

Job Performance Measure

Determine Availability to Assume Shift per Work Hour Rules Application

JPM Number: A-RO-46Revision Number: 01Date: 3/4/2024

Developed By: _____ / _____
Instructor: Print / Sign Date

Reviewed By: _____ / _____
SME or Instructor: Print / Sign Date

Reviewed By: _____ / _____
Operations Representative: Print / Sign Date

Approved By: _____ / _____
Training Department: Print / Sign Date

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

NOTE: All steps of this checklist should be performed upon initial validation.
Prior to JPM usage, revalidate JPM using steps 9 and 13 below.

1. Task description and number, JPM description and number are identified. _____
2. Knowledge and Abilities (K/A) references are included. _____
3. Performance location specified. (in-plant, control room, simulator, or other) _____
4. Initial setup conditions are identified. _____
5. Initiating cue (and terminating cue if required) are properly identified. _____
6. Task standards identified and verified by instructor or SME review. _____
7. Critical steps meet the criteria for critical steps and are identified with an asterisk (*). _____
8. IAW NUREG 1021 Appendix C, clearly identify the task standard (i.e., the predetermined qualitative or quantitative outcome) against which task performance will be measured. _____
9. Verify the procedure(s) referenced by this JPM reflects the current revision:

Procedure: LS-AA-119 Revision: 17
Procedure: _____ Revision: _____
Procedure: _____ Revision: _____
Procedure: _____ Revision: _____
10. Verify cues both verbal and visual are free of conflict. _____
11. Verify performance time is accurate. _____
12. If the JPM cannot be performed as written with proper responses, then revise the JPM. _____
13. When JPM is initially validated, sign and date JPM cover page. For subsequent validations, sign and date below: _____

/

SME / Instructor (Print/Sign)

Date

/

SME / Instructor (Print/Sign)

Date

/

SME / Instructor (Print/Sign)

Date

Revision Record (Summary)

Revision #	Summary
00	Developed for 17-1 NRC exam, modified from A-RO-33
01	Updated for 23-1 ILE

SETUP INSTRUCTIONS (Add instructions as required for specific JPM setting; e.g., simulator, mock-up, etc.)

1. No SIM setup required
2. Have the following available for the examinee:
 - Calculator
 - A copy of LS-AA-119
3. This completes the setup for this JPM.

INITIAL CONDITIONS

You are a Licensed NSO.

It is Tuesday, 1/8/25 at 0500.

The on-coming Unit 1 NSO calls in to report he will not be able to come in for his overtime shift due to an illness.

No other licensed individual is available to fill the Safety Related position.

You were on a 7 day vacation, prior to working the following work hours and shifts that count towards 10CFR26 Work Hour Limits, so far this week.

Shift	Tue 1/1/25	Wed 1/2/25	Thu 1/3/25	Fri 1/4/25	Sat 1/5/25	Sun 1/6/25	Mon 1/7/25	Tue 1/8/25
days (0600-1800)		0600-1400	0600-1800	0600-1800	0600-1800	0600-1000	0600-1800	
nights (1800-0600)				1800-2000			1800-2000	

INITIATING CUE

Determine if you can work a full 12-hour shift, with the shift starting on 1/8/25 at 1100. If NOT, when must you be relieved? Justify your answer below.

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.

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.

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JPM Start Time: _____ JPM Sequence #: _____ of _____

Task Standard:

The examinee is required to determine a 12-hour shift cannot be performed due to exceeding 72 hours in a 7-day period. The examinee is also required to determine they must be relieved by 1900 on 1/8/25, if they take the shift, to meet work hour requirements IAW LS-AA-119.

