

	Exelon Nuclear				
	Job Performance Measure				
Д	Aligning Fire Protection Water to SSMP Room Cooler				
	JPM N	lumber: I			
	Revision Number: 00				
	Date: 03/11/05				
Developed By:	Instructor		Date		
Validated By:	SME or Instructor		 Date		
Review By:	Operations Represent	tative	 Date		
Approved By:	Training Department		Date		

## JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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

- Task description and number, JPM description and number are identified.
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- 5. Initiating and terminating cues are properly identified.
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    - 7. Critical steps meet the criteria for critical steps and are identified with an asterisk (\*).
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     Procedure Rev. \_\_\_\_ Date \_\_\_\_
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       a. verify cues both verbal and visual are free of conflict, and
       b. ensure performance time is accurate.
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    - 11. When JPM is revalidated, SME or Instructor sign and date JPM cover page.

SME/Instructor	Date
SME/Instructor	Date
SME/Instructor	Date

## **Revision Record (Summary)**

1. **Revision 00,** This JPM was modified from LP-057-I for ILT NRC Exam 03-01, IAW NUREG 1021, Rev 9.

- There is a severe fire in RB-1S. SSMP is the injection source for U-1. Service Water is no longer available to the SSMP Room Cooler.
- You have been given an S-key.

## **INITIATING CUE**

Align Fire Protection Water to SSMP Room Cooler in accordance with QCARP 0010-01 Attachment D.

Provide examinee with: Copy of QCARP 0010-01 Attachment D.

# Fill in the JPM Start Time when the student acknowledges the Initiating Cue.

#### **Information For Evaluator's Use:**

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- \* Denotes critical steps.
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Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section at the bottom of the page. The comment section should be used to document the reason that a step is marked as unsatisfactory and to document unsatisfactory performance relating to management expectations.

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The timeclock starts when the candidate acknowledges the initiating cue.

## JPM Start Time:

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
CUE: If candic 0 psig.	late checks water pressure of	n ½-2941-23 and 24, indicate that th	ey botl	n indica	ate
*Attachment D, step 1	•Close 1/2-2901-25, SERV WTR TO SAFE SHUTDOWN PMP RM HVAC CLR SV.•	Turns valve hand wheel clockwise until valve no longer moves.			
CUE: Indicate	e to the candidate that the val	lve will no longer turn (in the direct	ion he/	she tur	rns it)
*Attachment D, step 2	•Unlock 1/2-2901-9, FIRE PROTECTION WTR TO SAFE SHUTDOWN PMP RM HVAC CLR SV.•	Unlocks valve.			
*Attachment D, step 3	•Open 1/2-2901-9.•	Turns valve hand wheel counterclockwise until valve no longer moves.			
CUE: Indicate turn (in	e to the candidate that the loc the direction he/she turns it)	k is unlocked. The valve hand when	el will 1	no long	jer
*Attachment D, step 4	•Close 1/2-2999-9, SERVICE WATER TO SSMP ROOM COOLER BYPASS VALVE.•	Turns valve hand wheel clockwise until valve no longer moves.			
CUE: Indicate	e to the candidate that the val	lve will no longer turn ( <i>in the directi</i>	on he/s	he turi	ns it)
Attachment D, step 5	Verify Room Cooler Operation.	Check to see if cooler is cooling room.			
CUE: After proper checks are made for Cooler operation (Proper checks should include that the candidate listens or feels for air flow discharging from the cooler), indicate to the candidate that the room is becoming cooler. If the candidate checks water pressure on ½-2941-23 and 24, indicate that they now read					
as indic	Net G. 111 US that the st	Deserve communication to the in			
Attachment D, step 6	are complete.	Proper communication techniques.			

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	<b>UNSAT</b>	Comment Number
CUE: When informed, acknowledge as Unit One Unit Supervisor that you understand that the SSMP Room Cooler is lined up to the fire header.					
CUE: The JPM is complete.					

JPM Stop Time: \_\_\_\_\_

Operator's Name:	
Job Title:	RO SRO

JPM Title: Aligning SSMP Room Cooler to Alternate Cooling (Fire Main).

