

Jo	Job Performance Measure Evaluate Plant Chemistry		
	JPM Number: <u>JPM557</u>		
	Revision Number: <u>00</u>		
	Date: <u>3/1/18</u>		
Developed By:	Tony Jennings Instructor	<u>3/1/18</u> Date	
Validated By:	Mark McCleary SME or Instructor	<u>4/2/18</u> Date	
Reviewed By:	James Lucas Operations Representative	<u>4/10/18</u> Date	
Approved By:	Tony Jennings Training Department	<u>4/10/18</u> 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 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 standard contains criteria for successful completion.
      - Verify the procedure(s) referenced by this JPM reflects the current revision: Procedure <u>4010.02</u> Rev: <u>8a</u> Procedure CX AB 120 100 Rev: 10

Procedure <u>CY-AB-120-100</u>	_ Rev: <u>19</u>
Procedure ORM 2.3.1	Rev: <u>76</u>
Procedure <u>5013.03</u>	_ Rev: <u>27</u>
Procedure 4010.01	Rev: 11a

- 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. Subsequent validations, sign and date below:

SME / Instructor

Date

SME / Instructor

Date

SME / Instructor

Date



# **Revision Record (Summary)**

Revision	Date	Description
00	3/1/18	New JPM.



# SIMULATOR SETUP INSTRUCTIONS

- a. This is an SRO admin JPM; no simulator setup is required.
- b. Administer this JPM in a location that allows access to the Operational Requirements Manual (ORM).



The plant is in Mode 1 at rated thermal power.

At 0800 the following MCR annunciator was received:

• 5013-3B Trouble PS System Local Pnl 1PL88JB.

Operators dispatched to 1PL88JB report the following 1PL88JB alarms:

- 5205-4E High Specific Conductivity Condensate Demineralizer Discharge Header, and
- 5205-5F High Spec Cdty Reactor Feedwater Header

At 0900, Chemistry reports the following reactor coolant chemistry sample results:

- Chlorides 0.34 ppb (up from 0.21 ppb 72 hours ago)
- Conductivity 1.05 µS/cm (up from 0.42 µS/cm 72 hours ago)
- pH 5.8 (down from 6.1 72 hours ago)

#### **INITIATING CUE**

Evaluate plant chemistry and determine any required actions.

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: \_\_\_\_\_

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
CUE	<ul> <li>Provide the examinee w</li> <li>5013.03 Alarm Pa</li> <li>CPS 4010.02 Pla</li> <li>CY-AB-120-100 F</li> <li>CPS 5205 Alarm</li> </ul>	ith <b>Cue Sheet 1</b> and the following items: anel 5013 Annunciators – Row 3 nt Chemistry (when requested) Reactor Water Chemistry (when requested) Panel 5205 Annunciators (1PL88JB) (when	reque	sted)	
*1	Determines reactor coolant conductivity has exceeded ORM and procedural limitations.	<ul> <li>Refers to CPS 4010.02 Plant Chemistry, step 4.4, and starts 24 hour clock to return reactor water conductivity below the Action Level 2 limit or initiate an orderly plant shutdown within 16 hours.</li> <li>Refers to CY-AB-120-100 step 4.3.3.1 Reactor Water Control Parameters – Power Operation and determines reactor coolant conductivity has exceeded Action Level 2 limit.</li> <li>Refers to ORM 2.3.1 and determines that conductivity has exceeded Table. 3.3.1-1 Mode 1 Conductivity limit.</li> <li>Enters ORM 2.3.1 Action 3.3.1.1a.</li> <li>Begins 72 hour clock for ORM 2.3.1 Action 3.3.1.1.b</li> </ul>			