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
CUE	When the Examinee acknowledges their initiating cue, provide them a copy of LS-AA-119				
01	Reviews procedure to determine what limits may be exceeded.	Examinee reviews 10 CFR 26 Work hour Limits.	☐	☐	—
02	No more than 16 work hours in any 24-hour period	Examinee determines that 14 hours will be worked in a 24 hour period and no violation will occur.	☐	☐	—
03	No more than 26 work hours in any 48-hour period	Examinee determines that 26 hours will be worked in a 48 hour period and no violation will occur.	☐	☐	—
*04	No more than 72 work hours in any 7-day (168-hour) period	Examinee determines that 76 hours will be worked in a 168 hour period and a violation will occur.	☐	☐	—
CUE	If the examinee determines that they cannot stand the full watch, ask them when they must be relieved.				
*05	Determine when you must be relieved if you assume the shift.	Examinee determines that they must be relieved at 1900 on 1/8/25	☐	☐	—

JPM Start Time: _____ JPM Sequence #: _____ of _____

Task Standard:

The examinee is required to determine a 12-hour shift cannot be performed due to exceeding 72 hours in a 7-day period. The examinee is also required to determine they must be relieved by 1900 on 1/8/25, if they take the shift, to meet work hour requirements IAW LS-AA-119.

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
06	Inform Unit Supervisor	Examinee informs the Unit Supervisor of their findings	☐	☐	_____
CUE	As Unit Supervisor, acknowledge the initiating cue. JPM complete.				

JPM Stop Time: _____

.....

JPM SUMMARY**Operator's Name:** _____ **Emp. ID#:** _____**Job Title:** ☐ EO ☒ RO ☐ SRO ☐ FS ☐ STA/IA ☐ SRO CertJPM Title: Determine Availability to Assume Shift per Work Hour Rules ApplicationJPM Number: A-RO-46 Revision Number: 01Task Number and Title: 790.020, Determine overtime guidelines IAW overtime controls.Task Standard: The examinee is required to determine a 12-hour shift cannot be performed due to exceeding 72 hours in a 7-day period. The examinee is also required to determine they must be relieved by 1900 on 1/8/25, if they take the shift, to meet work hour requirements IAW LS-AA-119.K/A Number and Importance: 2.1.5 - 2.9Suggested Testing Environment: ClassroomAlternate Path: ☐ Yes ☒ No SRO Only: ☐ Yes ☒ No Time Critical: ☐ Yes ☒ No

Reference(s):

Procedure: <u>LS-AA-119</u>	Revision: <u>17</u>
Procedure: _____	Revision: _____
Procedure: _____	Revision: _____
Procedure: _____	Revision: _____

Actual Testing Environment: ☐ Simulator ☐ Control Room ☐ In-Plant ☐ Other**Testing Method:** ☐ Simulate ☐ Perform**Estimated Time to Complete:** 15 minutes **Actual Time Used:** _____ minutes**EVALUATION SUMMARY:**Were all the Critical Elements performed satisfactorily? ☐ Yes ☐ NoThe operator's performance was evaluated against standards contained within this JPM and has been determined to be: ☐ Satisfactory ☐ Unsatisfactory**NOTE:** Enter finalized grading, comments, and notes relevant to this evaluation in the associated TQ-AA-150-F03A/B. (See AR 4282419).**Evaluator's Name (Print):** _____**Evaluator's Signature:** _____ **Date:** _____

INITIAL CONDITIONS

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The on-coming Unit 1 NSO calls in to report he will not be able to come in for his overtime shift due to an illness.

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days (0600-1800)		0600-1400	0600-1800	0600-1800	0600-1800	0600-1000	0600-1800	
nights (1800-0600)				1800-2000			1800-2000	

INITIATING CUE

Determine if you can work a full 12-hour shift, with the shift starting on 1/8/25 at 1100. If NOT, when must you be relieved? Justify your answer below.

Job Performance Measure
Perform a Manual Heat Balance

JPM Number: A-RO-41M

Revision Number: 00

Date: 4/25/2024

Developed By: _____ / _____
Instructor: Print / Sign Date

Reviewed By: _____ / _____
SME or Instructor: Print / Sign Date

Reviewed By: _____ / _____
Operations Representative: Print / Sign Date

Approved By: _____ / _____
Training Department: Print / Sign Date

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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 Prior to JPM usage, revalidate JPM using steps 9 and 13 below.