JPM Number: In-Plant I Revision Number: <u>00</u> Task Number and Title: **SN 2900-P08.** Given Unit 1 in an QCARP condition, transfer SSMP HVAC cooling water supply to the fire header and verify SSMP room cooler operation in accordance with QCARP 0010-01 Attachment D.

K/A Number and Importance:	
<b>K/A:</b> 295018.AA1.01	<b>RATING:</b> 3.3/3.4

Suggested Testing Environment: Plant

Actual Testing En	vironment:	Simulator Control Roo	om 🛛 In-Plant
Testing Method:	Simulate	Alternate Path: 🗌 Ye	es 🖂 No
	Perform	SRO Only: 📋 Ye	es 🖂 No

☐ Yes	🛛 No
	☐ Yes

Estimated Time to Complete: 🔟	24 minutes	Actual Time Used: _	minutes
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References: QCARP 0010-01 Attachment D, Rev. 3

#### **EVALUATION SUMMARY:**

Were all the Critical Elements performed satisfactorily?		Yes		No
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The operator's performance	was evaluated against th	ne standards contained in this JPM, ar	nd has
been determined to be:	□ Satisfactory	Unsatisfactory	

Comments:	
Evaluator's Name:	(Print)
Evaluator's Signature:	Date:

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- There is a severe fire in RB-1S. SSMP is the injection source for U-1. Service Water is no longer available to the SSMP Room Cooler.
- You have been given an S-key.
- This JPM is not time critical.

### INITIATING CUE

Align Fire Protection Water to SSMP Room Cooler in accordance with QCARP 0010-01 Attachment D.



Exelon Nuclear					
	Job Performance Measure				
	INJECT SBLC Te	st Tank to Rx			
	JPM Num	ber: J			
	Revision Nu	mber: <u>00</u>			
	Date: 03/	<u>′11/05</u>			
Developed By:	Instructor	Date	—		
Validated By:					
	SME or Instructor	Date			
Review By:	Operations Representativ	ve Date	_		
Approved By:					
	Training Department	Date			

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SME/Instructor	Date
SME/Instructor	Date
SME/Instructor	Date

## **Revision Record (Summary)**

1. **Revision 00,** This JPM was modified from LP-006-I for ILT NRC Exam 03-01, IAW NUREG 1021, Rev 9.

- Reactor water level restoration is required on Unit \_\_\_\_\_ per QGA 100.
- The Unit Supervisor has determined that the Standby Liquid Control (SBLC) system is required to restore Reactor water level.
- SBLC is in standby per QCOP 1100-01.
- The Unit NSO is standing by in the Control Room.
- You have been issued an "S" key.
- The Clean Demin System is in operation.

#### **INITIATING CUE**

ALLIGN the Unit\_\_\_\_\_SBLC system to inject from the TEST TANK into the RPV per QCOP 1100-08. MAINTAIN test tank level during injection.

Provide examinee with a copy of QCOP 1100-08.

Fill in the JPM Start Time when the student acknowledges the Initiating Cue.

#### **Information For Evaluator's Use:**

UNSAT requires written comments on respective step.

- \* Denotes critical steps.
- Denotes critical elements of a critical step.

Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section at the bottom of the page. The comment section should be used to document the reason that a step is marked as unsatisfactory and to document unsatisfactory performance relating to management expectations.

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The timeclock starts when the candidate acknowledges the initiating cue.

