

OPERATOR TRAINING PROGRAM  
JOB PERFORMANCE MEASURE

<b>STATION:</b>	SALEM		
<b>SYSTEM:</b>	Abnormal Plant Evolutions		
<b>TASK:</b>	Locally Control Charging Flow IAW S2.OP-AB.CR-0001.		
<b>TASK NUMBER:</b>	1130070501		
<b>JPM NUMBER:</b>	19-01 NRC IP-i		
<b>ALTERNATE PATH:</b>	<input type="checkbox"/>	<b>K/A NUMBER:</b>	APE 068 AA1.22
<b>APPLICABILITY:</b>		<b>IMPORTANCE FACTOR:</b>	4.0      4.3
EO <input type="checkbox"/>	RO <input checked="" type="checkbox"/>	STA <input type="checkbox"/>	SRO <input checked="" type="checkbox"/>
<b>EVALUATION SETTING/METHOD:</b>	In Plant / Simulate		
<b>REFERENCES:</b>	S2.OP-AB.CR-0001, Rev. 23 (checked 1-15-20)		
<b>TOOLS AND EQUIPMENT:</b>	JAM Key		
<b>VALIDATED JPM COMPLETION TIME:</b>	10 min		
<b>TIME PERIOD IDENTIFIED FOR TIME CRITICAL STEPS:</b>	N/A		
<b>Developed By:</b>	R. Chan Instructor	<b>Date:</b>	1-15-20
<b>Validated By:</b>	Moore / Klein SME or Instructor	<b>Date:</b>	1-16-20
<b>Approved By:</b>	N/A Training Department	<b>Date:</b>	
<b>Approved By:</b>	N/A Operations Department	<b>Date:</b>	
<b>ACTUAL JPM COMPLETION TIME:</b>			
<b>ACTUAL TIME CRITICAL COMPLETION TIME:</b>			
<b>PERFORMED BY:</b>			
<b>GRADE:</b>	<input type="checkbox"/> SAT	<input type="checkbox"/> UNSAT	
<b>REASON, IF UNSATISFACTORY:</b>			
<b>EVALUATOR'S SIGNATURE:</b>			<b>DATE:</b>

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**REVISION HISTORY**

**JPM NUMBER: 19-01 NRC IP-i**

<b>Rev #</b>	<b>Date</b>	<b>Description</b>	<b>Validation Required</b>
00	6-20-17	Added revision history and simulator setup pages. Editorial comments from IP 71111.11 FASA. Incorporated comments from validation.	No
01	9-18-19	APE 068 AA1.22: Ability to operate and/or monitor the following as they apply to the Control Room Evacuation: Flow control valve for RCS charging header  Deleted actions to locally trip the reactor. Added photo of Panel 216 to assist evaluator.	Yes

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**SIMULATOR SETUP INSTRUCTIONS**

**SYSTEM:** Abnormal Plant Evolutions  
**TASK:** Locally Control Charging Flow IAW S2.OP-AB.CR-0001.  
**TASK NUMBER:** 1130070501  
**SIMULATOR IC:** N/A  
**MALFUNCTIONS / REMOTES:** N/A

**OVERRIDES:** N/A

**SPECIAL INSTRUCTIONS:**

- This JPM is located inside the Unit 2 RCA.
- **NOTE: Evaluator must have a JAM key to give to operator at start of JPM. Operators do not have individual JAM keys!**
- Notification to control room will be required when opening panel door in charging alley.

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NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

**SYSTEM:** Abnormal Plant Evolutions

**TASK:** Locally Control Charging Flow IAW S2.OP-AB.CR-0001.

**TASK NUMBER:** 1130070501

**INITIAL CONDITIONS:**

- The Unit 2 Control Room has been evacuated in accordance with S2.OP-AB.CR-0001, Control Room Evacuation.
- A reactor trip from 100% was initiated prior to evacuating the Control Room.

**INITIATING CUE:**

- You are directed to take local control of charging flow IAW S2.OP-AB.CR-0001, Control Room Evacuation, Attachment 5, starting at Step 8.0 (**see attached page**).
- Steps 1.0-7.0 of Attachment 5 have been completed.

Successful Completion Criteria:

1. All critical steps completed.
2. All sequential steps completed in order.
3. All time-critical steps completed within allotted time.
4. JPM completed within validated time. Completion time may exceed the validated time if satisfactory progress is being made.