<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
CUE	As the ATC and BOP op examinee as follows: • Over the past 10 m • RWCU Inlet C • 1RIX-PR034 ( µci/cc. • Determine if a Provide the examinee w when requested.	perators, <b>provide Cue Sheet #2</b> to the examinee and cue the ninutes: Conductivity has risen from 0.14 $\mu$ S/cm to 1.01 $\mu$ S/cm. Off Gas Pre-Treat PRM has risen from 2.65 $\mu$ ci/cc to 35 any additional actions are required. with a copy of CPS 4010.01 Reactor Coolant High Activity			e the
*2	Determines that response is required for rapidly rising conductivity IAW CPS 4010.02 section 4.2 and CPS 4010.01 symptom 1.2.	<ul> <li>Reviews 4010.02 Plant Chemistry and determines that the limits for rapid conductivity rise have been exceeded requiring the following:</li> <li>Rapid Plant Shutdown per CPS 3005.01 Unit Power Changes to establish Mode 4 as rapidly as plant conditions and ITS cooldown rates allow, and</li> <li>Transfer level control to an alternate source and secure and isolate the Condensate / Feedwater systems.</li> </ul>			
CUE	Cue the examinee that t	ne JPM is complete.			

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



#### JPM SUMMARY

Operator's Name:	Emp. ID#	:
Job Title: 🗌 EO 🗌 RO 🖾 SR	O □ FS □ STA/IA □ SRO	O Cert
JPM Title: Evaluate Plant Chemis JPM Number: JPM557 Task Number and Title: 401002.0 K/A Number and Importance: 2.1 Suggested Testing Environment: Alternate Path: ☐Yes ⊠No Reference(s): • CPS 4010.02 Plant Chem • CPS 4010.01 Reactor Cool • CY-AB-120-100 Reactor V • ORM 2.3.1 Reactor Coola • CPS 5013.03 (3B) Trouble	Revision Number: ( 01 Respond to Abnormal Plant .34 / RO (2.7), SRO (3.5) Simulator SRO Only: ⊠Yes □No istry, Rev. 8a blant High Activity, Rev. 11a Vater Chemistry Rev. 19 nt System Chemistry Rev. 76 e PS System Local Pnl 1PL88	<u>00</u> <u>t Chemistry</u> Time Critical:
Actual Testing Environment: [	☐ Simulator   □ Control Roo	om 🗌 In-Plant 🖂 Other
Testing Method:  Simulate	☑ Perform	
Estimated Time to Complete: 30	minutes Actual Tim	ne Used: minutes
<b>EVALUATION SUMMARY:</b> Were all the Critical Elements pe	rformed satisfactorily?	]Yes □No
The operator's performance was contained within this JPM and ha	evaluated against standards s been determined to be: [	□ Satisfactory □ Unsatisfactory
Comments:		
Evaluator's Name (Print):		-
Evaluator's Signature:		Date:



# CUE SHEET 2 (DO NOT PROVIDE TO THE EXAMINEE UNTIL PROMPTED IN JPM STEP 2)

Cue the examinee as follows:

- Over the past 10 minutes:
  - $\circ$  RWCU Inlet Conductivity has risen from 0.14 µS/cm to 1.01 µS/cm.
  - o 1RIX-PR034 Off Gas Pre-Treat PRM has risen from 2.65 μci/cc to 35 μci/cc.
  - Determine if any additional actions are required.



# CUE SHEET 1

# **INITIAL CONDITIONS**

The plant is in Mode 1 at rated thermal power.

At 0800 the following MCR annunciator was received:

• 5013-3B Trouble PS System Local Pnl 1PL88JB.

Operators dispatched to 1PL88JB report the following 1PL88JB alarms:

- 5205-4E High Specific Conductivity Condensate Demineralizer Discharge Header, and
- 5205-5F High Spec Cdty Reactor Feedwater Header

At 0900, Chemistry reports the following reactor coolant chemistry sample results:

- Chlorides 0.34 ppb (up from 0.21 ppb 72 hours ago)
- Conductivity 1.05 µS/cm (up from 0.42 µS/cm 72 hours ago)
- pH 5.8 (down from 6.1 72 hours ago)

# **INITIATING CUE**

Evaluate plant chemistry and determine any required actions.



