

**Job Performance Measure  
Determination of On-Line Risk**

JPM Number: A-N-1-S

Revision Number: 01

Date: 03 / 2017

Developed By: \_\_\_\_\_  
Exam Author Date

Approved By: \_\_\_\_\_  
Facility Representative 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.
- \_\_\_\_\_ 9. Verify the procedure(s) referenced by this JPM reflects the current revision:  
Procedure WC-AA-101 Rev: 26  
Procedure \_\_\_\_\_ Rev: \_\_\_\_\_  
Procedure \_\_\_\_\_ Rev: \_\_\_\_\_
- \_\_\_\_\_ 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 00**      Generated for 2015-301 NRC Exam.

**Revision 01**      Revised for 2017-301 NRC Exam.

## **SIMULATOR SETUP INSTRUCTIONS**

1. Simulator Center Desk computer cleared and available.

### **INITIAL CONDITIONS**

1. You are the Unit 3 Supervisor.
2. Unit 2 and Unit 3 are at near rated power.
3. The 345kv BT CB 8-15 has failed open and will take 2 days to repair.
4. The U3 Isolation Condenser is scheduled to come OOS the next shift.

### **INITIATING CUE**

1. The Shift Manager requests that you run Paragon to determine the current Unit 3 On-line and Fire Risk;

AND

2. Determine the Unit 3 On-line and Fire risk if the Isolation Condenser work is allowed.

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
<b>NOTE:</b> Have center desk computer unlocked and on the desktop screen					
01	Enter Paragon.	Clicks on the ICON for Paragon.	___	___	___
<b>CUE:</b> When asked login is <b>simcr</b> , and no password is required					
02	Select Operators Module	Selects Operators Module when 3 options are on screen	___	___	___
03	Selects Switchyard Tab, then significant breakers.	Clicks on Switchyard tab and then clicks on significant breakers.	___	___	___
*04	Select OCB 8-15 and selects unavailable.	Clicks on OCB 8-15, then clicks on unavailable,	___	___	___
*05	Select Execute. Determines that On-line risk is YELLOW and Fire risk is GREEN.	Runs program identifies On-line risk is YELLOW and Fire risk is GREEN.	___	___	___
06	Select ECCS Tab.	Clicks on ECCS Tab.	___	___	___
*07	Select Isolation Condenser, then unavailable.	Clicks on Isolation Condenser, then clicks on unavailable.	___	___	___
*08	Select Execute. Determines that On-line risk is ORANGE and Fire risk is BLUE if Isolation Condenser is taken OOS.	Runs program and identifies On-line risk is ORANGE and Fire risk is BLUE if Isolation Condenser is taken OOS.	___	___	___

<b><u>STEP</u></b>	<b><u>ELEMENT</u></b>	<b><u>STANDARD</u></b>	<b>SAT</b>	<b>UNSAT</b>	<b>Comment Number</b>
09	Report to Shift Manager that current On-line risk is YELLOW and Fire risk is GREEN and On-line risk will be ORANGE and Fire risk will be BLUE if the Isolation Condenser work is allowed.	Reports to Shift Manager that current On-line risk is YELLOW and Fire risk is GREEN and On-line risk will be ORANGE and Fire risk will be BLUE if the Isolation Condenser work is allowed.	—	—	—
<b>CUE:</b> Ask the following questions after JPM completion.					
10	What additional actions if any are required for a planned on-line risk ORANGE?	Engage Station Management for additional challenges and reviews for the planned on-line risk ORANGE window.	—	—	—
11	What additional actions if any are required for a planned on-line fire risk BLUE?	Implement actions of the on-line risk fire management program. <ul style="list-style-type: none"> <li>• Post RMA areas</li> <li>• Minimize transient combustibles</li> <li>• Minimize hot work</li> <li>• Confirm fire suppression and detection available</li> <li>• Confirm fire barriers intact.</li> </ul>	—	—	—
<b>CUE:</b> Acknowledge the report					

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

**JPM SUMMARY****Operator's Name:** \_\_\_\_\_ **Emp. ID#:** \_\_\_\_\_**Job Title:** ☒ SRO**JPM Title:** **Determination of On-Line Risk****JPM Number:** **A-N-1-S****Revision Number:** **01****Task Number and Title:** **CM198081 Determine on line risk and protected pathway equipment per WC –AA-101, OP-AA-117, and OP-DR-108-117-1001.****K/A Number and Importance:** **Generic 2.1.19 -- / 3.8****Suggested Testing Environment:** **Simulator****Alternate Path:** ☐ Yes ☒ No **SRO Only:** ☒ Yes ☐ No **Time Critical:** ☐ Yes ☒ No**Reference(s):** **WC-AA-101, Rev 026, ON-LINE WORK CONTROL PROCESS****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**Comments:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_**Evaluator's Name (Print):** \_\_\_\_\_**Evaluator's Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_



**INITIAL CONDITIONS**

1. You are the Unit 3 Supervisor.
2. Unit 2 and Unit 3 are at near rated power.
3. The 345kv BT CB 8-15 has failed open and will take 2 days to repair.
4. The U3 Isolation Condenser is scheduled to come OOS the next shift.

**INITIATING CUE**

1. The Shift Manager requests that you run Paragon to determine the current Unit 3 On-line and Fire Risk;

AND

2. Determine the Unit 3 On-line and Fire risk if the Isolation Condenser work is allowed.

**Job Performance Measure  
Reportability Determination**

JPM Number: A-N-2-S

Revision Number: 02

Date: 03 / 2017

Developed By: \_\_\_\_\_  
Exam Author Date

Approved By: \_\_\_\_\_  
Facility Representative 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.
- \_\_\_\_\_ 9. Verify the procedure(s) referenced by this JPM reflects the current revision:  
Procedure LS-AA-1130 Rev: 014  
Procedure \_\_\_\_\_ Rev: \_\_\_\_\_  
Procedure \_\_\_\_\_ Rev: \_\_\_\_\_
- \_\_\_\_\_ 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 01,**     Bank JPM

**Revision 02,**     Revised for 2017-301 NRC Exam

### **SIMULATOR SETUP INSTRUCTIONS**

1. Any IC to accommodate other JPMs.
2. This is a table top JPM utilizing Simulator procedures.
3. If this JPM is performed in a classroom setting, ensure a clean copy of the Reportability manual is available.

### **INITIAL CONDITIONS**

1. You are the Unit Supervisor.
2. The NRC resident inspector is touring the site.
3. Security informs you that the NRC inspector smells of alcohol and is slurring his words.

### **INITIATING CUE**

Determine the Reportability requirement(s), including the Event Classification and the Time Limit of any Notifications or Reports.

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
*01	Determines the event is reportable per SEC 1.9.	Determines the event is reportable per SEC 1.9, NRC Employee Unfit for Duty.	—	—	—
*02	Determines the time limit to make a phone and written report is Immediately for SEC 1.9.	Determines the time limit to make a phone and written report is Immediately for SEC 1.9.	—	—	—
<b>END</b>					

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

-----

**JPM SUMMARY****Operator's Name:** \_\_\_\_\_ **Emp. ID#:** \_\_\_\_\_**Job Title:** ☐ EO ☐ RO ☒ SRO ☐ FS ☐ STA/IA ☐ SRO Cert**JPM Title:** **Reportability Determination****JPM Number:** **A-N-2-S****Revision Number:** **02****Task Number and Title:** **299L001, Determine Reportability requirements as outlined in station Reportability manual.****K/A Number and Importance:** **Generic 2.4.30 -- / 4.1****Suggested Testing Environment:** **Classroom****Alternate Path:** ☐ Yes ☒ No **SRO Only:** ☒ Yes ☐ No **Time Critical:** ☐ Yes ☒ No**Reference(s):** **LS-AA-1130, Rev 014, SECURITY (SEC)****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**Comments:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_**Evaluator's Name (Print):** \_\_\_\_\_**Evaluator's Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_



### **INITIAL CONDITIONS**

1. You are the Unit Supervisor.
2. The NRC resident inspector is touring the site.
3. Security informs you that the NRC inspector smells of alcohol and is slurring his words.

### **INITIATING CUE**

Determine the Reportability requirement(s), including the Event Classification and the Time Limit of any Notifications or Reports.

**Job Performance Measure**  
**Review ACPS**

JPM Number: A-N-3-S

Revision Number: 00

Date: 03 / 2017

Developed By: \_\_\_\_\_  
Exam Author Date

Approved By: \_\_\_\_\_  
Facility Representative 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.
- \_\_\_\_\_ 9. Verify the procedure(s) referenced by this JPM reflects the current revision:  
Procedure OP-AA-108-101 Rev: 012  
Procedure \_\_\_\_\_ Rev: \_\_\_\_\_  
Procedure \_\_\_\_\_ Rev: \_\_\_\_\_
- \_\_\_\_\_ 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 00**      Generated for 2017-301 NRC Exam.