**Task Standard for Successful Completion:**

1. **Locally controls Charging flow using hand air operator IAW S2.OP.AB.CR-0001**
2. **Correctly adjusts air operator to change charging flow to the desired flow of 70 gpm.**

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NAME: \_\_\_\_\_  
 DATE: \_\_\_\_\_

**SYSTEM:** Abnormal Plant Evolutions

**TASK:** Locally Control Charging Flow IAW S2.OP-AB.CR-0001

* #	STEP NO.	STEP (Shaded area denotes Critical Step) (* Critical Step) (# Sequential Critical Step)	STANDARD (Bolded area identifies Task Standard)	EVAL S/U	COMMENTS (Required for UNSAT evaluation)
		Evaluator provide blank copy of Attachment 5, <b>a JAM Key</b> , and state: "You have a radio and all required keys."			
	CUE:	Fill in the JPM Start Time when the student acknowledges the Initiating Cue.  <b>START TIME:</b> _____			
			Proceeds to Unit 2 Panel 216-1, Chg Pmps FL & PR Inst Pnl.  <b>Examiner's Note:</b> Panel 216-1 will cause an alarm in the Control Room when opened. The Control Room must be notified <b>prior</b> to opening this panel, and when it is secured.		
	8.0	<b>TAKE</b> control of 2CV55, Cent Chg Pmp Flow Cont Valve, by performing the following:			
	8.1	<b>RECORD</b> the charging flow as indicated on 2FI-128A. _____ gpm indicated on 2FI-128A	Records charging flow from 2FI-128A, Charging Pump Flow Indication. <b>(Typically around 90 gpm)</b>		
*	8.2	<b>PLACE</b> local E/P Bypass Line Selector Valve in Manual.	<b>Locates local E/P Bypass Selector Valve and simulates rotating valve (clockwise) to MAN position.</b>		

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TASK: Locally Control Charging Flow IAW S2.OP-AB.CR-0001

* #	STEP NO.	STEP (Shaded area denotes Critical Step) (* Critical Step) (# Sequential Critical Step)	STANDARD (Bolded area identifies Task Standard)	EVAL S/U	COMMENTS (Required for UNSAT evaluation)
	8.3	Using the MANUAL hand air operator, <b>ENSURE</b> that the flow rate as noted in Step 8.1 is being maintained with 2CV55.	<p>Reads flowrate from 2FI-128A (<b>Note: field labeled as 2FT-128A</b>), Charging Pump Flow Indication to ensure the flow rate is maintained with 2CV55.</p> <p><b>CUE #1:</b> <i>The flow rate is the same as recorded in Step 8.1. The CRS directs you to adjust charging flow to <b>70 gpm.</b> (<b>OR</b> a value not currently indicating on 2FI-128A).</i></p> <p><b>Examiner's Note:</b> the task here is to see if the operator understands how to operate the hand sender to adjust charging flow.</p>		

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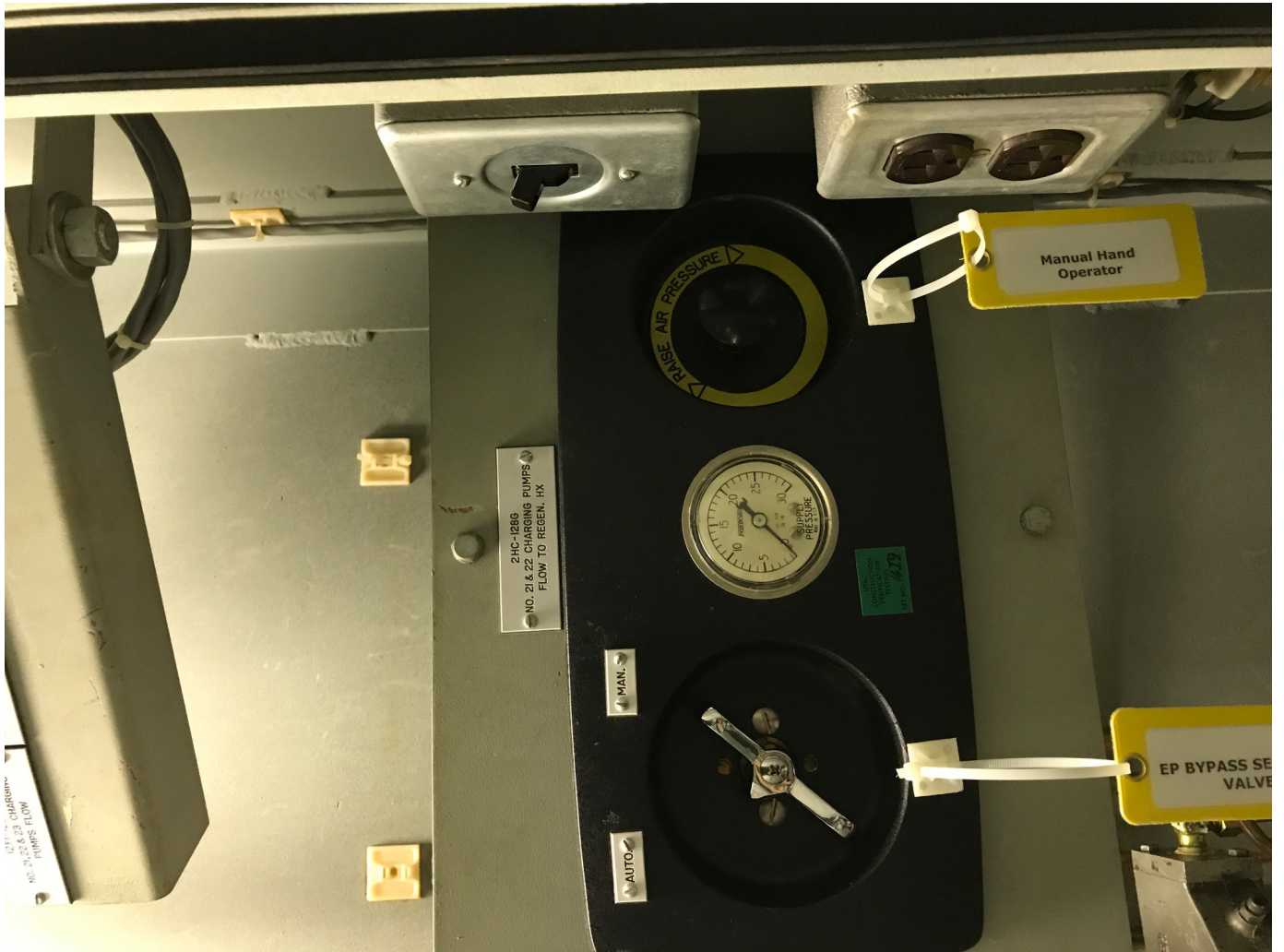
NAME: \_\_\_\_\_  
 DATE: \_\_\_\_\_

