Exelon Nuclear

Job Performance Measure

Perform a Manual Heat Balance

JPM Number: A-RO-41

Revision Number: 01

Date: 7 / 23 / 2020

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

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

NOTE:	•	or this checklist should be performed upon in PM usage, revalidate JPM using steps 9 and	
		<u>.</u>	
	1.	Task description and number, JPM descript	ion and number are identified.
	2.	Knowledge and Abilities (K/A) references ar	e included.
	3.	Performance location specified. (in-plant, co	ontrol room, simulator, or other)
	4.	Initial setup conditions are identified.	
	5.	Initiating cue (and terminating cue if require	d) are properly identified.
	6.	Task standards identified and verified by SM	ΛΕ review.
	7.	Critical steps meet the criteria for critical steasterisk (*).	ps and are identified with an
	8.	If an alternate path is used, the task standar completion.	rd contains criteria for successful
	9.	Verify the procedure(s) referenced by this J Procedure Rev: Procedure Rev: Procedure Rev:	PM reflects the current revision:
	10.	Verify cues both verbal and visual are free of	of conflict.
	11.	Verify performance time is accurate	
	12.	If the JPM cannot be performed as written v revise the JPM.	vith proper responses, then
	13.	When JPM is initially validated, sign and da validations, sign and date below:	te JPM cover page. Subsequent
		SME / Instructor	Date
		SME / Instructor	Date
		SME / Instructor	 Date

Revision Record (Summary)

Revision 00, JPM developed new for the ILT 13-1 NRC Exam.

Revision 02, JPM updated for the ILT 19-1 NRC Exam.

SETUP INSTRUCTIONS

- 1. No SIM setup required.
- 2. Materials:
 - The following material is required to be provided to Candidate:
 - o LOS-CX-S001 for Unit 1
 - o A (Faulted) copy of CMSS Heat Balance (OD3)

You are the Unit 1 NSO

- Unit 1 is operating at rated power.
- It is Monday evening Mid-Shift.

INITIATING CUE

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

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 Candidate 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.100; There are no retention requirements for this section

JPM Start Time: _____

STEP	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
1	If Core Power is > 60%, OBTAIN a copy of a CMSS Heat Balance (OD3).	OD3 Heat Balance obtained			
CUE	After a copy of OD3 has been p the faulted (Pre-printed OD-3) v	properly demanded, provide the eversion for this JPM.	candic	date w	ith
	Direct the candidate to use only this task.	y these PPC Printout values for	compl	etion (of
2	CHECK the following points from the OD3 edit fall within characteristic curves of the attached graphs.	Feedwater flow vs. CTP accurately plotted inside the Attachment 1B curves			
	Feedwater flow vs. CTP				
	Identifies these points are inside the Attachment 1B curves				
3	CHECK the following points from the OD3 edit fall within characteristic curves of the attached graphs.	Feedwater Temperature vs. CTP accurately plotted inside the Attachment 1C curves			
	Feedwater Temperature vs. CTP				
	Identifies these points are inside the Attachment 1C curves				

STEP	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
4	CHECK the following points from the PPC Printout fall within characteristic curves of the attached graphs.	Individual RR Pump power vs. CTP accurately plotted inside the Attachment 1D curves			
	Individual RR Pump power vs.				
	Identifies these points are inside the Attachment 1D curves				
*5	CHECK the following points from the OD3 edit fall within characteristic curves of the attached graphs.	RWCU Temperatures vs. CTP accurately plotted OUTSIDE the Attachment 1E curves			
	RWCU Temperatures vs. CTP				
	Identifies these points are outside the Attachment 1E curves				
6	IMMEDIATELY NOTIFY the Unit Supervisor of any discrepancies found during the performance of this surveillance.	Unit supervisor notified of the discrepancies on Attachment 1E			
CUE	Role Play Unit Supervisor as no Attachment 1E curves.	ecessary if notified of the points	outsi	de the	
7	CHECK the following points from the OD3 edit fall within characteristic curves of the attached graphs.	RWCU Flow vs. CTP accurately plotted inside the Attachment 1F curves			
	RWCU Flow vs. CTP Identifies these points are inside				
	the Attachment 1F curves				