1. Task description and number, JPM description and number are identified. _____
2. Knowledge and Abilities (K/A) references are included. _____
3. Performance location specified. (in-plant, control room, simulator, or other) _____
4. Initial setup conditions are identified. _____
5. Initiating cue (and terminating cue if required) are properly identified. _____
6. Task standards identified and verified by instructor or SME review. _____
7. Critical steps meet the criteria for critical steps and are identified with an asterisk (*). _____
8. IAW NUREG 1021 Appendix C, clearly identify the task standard (i.e., the predetermined qualitative or quantitative outcome) against which task performance will be measured. _____
9. Verify the procedure(s) referenced by this JPM reflects the current revision:

Procedure: <u>LOS-CX-S001</u>	Revision: <u>18</u>
Procedure: _____	Revision: _____
Procedure: _____	Revision: _____
Procedure: _____	Revision: _____
10. Verify cues both verbal and visual are free of conflict. _____
11. Verify performance time is accurate. _____
12. If the JPM cannot be performed as written with proper responses, then revise the JPM. _____
13. When JPM is initially validated, sign and date JPM cover page. For subsequent validations, sign and date below: _____

_____ / _____ SME / Instructor (Print/Sign)	_____ Date
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_____ / _____ SME / Instructor (Print/Sign)	_____ Date
--	---------------

_____ / _____ SME / Instructor (Print/Sign)	_____ Date
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Revision Record (Summary)

Revision #	Summary
00	Modified from A-RO-41 for ILT 23-1 ILE. Previous out of tolerance points were 'RWCU temperatures vs CTP' and 'Control Valve position vs CTP'. Out of tolerance points were changed to 'RWCU flow vs CTP' and 'Feedwater Temperature vs CTP'.

SETUP INSTRUCTIONS (Add instructions as required for specific JPM setting; e.g., simulator, mock-up, etc.)

- 1) No SIM setup required
- 2) Materials:
 - a) LOS-CX-S001 for Unit 1, pages 1-12, printed single sided
 - b) A Faulted Copy of CMSS Heat Balance (OD3). A-RO-41 Att. A
 - c) A Ruler
 - d) A Calculator
- 3) This completes the setup for this JPM.

INITIAL CONDITIONS

You are the Unit 1 NSO.
Unit 1 is at 100% RTP.
It is Monday evening Mid-Shift.

INITIATING CUE

Perform the Heat Balance Shiftly Surveillance, LOS-CX-S001.
Inform the Unit Supervisor when complete.

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

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Information For Evaluator's Use:

UNSAT requires written comments on respective step.

* Denotes critical steps.

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.

.....

JPM Start Time: _____ JPM Sequence #: _____ of _____

Task Standard:

Given a flawed OD3 printout and LOS-CX-S001, the examinee identifies Feedwater Temperature vs CTP and RWCU Flow vs CTP plot outside the allowable region of their respective characteristic curve IAW LOS-CX-S001.

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
NOTE	Examinee may report discrepancies as they are identified or at the end of the surveillance. Either report is acceptable.				
CUE	Acknowledge reports of discrepancies as necessary. Inform the examinee to complete all the checks required by the surveillance and inform you when they are complete.				
01	CHECK the following points from the OD3 edit fall within characteristic curves of the attached graphs: Feedwater flow vs. CTP	Feedwater flow vs. CTP accurately plotted below the red line and above the blue line on the Attachment 1B curves.	☐	☐	—
*02	CHECK the following points from the OD3 edit fall within characteristic curves of the attached graphs: Feedwater Temperature vs. CTP	Feedwater Temperature vs. CTP accurately plotted Below the blue line on the Attachment 1C curves. The examinee recognizes this is outside the characteristic curve.	☐	☐	—
03	CHECK the following points from the PPC Printout fall within characteristic curves of the attached graphs: Individual RR Pump power vs. CTP	Individual RR Pump power vs. CTP accurately plotted below the red line and above the blue line on the Attachment 1D curves.	☐	☐	—

JPM Start Time: _____ JPM Sequence #: _____ of _____

Task Standard:

Given a flawed OD3 printout and LOS-CX-S001, the examinee identifies Feedwater Temperature vs CTP and RWCU Flow vs CTP plot outside the allowable region of their respective characteristic curve IAW LOS-CX-S001.

