NMC Committed to Nuclear Excellence	JOB PERFORMANCE MEASURE (JPM)

SITE: MONTICELLO NUCLEAR GENERATING PLANT

JPM TITLE: OUTBOARD MSIV LOW AIR PRESSURE

JPM NUMBER: JPM-B.02.04.05-004 **REV.** 2

RELATED PRA INFORMATION: None

TASK NUMBERS / TASK TITLE(S): NL240.101
Place the Outboard MSIV Air Supply Train in Service

K/A NUMBERS: 239001 2.1.30
Ability to locate and operate components, including local controls. **RATING: RO/SRO:** 4.4/4.0

APPLICABLE METHOD OF TESTING:

Discussion: [ ] Simulate/walkthrough: [X] Perform: [ ]

EVALUATION LOCATION: In-Plant: [X] Control Room: [ ]
Simulator: [ ] Other: [ ]
Lab: [ ]

Time for Completion: 20 Minutes Time Critical: No

Alternate Path: Yes

TASK APPLICABILITY: SRO: [X] RO: [X] NLO [X]

Additional site-specific signatures may be added as desired.

Developed by: _____
Developer Date

Validated by: _____
Validator Date
(See JPM Validation Checklist, Attachment 1)

Approved by: _____
Training Supervisor Date

Retention: Life of Plant
Retain in: Training Record
Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM Number: JPM-B.02.04.05-004

JPM Title: Outboard MSIV Low Air Pressure

Examinee: _____ **Evaluator:** _____

Job Title: _____ **Date:** _____

Start Time _____ **Finish Time** _____

PERFORMANCE RESULTS: **SAT:** ☐ **UNSAT:** ☐

COMMENTS/FEEDBACK: (Make written comments for any steps graded unsatisfactory).

EVALUATOR'S SIGNATURE: _____

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.

(Modify text in Briefing/Turnover Box as necessary)

JPM BRIEFING/TURNOVER
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.* *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.*

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

INITIAL CONDITIONS:

- The Plant is operating at 100% power.
- Annunciator 3-B-34 (OUTB MSIV A/S Low Pressure) has just alarmed.
- “B” outboard MSIV air supply is in service.
- “A” outboard MSIV air supply is in STBY and full.
- Another Operator will remove “B” Outboard MSIV Air Supply from service and replace the air bottles at a later time.

INITIATING CUES (IF APPLICABLE):

- The Control Room Supervisor directs you to place Train “A” Outboard MSIV Air Supply in service per B.02.04-05. D.3.
- **ALL OPERATOR ACTIONS ARE TO BE SIMULATED.**

JPM PERFORMANCE INFORMATION

Required Materials: None

General References: Procedure B.02.04.05
Site Safety Manual

Task Standards: B.02.04-05

Start Time: _____

NOTE: When providing "Evaluator Cues" to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee's actions warrant receiving the information (i.e., the examinee looks or asks for the indication).

IMPORTANT: Critical steps are marked with a "Y" below the performance step number. Failure to meet the standard for any critical step SHALL result in failure of this JPM, per FP-T-SAT-73, Licensed Operator Requalification Program Examinations.

Performance Step: 1 **Critical: N**	Locate Procedure B.02.04-05.D.3. (Placement of Outboard MSIV Air Supply Trains in Service)
Standard:	Locates appropriate procedure.
Evaluator Note:	If operators checks, "B" Train is currently in service.
Evaluator Cue:	Provide operator with copy of procedure.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 2 **Critical: N**	(Procedure STEP 1) 1. Close AI-745, Train A MSIV Main Air Supply Isol.
Standard:	Verifies valve Closed.
Evaluator Cue:	This valve is already closed.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 3 **Critical: N**	(Procedure STEP 2) **<u>NOTE</u>: Each air pallet is marked with a sign indicating whether it is full or <u>NOT</u>.** 2. Verify air pallet to be placed in service is full.
Standard:	Verifies sign on air pallet hooked up to “A” train supply indicates the bottles are full.
Evaluator Note:	If no air pallet is connected to the “A” train flex hose, tell the candidate a full pallet is connected.
Evaluator Cue:	Sign on pallet says, “FULL”.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 4 **Critical: N**	(Procedure STEP 3) 3. If a full air pallet is already connected to Train A, THEN proceed to Step 13.
Standard:	Operator proceeds to step 13.
Evaluator Cue:	None required.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 5 **Critical: Y**	(Procedure STEP 13) 13. Verify pressure indicated on PI-4917A has stabilized in the range of 275-285 psig.
Standard:	Verifies pressure at PI-4917A.
Evaluator Cue:	Inform the operator that pressure reading is 260 psig
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 6 **Critical: Y**	(Procedure STEP 14.a) a. If pressure is NOT in range, Then reset PCV-4916A, Train A Outboard MSIV Main air Supply PCV, as follows: Turn control knob on pressure regulator PCV-4916A CCW until header pressure indicated by PI-4917A drops to approximately 250 – 255 psig.
Standard:	Operator turns knob on PCV-4916A CCW until PI-4917A reads 250 – 255 psig.
Evaluator Cue:	The knob is turning CCW and that pressure is now 255 psig.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 7 **Critical: Y**	(Procedure STEP 14.b) **CAUTION** **Do NOT make final pressure regulator adjustment with a CCW movement. This puts the regulator in a dead band. The result is the regulator may make up slowly, or NOT at all, when an outboard MSIV is subsequently cycled.** b. Turn knob slowly CW on pressure regulator PCV-4916A until pressure reading on PI-4917A is approximately 275 psig.
Standard:	Knob is turned clockwise until pressure is approximately 275 psig.
Evaluator Cue:	Knob is being rotated in the clockwise direction, wait 10 seconds and state that the pressure indication on PI-4917A is approximately 275 psig. If requested, also report that as the control room that the annunciator has reset.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 8 **Critical: N**	(Procedure STEP 14. c and d) c. Let pressure stabilize then verify final pressure obtained is in the range of 275-285 psig. d. If pressure rises above 285 psig, Then repeat substeps a. through c.
Standard:	Observes pressure to ensure it has stabilized.
Evaluator Cue:	Pressure is stable at 280 psig.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 9 **Critical: Y**	(Procedure STEP 15) 15. <u>If</u> Train A Outboard MSIV Air Supply is required for service, <u>Then</u> OPEN valve AI-745.
Standard:	Opens AI-745.
Evaluator Cue:	Valve handle moves and is now aligned with the pipe.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	None

