3.5) 015 A4.02 (3.9/3.9)

ALTERNATE PATH JPM YES X NO

PERFORMANCE CHECKLIST:

SATISFACTORY - Properly performed critical step(s) and/or in sequence (if applicable)

UNSATISFACTORY - Improperly performed critical step(s) and/or out of sequence (if applicable)

X	Procedure adequately addresses tas	sk elements.
	Enter identifier here:	0-TS-RE-002, Rev.

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_

3

VALIDATED TIME FOR COMPLETION: 15 MINUTES

JPM P000.006COT Revision 0 DRAFT July 18, 2000

PERFORM POWER RANGE DETECTOR POWER LEVEL ADJUSTMENTS

EXAMINEE				_EVALUATOR
START TIME	<u></u>			_FINISH TIME
PERFORMANC	CE 🗌 SAT		AT	
JOB TITLE:	AOT	🖾 сот	🗌 SRO	STA
TOOLS/EQUIP	MENT/REFER	RENCES:	. *	
0 TO DE 001 E	Day 2. Down L	aval Datarmin	ntion	

0-TS-RE-001, Rev. 2: Power Level Determination 0-TS-RE-002, Rev. 3: Power Range Detector Power Level Adjustment

TASK STANDARDS:

Properly adjust indicated power on power range drawer A for NI channel 41 within .75% of calculated reactor power.

SIMULATOR INFORMATION:

TIME	FAIL	COMPONENT	OPTION	VALUE	RAMP	DELAY	ACT	COND
::	IC-1	100%	Steady State					
		read 99% without state conditions. Effectively of the state					ould be as clo	se to 100%
	······		0	•	Ũ			
<u> </u>		· · · · · · · · · · · · · · · · · · ·					<u> </u>	·····

- 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.

JPM P000.006COT Revision 0 DRAFT July 18, 2000

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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 Unit 1 Control Operator
- 0-TS-RE-001, "Power Level Determination", Section 5.2 was previously performed. RTOP15 was not within .75% of NIS power range indication on NI channel 41.
- This requires 0-TS-RE-002, "Power Range Detector Power Level Adjustment" to be performed.

INITIATING CUES (IF APPLICABLE):

The DSS/DOS directs you to perform Attachment A of 0-TS-RE-002, "Power Range Detector Power Level Adjustment." All prerequisites and initial conditions have been satisfied.

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PERFORMANCE INFORMATION

NOTE: CRITICAL STEPS ARE DENOTED WITH A "Y". FAILURE TO MEET THE STANDARDS FOR THIS ITEM CONSTITUTES FAILURE.

START TIME	_	STEP/S	EQUENCE	SAT				
		1	1	Ν	UNSAT			
ELEMENT:	Record reactor the	hermal out	put determi	ned from 0-TS-RE-0)1, "Power Level Determination"			
STANDARD:	Ask for 0-TS-RE-001 to obtain reactor thermal output value. Put value in Step 1.0 of Attachment A.							
CUE:	When asked, Reactor Thermal output determined from 0-TS-RE-001 is 100% or whatever it is indicating on the simulator digital at the start of the JPM.							
NOTE:	A copy of 0-TS-RE-001 is available and can be provided, if requested.							
COMMENTS:								

		STEP/S	EQUENCE	/CRITICAL	SAT				
		2	2	Ν	UNSAT				
ELEMENT:	Ensure control	rod bank se	lector switcl	h on 1C04 in manu	al.				
STANDARD:	Rod bank selector switch taken from auto to manual on 1C04. Initial Step 2.0 on Attachment A.								
CUE:	Rod bank selec	tor in manu	al (or as ind	icated on simulator).				
COMMENTS:									
		STEP/S	EQUENCE	/CRITICAL	SAT				

	·	3	3	Ν	UNSAT
ELEMENT:	Record the as fo	und power	r range draw	ver A indication.	
STANDARD:	Locate and obta	in power r	ange drawer	A value, and recor	d on Attachment A, Step 3.0 for channels N41.
CUE:					
NOTE:	remainder of th channel, howev	is attachm er good op quire adju	vent. It is no perational pr stment or no	ot the intent of this ractice may lead to ot. Therefore, the	narked N/A. This is applicable throughout the JPM to perform adjustment on more than one the examinee attempting to adjust all channels examinee may need to be cued to stop after

