NMC Committed to Nuclear Excellence	JOB PERFORMANCE MEASURE (JPM)

SITE: MONTICELLO NUCLEAR GENERATING PLANT

JPM TITLE: MANUALLY START THE ELECTRIC FIRE PUMP

JPM NUMBER: JPM-B.08.05-003 **REV.** 11

RELATED PRA INFORMATION: None

TASK NUMBERS / TASK TITLE(S): NL286.109
Manually Start the Fire Pumps

K/A NUMBERS: 286000 A4.05
Fire Pump **Rating: SRO/RO:** 3.3/3.3

APPLICABLE METHOD OF TESTING:

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

EVALUATION LOCATION: In-Plant: [X] Control Room: [ ]

Simulator: [ ] Other: [ ]

Lab: [ ]

Time for Completion: 10 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 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.08.05-003

JPM Title: Manually Start the Electric Fire Pump

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:

- 100% normal operations. Maintenance has just completed work on the Electric Fire Pump. Maintenance wants the pump started to adjust its packing. The Jockey Fire Pump is in-service.

INITIATING CUES (IF APPLICABLE):

- The Control Room Supervisor directs you to manually start the Electric Fire Pump.
- **ALL OPERATOR ACTIONS ARE TO BE SIMULATED**.

JPM PERFORMANCE INFORMATION

Required Materials: None

General References: Plant

Task Standards: B.08.05-05.D.1, Rev. 42

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.08.05-05.D.1 (Manual Start of Fire Pumps)
Standard:	Locates appropriate procedure.
Evaluator Cue:	Provide Operator with a copy of procedure.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 2 **Critical: N**	PRECAUTIONS AND LIMITATIONS 1. The Fire Protection System is in standby readiness during all phases of plant operation. If a pump or a portion of the system has been secured, check Form 2154-27 (Fire Protection System Prestart Valve Checklist) to be certain all valves are in their proper positions. 2. If system is depressurized, see B.08.05-05, Abnormal Procedure H.1, Repressurization of the Fire Main Following Depressurization. 3. A fire impairment is NOT required to be entered as long as Operations Personnel are in attendance at the respective fire pump panel when the pumps automatic initiation logic is bypassed for pump starts or mode changes (ex.. screen wash/fire pump handswitch from auto through STOP to START, Diesel Fire Pump handswitch to Manual prior to depressing Start button).
Standard:	None
Evaluator Cue:	The valve checklist has been completed. The fire header is NOT depressurized. An operator will remain in attendance
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 3 **Critical: N**	PREREQUISITES 1. If an Operator is NOT in attendance, Then only on pump **SHALL** be running with FP-5, Fire Sys Test Valve, and/or FP-81, Test BYP, throttled to maintain fire header pressure between 110-120 psig. 2. A 7 day impairment per Operations Manual B.08.05-05 **SHALL** be entered with one pump in operation and FP-5 and/or FP-81 open and unattended to maintain fire header pressure between 110 and 120 psig, or if a fire pumps automatic initiation logic is bypassed and Operator is NOT in attendance at the pumps fire panel.
Standard:	None
Evaluator Cue:	An operator will remain in attendance.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 4 **Critical: N**	(Procedure STEP 1) If during performance of this procedure, the Fire Suppression Water System is required for use, Then return fire pumps to service unless otherwise directed by Shift Supervision.
Standard:	Acknowledges step.
Evaluator Cue:	None
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 5 **Critical: N**	(Procedure STEP 2) Establish radio or telephone contact with the Main Control Room while the fire pump auto initiations are bypassed.
Standard:	Simulate contacting Main Control Room via telephone or radio.
Evaluator Cue:	Communications are established with Main Control Room.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 6 **Critical: N**	ELECTRIC FIRE PUMP STARTUP (Procedure STEP 7) Perform pump prestart checks
Standard:	Uses Operator Aid T-15 located locally in the intake structure to perform prestart checks and walkdown.
Evaluator Cue:	None
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 7 **Critical Y**	(Procedure STEP 8) To START the Electric Fire Pump, depress 52-406/PB. Electric Fire Pump Pushbutton, on Panel C-103, And pull and latch the 52-406/ECL, Electric Fire Emergency Control Lever, on C-103.
Standard:	Depresses the Electric Fire Pump START pushbutton on Panel C-103 and pulls and latches the Emergency Control Lever on C-103.
Evaluator Cue:	1. The Electric Fire Pump START pushbutton is depressed and Emergency Control Lever extended and latched. 2. The Electric Fire Pump has started.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 8 **Critical Y**	(Procedure STEP 9) Slowly open FP-81 and/or FP-5 to maintain header pressure between 110 to 120 psig.
Standard:	Slowly opens FP-81 and/or FP-5 by turning the handwheel CCW while observing PI-7937 until cued by evaluator that header pressure is between 110 and 120 psig.
Evaluator Cue:	1. Header pressure initially 130 psig (PI-7937). 2. FP-81 and/or FP-5 handwheels turn CCW and the valve stem rises. 3. Header pressure as indicated on PI-7937 is 115 psig.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: 9 **Critical N**	**INFORM EVALUATOR THAT THE TASK HAS BEEN COMPLETED.**
Standard:	Operator informs evaluator that the task is completed.
Evaluator Cue:	None
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Terminating Cues: **When the operator states the task is complete, terminate the JPM.**

Stop Time: _____

Historical Record: MNGP JPM Bank
Procedure revision updates for 2009 NRC Exam

TURNOVER SHEET

INITIAL CONDITIONS:

- 100% normal operations. Maintenance has just completed work on the Electric Fire Pump. Maintenance wants the pump started to adjust its packing. The Jockey Fire Pump is in-service.

INITIATING CUES (IF APPLICABLE):

- The Control Room Supervisor directs you to manually start the Electric Fire Pump.
- **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
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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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