Exelon Nuclear

Job Performance Measure

Initiate Standby Liquid Control with Failure to Inject

JPM Number: 2014 ILT NRC JPM a

Revision Number: <u>00</u>

Date: 02/27/14

Developed By:		
	Instructor	Date
Validated By:		
·	SME or Instructor	Date
Reviewed By:		
-	Operations Representative	Date
Approved By:		
-	Training Department	Date

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

NOTE:	•	s of this checklist should be performed upon initial JPM usage, revalidate JPM using steps 9 and 13	
	1.	Task description and number, JPM description a	and number are identified.
	2.	Knowledge and Abilities (K/A) references are in	cluded.
	3.	Performance location specified. (in-plant, control	l room, simulator, or other)
	4.	Initial setup conditions are identified.	
	5.	Initiating cue (and terminating cue if required) ar	re properly identified.
	6.	Task standards identified and verified by SME re	eview.
	7.	Critical steps meet the criteria for critical steps a asterisk (*).	and are identified with an
	8.	If an alternate path is used, the task standard cocompletion.	ontains criteria for successfu
	9.	Verify the procedure(s) referenced by this JPM Procedure QCOP 1100-02 Rev: 12 Rev:	reflects the current revision:
	10.	Verify cues both verbal and visual are free of co	nflict.
	11.	Verify performance time is accurate	
	12.	If the JPM cannot be performed as written with previse the JPM.	proper responses, then
	13.	When JPM is initially validated, sign and date JF validations, sign and date below:	PM cover page. Subsequer
		SME / Instructor	Date
		SME / Instructor	Date
		SME / Instructor	 Date

Revision Record (Summary)

Revision 00, Renamed 2014 ILT NRC JPM a. Restarted revision numbering accordingly.

Previous changes were:

Revision 06, Reworded to match wording of LS-008-I, the non-faulted version of the same JPM.

Revision 07, JPM revised to reflect procedure changes.

Revision 08, JPM revised to reflect simulator setup commands and new average performance time.

Revision 09, JPM revised to reflect procedure changes.

Revision 10, JPM revised to reflect single pump injection, procedure change, and removal of one critical task.

SIMULATOR SETUP INSTRUCTIONS

1. Reset the simulator to any IC at power > 20%

2. Manual Actuation:

Ensure the SBLC key is in the Control switch.

3. Malfunctions (contained in caep file "A caep.cae")

Setup for a jpm|00:00:00|00

Fail the SBLC pumps to work (2 commands)|00:00:00|01

imf SL01A|00:00:02|02

imf SL01B|00:00:04|03

Set triggers 1 and 2 true when both squib lights are out | 00:00:04 | 04

trgset 1"(.NOT. ZLOHS11130301(2)) .AND. (.NOT. ZLOHS11130301(4))" |00:00:06|05

trgset 2"(.NOT. ZLOHS11130301(2)) .AND. (.NOT. ZLOHS11130301(4))" |00:00:08|06

When triggers 1 and 2 true, delete the pump trips | 00:00:00 | 07

trg 1 "dmf sl01a" |00:00:10|08

trg 2 "dmf sl01b" |00:00:12|09

4. Remotes:

NONE

5. Overrides:

NONE

- 6. When the above steps are completed for this and other JPMs to be run concurrently, then validate the concurrently run JPMs using the JPM Validation Checklist.
- 7. This completes the setup for this JPM.





INITIAL CONDITIONS

- U-1 has experienced an ATWS. The following conditions exist:
 - o Reactor power > 5%.
 - o Both Recirc pumps were tripped per QGA 101.
- There is no LOCA in progress.
- The SBLC system is in standby lineup.
- The Unit Supervisor has determined that SBLC must be initiated per QGA 101.
- This JPM is not time critical.

INITIATING CUE

Inject the Standby Liquid Control System per the hard card.

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. The comment section should be used to document: the reason that a step is marked as unsatisfactory, marginal performance relating to management expectations, or problems the examinee had while performing the JPM. Comments relating to procedural or equipment issues should be entered and tracked using the site's appropriate tracking system.

Some operations that are performed from outside of the control room may require multiple steps. These items may be listed as individual steps in this JPM. It is acceptable for the candidate to direct the local operator to perform groups of procedure steps instead of calling for each individual item to be performed.

The timeclock starts when the candidate acknowledges the initiating cue.

SRRS: 3D.105 (when utilized for operator initial or continuing training)

JPM St	art Time:	
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STEP	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number	
	Obtain procedure to be used.	Obtains procedure QCOP 1100- 02 hard card for injecting SBLC.				
F.1.	Select System 1 or 2 with keylock switch A and B SELECT.	Positions SBLC keylock switch to System 1 or 2.				
	ATOR NOTE: Initial cue states 'vith one pump at a time.	"no LOCA in progress," candida	te sho	uld or	nly	
*F.2.	●Determines SBLC NOT injecting.●	Determines SBLC NOT injecting by any one or more of the following indications:				
		SBLC flow light NOT lit.				
		SBLC tank level is NOT decreasing. (LI-1-1140-2)				
		Pump discharge press < Rx press. (PI-1-1140-1)				
		Verify neutron flux NOT decreasing. (APRM recorders)				
EVALUATOR NOTE: Alternate path starts here.						
*F.3.	●Attempt to inject SBLC with the opposite switch position.●	Repositions SBLC keylock switch to the opposite position that was initially selected.				
SIMULATOR OPERATOR NOTE: When operator takes switch to the opposite position, verify triggers 1 and 2 go true and malfunctions SL01A and SL01B are deleted.						
	Reports SBLC is injecting.	Informs US that SBLC is injecting.				
EVALUATOR: The candidate should inform you that the task is complete.						

JPM Stop Time:			
	 	 	

JPM SUMMARY

Operator's Name:		Job Title: ☐ EO ☐ RO [☐ STA/IA	
JPM Title:	Initiate Standby Liquid Control wit	h Failure to Inject	
JPM Number:	2014 ILT NRC JPM a	Revision Number	: <u>00</u>
Task Number an	d Title:		
	SR-1100-P02 (Freq: LIC=A) (ILT inject boron prior to exceeding 11 core instability is observed in according (Important PRA Operator Action most probable Core Damage Seq.	0 degrees torus water temper ordance with QGA 101 and 0 starting SBLC terminates 1	erature OR if QCOP 1100-02. of the top 100
K/A Number and	Importance: K/A: 211000 A	1.02 Rating: 4.2/4	2
Suggested Testin	ng Environment: Simulator		
Alternate Path:	⊠Yes □No SRO Only: □Yes	s ⊠No Time Critical: □	Yes ⊠No
Reference(s): Q	COP 1100-02, Rev. 12, INJECTIC	N OF STANDBY LIQUID CO	ONTROL
Actual Testing E	Environment: ⊠ Simulator □	Control Room In-Plant	☐ Other
Testing Method	: ☐ Simulate ⊠ Perform		
Estimated Time t	o Complete: <u>6.0</u> minutes	Actual Time Used:	minutes
EVALUATION S Were all the Criti	UMMARY: cal Elements performed satisfactor	rily? □Yes □] No
	erformance was evaluated against this JPM and has been determined] Unsatisfactory
Comments:			
Evaluator's Nan	ne:	(Print)	
Evaluator's Sigi	nature:ered page, a blank page is automatically generated after t	Date:	from this page]

SRRS: 3D.105 (when utilized for operator initial or continuing training)

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