Performance Step: 10	**INFORM EVALUATOR THAT THE TASK HAS BEEN COMPLETED.**
Standard:	Operator informs evaluator that the task is completed.
Evaluator Cue	**DO <u>NOT</u> PROMPT**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Terminating Cues: **WHEN REPORT IS MADE THAT THE TASK IS COMPLETE, STATE THE JPM IS COMPLETE.**

Stop Time: _____

Historical Record:

Procedure revision updates for 2009 NRC Exam

TURNOVER SHEET

INITIAL CONDITIONS:

- The Plant is operating at 100% power.
- Annunciator 3-B-34 (OUTB MSIV A/S Low Pressure) has just alarmed.
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INITIATING CUES (IF APPLICABLE):

- The Control Room Supervisor directs you to place Train “A” Outboard MSIV Air Supply in service per B.02.04-05. D.3.
- **ALL OPERATOR ACTIONS ARE TO BE SIMULATED.**

ATTACHMENT 1

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the cover page filled in correctly?	☐	☐	
2. Has the JPM been reviewed and validated by SMEs?	☐	☐	☐
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	☐	☐	☐
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	☐	☐	
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	☐	☐	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	☐	☐	☐
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	☐	☐	☐
8. Is the Licensee level appropriate for the task being evaluated if required? NOT applicable to Non-Licensed Operators	☐	☐	☐
9. Is the K/A appropriate to the task and to the licensee level if required? NOT applicable to Non-Licensed Operators	☐	☐	☐
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	☐	☐	
11. Have all special tools and equipment needed to perform the task been identified?	☐	☐	
12. Are all references identified, current, and accurate?	☐	☐	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	☐	☐	

All applicable questions must be answered "YES" or the JPM is NOT valid for use. If all applicable questions are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation sign and date this form.

_____	_____
Validation Personnel /Date	Validation Personnel/Date
_____	_____
Validation Personnel /Date	Validation Personnel/Date
_____	_____
Validation Personnel /Date	Validation Personnel/Date
_____	_____
Validation Personnel /Date	Validation Personnel/Date

Retention: Life of Plant
Retain in: Training Record
Form retained in accordance with record retention schedule identified in FP-G-RM-01.

To be able to use the macros, after opening Word go to: Tools/Macro/Security and set the security level at either Low or Medium, close completely out of Word and reopen Word to activate Macros. If you are concerned with macro viruses, check with your site to be assured of active virus scanning.

Buttons	Results from pressing toolbar buttons
	Update JPM Information - Runs the macro for inputting information into the cover sheet. [Note: - The JPM Title and Number is automatically added to the top of the second page by the use of Cross Reference fields.]
	Add JPM Step - Adds a Performance Step table at the end of that section, prior to the 'Terminating Cues:'.
	Insert JPM Step - Inserts a Performance Step table in front of an existing Performance Step table. [NOTE: - You must have your cursor inside a Performance Step table, otherwise; you will get an error message if your cursor is anywhere else.]
	Critical Step - Toggles the Performance Step to 'Critical'. Removes **all** of the text to the right of the words '**Critical**' and replaces them with the text string ' **Y (SEQ-)**'. The cursor is placed between the '**-**' and the '**)**', to allow you to insert the sequence number for the performance step. [NOTE - You must have your cursor inside the Performance Step table you want to make into a critical step otherwise you get an error message.]
	Non-Critical Step - Toggles the Performance Step to 'Non-Critical'. Removes **all** of the text to the right of the words '**Critical**' and replaces them with the text string ' **N (SEQ-)**'. The cursor is placed between the '**-**' and the '**)**', to allow you to insert the sequence number for the performance step. [NOTE - You must have your cursor inside the Performance Step table you want to make into a non-critical step otherwise you get an error message.]
	Evaluator Note - Adds a row to the Performance Step table under the '**Standard:**' line, to allow you to enter any notes for the Evaluator.
	Remove Evaluator Note - Removes the '**Evaluator Note:**' line if it was added to the Performance Step table. [NOTE - You must have your cursor inside the Performance Step you want to remove the Evaluator Note from otherwise it removes two lines from the table above the cursor.]
	Evaluator Cue - Adds a row to the Performance Step table above the '**Performance:**' line, to allow you to enter any cues for the Evaluator.
	Remove Evaluator Cue - Removes the '**Evaluator Cue:**' line if it was added to the Performance Step table. [NOTE - You must have your cursor inside the Performance Step you want to remove the Evaluator Cue from otherwise it removes two lines from the table above the cursor.]
	Simulator Setup Page - Adds a Simulator Setup page near the end.
	Remove Simulator Setup Page - Removes the inserted Simulator Setup page.
	Update Turnover Sheet - Takes the turnover information from page 3 (JPM Briefing / Turnover page) and updates the Trainee's version of the turnover page, located prior to Attachment 1 (the last page of the JPM).
	Not For Exam Use - Places a shaded Word Art text box diagonally across the first page. To remove the text, place your cursor near the top right side of the coversheet and select the Word Art text and delete.

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