## JPM Start Time:

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number	
CUE: I	F ASKED, place your hand at $\approx 40^{\circ}$	% full and state: "The tank level is h	ere."			
*F.1.a.	•Fill the SBLC test tank.• (1(2)1104) to $\geq$ 75% full.	Opens 1(2)-1199-102 (CLEAN DEMIN WTR SUPPLY ) and opens 1(2)-1101-7 (TEST TANK DEMIN WTR INLET) to fill test tank to at least 75% full then closes 1(2)-1101-7.				
CUE: I	Place your hand at ≈ 80% full and st	tate: "The tank level is here."				
*F.1.b. (1)	•Unlock and close SBLC TK OUTLET valve.•	Unlocks 1(2)-1101-4 and turns in clockwise.				
CUE: 7	The valve turns freely and will no lo	nger turn.				
*F.1.b. (2)	•Unlock and close SBLC TK OUTLET valve.•	Unlocks 1(2)-1199-104 and turns it clockwise.				
CUE: 7	The valve turns freely and will no lo	nger turn.				
*F.1.c.	•Unlock and open TEST TK OUTLET valve.•	Unlocks and opens 1(2)-1101-8 TEST TK OUTLET.				
CUE: 7	The valve turns freely and will no lo	nger turn.				
*F.2.	•Inject SBLC test tk.•	Notifies CR that test tank is lined up (by phone or radio).				
CUE: As the NSO: "I understand that the test tank is lined up. I'm going to start the "A" SBLC pump."						
CUE: The "A" SBLC pump is on. It has been 2 minutes. Place your hand at ≈ 25% full and state: "The tank level is now here."						
IF ASKED, report that the SBLC BORON tank level is not changing.						
*F.2.a.	•Add water to the SBLC test tank to maintain Test Tank 25% to 75% full.•	Throttle opens 1(2)-1101-7, TEST TK DEMIN WTR INLET valve to restore test tank level.				

<u>STEP</u>	ELEMENT	<u>STANDARD</u>	SAT	UNSAT	Comment Number	
CUE: Place your hand at ≈ 50% full and indicate, "The tank level is steady here."						
CUE: The JPM is complete.						

JPM Stop Time: \_\_\_\_\_

Operator's Name: Job Title:	NLO [	□RO □SF	RO 🗌 STA	SRO	Cert			
JPM Title: JPM Number: Task Number and Ti alternate RPV inject water to the RPV in	INJECT In-Plant itle: <b>SRN-</b> 1 ion system accordance	SBLC Test <sup>7</sup> J I <b>100-P09.</b> G s be lined up e with QCOF	Tank to Rx Siven a reacto 9, locally align 9 1100-08.	r plant in 1 SBLC s	Revisior a QGA ystem va	n Numb conditio alves to	er: <u>00</u> on requir inject te	ing st tank
K/A Number and Im	portance: <b>K/A:</b>	296031.EA	.08 <b>R</b> a	ating:	3.8/3.9			
Suggested Testing l	Environm	ent: Plant						
Actual Testing Env	vironment:	Sin Sin	nulator 🗌 Co	ontrol Ro	om	⊠In-P	lant	
Testing Method:	Simula	nte A m	Alternate Path SRO Only	n: □ Ye ∕: □ Ye	es es	⊠ No ⊠ No		
Time Critical:	☐ Yes	🛛 No						
Estimated Time to	Complete	: <u>22</u> mir	nutes Actua	l Time U	sed:	mii	nutes	
<b>References:</b> QCOP	1100-08, F	Rev. 10, Read	ctor Level Ad	dition wi	th SBLC	Test T	ank Injeo	ction
<b>EVALUATION SU</b> Were all the Critical	MMARY Elements	: performed sa	atisfactorily?		Yes		No	
The operator's perfo been determined to b	ormance wa	as evaluated a	against the sta actory	andards c	ontained nsatisfac	in this tory	JPM, and	d has
Comments:								
Evaluator's Nam	ne:				(P	rint)		
Evaluator's Signatur	re:				Da	te:		

- Reactor water level restoration is required on Unit \_\_\_\_\_ per QGA 100.
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#### **INITIATING CUE**

ALLIGN the Unit\_\_\_\_\_SBLC system to inject from the TEST TANK into the RPV per QCOP 1100-08. MAINTAIN test tank level during injection.