Job Performance Measure Determine Minimum Crew Complement				
	JPM Number: <u>JPM510</u>			
	Revision Number: <u>02</u>			
	Date: <u>3/5/18</u>			
Developed By:	Tony Jennings Instructor	<u>3/5/18</u> Date		
Validated By:	Cuong Hoang SME or Instructor	<u>4/2/18</u> Date		
Reviewed By:	James Lucas Operations Representative	<u>4/20/18</u> Date		
Approved By:	Tony Jennings Training Department	<u>4/20/18</u> 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 9 and 13 below.

1.	Task description and number, JPM description and number are identified.			
2.	Knowledge and Abilities (K/A) references are	e included.		
3.	_ 3. Performance location specified. (in-plant, control room, simulator, or			
4.	4. Initial setup conditions are identified.			
5.	Initiating cue (and terminating cue if required) are properly identified.			
6.	Task standards identified and verified by SM	IE review.		
7.	Critical steps meet the criteria for critical ste asterisk (*).	ps 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 JPM reflects the current revision: Procedure <u>OP-CL-101-102-1001</u> Rev: <u>7c</u> Procedure <u>Rev:</u> Procedure <u>Rev:</u>			
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 with proper responses, then revise the JPM.			
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		

Date

SME / Instructor



# **Revision Record (Summary)**

Revision	Date	Description	
00	11/18/12	New JPM.	
01	7/8/16	Updated procedure references. Updated estimated time to complete based on validation.	
02	3/5/18	Updated procedure references. Updated JPM to new template.	



# SIMULATOR SETUP INSTRUCTIONS

a. This is an SRO admin JPM; no simulator setup is required.



Plant status is as follows:

- The plant scrammed late on midshift.
- All rods are in.
- Reactor pressure is 600 psig and stable.
- RPV level is being maintained between Level 3 and Level 8 with feed water.

# **INITIATING CUE**

You are the on-coming Work Center Supervisor. The on-coming crew consists of the following personnel:

- SRO #1 Qualified STA
- SRO #2 Qualified Shift Manager & STA
- SRO #3 Qualified Shift Manager
- 5 Reactor Operators (all qualified FB and 1 qualified as a FB Leader)
- 3 Equipment Operators (all qualified FB and EROC)
- 2 RP Technicians
- 2 First Aid/Rescue Operations Responders supplied by Security
- 1 EMD/IMD Technician
- 1 Chemistry Technician

Determine shift manning requirements for the on-coming crew.

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.

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The timeclock starts when the candidate acknowledges the initiating cue.



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JPM Start Time: \_\_\_\_\_

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
CUE	Provide the examinee w Staffing Functions.	ith a copy of OP-CL-101-102-1001 CPS Mir	nimum	On-Sł	nift
*1	Compares on-coming crew composition with the minimum shift staffing requirements.	Reviews OP-CL-101-102-1001 Table 1 and determines that an additional NLO qualified operator (EO or RO) is required to meet minimum shift staffing requirements.			
CUE	You now take the shift with the personnel listed in the INITIATING CUE and any additional personnel you have requested. Two hours after you take the shift SRO #1 has a personal emergency, leaves the site and will not return. SRO #1 was the CRS. SRO #3 assumes the CRS position and SRO #2 remains as the SM. Evaluate shift manning requirements in light of this recent change in staffing.				
*2	Determines required staffing and additional manning needs.	<ul> <li>Reviews OP-CL-101-102-1001 Table 1 and determines that:</li> <li>an IA <u>OR</u> STA is required in Mode 3, and</li> <li>an additional SRO is required to meet minimum shift staffing requirements, and</li> <li>the position must be manned within two hours.</li> </ul>			
CUE	Cue the examinee that the JPM is complete.				

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



#### JPM SUMMARY

Operator's Name:	Emp. ID#:
Job Title: □EO □RO ⊠SRO □FS □S	TA/IA 🛛 SRO Cert
JPM Title: <u>Determine Minimum Crew Complemen</u> JPM Number: <u>JPM510</u> Revis Task Number and Title: <u>9999999.25 Prepare a Min</u> K/A Number and Importance: <u>2.1.5 / RO (2.9), SF</u> Suggested Testing Environment: <u>Classroom</u> Alternate Path: □ Yes ⊠ No SRO Only: ⊠ Y Reference(s): • OP-CL-101-102-1001, Rev 7c CPS Minim	<u>nt</u> ion Number: <u>02</u> <u>nimum Shift Complement Form</u> <u>RO (3.9)</u> ′es □No Time Critical: □Yes ⊠No num On-Shift Staffing Functions
Actual Testing Environment:	🗌 Control Room 🛛 In-Plant 🗌 Other
Testing Method:   Simulate  Perform	
Estimated Time to Complete: 25 minutes	Actual Time Used: minutes
<b>EVALUATION SUMMARY:</b> Were all the Critical Elements performed satisfaction	otorily? □Yes □No
The operator's performance was evaluated agair contained within this JPM and has been determined within this JPM and has been determined within this JPM and has been determined within the set of the	າst standards າed to be: 🗌 Satisfactory 🗌 Unsatisfactory
Comments:	
Evaluator's Name (Print):	
Evaluator's Signature:	Date:



Plant status is as follows:

- The plant scrammed late on midshift.
- All rods are in.
- Reactor pressure is 600 psig and stable.
- RPV level is being maintained between Level 3 and Level 8 with feed water.

### **INITIATING CUE**

You are the on-coming Work Center Supervisor. The on-coming crew consists of the following personnel:

- SRO #1 Qualified STA
- SRO #2 Qualified Shift Manager & STA
- SRO #3 Qualified Shift Manager
- 5 Reactor Operators (all qualified FB and 1 qualified as a FB Leader)
- 3 Equipment Operators (all qualified FB and EROC)
- 2 RP Technicians
- 2 First Aid/Rescue Operations Responders supplied by Security
- 1 EMD/IMD Technician
- 1 Chemistry Technician

Determine shift manning requirements for the on-coming crew.



Jo Review CPS 9071.0 <sup>,</sup>	Job Performance Measure Review CPS 9071.01 Diesel Driven Fire Pumps Operability Test				
	JPM Number: <u>JPM556</u>				
	Revision Number: <u>00</u>				
	Date: <u>3/5/18</u>				
Developed By:	Tony Jennings Instructor	<u>3/5/18</u> Date			
Validated By:	Mark McCleary SME or Instructor	<u>4/2/18</u> Date			
Reviewed By:	James Lucas Operations Representative	<u>4/10/18</u> Date			
Approved By:	Tony Jennings Training Department	<u>4/10/18</u> 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 9 and 13 below.

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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	d) are properly identified.
6.	Task standards identified and verified by SN	IE review.
7.	Critical steps meet the criteria for critical step asterisk (*).	ps 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 <u>9071.01</u> Rev: <u>40b</u> Procedure <u>1893.01</u> Rev: <u>20f</u> 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	Date	Description
00	3/5/18	New JPM.



# SIMULATOR SETUP INSTRUCTIONS

a. This is an SRO admin JPM; no simulator setup is required.



The plant is in Mode 1.

CPS 9071.01 Diesel Driven Fire Pumps Operability Test is field complete for 0FP01PA Diesel Driven Fire Pump 'A', awaiting supervisory review.

#### **INITIATING CUE**

Review CPS 9071.01 Diesel Driven Fire Pumps Operability Test.

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.

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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	Provide the examinee with a Pumps Operability Test.	marked up copy of CPS 9071.01 Diese	el Drive	en Fire	
*1	<ul> <li>Determines 0FP01PA:</li> <li>coolant temperature exceeded section 9.2.2 Acceptance Criteria, and</li> <li>was not run for the required time (section 9.2.1.1 Acceptance Criteria</li> </ul>	<ul> <li>Reviews all steps up to and including step 8.2.8.</li> <li>Determines that test performer failed to add the correction factor for engine coolant temperature from step 4.2.1. When added engine coolant temperature exceeded 200°F.</li> <li>Determines that test performer failed to run 0FP01PA for the required 30 minutes:         <ul> <li>8.2.2.a.3 start time - 0124</li> <li>8.3.5 time - 0152</li> <li>Total time operating at full speed - 28 minutes.</li> </ul> </li> <li>Reviews remaining steps of 9071.01 - sat.</li> </ul>			
CUE	If the examinee identifies at least one of the deficiencies in step 1, cue him/her to determine required actions, and then provide examinee with a copy of CPS 1893.01 Fire Protection Impairment Reporting.			) 3.01	
*2	Determines required action for a non-functional Fire Pump.	Reviews CPS 1893.01 Fire Protection Impairment Reporting Appendix A Fire Protection Functionality Requirements, and determines that the non-functional pump must be restored to FUNCTIONAL status within 7 days or provide an alternate backup pump.			



<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
CUE	Cue the examinee that the 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: <u>Review CPS 9071.01 Diesel Driven Fire Pumps Operability Test</u> JPM Number: <u>JPM556</u> Revision Number: <u>00</u> Task Number and Title: <u>101100.01 Apply the administrative requirements of SURVEILLANCE</u> <u>TESTING PROGRAM</u> K/A Number and Importance: <u>2.2.12 / RO (3.7), SRO (4.1)</u> Suggested Testing Environment: <u>Classroom</u> Alternate Path: □Yes ⊠No SRO Only: ⊠Yes □No Time Critical: □Yes ⊠No Reference(s): • CPS 9071.01Diesel Driven Fire Pumps Operability Test, Rev. 40b • CPS 1893.01 Fire Protection Impairment Reporting, Rev. 20f
Actual Testing Environment: 🗌 Simulator 🛛 Control Room 🔲 In-Plant 🖂 Other
Testing Method: 🗌 Simulate 🖂 Perform
Estimated Time to Complete: <u>15</u> minutes <b>Actual Time Used:</b> 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
Comments:
Evaluator's Name (Print):
Evaluator's Signature: Date:



The plant is in Mode 1.

CPS 9071.01 Diesel Driven Fire Pumps Operability Test is field complete for 0FP01PA Diesel Driven Fire Pump 'A', awaiting supervisory review.

#### **INITIATING CUE**

Review CPS 9071.01 Diesel Driven Fire Pumps Operability Test.



Job Performance Measure Review CPS 9038.70 Radiation Monitoring Source Check Surveillance						
	JPM Number: <u>JPM536</u>					
	Revision Number: <u>02</u>					
	Date: <u>3/5/18</u>					
Developed By:	Tony Jennings Instructor	<u>3/5/18</u> Date				
Validated By:	Cuong Hoang SME or Instructor	<u>4/4/18</u> Date				
Reviewed By:	James Lucas Operations Representative	<u>4/10/18</u> Date				
Approved By:	Tony Jennings Training Department	<u>4/10/18</u> Date				



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2	. Knowledge and Abilities (K/A) references ar	e included.	
3	. Performance location specified. (in-plant, co	ntrol room, simulator, or other)	
4	. Initial setup conditions are identified.		
5	i. Initiating cue (and terminating cue if require	d) are properly identified.	
6	. Task standards identified and verified by SM	IE review.	
7	<ol> <li>Critical steps meet the criteria for critical ste asterisk (*).</li> </ol>	ps and are identified with an	
8	8. If an alternate path is used, the task standard contains criteria for s completion.		
9	<ul> <li>Verify the procedure(s) referenced by this J Procedure <u>CY-CL-170-301</u> Rev: <u>25</u> Procedure <u>CPS 9038.70</u> Rev: <u>3f</u> Procedure Rev:</li> </ul>	PM reflects the current revision:	
1	0. Verify cues both verbal and visual are free of	of conflict.	
1	1. Verify performance time is accurate		
1	<ol> <li>If the JPM cannot be performed as written with proper responses, then revise the JPM.</li> </ol>		
1	<ol> <li>When JPM is initially validated, sign and date validations, sign and date below:</li> </ol>	te JPM cover page. Subsequent	
	SME / Instructor	Date	
	SME / Instructor	Date	

SME / Instructor

Date



# **Revision Record (Summary)**

Revision	Date	Description
00	10/9/14	New JPM.
01	8/23/16	Updated procedure references.
02	3/5/18	Updated procedure references. Updated to new JPM template.



### SIMULATOR SETUP INSTRUCTIONS

- a. This is an SRO admin JPM; no simulator setup is required.
- b. Administer this JPM in a location that allows access to CY-CL-170-301 Offsite Dose Calculation Manual (ODCM).



The plant is operating at rated power.

NO LCOs are in effect.

1RIX-PR041 Off Gas Post-Treatment Monitor is currently NON-FUNCTIONAL for maintenance.

The OG Vault Refrigeration (VO) System has been shut down for repairs. The repairs have just been completed, and the VO system is being prepared for startup. The OG Charcoal Beds are in BYPASS to support VO system startup IAW CPS 3407.01 Off-Gas Vault Refrigeration (VO) step 4.1.

CPS 9038.70 Radiation Monitoring Source Check Surveillance has just been completed for the gaseous radiation monitors, OG Pre-treatment process radiation monitor, and the OG Post-Treatment process radiation monitors.

# **INITIATING CUE**

As an on-shift SRO, perform the supervisory review of CPS 9038.70 Radiation Monitoring Source Check Surveillance.

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.

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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.

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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	Provide the examinee with the marked up copy of CPS 9038.70 Radiation Monitoring Source Check Surveillance.				
1	Reviews CPS 9038.70 section 5.0 Prerequisites.	Examinee reviews section 5.0 and determines section is filled out correctly.			
Note	The examinee may perform the following review steps (2-4) in any order.				



CUE	If the examinee reports the failure in step 2, acknowledge the report and direct the examinee to complete the task.			ne	
*2	Evaluates surveillance data for 1RIX-PR034 Off-Gas Pre-treatment PRM.	<ul> <li>Examinee reviews surveillance data for 1RIX-PR034 and determines the following:</li> <li>Monitor failed to reach the required value of 1.5 times the current cpm value during the surveillance.</li> <li>1RIX-PR034 is NON-FUNCTIONAL per ODCM 3.2.1.</li> <li>1RIX-PR034 is required to be FUNCTIONAL during operation of the main condenser air ejector(s) per ODCM 3.2.1.1 Applicability.</li> <li>The following ODCM 3.2.1 Required Actions must be taken: <ul> <li>A.1, C.1, C.2.1.1, and C.2.1.2, <u>OR</u></li> <li>A.1, C.1, C.2.2.1, C2.2.2, and C2.2.3 (requires that the OG Charcoal Beds must immediately be placed in service)</li> </ul> </li> </ul>			
		Evaluator Note - If the examinee attempts to check the calculations on the data sheets, inform the examinee that the calculations have already been verified correct. Evaluator Note – If the examinee requests the status of the OG Charcoal Beds, cue him/her that the charcoal beds are bypassed to support startup of the OG Vault Refrigeration System.			



CUE	If the examinee reports the failure in step 3, acknowledge the report and direct the examinee to complete the task.			ne	
*3	Evaluates surveillance data for 1RIX-PR035 Off-gas Post- Treatment PRM #1.	<ul> <li>Examinee reviews surveillance data for 1RIX-PR035 and determines the following:</li> <li>Monitor failed to reach 30 cpm and 1.5 times the current cpm value when the source check was performed.</li> <li>1RIX-PR035 is NON-FUNCTIONAL per ODCM 3.2.1.</li> <li>1RIX-PR035 <u>or</u> 1RIX-PR041 is required to be FUNCTIONAL during operation of the main condenser air ejector(s) per ODCM 3.2.1 Applicability.</li> <li>With 1RIX-PR041 already NON-FUNCTIONAL for maintenance, the following ODCM Required Actions must be taken: <ul> <li>A.1, D.1, and D.2.1, <u>OR</u></li> <li>A.1, D.1, D.2.2.1, and D.2.2.2</li> </ul> </li> <li>Evaluator Note - If the examinee attempts to check the calculations on the data sheets, inform the examinee that the calculations have already been verified correct.</li> </ul>			



CUE	If the examinee reports the failure in step 4, acknowledge the report and direct the examinee to complete the task. If asked, 0RIX-PR001 is in service.		
4	Reviews surveillance data for the remainder of the Gaseous Monitors in the surveillance.	<ul> <li>Examinee reviews surveillance data for each of the remaining gaseous radiation monitors and determines the following:</li> <li>Each monitor passed channel functional testing with the exception of 0RIX-PR002 HVAC Exhaust PRM #2 lodine channel.</li> <li>ORIX-PR002 HVAC Exhaust PRM #2 lodine Sampler is required to be FUNCTIONAL at all times, and that the non-ODCM failure does not impact functionality.</li> <li>Evaluator Note - If the examinee attempts to check the calculations on the data sheets, inform the examinee that the calculations have already been verified correct.</li> </ul>	
CUE	Cue the examinee that the 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: <u>Review CPS 9038.70 Ray</u> JPM Number: <u>JPM536</u> Task Number and Title: <u>9999999.19</u> I K/A Number and Importance: <u>2.3.15</u> Suggested Testing Environment: <u>CI</u> Alternate Path: □Yes ⊠No SF Reference(s): • CY-CL-170-301 Clinton Pow Rev. 25 • CPS 9038.70 Radiation Mon	diation Monitoring Source Check Sur Revision Number: <u>02</u> Review the results of Surveillance Te 5 / RO (2.9), SRO (3.1) assroom RO Only: ⊠Yes □No Time Cri er Station Unit 1 Offsite Dose Calcul itoring Source Check Surveillance R	rveillance ests. itical: ⊡Yes ⊠No ation Manual (ODCM) ev. 3f
Actual Testing Environment:	Simulator 🛛 Control Room 🗌	In-Plant 🛛 Other
Testing Method:   Simulate	⊠ Perform	
Estimated Time to Complete: 20 mi	nutes Actual Time Used:	minutes
<b>EVALUATION SUMMARY:</b> Were all the Critical Elements perfo	rmed satisfactorily?	□No
The operator's performance was ev contained within this JPM and has b	aluated against standards been determined to be:	ctory 🗌 Unsatisfactory
Comments:		
Evaluator's Name (Print):		
Evaluator's Signature:	Date:	



The plant is operating at rated power.

NO LCOs are in effect.

1RIX-PR041 Off Gas Post-Treatment Monitor is currently NON-FUNCTIONAL for maintenance.

The OG Vault Refrigeration (VO) System has been shut down for repairs. The repairs have just been completed, and the VO system is being prepared for startup. The OG Charcoal Beds are in BYPASS to support VO system startup IAW CPS 3407.01 Off-Gas Vault Refrigeration (VO) step 4.1.

CPS 9038.70 Radiation Monitoring Source Check Surveillance has just been completed for the gaseous radiation monitors, OG Pre-treatment process radiation monitor, and the OG Post-Treatment process radiation monitors.

# **INITIATING CUE**

As an on-shift SRO, perform the supervisory review of CPS 9038.70 Radiation Monitoring Source Check Surveillance.



Job Performance Measure Determine Reporting Requirements			
	JPM Number: <u>JPM535</u>		
Revision Number: <u>02</u>			
Date: <u>3/5/18</u>			
Developed By:	Tony Jennings Instructor	<u>3/5/18</u> Date	
Validated By:	Cuong Hoang SME or Instructor	<u>4/4/18</u> Date	
Reviewed By:	James Lucas Operations Representative	<u>4/10/18</u> Date	
Approved By:	Tony Jennings Training Department	<u>4/10/18</u> 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 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, cor	ntrol 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 standard contains criteria for successful completion.		
9.	Verify the procedure(s) referenced by this JPM reflects the current revision:Procedure ITS 3.5.1Rev: 163Procedure ITS 3.6.1.3Rev: 95Procedure LS-AA-1020Rev: 26Procedure LS-AA-1110Rev: 25Procedure LS-AA-1400Rev: 7		
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	3. When JPM is initially validated, sign and date JPM cover page. Subsequent validations, sign and date below:		
	SME / Instructor	Date	
	SME / Instructor	Date	

SME / Instructor

Date



# **Revision Record (Summary)**

Revision	Date	Description	
00	10/8/14	New JPM.	
01	7/11/16	Updated procedure references.	
02	3/5/18	Updated procedure references. Converted to new JPM template.	