COMMENTS:

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JPM P000.006COT Revision 0 DRAFT July 18, 2000

PERFORM POWER RANGE DETECTOR POWER LEVEL ADJUSTMENTS

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		STEP/SEQ 4	QUENCE/CR	ITICAL N	SAT	
ELEMENT:	Unlock the Gain	potentiomete	er on power ra	inge drawer B.		
STANDARD:	Locate Gain pote Step 4.0 of Attac			drawer B and ro	otate black knob to the	e left to unlock and initials
CUE:						
COMMENTS:						
			<u>.</u>			
			UENCE/CR		SAT _	
		5	5	Y	UNSAT _	
ELEMENT:	Adjust the indica recorded in Step				se as possible to the r	eactor thermal output
STANDARD:	Locate gain potent for channel N41 a	tiometer on p nd initials St	power range diep 5.0 of Atta	rawer A and adju chment A.	usts within .75% of ca	alculated reactor power
CUE:						
COMMENTS:			·			
		STEP/SEQ	UENCE/CRI		SAT _	
		6	6	Ν	UNSAT _	
ELEMENT:	Lock the gain po	tentiometer c	on power range	e drawer B.		
STANDARD:	Locate and lock b drawer B. Initial				in potentiometer for	N41 on power range
CUE:						
COMMENTS:						

JPM P000.006COT Revision 0 DRAFT July 18, 2000

PERFORM POWER RANGE DETECTOR POWER LEVEL ADJUSTMENTS

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NOTE: CRITICAL STEPS ARE DENOTED WITH A "Y". FAILURE TO MEET THE STANDARDS FOR THIS ITEM CONSTITUTES FAILURE.

		STEP/SE 7	QUENCE 7	/CRITICAL N	SATUNSAT	
ELEMENT:	Record the as let	ft power ran	ige drawer	A indication.		
STANDARD:	Examinee record	ls as above	in Step 7.0	of Attachment A.		
CUE:						
COMMENTS:						
		STEP/SE 8	QUENCE 8	/CRITICAL N	SAT UNSAT	
ELEMENT:	Ensure 1C04 ala	rms are clea	ar.			
STANDARD:	Examinee checks Attachment A.	s that annun	ciators 1C	04-1A 3-5, 3-5, 4-2	, 4-3 and 4-5 are clear and initials S	tep 8.0 of
CUE:	1C04-1A alarms	as above ar	e clear (or	as indicated in the	simulator)	
NOTE:	Examiner may a	ulso note the	e rod drop	alarm is not lit on .	NI cabinet.	
COMMENTS:	· .					
		STEP/SE	QUENCE/ 9	/CRITICAL N	SAT UNSAT	
ELEMENT:	Place the control	rod bank so	elector swit	tch on 1C-04 to auto	omatic if desired.	
STANDARD:	Rod bank selector	or switch on	1C-04 retu	urned to automatic f	rom manual and Step 9.0 of Attach	ment A

initialed.

CUE: If asked, it is desired to place the rod bank selector switch to automatic.

COMMENTS:

JPM P000.006COT Revision 0 DRAFT July 18, 2000

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NOTE: CRITICAL STEPS ARE DENOTED WITH A "Y". FAILURE TO MEET THE STANDARDS FOR THIS ITEM CONSTITUTES FAILURE.

		STEP/SEQUENCE/CRITICAL			SAT	
		10	10	Ν	UNSAT	
ELEMENT:	Record the GAI Operating Data			g for power range ch	aannel N41 on the logsheet in th	ne Reactor
STANDARD:	Examinee locate	es Rod 14 a	and finds the	e power range pot se	ttings page.	
CUE:	This completes	this JPM.				
COMMENTS:						

TERMINATION CUE: THIS COMPLETES THIS JPM.

COMPLETION TIME: