

NRC REGION III
INITIAL LICENSE EXAM
JOB PERFORMANCE MEASURE

JPM: RO SYSTEM a

**TITLE: TERMINATE FROM EMERGENCY
BORATION**

CANDIDATE: _____

EXAMINER: _____

JOB PERFORMANCE MEASURE
DATA PAGE

Task: Align Charging Pump Suction to SIRWT (Safety Injection Refueling Water Tank)

Alternate Path: NO

Facility JPM #: PL-OPS-EOP-032J

K/A: 004A4.18 Importance: RO: 4.3 SRO: 4.1

K/A Statement: Ability to manually operate and/or monitor in the control room:
Emergency borate valve

Task Standard: Emergency Boration secured with Charging Pump suction to the SIRWT
and all Charging Pumps operating.

Preferred Evaluation Location: Simulator In Plant

Preferred Evaluation Method: Perform Simulate

References: EOP-4.0, Loss Of Coolant Recovery
EOP Supplement 40, Charging Pump Suction Alignment

Validation Time: 5 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:

- EOP Supplement 40, Charging Pump Suction Alignment, Rev. 5

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.

INITIAL CONDITIONS:

- A Loss of Coolant Accident has occurred.
- SIS and CHR have occurred.
- PCS boron concentration has been verified greater than the required concentration per EOP Supplement 35, Determination of Emergency Boration Requirements.

INITIATING CUES:

- During performance of EOP-4.0, "Loss of Coolant Accident Recovery," Step 22, the Control Room Supervisor directs you to secure Emergency Boration per EOP Supplement 40 aligning Charging Pump suction to the SIRWT with all Charging Pumps left operating.

Proc. Step	TASK ELEMENT 1	STANDARD	Grade
n/a	Locate EOP Supplement 40, Charging Pump Suction Alignment	EOP Supplement 40 located.	S U
<p>Comment:</p> <p><i>Evaluator hands operator a Working Copy.</i></p>			

Proc. Step	TASK ELEMENT 2	STANDARD	Grade
2.01	Open Charging Pumps Suction From SIRWT Valve, MO-2160	MO-2160 handswitch taken to the open position (valve opens).	S U
<p>Comment:</p> <p>Note: MO-2160 will take a little time to stroke open.</p> <p>CRITICAL STEP</p>			

Proc. Step	TASK ELEMENT 3	STANDARD	Grade
2.02	Stop the Boric Acid Pumps. <ul style="list-style-type: none"> ▪ P-56A ▪ P-56B 	P-56A AND P-56B handswitches to the trip position (Pumps off).	S U
<p>Comment:</p> <p>CRITICAL STEP</p>			

Proc. Step	TASK ELEMENT 4	STANDARD	Grade
2.03	Close the following valves: <ul style="list-style-type: none"> ▪ Boric Acid Pump Feed Valve, MO-2140 ▪ Gravity Feed Valves <ul style="list-style-type: none"> ◦ MO-2169 ◦ MO-2170 	MO-2140, MO-2169, and MO-2170 handswitches taken to the closed position (valves close)	S U
Comment: Note: MO-2140, MO-2169, and MO-2170 will take a little time to stroke closed. CRITICAL STEP			

Proc. Step	TASK ELEMENT 5	STANDARD	Grade
2.04	Ensure closed Charging Pumps Suction VCT Outlet Valve, MO-2087.	MO-2087 verified closed.	S U
Comment:			

Proc. Step	TASK ELEMENT 6	STANDARD	Grade
2.05	Operate each Charging Pump for at least five minutes.	Determines that all Charging pumps will be left in-service (given in initial conditions).	S U
Comment:			

Proc. Step	TASK ELEMENT 7	STANDARD	Grade
2.06	WHEN each pump has been operated at least five minutes,	Determines that all Charging pumps will be left in-service (given in initial conditions).	S U
<p>Comment: <i>Evaluator Cue: Inform Operator that another Operator will perform this step.</i></p>			

Proc. Step	TASK ELEMENT 8	STANDARD	Grade
n/a	EOP Supplement 40 is Signed, Dated/Timed	EOP Supplement 40 Signed, Dated/Timed	S U
<p>Comment:</p>			

Proc. Step	TASK ELEMENT 9	STANDARD	Grade
n/a	Notify CRS of the completion of EOP Supplement 40	CRS notified that EOP Supplement 40 complete	S U
<p>Comment:</p>			

END OF TASK

CANDIDATE CUE SHEET

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

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SIMULATOR OPERATOR INSTRUCTIONS

USE IC-79