NMC Committed to Nuclear Excellence	JOB PERFORMANCE MEASURE (JPM)

SITE: MONTICELLO NUCLEAR GENERATING PLANT

JPM TITLE: LOCKED HIGH RADIATION AREA ENTRY

JPM NUMBER: JPM-4 AWI-08.04.06-002 **REV.** 1

RELATED PRA INFORMATION: None

TASK NUMBERS / TASK TITLE(S): CR999.299
Administrative Procedures

K/A NUMBERS: 2.3.13 Knowledge of radiological safety procedures pertaining to licensed operator duties, such as response to radiation monitor alarms, containment entry requirements, fuel handling responsibilities, access to locked high-radiation areas, aligning filters, etc.

Rating: RO/SRO: 3.4/3.8

APPLICABLE METHOD OF TESTING:

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

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

Time for Completion: 15 Minutes Time Critical: No

Alternate Path: No

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

Additional site-specific signatures may be added as desired.

Developed by:		
	Developer	Date
Validated by:		
	Validator (See JPM Validation Checklist, Attachment 1)	Date
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-4 AWI-08.04.06-002

JPM Title: Locked High Radiation Area Entry

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
Add required site specific JPM briefing material here: for example: *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.* *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.

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

INITIAL CONDITIONS:
The task conditions are as follows:
- The plant is at 100% power.
- The RWCU pump room must be entered and MO-2398 must be inspected for potential valve stem leakage.
- You are an extra operator on shift
- Provide Survey Map
- Provide RWP

INITIATING CUES (IF APPLICABLE):
The CRS directs you to perform the specific instructions IAW 4 AWI-08.04.06, section 4.4.2, for a non routine entry into the posted locked high radiation area for the inspection.

JPM PERFORMANCE INFORMATION

Required Materials: Survey Map And RWP For Hi Radiation Area To Be Entered
4 AWI-08.04.06 (Area Control)

General References: 4 AWI-08.04.06 (Area Control)

Task Standards: Verify Individual Exposure Limits Allow Entry Into Locked High Radiation Area

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**	Provided a copy of 4 AWI-08.04.06 (Area Control) reviews procedure and locates Section 4.4.2 specific instructions for high, locked high, and very high radiation areas.
Standard:	Locates appropriate section of procedure.
Evaluator Cue:	Provide copy of procedure 4 AWI-08.04.06 (Area Control)
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 2 **Critical: N**	Specific instructions for high, locked high, and very high radiation areas. A. Obtain any required special approvals as follows: 1. Locked High Radiation Area: Non-routine entries your supervisor (if on site), the Shift Manager's, or the Rad Prot Coord's approval prior to the entry. Supervisors may approve their own entries.
Standard:	Determines step is applicable.
Evaluator Cue:	If asked, state that the entry has been approved.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 3 **Critical: N**	Complete a Trip Ticket and obtain a high radiation area pre-entry briefing from the Radiation Protection staff. This briefing and all high radiation area requirements of the RWP are required if any part of the body breaks the plane of the boundary, even if permission to reach over was granted.
Standard:	Determines that a radiological briefing must be performed.
Evaluator Cue:	State that the Trip Ticket is complete and radiological briefing has been performed.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 4 **Critical: Y**	Prepare to perform your individual exposure control duties as follows: 1. You **SHALL** determine the expected area does rates for all regions of the area you will be entering by reviewing area surveys. Reviews areas surveys provided and determines the dose rate for the inspection is 1200 Mrem/hr at the valve and 180 Mrem/hr in the general vicinity of the valve.
Standard:	Determines dose rates will be 1200 Mrem/hr at the valve and 180 Mrem/hr in the general vicinity of the valve.
Evaluator Cue:	None
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 5 **Critical: Y**	Prepare to perform your individual exposure control duties as follows: 2. Determine the expected duration of the entry and the expected dose needed to make the entry. Operator determines expected dose using determined dose rate and given duration of entry.
Standard:	Determines expected dose to be 138 Mrem.
Evaluator Cue:	State the expected duration of the entry is 6 minutes at the valve and an additional 6 minutes in the general vicinity of the valve.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 6 **Critical: Y**	Prepare to perform your individual exposure control duties as follows: 3. Determine the allowable entry dose, either from the electronic dosimeter log-in process, from the local point, or from your dosimeter.
Standard:	Operator determines the dose alarm and dose rate alarm setpoints are too low for the performance of this task.
Evaluator Cue:	If reported, acknowledge the report.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 7 **Critical: Y**	**Prepare to perform your individual exposure control duties as follows:** 4. If the allowable entry dose is less than the expected entry dose, Then you **SHALL** report to the Rad Prot Coord for resolution.
Standard:	Operator determines the allowable entry dose is less than the expected entry dose and reports to the Rad Prot Coord.
Evaluator Cue:	Acknowledge report as the Rad Prot Coord.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

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

Stop Time: _____

Historical Record: MNGP JPM Exam Bank – 2007 NRC Exam
Procedure updates and editorial changes for 2009 NRC Exam

SIMULATOR SET UP:

Admin JPM; no simulator setup required.

SIMULATOR - MALFUNCTIONS:

	MALF ID	MALFUNCTION TITLE	DELAY	RAMP	EVENT	VALUE	FINAL .
1.							
2.							

SIMULATOR - OVERRIDES:

	OVERRIDE ID.	OVERRIDE DESCRIPTION	DELAY	RAMP	EVENT	VALUE	FINAL
1.							
2.							

SIMULATOR - REMOTE FUNCTIONS:

	REMOTE FUNC. No.	REMOTE FUNCTION TITLE	DELAY	RAMP	EVENT	VALUE	FINAL
1.							
2.							

TURNOVER SHEET

INITIAL CONDITIONS:
The task conditions are as follows:

- The plant is at 100% power.
- The RWCU pump room must be entered and MO-2398 must be inspected for potential valve stem leakage.
- You are an extra operator on shift
- Provide Survey Map
- Provide RWP

INITIATING CUES (IF APPLICABLE):
The CRS directs you to perform the specific instructions per 4 AWI-08.04.06, section 4.4.2, for a non routine entry into the posted locked high radiation area for the inspection.

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
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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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