-1

Exelon Nuclear					
Job Performance Measure					
F	Pull ARI Fuses in Aux El	lectric Room du	ring ATWS		
	JPM Nu	umber: K			
	Revision N	Number: <u>00</u>			
	Date: 03/11/05				
Developed By:					
	Instructor		Date		
Validated By:					
:	SME or Instructor		Date		
Review By:		-41			
	Operations Represent	ative	Date		
Approved By:					
	I raining Department		Date		

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SME/Instructor	Date

## **Revision Record (Summary)**

**1. Revision 00,** This JPM was developed for ILT NRC Exam 03-01 IAW NUREG 1021, Rev 9.

You are the Unit \_\_\_\_ Admin NSO A hydraulic ATWS has occurred on Unit \_\_\_\_\_ with reactor power currently at 15%.

Reactor water level has been lowered to reduce power.

QCOP 300-28 is in progress:

- The NSO is manually driving Control Rods.
- The Reactor scram has been RESET, however the scram valves are still OPEN.

## **INITIATING CUE**

Pull the ARI fuses in accordance with QCOP 300-28, to allow the scram valves to CLOSE.

Provide examinee with: <u>QCOP 300-28, and an ATWS key</u>, *after* the candidate has located the correct packet in the Main Control Room, (when directed by the cue.)

Fill in the JPM Start Time when the student acknowledges the Initiating Cue.

### **Information For Evaluator's Use:**

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The timeclock starts when the candidate acknowledges the initiating cue.

## JPM Start Time:

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number	
	Obtain procedure & equipment to be used.	Locates packet for QCOP 300-28 in QGA equip. storage cabinet in CR.				
CUE: You now have: (the contents of the bag is) <ul> <li>4 jumpers,</li> <li>A fuse puller,</li> <li>The key to the Scram Test Switch Panel,</li> <li>The key to the 2201(2)-70A/B panels</li> <li>A copy of QCOP 0300-28.</li> </ul> <li>(GIVE the candidate a the copy of OCOP 300-28 AND the key to the 2201(2)-70 A/B panel)</li>						
*F.5.e (1).	•Pulls ARI fuses in panel 2201(2)- 70A panel.•	Removes Fuse F20A, second fuse from the bottom of the fuse block & F21A, bottom fuse of fuse block.				
CUE: Fuse	es F20A & F21A are removed.					
*F.5.e.(2)	•Pulls ARI fuses in panel 2201(2)- 70B panel.•	Removes Fuse F20B,second fuse from the bottom of the fuse block & F21B, bottom fuse of fuse block				
CUE: Fuses F20B & F21B are removed.						
CUE: The Unit Supervisor has assigned other Control Room Operators to initiate all further steps to insert the remaining Control Rods.						
EVALUATOR: The JPM is complete.						

JPM Stop Time: \_\_\_\_\_

Operator's Name: Job Title:	□ NLO □ RO □ SRO □ STA □ SRO Cer	rt
JPM Title: JPM Number: Task Number and T perform the local ac ARI fuses in accord	Pull ARI Fuses in Aux Electric Room during A In-Plant K Re Citle: <b>SN-0300-P19</b> - Given a reactor plant in an A ctions to isolate and depressurize the scram air her lance with QCOP 0300-28.	ATWS vision Number: <u>00</u> ATWS condition (QGA), ader and remove and install
K/A Number and In	nportance: <b>K/A:</b> 201001.K2.05 <b>Rating:</b> 4.5/4.5	
Suggested Testing	<b>Environment:</b> In-Plant	
Actual Testing Env	vironment:	n 🖂 In-Plant
Testing Method:	⊠ SimulateAlternate Path:Yes□ PerformSRO Only:Yes	$\begin{array}{ c c }\hline & No\\ \hline & No \end{array}$
Time Critical:	🗌 Yes 🛛 No	
Estimated Time to	<b>Complete:</b> <u>12</u> minutes <b>Actual Time Used</b>	d: minutes
References: QCOP	300-28	
<b>EVALUATION SU</b> Were all the Critica	UMMARY: I Elements performed satisfactorily?	Yes 🗌 No
The operator's perfected been determined to	ormance was evaluated against the standards cont be:	tained in this JPM, and has ttisfactory
Comments:		
Evaluator's Name:		_ (Print)
Evaluator's Signatu	ire:	Date:

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