

**NRC REGION III**  
**INITIAL LICENSE EXAM**  
**JOB PERFORMANCE MEASURE**

**JPM: SRO ADMIN 2**

**TITLE: APPROVE A HEAVY LOAD MOVEMENT**

CANDIDATE: \_\_\_\_\_

EXAMINER: \_\_\_\_\_

JOB PERFORMANCE MEASURE  
DATA PAGE

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Task: Approve a heavy load movement

Alternate Path: NO

Facility JPM #: APWC-JPM-11

K/A: 2.2.14 Importance: SRO: 4.3

K/A Statement: Knowledge of the process for controlling equipment configuration or status

Task Standard: Approve a heavy load movement, ensuring all prerequisites and operational requirements are met.

Preferred Evaluation Location: Simulator  Classroom

Preferred Evaluation Method: Perform  Simulate

References: FHS-M-23, Movement Of Heavy Loads In The Spent Fuel Pool Area, Administrative Procedure AP 4.02, Control Of Equipment

Validation Time: 20 minutes Time Critical: NO

Candidate: \_\_\_\_\_

Time Start: \_\_\_\_\_ Time Finish: \_\_\_\_\_

Performance Time: \_\_\_\_\_ minutes

Performance Rating: SAT \_\_\_\_\_ UNSAT \_\_\_\_\_

Comments:

Examiner: \_\_\_\_\_  
Signature

Date: \_\_\_\_\_

## EXAMINER COPY ONLY

Tools/Equipment/Procedures Needed:

- FHS-M-23, Attachment 1, Rev. 27, Heavy Load Data Sheet, with applicable sections completed by Heavy Load Person In Charge (HL PIC)

Also see **Simulator Operator Instructions** (last page of this document).

READ TO CANDIDATE

DIRECTION TO CANDIDATE:

I will explain the initial conditions, and state the task to be performed. All control room steps shall be performed for this JPM, including any required communications. I will provide initiating cues and reports on other actions when directed by you. Ensure you indicate to me when you understand your assigned task. To indicate that you have completed your assigned task return the handout sheet I provided you.

**EXAMINER NOTE:** If this JPM is given in the classroom, add the following to INITIAL CONDITIONS:

- V-10, Radwaste Area Supply Fan; V-14A and V-14B Radwaste Area Exhaust Fan are in service
- Both Control Room HVAC trains for filtration and cooling are operable, with the left train in service, normal operation
- VF-66, Fuel Pool Area Refueling Charcoal Filter, is bypassed (not in service)
- V-7, Fuel Handling Area Supply Fan; V-8A and V-8B, Radwaste Area Exhaust Fans are in service

INITIAL CONDITIONS:

- The Plant is in Mode 1
- A refueling outage was completed 95 days ago, with all spent fuel from the core stored in the south end of the Spent Fuel Pool
- You are an on-shift SRO
- It is a Tuesday, 'C' shift, 1700 hours
- Mechanical Maintenance has requested to move a heavy load, the MSB Shielding Lid from the Cask Washdown Pit onto the loaded fuel cask, in the Spent Fuel Pool
- This evolution is expected to begin immediately after authorization and to be completed by 2300 hours
- No other load movements are planned or in progress
- No fuel movement in the SFP is planned or in progress
- All spent fuel in the north tilt pit and has decayed for greater than one year

INITIATING CUES:

The Shift Manager directs you to approve the requested heavy load movement, ensuring all Operational prerequisites and requirements are met prior to the approval.

Proc. Step	TASK ELEMENT 1	STANDARD	Grade
n/a	FHS-M-23, Att. 1, Heavy Load Data Sheet located, with applicable sections completed by HL PIC	Operator obtains FHS-M-23, Att.1	S U
<p><b>Comment:</b>  <b>Notes:</b> <i>Evaluator provides candidate with the HL PIC completed FHS-M-23, Att. 1 Working Copy.</i></p>			

Proc. Step	TASK ELEMENT 2	STANDARD	Grade
n/a	FSH-M-23, Att. 6: Is the load a heavy load (>1300 lbs)?	SRO determines: <b>YES</b> , Object is a heavy load (MSB Shield Lid weighs 6457 lbs from Att. 2)	S U
<p><b>Comment:</b></p>			

Proc. Step	TASK ELEMENT 3	STANDARD	Grade
n/a	FSH-M-23, Att. 6: Is the load movement within Load Path 3 only?	<b>NO</b> Heavy Load path #4 determined for movement of DFS components between cask wash-down pit and cask loading floor area, Att.3	S U
<p><b>Comment:</b>  <b>EVALUATOR:</b> If asked by SRO what load move will be taking place, <b>Reply:</b> the MSB Shielding Lid is being moved from the Cask Wash-down area to the loaded fuel cask in the Spent Fuel Pool.   <b>CRITICAL STEP</b></p>			

Proc. Step	TASK ELEMENT 4	STANDARD	Grade
n/a	FSH-M-23, Att. 6: Will loads be moved over Load Path 1?	<u>NO</u>	S U
<p><b>Comment:</b></p> <p><b>EVALUATOR:</b> If asked by SRO what load move will be taking place, <b>Reply:</b> the MSB Shielding Lid is being moved from the Cask Wash-down area to the loaded fuel cask in the Spent Fuel Pool.</p> <p><b>CRITICAL STEP</b></p>			

Proc. Step	TASK ELEMENT 5	STANDARD	Grade
n/a	FSH-M-23, Att. 6: Will loads be moved over Load Path 4 (Main Fuel Pool)?	<u>YES</u>	S U
<p><b>Comment:</b></p> <p><b>CRITICAL STEP</b></p>			

Proc. Step	TASK ELEMENT 6	STANDARD	Grade
n/a	FSH-M-23, Att. 6: Has fuel decayed ≥ 30 days?	<u>YES</u> (given in the initial conditions)	S U
<p><b>Comment:</b></p> <p><b>CRITICAL STEP</b></p>			

Proc. Step	TASK ELEMENT 7	STANDARD	Grade
n/a	FSH-M-23, Att. 6: V-10, V-14A and V-14B inservice <b>OR</b> V-10 off and either V-14A OR V-14B inservice	V-10, V-14A and V-14B verified inservice	S U
<p>Comment:</p> <p><b>Evaluator Note: If this JPM is being given in the classroom, V-10, V-14A and V-14B are in service</b></p> <p><b>CRITICAL STEP</b></p>			

Proc. Step	TASK ELEMENT 8	STANDARD	Grade
n/a	FSH-M-23, Att. 6: Both CRHVAC filtration operable (refer to TS 3.7.10 if one train inoperable)	Both CRHVAC filtration trains verified operable	S U
<p>Comment:</p> <p><b>EVALUATOR:</b> If asked by SRO if both CRHVAC Filtration trains are operable, <b>RESPOND:</b> they are not on the LCO or LCO Annex sheet, for being inoperable or degraded.</p> <p><b>Evaluator Note: If this JPM is being given in the classroom, CRHVAC filtration is operable, with the left train in service in the normal mode of operation</b></p> <p><b>CRITICAL STEP</b></p>			

Proc. Step	TASK ELEMENT 9	STANDARD	Grade
n/a	FSH-M-23, Att. 6: Both CRHVAC cooling operable (refer to TS 3.7.11 if one train inoperable)	Both CRHVAC cooling trains verified operable	S U
<p>Comment:</p> <p><b>EVALUATOR:</b> If asked by SRO if both CRHVAC cooling trains are operable, <b>RESPOND:</b> they are not on the LCO or LCO Annex sheet, for being inoperable or degraded.</p> <p><b>Evaluator Note: If this JPM is being given in the classroom, CRHVAC cooling is operable, with the left train in service in the normal mode of operation</b></p> <p><b>CRITICAL STEP</b></p>			