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
04	CHECK the following points from the OD3 edit fall within characteristic curves of the attached graphs: RWCU Temperature vs. CTP	RWCU Temperatures vs. CTP accurately plotted below the red line and above the blue line the Attachment 1E curves for each RWCU inlet, and RWCU outlet.	☐	☐	—
*05	CHECK the following points from the OD3 edit fall within characteristic curves of the attached graphs: RWCU Flow vs. CTP	RWCU Flow vs. CTP accurately plotted below the blue line on the Attachment 1F curves. Examinee recognizes this point is outside the characteristic curve.	☐	☐	—
06	CHECK the following points from the OD3 edit fall within characteristic curves of the attached graphs: Control Rod Drive flow vs. CTP	Control Rod Drive Flow vs. CTP accurately plotted below the red line and above the blue line on the Attachment 1F curves.	☐	☐	—
07	CHECK Control Valve Position (computer point) vs. CTP fall within limits	Control Valve Position vs. Core Thermal Power accurately plotted below the blue curve and above the purple curve on the Attachment 1G curves	☐	☐	—
08	Sign off attachment 1A	Discrepancies noted on Attachment 1A	☐	☐	—

JPM Start Time: _____ JPM Sequence #: _____ of _____

Task Standard:

Given a flawed OD3 printout and LOS-CX-S001, the examinee identifies Feedwater Temperature vs CTP and RWCU Flow vs CTP plot outside the allowable region of their respective characteristic curve IAW LOS-CX-S001.

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
09	IMMEDIATELY NOTIFY the Unit Supervisor and QNE of any discrepancies found during the performance of this surveillance.	Unit supervisor notified of the discrepancies on Attachment	☐	☐	_____
CUE	Acknowledge Report. JPM is complete.				

JPM Stop Time: _____

.....

JPM SUMMARY**Operator's Name:** _____ **Emp. ID#:** _____**Job Title:** ☐ EO ☒ RO ☐ SRO ☐ FS ☐ STA/IA ☐ SRO CertJPM Title: Perform a Manual Heat BalanceJPM Number: A-RO-41M Revision Number: 00Task Number and Title: 656.010 Given the proper procedure, perform the NSO Shiftly Surveillance IAW station proceduresTask Standard: Given a flawed OD3 printout and LOS-CX-S001, the examinee identifies Feedwater Temperature vs CTP and RWCU Flow vs CTP plot outside the allowable region of their respective characteristic curve IAW LOS-CX-S001.K/A Number and Importance: 2.1.25 3.9Suggested Testing Environment: ClassroomAlternate Path: ☐ Yes ☒ No SRO Only: ☐ Yes ☒ No Time Critical: ☐ Yes ☒ No

Reference(s):

Procedure: <u>LOS-CX-S001</u>	Revision: <u>18</u>
Procedure: _____	Revision: _____
Procedure: _____	Revision: _____
Procedure: _____	Revision: _____

Actual Testing Environment: ☐ Simulator ☐ Control Room ☐ In-Plant ☐ Other**Testing Method:** ☐ Simulate ☐ Perform**Estimated Time to Complete:** 15 minutes **Actual Time Used:** _____ minutes**EVALUATION SUMMARY:**Were all the Critical Elements performed satisfactorily? ☐ Yes ☐ NoThe operator's performance was evaluated against standards contained within this JPM and has been determined to be: ☐ Satisfactory ☐ Unsatisfactory**NOTE:** Enter finalized grading, comments, and notes relevant to this evaluation in the associated TQ-AA-150-F03A/B. (See AR 4282419).**Evaluator's Name (Print):** _____**Evaluator's Signature:** _____ **Date:** _____

INITIAL CONDITIONS

You are the Unit 1 NSO.

Unit 1 is at 100% RTP.

It is Monday evening Mid-Shift.

INITIATING CUE

Perform the Heat Balance Shiftly Surveillance, LOS-CX-S001.

Inform the Unit Supervisor when complete.

DEHC_A018

Control Valve 1 Position

58.111 %

DEHC_A019

Control Valve 2 Position

58.607 %

DEHC_A020

Control Valve 3 Position

58.607 %

DEHC_A021

Control Valve 4 Position

58.111 %

B725
RECIRC PUMP MTR A PWR
6.479 MW

B726
RECIRC PUMP MTR B PWR
6.493 MW

FOR TRAINING ONLY

PAGE 1

LaSalle-1 Cyc 22LV2

CORE POWER AND FLOW LOG

X-XXX-XXXX 16:00 CALCULATED

X-XXX-XXXX 16:01 PRINTED

CASEID FMLD1130708080003

ENERGY BALANCE

POWER (MW)

ELECTRICAL	1224.7	99.9%
CORE	3545.1	99.9%
FEEDWATER	3534.1	
CR DRIVES	11.2	
CLEAN-UP	3.6	
RADIATIVE LOSS	4.1	
PUMPS	12.6	

ENTHALPY/SUBCOOLING (BTU/LB)

SUBC	18.27
FEEDWATER	398.06
RECIRC INLET	527.55
CLEAN-UP IN	499.60
CLEAN-UP OUT	397.80

LOAD LINE SUMMARY

FLOW (MLB/HR)

TOTAL CORE	102.56	94.5%
MEASURED	102.56	
SUBSTITUTE	104.26	
FEEDWATER	15.19	
CLEAN-UP	0.11	
RECIRC	31.27	
CR DRIVES	0.03	

CORE POWER	99.9%
CORE FLOW	94.5%
LOAD LINE	103.7%
FLOW BASIS	MEAS.

TEMPERATURE (Deg F)

FEEDWATER	412.2
RECIRC IN	533.0
CLEAN-UP IN	531.2
CLEAN-UP OUT	450.3
CR DRIVES	80.0

PRESSURE (PSIa)

DOME	1018.2
DROP (MEAS)	15.433

APRM CALIBRATION

APRM ID	A	B	C	D	E	F
READING	100.0	99.6	99.7	99.9	99.3	99.7
AGAF	0.999	1.003	1.002	0.999	1.006	1.001
(APRM - %CTP)	0.1	-0.3	-0.2	0.0	-0.6	-0.2

FAILED SENSORS: 0

Job Performance Measure

Determine Containment Flood Level during Containment Flooding

JPM Number: A-RO-48Revision Number: 01Date: 4/24/2024

Developed By: _____ / _____
Instructor: Print / Sign Date

Reviewed By: _____ / _____
SME or Instructor: Print / Sign Date

Reviewed By: _____ / _____
Operations Representative: Print / Sign Date

Approved By: _____ / _____
Training Department: Print / Sign Date

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

NOTE: All steps of this checklist should be performed upon initial validation.
 Prior to JPM usage, revalidate JPM using steps 9 and 13 below.

1. Task description and number, JPM description and number are identified. _____
2. Knowledge and Abilities (K/A) references are included. _____
3. Performance location specified. (in-plant, control room, simulator, or other) _____
4. Initial setup conditions are identified. _____
5. Initiating cue (and terminating cue if required) are properly identified. _____
6. Task standards identified and verified by instructor or SME review. _____
7. Critical steps meet the criteria for critical steps and are identified with an asterisk (*). _____
8. IAW NUREG 1021 Appendix C, clearly identify the task standard (i.e., the predetermined qualitative or quantitative outcome) against which task performance will be measured. _____
9. Verify the procedure(s) referenced by this JPM reflects the current revision:

Procedure: <u>LOP-PC-07</u>	Revision: <u>2</u>
Procedure: _____	Revision: _____
Procedure: _____	Revision: _____
Procedure: _____	Revision: _____
10. Verify cues both verbal and visual are free of conflict. _____
11. Verify performance time is accurate. _____
12. If the JPM cannot be performed as written with proper responses, then revise the JPM. _____
13. When JPM is initially validated, sign and date JPM cover page. For subsequent validations, sign and date below: _____

_____/_____ SME / Instructor (Print/Sign)	_____ Date
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_____/_____ SME / Instructor (Print/Sign)	_____ Date
--	---------------

_____/_____ SME / Instructor (Print/Sign)	_____ Date
--	---------------

Revision Record (Summary)

Revision #	Summary
00	Developed for 17-1 NRC exam
01	Updated for 23-1 ILE

SETUP INSTRUCTIONS (Add instructions as required for specific JPM setting; e.g., simulator, mock-up, etc.)

1. Provide the examinee with the following:
 - A calculator
 - A blank copy of LOP-PC-07

INITIAL CONDITIONS

You are an extra NSO

- Containment Flooding is in progress
- 1LI-CM179, Containment Floodup Level Indicator is inoperable
- 1LR-CM027, Suppression Pool Level Indication is upscale
- Division 1 containment instrumentation has lost power (CM028, CM031, CM055)
- The flow rate into the Containment has been determined to be 12,500 GPM
- 1PI-CM056 indicates 31.1 psig, Suppression Chamber Pressure
- 1PR-CM029 indicates 17.4 psig, Drywell Pressure

INITIATING CUE

The Unit Supervisor has ordered you to determine how long before injection into the containment must be stopped by completing LOP-PC-07 up to step E.7.

Inform the Unit Supervisor when complete.

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.

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.

.....

JPM Start Time: _____ JPM Sequence #: _____ of _____

<u>Task Standard:</u>					
Task is complete when the examinee has determined injection is required to be stopped in 77 minutes, or 1 hour and 17 minutes, IAW LOP-PC-07.					
<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
CUE	When the Examinee acknowledges their initiating cue, hand them a copy of LOP-PC-07.				
NOTE: Examinee may not verbalize steps 01 and 02, but they are required for the examinee to calculate the correct time.					
*01	When this differential pressure reaches one of the values indicated below: CM056 to CM029 13.7 psi	Examinee determines that the differential pressure between CM056 and CM029 is 13.7 psi	☐	☐	_____
*02	Determine current Containment Flood Level	Examinee determines that containment flood level is at PT-CM029 (756')	☐	☐	_____
*03	DIVIDE the DW volume between the DW pressure instrument elevation and the VQ vent path by the flow rate into the containment.	Examinee determines that in 77 minutes or 1 hour 17 minutes that injection must be stopped	☐	☐	_____
04	Inform Unit Supervisor.	Examinee informs Unit Supervisor that containment injection must be stopped in 77 minutes or 1 hour 17 minutes	☐	☐	_____
CUE	Acknowledge report. JPM is complete.				

JPM Stop Time: _____

JPM SUMMARY**Operator's Name:** _____ **Emp. ID#:** _____**Job Title:** ☐ EO ☒ RO ☐ SRO ☐ FS ☐ STA/IA ☐ SRO Cert**JPM Title:** Determine Containment Flood Level during Containment Flooding**JPM Number:** A-RO-48 **Revision Number:** 01**Task Number and Title:** 403.009 Control suppression pool level**Task Standard:** Task is complete when the examinee has determined injection is required to be stopped in 77 minutes, or 1 hour and 17 minutes, IAW LOP-PC-07.**K/A Number and Importance:** 2.2.44 4.2/4.4**Suggested Testing Environment:** Classroom**Alternate Path:** ☐ Yes ☒ No **SRO Only:** ☐ Yes ☒ No **Time Critical:** ☐ Yes ☒ No**Reference(s):****Procedure:** LOP-PC-07 **Revision:** 2**Procedure:** _____ **Revision:** _____**Procedure:** _____ **Revision:** _____**Procedure:** _____ **Revision:** _____**Actual Testing Environment:** ☐ Simulator ☐ Control Room ☐ In-Plant ☐ Other**Testing Method:** ☐ Simulate ☐ Perform**Estimated Time to Complete:** 15 minutes **Actual Time Used:** _____ minutes**EVALUATION SUMMARY:**Were all the Critical Elements performed satisfactorily? ☐ Yes ☐ NoThe operator's performance was evaluated against standards contained within this JPM and has been determined to be: ☐ Satisfactory ☐ Unsatisfactory**NOTE:** Enter finalized grading, comments, and notes relevant to this evaluation in the associated TQ-AA-150-F03A/B. (See AR 4282419).**Evaluator's Name (Print):** _____**Evaluator's Signature:** _____ **Date:** _____

INITIAL CONDITIONS

You are an extra NSO

- Containment Flooding is in progress
- 1LI-CM179, Containment Floodup Level Indicator is inoperable
- 1LR-CM027, Suppression Pool Level Indication is upscale
- Division 1 containment instrumentation has lost power (CM028, CM031, CM055)
- The flow rate into the Containment has been determined to be 12,500 GPM
- 1PI-CM056 indicates 31.1 psig, Suppression Chamber Pressure
- 1PR-CM029 indicates 17.4 psig, Drywell Pressure

INITIATING CUE

The Unit Supervisor has ordered you to determine how long before injection into the containment must be stopped by completing LOP-PC-07 up to step E.7.

Inform the Unit Supervisor when complete.

Job Performance Measure

Calculate Stay Time and Determine if Dose Extension is required

JPM Number: A-RO-44

Revision Number: 02

Date: 3/4/2024

Developed By: _____ / _____
Instructor: Print / Sign Date

Reviewed By: _____ / _____
SME or Instructor: Print / Sign Date

Reviewed By: _____ / _____
Operations Representative: Print / Sign Date

Approved By: _____ / _____
Training Department: Print / Sign Date

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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5. Initiating cue (and terminating cue if required) are properly identified. _____
6. Task standards identified and verified by instructor or SME review. _____
7. Critical steps meet the criteria for critical steps and are identified with an asterisk (*). _____
8. IAW NUREG 1021 Appendix C, clearly identify the task standard (i.e., the predetermined qualitative or quantitative outcome) against which task performance will be measured. _____
9. Verify the procedure(s) referenced by this JPM reflects the current revision:

Procedure: RP-AA-203 Revision: 07
 Procedure: _____ Revision: _____
 Procedure: _____ Revision: _____
 Procedure: _____ Revision: _____
10. Verify cues both verbal and visual are free of conflict. _____
11. Verify performance time is accurate. _____
12. If the JPM cannot be performed as written with proper responses, then revise the JPM. _____
13. When JPM is initially validated, sign and date JPM cover page. For subsequent validations, sign and date below: _____

_____ / _____
 SME / Instructor (Print/Sign)

 Date

_____ / _____
 SME / Instructor (Print/Sign)

 Date

_____ / _____
 SME / Instructor (Print/Sign)

 Date

Revision Record (Summary)

Revision #	Summary
00	New for 15-1 ILT NRC Exam
01	Updated for 17-1 Cert Exam
02	Updated to TQ-AA-150-J020 rev 01 for 23-1 ILE

SETUP INSTRUCTIONS (Add instructions as required for specific JPM setting; e.g., simulator, mock-up, etc.)

1. No SIM setup required
2. The following material should be available for reference by the examinee:
 - RP-AA-203 - Exposure Control and Authorization
 - Calculator
3. This completes the setup for this JPM.

INITIAL CONDITIONS

You are the Unit 1 Balance of Plant operator.

- Unit 1 is 100% reactor power.
- Operator 'A' is required to support FIN team during the repair of 1C11-F453B in the 'B' RWCU Pump Room and will be needed for 45 minutes to complete the repair.
- This is a NON EMERGENCY situation.
- Operator 'A's current annual Total Effective Dose Equivalent (TEDE) is 1920 mrem and they have not received any dose extensions this year.
- The highest dose rate in 'B' RWCU Pump Room is 160 mrem/hr, which is near the valve.

INITIATING CUE

The Unit Supervisor has directed you to calculate Operator 'A's current 'Stay Time' to prevent exceeding LaSalle administrative limits per RP-AA-203, Exposure Control and Authorization.

The Unit supervisor also directed you to determine if a dose extension is required for operator 'A' to complete the repair.

Inform the Unit Supervisor when complete.

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

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Information For Evaluator's Use:

Stay Time = Dose Limit / Dose rate = 80 mrem / 160 mrem/hr = 0.5 hrs x 60 min. = 30 minutes

Per RP-AA-203 Operator 'A's Annual administrative TEDE is 2000 mrem/yr

160 mrem/hr x (45 min. / 60 min.) = 120 mrem

1920 mrem + 120 mrem = 2040 mrem

UNSAT requires written comments on respective step.

* Denotes critical steps.

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.

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JPM Start Time: _____ JPM Sequence #: _____ of _____

Task Standard:

Task is complete when provided current exposure, job length, and exposure rate the examinee determines the stay time IS 30 minutes and determines administrative TEDE limits will be exceeded requiring a dose extension IAW RP-AA-203.

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
NOTE: Steps may be performed in any order					
*01	Determine the annual administrative TEDE limit.	Examinee determines limit is 2000 mrem/yr.	☐	☐	—
*02	Calculate Stay Time.	Examinee determines Stay Time is 30 minutes.	☐	☐	—
03	Determine the dose required to complete the evolution.	Examinee determines the total dose to complete the job is 120 mrem.	☐	☐	—
*04	Determine if annual TEDE administrative limit will be exceeded and if a dose extension is required.	Examinee determines annual TEDE will be exceeded and a dose extension will be required.	☐	☐	—
05	Inform Unit Supervisor.	The examinee reports that Operator 'A's Stay Time is 30 minutes and a dose extension will be required to the Unit Supervisor.	☐	☐	—
CUE	As Unit Supervisor Acknowledge the report. JPM is complete.				

JPM Stop Time: _____

.....

JPM SUMMARY**Operator's Name:** _____ **Emp. ID#:** _____**Job Title:** ☐ EO ☒ RO ☐ SRO ☐ FS ☐ STA/IA ☐ SRO CertJPM Title: Calculate Stay Time and Determine if Dose Extension is requiredJPM Number: A-RO-44 Revision Number: 02Task Number and Title: 755.020 During the performance of tasks, apply administrative requirements of roles and responsibilities of Shift Personnel, IAW Station Procedures.Task Standard: Task is complete when provided current exposure, job length, and exposure rate the examinee determines the stay time IS 30 minutes and determines administrative TEDE limits will be exceeded requiring a dose extension IAW RP-AA-203.K/A Number and Importance: 2.3.12 – 3.2Suggested Testing Environment: ClassroomAlternate Path: ☐ Yes ☒ No SRO Only: ☐ Yes ☒ No Time Critical: ☐ Yes ☒ No

Reference(s):

Procedure: <u>RP-AA-203</u>	Revision: <u>07</u>
Procedure: _____	Revision: _____
Procedure: _____	Revision: _____
Procedure: _____	Revision: _____

Actual Testing Environment: ☐ Simulator ☐ Control Room ☐ In-Plant ☐ Other**Testing Method:** ☐ Simulate ☐ Perform**Estimated Time to Complete:** 10 minutes **Actual Time Used:** _____ minutes**EVALUATION SUMMARY:**Were all the Critical Elements performed satisfactorily? ☐ Yes ☐ NoThe operator's performance was evaluated against standards contained within this JPM and has been determined to be: ☐ Satisfactory ☐ Unsatisfactory**NOTE:** Enter finalized grading, comments, and notes relevant to this evaluation in the associated TQ-AA-150-F03A/B. (See AR 4282419).**Evaluator's Name (Print):** _____**Evaluator's Signature:** _____ **Date:** _____

INITIAL CONDITIONS

You are the Unit 1 Balance of Plant operator.

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- The highest dose rate in 'B' RWCU Pump Room is 160 mrem/hr, which is near the valve.

INITIATING CUE

The Unit Supervisor has directed you to calculate Operator 'A's current 'Stay Time' to prevent exceeding LaSalle administrative limits per RP-AA-203, Exposure Control and Authorization.

The Unit supervisor also directed you to determine if a dose extension is required for operator 'A' to complete the repair.

Inform the Unit Supervisor when complete.