STEP	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
8	CHECK the following points from the OD3 edit fall within characteristic curves of the attached graphs.	Control Rod Drive Flow vs. CTP accurately plotted inside the Attachment 1F curves			
	Control Rod Drive Flow vs. CTP Identifies these points are inside the Attachment 1F curves				
*9	CHECK Control Valve Position (computer points may be utilized) vs. Core Thermal Power within limits of attachment 1G.	Control Valve Position vs. Core Thermal Power accurately plotted OUTSIDE the Attachment 1G curves			
	Identifies these points are outside the Attachment 1G curves				
11	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 1G			
CUE	Role Play Unit Supervisor as no Attachment 1G curves.	ecessary if notified of the points	outsi	de the	
10	Sign off on Attachment 1A (Unit 1)	Discrepancies noted on Attachment 1A			
CUE	JPM Complete.				

JPM Stop Time:		
	. 	

JPM SUMMARY

Operator's Name:	Emp. ID#:
Job Title: □EO □RO □SRO □FS □STA/	IA ☐ SRO Cert
JPM Title: Perform a Manual Heat Balance	
JPM Number: <u>A-RO-41</u> Revision	Number: <u>01</u>
Task Number and Title: Perform a Manual Heat Bala	<u>nce</u>
656.010 Given the proper procedure, perform the NS procedures.	SO Shiftly Surveillance IAW station
K/A Number and Importance: <u>2.1.25 (3.9) Ability to ingraphs, curves, tables, etc.</u>	nterpret reference materials, such as
Suggested Testing Environment: Simulator or Classr	<u>room</u>
Alternate Path: ☐ Yes ☐ No SRO Only: ☐ Yes Reference(s):LOS-CX-S001, Heat Balance Shiftly Sur	
Actual Testing Environment: ☐ Simulator ☐ C	Control Room ☐ In-Plant ☐ Other
Testing Method: ☐ Simulate ☐ Perform	
Estimated Time to Complete: <u>15</u> minutes	Actual Time Used: minutes
EVALUATION SUMMARY: Were all the Critical Elements performed satisfactori	ly? □Yes □No
The operator's performance was evaluated against s contained within this JPM and has been determined	
Comments:	
	_
Evaluator's Name:	(Print)
Evaluator's Signature:	Date:

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

PAGE 1

LaSalle-1 CyC 15LV2

CORE POWER AND FLOW LOG

1-JUL-2020 13:10 CALCULATED 9-JUL-2020 12:25 PRINTED

ENERGY	BALANCE
POWER	(MW)

ENTHALPY/SUBCOOLING (BTU/LB)

` ,				•	•
ELECTRICAL	1202.7	98.1%	SUBC	18.27	
CORE	3541.4	99.9%	FEEDWATER	398.06	
FEEDWATER	3534.1		RECIRC INLET	527.55	
CR DRIVES	11.2		CLEAN-UP IN	499.60	
CLEAN-UP	3.6		CLEAN-UP OUT	397.80	
RADIATIVE LOSS	4.1				
PUMPS	11.6		LOAD LINE SUMMARY		
				0/	
			CORE POWER	99.9%	
FLOW (MLB/HR)			CORE FLOW	94.5%	
			LOAD LINE	103.7%	
TOTAL CORE	102.56	94.5%	FLOW BASIS	MEAS.	
MEASURED	102.56				
SUBSTITUTE	104.26				
FEEDWATER	15.19				
CLEAN-UP	0.12		TEMPERATURE (Deg F)		
RECIRC	31.27				
CR DRIVES	0.03		FEEDWATER	420.2	
			RECIRC IN	533.0	
			CLEAN-UP IN	510.0	
PRESSURE (PSIa)			CLEAN-UP OUT	420.0	
			CR DRIVES	80.0	
DOME	1018.2				
DROP (MEAS)	15.433				

APRM CALIBRATION

APRM ID	Α	В	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	0.1	-0.6	-0.1

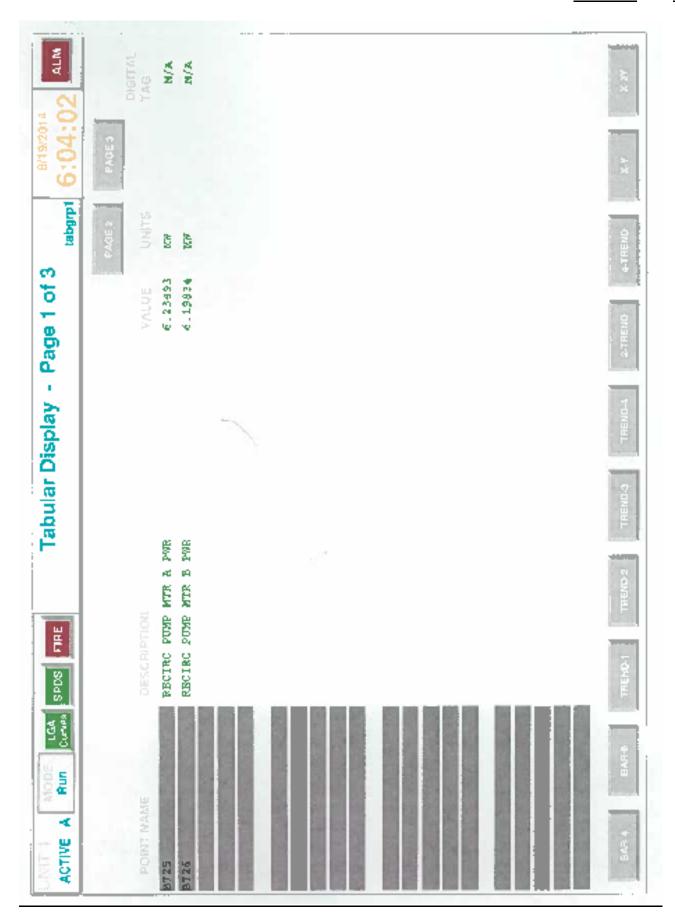
RECIRC PUMP DATA:

PUMP	PUMP	SENSOR	SENSOR	CRITICAL	RLL	RUL	CUT-OFF
ID	STAT	VALUE	STAT	CODE	VALUE	VALUE	LIMIT
1 2	ON ON	N/A N/A	N/A N/A	-	-0.0200 -0.0200	8.0000 8.0000	0.0000 0.0000

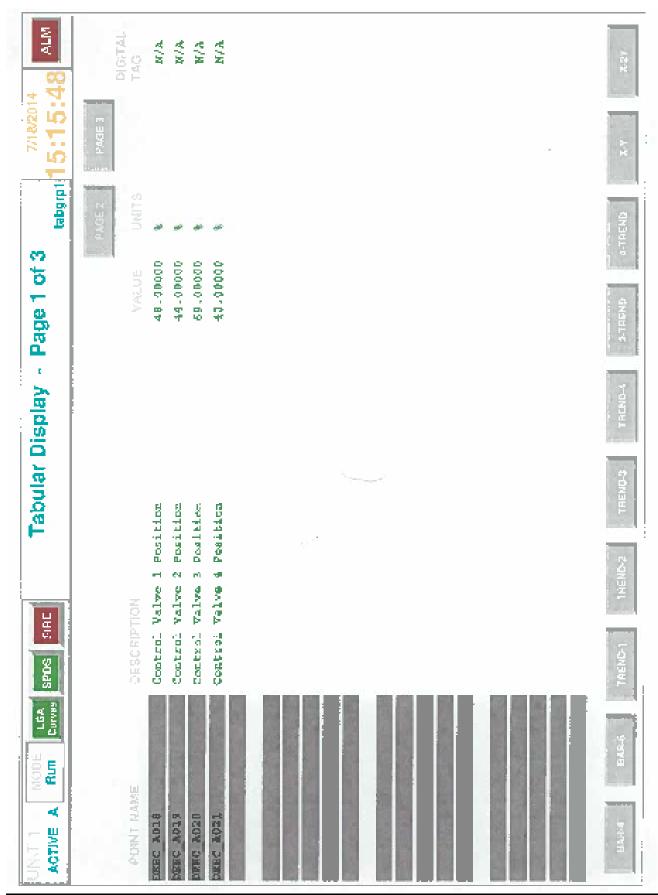
LOOP ACTIVE DETERMINED BY: RECIRC LOOP ACTIVE FLAG

FAILED SENSORS: 0

CRD Flow Temp F



SRRS: 3D.100; There are no retention requirements for this section



You are the Unit 1 NSO

- Unit 1 is operating at rated power.
- It is Monday evening Mid-Shift.

INITIATING CUE

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

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

JOB PERFORMANCE MEASURE

Unit 1 Main Steam Isolation Valve Alternate Leakage Treatment Path Verification

JPM: NRC-LAS-2020-ROA1.2

November 2020

Facility: LaSalle

K/A Reference: 2.1.31 (4.6/4.3) Ability to locate control room switches, controls, and indications, and to determine that they correctly reflect the desired plant lineup.

SIMULATOR SETUP INSTRUCTIONS

- 1. Reset the simulator to an IC in which the plant is in Mode 1 and stable.
- 2. Manual Actions:
 - a. Valves 1B21-F070, 1B21-F071, 1B21-F418B, 1B21-F020 are all in their normal positions with power available.
 - b. Valves listed in step 3.3 of Attachment A to LOS-MS-M1 are all in their normal position with power available.
 - c. Valve 1B21-F072 is CLOSED
 - d. Valve 1B21-F418A has power removed
- 3. Malfunctions:
 - a. Valve 1B21-F072 is CLOSED
 - b. Valve 1B21-F418A has power removed
- 4. Remotes:
 - a. None
- 5. Overrides:
 - a. None
- 6. Procedures:
 - a. Copy of LOS-MS-M2, MSIV Alternate Leakage Treatment Path Verification
 - b. Copy of pertinent section of Degraded Equipment Log
 - c. Copy of TRM 3.6.a and associated tables
- 7. When the setup for this JPM is complete ensure that any other JPMs to be performed concurrently are also ready.
- 8. This completes the setup for this JPM.

- 1. You are the Admin NSO
- 2. Unit 1 is in Mode 1 at 100% RTP

INITIATING CUE

The Unit Supervisor directs you to perform LOS-MS-M2, "MSIV Alternate Leakage Treatment Path Verification."

Provide examinee with: A copy of LOS-MS-M2, a copy of the pertinent section of DEL and a copy of TRM 3.6.a and associated tables.

Fill in the JPM Start Time when the examinee 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 Candidate 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:

STEP	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
Note	power available with no C/O on the	o Operate from the Control Room Me valve and no Equipment Status Tag, er abnormal condition, as noted from	Work F	Reques	st,
1.1	Verify MOVs operable from the control room or in TRM 3.6a position	Verifies 1B21-F070 and F071 are OPEN and operable from the control room			
*2.1	Verify MOVs operable from the control room or in TRM 3.6a	Verifies 1B21-F072 is OPEN and operable from the control room			
	position	• Identifies that 1B21-F073 is CLOSED			
	Informs Unit Supervisor of discrepancy	Informs Unit Supervisor that 1B21-F073 is not in the OPEN position required by TRM 3.6a, Table T3.6.a-1			
Cue	As Unit Supervisor, instruct the a and continue with completing LC	applicant to make note of the condi	tion of	1B21-	F073
*3.1	Verify MOVs operable from the control room or in TRM 3.6a position	Verifies 1B21-F418B and F020 are CLOSED and operable from the control room			
		Identifies that 1B21-F418A has no power			
		Document in LOS-MS-M2 Comments section that 1B21- F418A has no power			
	Informs Unit Supervisor of discrepancy	Informs Unit Supervisor that 1B21-F0418A has no power			
Cue	As Unit Supervisor, instruct the a F418A and continue performing	applicant to make note of the condi	tion of	1B21-	

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
3.2	Verify Outboard MSIVs operable from the control room	Verifies 1B21-F028A, F028B, F028C, and F028D are operable from the control room			
3.3	Verify EHC Automatic Operating Valves are fully operable	Verifies 1B21-MSV-1, MSV-2, MSV-3, and MSV-4 are operable from the control room Verifies 1B21-MSBPV-1, MSBPV-2, MSBPV-3, MSBPV-4, and MSBPV-5 are operable from the control room			

TERMINATING CUE:

Inform the applicant that another operator will complete LOS-MS-M2.

JPM SUMMARY

Operator's Name:	
Job Title: ☐ EO ☐ RO ☐ SRO ☐ FS ☐ S	STA/IA SRO Cert
JPM Title: MSIV Alt Path Verification	
JPM Number: <u>NEW</u> Revision Nu	mber: <u>00</u>
Task Number and Title: <u>Given the proper procedure, performance and Title: Given the proper procedure and Title: Given the Given the proper procedure and Title: Given the Given</u>	m a Monthly Surveillance
Task Standard: Perform LOS-MS-M2, "MSIV Alternate Leaka Verification" and identify, report, record, and if directed correncountered.	•
K/A Number and Importance: 2.1.31 (4.6) Ability to locate control indications, and to determine that they correctly reflect the desired	<u> </u>
Suggested Testing Environment: Simulator or Classroom Alternate Path: Yes No SRO Only: Yes No Reference(s):	Time Critical: ☐ Yes ⊠ No
LOS-MS-M1, Revision 5, MSIV Alternate Leakage Treatment Pa	th Verification
Actual Testing Environment: \boxtimes Simulator \square Control F Other	Room ☐ In-Plant ☐
Testing Method: □ Simulate □ Perform	
Estimated Time to Complete: 10 minutes Actua	I Time Used: minutes
EVALUATION SUMMARY: Were all the Critical Elements performed satisfactorily?	☐ Yes ☐ No
The operator's performance was evaluated against standar and has been determined to be: ☐ Satisfactory	rds contained within this JPM ☐ Unsatisfactory
Comments:	
Evaluator's Name:	(Print)
Evaluator's Signaturo:	Dato:

- 1. You are the Admin NSO
- 2. Unit 1 is in Mode 1 at 100% RTP

INITIATING CUE

The Unit Supervisor directs you to perform LOS-MS-M2, "MSIV Alternate Leakage Treatment Path Verification."

Exelon Nuclear

Job Performance Measure

Calculating UAT 141 Operating Parameters/Limits

JPM Number: A-RO-24

Revision Number: <u>02</u>

Date: 7 / 23 / 2020

Developed By:		
	Instructor	Date
Validated By:		
•	SME or Instructor	Date
Reviewed By:		
-	Training Department	Date
Approved By:		
, .pp. 0.00 Dy.	Operations Representative	Date

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

NOTE:	•	s of this checklist should be performed upon in JPM usage, revalidate JPM using steps 9 and	
	1.	Task description and number, JPM descripti	on and number are identified.
	2.	Knowledge and Abilities (K/A) references are	e included.
	3.	Performance location specified. (in-plant, co	ntrol room, simulator, or other)
	4.	Initial setup conditions are identified.	
	5.	Initiating cue (and terminating cue if required	l) are properly identified.
	6.	Task standards identified and verified by SM	IE review.
	_ 7.	Critical steps meet the criteria for critical step asterisk (*).	os and are identified with an
	8.	If an alternate path is used, the task standar completion.	d contains criteria for successful
	9.	Verify the procedure(s) referenced by this JF Procedure Rev: Procedure Rev: Procedure Rev:	PM reflects the current revision:
	10.	Verify cues both verbal and visual are free o	f conflict.
	11.	Verify performance time is accurate	
	12.	If the JPM cannot be performed as written w revise the JPM.	ith proper responses, then
	13.	When JPM is initially validated, sign and dat validations, sign and date below:	e JPM cover page. Subsequent
		SME / Instructor	Date
		SME / Instructor	 Date
		SME / Instructor	 Date

Revision Record (Summary)

Revision 00 New JPM written for the 2011 Annual Exam by G. W. Beale.

Revision 01 Updated for ILT Class 13-01 Cert Exam. Revised the title to accurately reflect

the operators' response to a UAT, not SAT, trouble. Revised to include the

latest JPM template and procedure revisions.

Revision 02 Updated for the ILT 19-1 NRC Exam.

SETUP INSTRUCTIONS

- 1. Reset the simulator to a full power IC.
- 2. Go to RUN.

NOTE: It is okay to use a similar IC to the one listed above, provided the IC actually used is verified to be compatible with this and other JPMs that are scheduled to be run concurrently.

- 3. Insert the following Malfunction for this JPM:
 - **imf r0164 on** (1PM01J-A305, UAT 141 Trouble alarm ON)
- 4. Provide the examinee an unmarked copy of:
 - LOA-TRAN-101 Attachment B, SAT 142/UAT 141 OPERATING PARAMETERS/LIMITS
- 5. Verify that the following equipment is available in the simulator.
 - A calculator
- 6. This completes the setup for this JPM.

You are an extra NSO

- Unit 1 is at rated conditions.
- It is a hot summer day.
- Unit 1 UAT has alarmed and current oil temperature is 92°C and stable.
- Outside Rounds reports the following:
- No Oil pumps are running on Unit 1 UAT
- 9 fans are running on Unit 1 UAT
- SAT Oil Temperature is 70°C and stable
- An Equipment Operator is standing by to assist you.

INITIATING CUE

The Unit Supervisor has assigned you to perform LOA-TRAN-101 Attachment B Steps 3 and 9 for Unit 1 UAT only. Notify US when Attachment B of LOA-TRAN-101 is complete. All other sections of LOA-TRAN-101 will be performed by another NSO.

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 Candidate 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.100; There are no retention requirements for this section

JPM S	Start	Time:
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STEP	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
points	Note: In the following step the Examinee may use Control Board Meters or computer points to determine the voltage and currents for the UAT. Numbers do not have to be written down as long as they are determined.				
Examir	nee should start on step 3.				
The fol	lowing calculation is used to de	termine SAT and UAT KVA:			
$kVA = \frac{0}{2}$	$\frac{(1.73)[(Ix*Vx) + (Iy*Vy)]}{1000}$				
*1	Ix=X Winding current (amps)	Examinee determines 6.9 KV amps.			
*2	ly=Y Winding current (amps)	Examinee determines 4.16 KV amps.			
*3	Vx=X Winding voltage (volts)	Examinee determines 6.9 KV voltage.			
*4	Vy=Y Winding voltage (volts)	Examinee determines 4.16 KV voltage.			
5	$kVA = \frac{(1.73)[(Ix*Vx) + (Iy*Vy)]}{1000}$	Examinee determines kVA for UAT. Answer must be less than 43, 700 KVA			
Note: E	Examinee should move on to Ste	p 9 for UAT			
6	Number of oil pumps running	Examinee determines from initial conditions that no oil pumps are running.			
7	Number of fans running for Acceptable KVA	Examinee determines from initial conditions that 9 fans are running.			
*8	Verification Table in Step 9 is met.	Examinee determines the that load on UAT is less than 43,700 kVA and therefore the transformer is self cooled.			
9	Inform US that Attachment B is complete.	Examinee informs US that Attachment B is complete.			

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

STEP	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
CUE	Acknowledge report. The JPM is considered complete at this time.				

JPM Stop Time:		

JPM SUMMARY

Operator's Name: Emp. ID#:	
Job Title: ☐ EO ☐ RO ☐ SRO ☐ FS ☐ STA/IA ☐ SRO Cert	
JPM Title: Calculating UAT 141 Operating Parameters/Limits	
JPM Number: <u>A-RO-24</u> Revision Number: <u>02</u>	
Task Number and Title: Calculate UAT operating parameters/limits	
5.005 Provided initial conditions, perform Control Room Action for a Transformer Trouble	<u> </u>
Alarm IAW station procedures.	
K/A Number and Importance: 2.2.44 (4.2) Ability to interpret control room indications to vertice and appretion of a system and syndam and synda	
the status and operation of a system, and understand how operator actions and directive affect plant and system conditions	<u>s</u>
Suggested Testing Environment: Simulator	
Alternate Path: ☐ Yes ☐ No SRO Only: ☐ Yes ☐ No Time Critical: ☐ Yes ☐ I	Nο
Reference(s): LOA-TRAN-101, Unit 1 Transformer Trouble, Rev.30	10
LOR-1PM01J-A305, Unit Auxiliary Transformer 141 Trouble Alarm, Rev. 4	
Zert in more mode, emit nammary manerement in measure mann, met.	
Actual Testing Environment: ☐ Simulator ☐ Control Room ☐ In-Plant ☐ Other	her
Testing Method: ☐ Simulate ⊠ Perform	
Estimated Time to Complete: 23 minutes	
EVALUATION SUMMARY: Were all the Critical Elements performed satisfactorily?	
The operator's performance was evaluated against standards contained within this JPM and has been determined to be: Satisfactory Unsatisfactory	factory
Comments:	
Evaluator's Name (Print)	

A-RO-24-	rev	02
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Evaluator's Signature: .		Date:	
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You are an extra NSO

- Unit 1 is at rated conditions.
- It is a hot summer day.
- Unit 1 UAT has alarmed and current oil temperature is 92°C and stable.
- Outside Rounds reports the following:
- No Oil pumps are running on Unit 1 UAT
- 9 fans are running on Unit 1 UAT
- SAT Oil Temperature is 70°C and stable
- An Equipment Operator is standing by to assist you.

INITIATING CUE

The Unit Supervisor has assigned you to perform LOA-TRAN-101 Attachment B Steps 3 and 9 for Unit 1 UAT only. Notify US when Attachment B of LOA-TRAN-101 is complete. All other sections of LOA-TRAN-101 will be performed by another NSO.

SRRS: 3D.100; There are no retention requirements for this section

Exelon Nuclear

Job Performance Measure

Review a Radiation Work Permit

JPM Number: A-RO-08

Revision Number: <u>02</u>

Date: 7 / 23 / 2020

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

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

NOTE:	Prior to JPM usage, revalidate JPM using steps 9 and 13 below.			
	1.	Task description and number, JPM descript	ion and number are identified.	
	2.	Knowledge and Abilities (K/A) references ar	re included.	
	3.	Performance location specified. (in-plant, co	ontrol 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 SME review.		
	7.	Critical steps meet the criteria for critical steps and are identified with an asterisk (*).		
	8.	If an alternate path is used, the task standar completion.	rd contains criteria for successful	
	9.	Verify the procedure(s) referenced by this J Procedure Rev: Procedure Rev: Procedure Rev:	PM reflects the current revision:	
	10.	Verify cues both verbal and visual are free of	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 da validations, sign and date below:	te JPM cover page. Subsequent	
		SME / Instructor	Date	
		SME / Instructor	Date	
		SME / Instructor	 Date	

Revision Record (Summary)

Revision 00 New JPM.

Revision 01 editorial changes for RWP # and date, changed numbers to reflect new

Exelon admin limit without extension of 2000 mRem.

Revision 03 JPM updated for the ILT 19-1 NRC Exam.