Proc. Step	TASK ELEMENT 10	STANDARD	Grade
n/a	FSH-M-23, Att. 6: Has fuel decayed ≥90 days?	<u>YES</u> (given in the initial conditions)	S U
Comment:			

Proc. Step	TASK ELEMENT 11	STANDARD	Grade
n/a	FSH-M-23, Att. 6: VF-66 maybe bypassed OR out of service At least one V-8 shall be inservice	One V-8 fan verified inservice	S U
Comment: <i>Evaluator Note: If this JPM is being given in the classroom, V-7, V-8A and V-8B are in service, with VF-66 bypassed (not in operation)</i> <b>CRITICAL STEP</b>			

Proc. Step	TASK ELEMENT 12	STANDARD	Grade
n/a	FSH-M-23, Att. 6: Will loads be moved over Load Path 2?	<u>NO</u>	S U
Comment:			

Proc. Step	TASK ELEMENT 13	STANDARD	Grade
n/a	FSH-M-23, Att. 6: Will loads be moved over Load Path 3?	<b><u>NO</u></b>	<b>S U</b>
Comment:			

Proc. Step	TASK ELEMENT 14	STANDARD	Grade
n/a	FSH-M-23, Att. 6: Will non-heavy loads be moved under this procedure?	<b><u>NO</u></b> (given in initial conditions)	<b>S U</b>
Comment:			

Proc. Step	TASK ELEMENT 15	STANDARD	Grade
n/a	FSH-M-23, Att. 6: Will load be moved in an alternate path?	<b><u>NO</u></b> (Path 4 is the only path for this evolution)	<b>S U</b>
Comment:			

Proc. Step	TASK ELEMENT 16	STANDARD	Grade
3.4.4a	On-Shift, Duty SRO shall: <b>ENSURE</b> Plant conditions are met	SRO references Section 3.3, PLANT CONDITIONS, and ensures: No fuel movements in SFP Area (given in initial conditions)	<b>S U</b>
Comment:			



Proc. Step	TASK ELEMENT 17	STANDARD	Grade
3.4.4b	On-Shift, Duty SRO shall: <b>ENSURE</b> System/Equipment Conditions are met for the heavy load path(s) to be used	SRO verifies Equipment aligned/operable (has completed this step by ensuring Att. 6 complete)	S U
Comment:			

Proc. Step	TASK ELEMENT 18	STANDARD	Grade
3.4.4c	On-Shift, Duty SRO shall: <b>LIMIT</b> the duration of heavy load movement authorization as Plant Conditions OR System/Equipment Conditions dictate	N/A (Does not apply)	S U
Comment:			

Proc. Step	TASK ELEMENT 19	STANDARD	Grade
3.4.4d	On-Shift, Duty SRO shall: If plant systems OR equipment condition change ....	N/A (Does not apply)	S U
Comment:			

Proc. Step	TASK ELEMENT 20	STANDARD	Grade
3.4.4e	On-Shift, Duty SRO shall: An On-Shift Duty SRO shall <b>AUTHORIZE</b> movement of all heavy loads for no more than one week. Authorization to move heavy load(s) shall be documented in Attachment 1.	SRO enters on FSH-M-23, Att. 1: #4, in box (7) Signs, Dates and Times, in box (8) Today/1700 for Start in box (9) Today/2300 or 2400/ Signed for Stop in box(9)	S U
Comment:  <b>CRITICAL STEP</b>			

Proc. Step	TASK ELEMENT 21	STANDARD	Grade
5.1.1.d	On-Shift, Duty SRO shall: <b>DOCUMENT</b> authorization of heavy loads movements in the Operations log.	SRO makes log entry.	S U
Comment:			

**END OF TASK**

## CANDIDATE CUE SHEET

(TO BE RETURNED TO EXAMINER TO UPON COMPLETION OF TASK)

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## **SIMULATOR OPERATOR INSTRUCTIONS**

- IC-17, or any at power IC, CRVHAC and Plant ventilation in normal line up