### SIMULATOR SETUP INSTRUCTIONS

- a. This is an SRO admin JPM; no simulator setup is required.
- b. Administer this JPM in a location that allows access to Technical Specifications and the Exelon Reportability Reference Manual (includes LS-AA-1010, 1020, 1110, 1120, and 1130).



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### **INITIAL CONDITIONS**

The plant is operating at rated thermal power.

NO LCOs are in effect.

Annunciator 5062-8E HPCS Out Of Service has just alarmed.

HPCS PWR LOSS OR OVLD ANY VLV status light is illuminated.

'B' RO reports that the position indication lights for 1E22-F004 HPCS To CNMT Outbd Isln Valve are extinguished.

### **INITIATING CUE**

As the Shift Manager, evaluate the plant conditions above and determine what, if any:

- Technical Specification actions are required to be entered.
- Reportable event number and due date/method of reporting.

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: \_\_\_\_\_

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	TASNU	Comment Number
*1	Reviews Technical Specifications.	<ul> <li>The examinee evaluates and enters:</li> <li>ITS 3.5.1 Condition B and determines that required actions B.1 and B.2 must be performed.</li> <li>ITS 3.6.1.3 Condition A and determines that required action A.1 must be performed within 4 hours, and A.2 once per 31 days.</li> </ul>			
*2	Determines Reportability	<ul> <li>Examinee determines:</li> <li>event is reportable per SAF 1.8</li> <li>requires NRC notification via ENS within 8 hours, and</li> <li>requires Licensee Event Report (LER) to be submitted within 60 days of discovery of the event.</li> </ul>			
CUE	Cue the examinee that the JPM is complete.				

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



#### JPM SUMMARY

Operator's Name:	Emp. IE	<b>)#</b> :
Job Title: □EO □RO ⊠S	RO 🗆 FS 🗆 STA/IA 🗆 S	RO Cert
JPM Title: <u>Determining Reportin</u> JPM Number: <u>JPM535</u> Task Number and Title: <u>140504</u> <u>NOTIFICATION REQUIREMEN</u> K/A Number and Importance: <u>2</u> . Suggested Testing Environmen Alternate Path: □Yes ⊠No Reference(s): ITS 3.5.1 ECCS Operatin ITS 3.6.1.3 Primary Conf LS-AA-1020 Reportability	<u>g Requirements</u> Revision Number <u>01 Apply the administrative r</u> <u>ITS</u> <u>4.30 / RO (2.7), SRO (4.1)</u> t: <u>Simulator</u> SRO Only: ⊠Yes □No ng Amendment No. 163 ainment Isolation Valves (PC / Tables and Decision Trees / Manual Rev. 25	r: <u>02</u> requirements for NRC Time Critical: □Yes ⊠No CIVs) Amendment No. 95 Rev. 26
LS-AA-1400 Event Repo	rting Guidelines 10CFR50.72	2 and 50.73 Rev. 7
Actual Testing Environment:	□ Simulator □ Control R	Room 🗌 In-Plant 🛛 Other
Testing Method:  Simulat	e 🛛 Perform	
Estimated Time to Complete: 15	<u>5</u> minutes Actual T	ime Used: minutes
<b>EVALUATION SUMMARY:</b> Were all the Critical Elements p	erformed satisfactorily?	□Yes □No
The operator's performance wa contained within this JPM and h	s evaluated against standard as been determined to be:	s □Satisfactory □Unsatisfactory
Comments:		
Evaluator's Name (Print):		
Evaluator's Signature:		Date:

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



The plant is operating at rated thermal power.

NO LCOs are in effect.

Annunciator 5062-8E HPCS Out Of Service has just alarmed.

HPCS PWR LOSS OR OVLD ANY VLV status light is illuminated.

'B' RO reports that the position indication lights for 1E22-F004 HPCS To CNMT Outbd Isln Valve are extinguished.

# **INITIATING CUE**

As the Shift Manager, evaluate the plant conditions above and determine what, if any:

- Technical Specification actions are required to be entered.
- Reportable event number and due date/method of reporting.