SYSTEM: Abnormal Plant Evolutions

TASK: Locally Control Charging Flow IAW S2.OP-AB.CR-0001

* #	STEP NO.	STEP (Shaded area denotes Critical Step) (* Critical Step) (# Sequential Critical Step)	STANDARD (Bolded area identifies Task Standard)	EVAL S/U	COMMENTS (Required for UNSAT evaluation)
*		Adjust charging flow using hand air operator.	<p><b>Simulates rotating hand air operator in the <u>clockwise direction</u> to RAISE air pressure to lower charging flow to 70 gpm.</b></p> <p><b><u>CUE #1:</u> Charging flow is 70 gpm.</b></p> <p><b><u>CUE #2:</u> IF hand sender is rotated counter-clockwise, THEN state the following: <i>charging flow has increased to 100 gpm.</i></b></p> <p><b>Examiner's Note:</b> Raising air pressure lowers flow, Decreasing air pressure raise flow. (2CV55 fails open on loss of air)</p> <p><b><u>CUE #3:</u> JPM is Complete when flow is adjusted to the desired value.</b></p>		
	CUE:	<p><u>WHEN</u> operator informs you the task is complete, OR the JPM has been terminated for other reasons, <u>THEN RECORD</u> the STOP TIME.</p> <p><b>STOP TIME:</b> _____</p>	<p><b>Terminate JPM when operator completes adjusting charging flow.</b></p>		

Inside Charging Panel 216:



## JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

**JPM#:** 19-01 NRC IP-i

**NOTE:** All steps of this checklist should be performed upon initial validation. Prior to JPM usage, revalidate JPM using steps 8 and 11 below.

- RC 1. Task description and number, JPM description and number are identified.
- RC 2. Knowledge and Abilities (K/A) references are included.
- RC 3. Performance location specified. (in-plant, control room, or simulator)
- RC 4. Initial setup conditions are identified.
- RC 5. Initiating and terminating Cues are properly identified.
- RC 6. Task standards identified and verified by SME review.
- RC 7. Critical steps meet the criteria for critical steps and are identified with an asterisk (\*).
- RC 8. Verify the procedure referenced by this JPM matches the most current revision of that procedure: Procedure Rev. 23 Date 1-15-20
- RC 9. Pilot test the JPM:
  - a. verify Cues both verbal and visual are free of conflict, and
  - b. ensure performance time is accurate.
- N/A 10. If the JPM cannot be performed as written with proper responses, then revise the JPM.
- N/A 11. When JPM is revalidated, SME or Instructor sign and date JPM cover page.

SME/Instructor: R. Chan Date: 1-15-20

SME/Instructor: R. Moore Date: 1-16-20

SME/Instructor: J. Klein Date: 1-16-20

## INITIAL CONDITIONS:

- ❖ The Unit 2 Control Room has been evacuated in accordance with S2.OP-AB.CR-0001, Control Room Evacuation.
- ❖ A reactor trip from 100% was initiated prior to evacuating the Control Room

## INITIATING CUE:

- ❖ You are directed to take local control of charging flow IAW S2.OP-AB.CR-0001, Control Room Evacuation, Attachment 5, starting at Step 8.0 (**see attached page**).
- ❖ Steps 1.0-7.0 of Attachment 5 have been completed.