SETUP INSTRUCTIONS

- 1. The following material may be located and utilized by the examinee:
 - RP-AA-203, Exposure Control and Authorization

You are an extra NSO

- Today is November 11, 2020
- The Unit is at 100% RTP.
- Your current exposure history is:
 - o Annual LSCS TEDE Dose 1970 mrem
- You have been directed to support FIN team for NON-EMERGENCY maintenance on 1C11-F453A in the '1A' RWCU pump room.
- The RWP Survey Map indicates 75 mr/hr in the work area.
- RWP exposure limit for the job is 50 mrem.
- It is expected that the task will take 30 minutes.]

INITIATING CUE

The Unit Supervisor has ordered you to review the above conditions to determine if you are able to complete the task. Inform the Unit Supervisor when complete.

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

Information For Evaluator's Use:

Calculations to support Standards:

- STEP 2 1970 mrem + 37.5 mrem (this job) = 2007.5 mrem which is above the administrative limit for Exelon personnel at all sites. Cannot complete this job.
- STEP 4 Can receive 30 mrem without exceeding the limit.

75 mrem field near the valve.

30 mrem / 75 mrem = x minutes / 60 minutes

24 minute stay time

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.

.IPM	Start	Time:	
JI IVI	Otall	THILE.	

STEP	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
NOTE:	Examinee may obtain a copy of R	P-AA-203.			
1	Obtain a copy of RP-AA-203	Examinee obtains a copy of RP-AA-203.			
CUE	If requested, provide a copy of RP-AA-203.				
*2	Determine if dose will be exceeded.	Examinee determines that they cannot perform the job without exceeding the administrative limit.			
3	Inform Unit Supervisor.	Examinee informs Unit Supervisor that they would exceed the administrative limits to complete the job.			
CUE	As Unit Supervisor, acknowledge report and then state:				
	We really need you to support the job. How long can you support the job without an extension?				
*4	Determine maximum stay time.	Examinee determines maximum stay time of 24 minutes and informs Unit Supervisor.			
CUE	As Unit Supervisor, acknowledge report. JPM is complete				

JPM Stop Time: _____

JPM SUMMARY

Operator's Name:	Emp. ID#: _	
	□RO □SRO □FS □STA/IA □SRO	Cert
JPM Title: Review a	Radiation Work Permit	
JPM Number: A-RC	<u>0-08</u> Revision Number: <u>02</u>	2
Task Number and T	Fitle: <u>Calculate stay times for performance of v</u>	<u>work</u>
NGET task		
	nportance: <u>2.3.7 (3.5) Ability to comply with ra</u> g normal or abnormal conditions.	adiation work permit
-	Environment: <u>Classroom</u>	
	Yes ⊠No SRO Only: □Yes ⊠No T	Γime Critical: ∐Yes ⊠No
Reference(s): RP-	AA-203, Exposure Control and Authorization,	, Rev.5
Actual Testing En	vironment: ☐ Simulator ☐ Control Roon	m
Testing Method:	☐ Simulate ☐ Perform	
Estimated Time to 0	Complete: <u>10</u> minutes	e Used: minutes
EVALUATION SUN Were all the Critical		∣Yes □No
•	ormance was evaluated against standards s JPM and has been determined to be:	Satisfactory □ Unsatisfactory
Comments:		
		_
Evaluator's Name:	:	(Print)
Evaluator's Signat	ture [.]	Date:

You are an extra NSO

- Today is November 11, 2020
- The Unit is at 100% RTP.
- Your current exposure history is:
 - o Annual LSCS TEDE Dose 1970 mrem
- You have been directed to support FIN team for NON-EMERGENCY maintenance on 1C11-F453A in the '1A' RWCU pump room.
- The RWP Survey Map indicates 75 mr/hr in the work area.
- RWP exposure limit for the job is 50 mrem.
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INITIATING CUE

The Unit Supervisor has ordered you to review the above conditions to determine if you are able to complete the task. Inform the Unit Supervisor when complete.