**SIMULATOR SETUP INSTRUCTIONS**

1. No simulator setup is required. This is an administrative JPM.
2. Provide a clean copy of OP-AA-108-101.
3. Provide a blank Equipment Status Tag (EST)
4. This completes the setup for this JPM.

### INITIAL CONDITIONS

1. You are the WEC SRO.
2. A leak has developed on the 2A Service Water Pump (2-3901-A).
3. The 2A Service Water Pump motor has been thoroughly wetted.
4. The last ACPS number was 17-123.
5. IR 1234567 was written to document the leakage and motor wetting.
6. The 2A Service Water Pump is currently in Pull-to-Lock.

### INITIATING CUE

1. Complete OP-AA-108-101 Attachments 1 and 2 as required to support EST and ACPS for 2A Service Water Pump Control Switch.
2. When complete, inform the Unit 2 Unit Supervisor.

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
<p align="center"><b><u>NOTE:</u></b></p> <p align="center">Provide the examinee with the supplied copy of OP-AA-108-101 and a blank EST.</p>					
01	Examinee reviews DOP OP-AA-108-101 locates attachments 1 and 2.	Locates Attachments 1 and 2.	—	—	—
<p align="center"><b><u>CUE:</u></b></p> <p align="center">If asked, inform the examinee the unit 2 SRO will complete attachment 3.</p>					
*02	Examinee performs step 4.2.1 and completes attachment 1.	See attached key.	—	—	—
*03	Examinee performs step 4.2.2 and completes attachment 2.	See attached key.	—	—	—
*04	Examinee fills out EST with information from attachment 1.	See attached key.	—	—	—
05	Inform Unit Supervisor task is complete.	Examinee notifies the Unit Supervisor.	—	—	—
END					

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

-----

**JPM SUMMARY****Operator's Name:** \_\_\_\_\_ **Emp. ID#:** \_\_\_\_\_**Job Title:** ☐ EO ☐ RO ☒ SRO ☐ FS ☐ STA/IA ☐ SRO Cert**JPM Title:** Review ACPS**JPM Number:** A-N-3-S**Revision Number:** 00**Task Number and Title:** 299L014 Complete an equipment status tag for a given component and properly log per OP-AA-108-101**K/A Number and Importance:** Generic 2.2.14 -- / 4.3**Suggested Testing Environment:** Classroom**Alternate Path:** ☐ Yes ☒ No **SRO Only:** ☒ Yes ☐ No **Time Critical:** ☐ Yes ☒ No**Reference(s):** OP-AA-108-101, Rev 012, CONTROL OF EQUIPMENT AND SYSTEM STATUS**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**Comments:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_**Evaluator's Name (Print):** \_\_\_\_\_**Evaluator's Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_



### **INITIAL CONDITIONS**

1. You are the WEC SRO.
2. A leak has developed on the 2A Service Water Pump (2-3901-A).
3. The 2A Service Water Pump motor has been thoroughly wetted.
4. The last ACPS number was 17-123.
5. IR 1234567 was written to document the leakage and motor wetting.
6. The 2A Service Water Pump is currently in Pull-to-Lock.

### **INITIATING CUE**

1. Complete OP-AA-108-101 Attachments 1 and 2 as required to support EST and ACPS for 2A Service Water Pump Control Switch.
2. When complete, inform the Unit 2 Unit Supervisor.

**Job Performance Measure**  
**Authorize Use of KI**

JPM Number: A-N-5-S

Revision Number: 03

Date: 03 / 2017

Developed By: \_\_\_\_\_  
Exam Author Date

Approved By: \_\_\_\_\_  
Facility Representative 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.
- \_\_\_\_\_ 9. Verify the procedure(s) referenced by this JPM reflects the current revision:  
Procedure EP-AA-113 Rev: 012  
Procedure EP-AA-113-F-02 Rev: B  
Procedure EP-AA-113-F-03 Rev: E
- \_\_\_\_\_ 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 01,** Bank JPM

**Revision 02,** Revised for ILT 12-1 (2013-301) NRC Exam

**Revision 03,** Revised for ILT 16-1 (2017-301) NRC Exam

### **SIMULATOR SETUP INSTRUCTIONS**

1. This is a tabletop JPM utilizing simulator procedures
2. No Simulator setup needed
3. Two (2) marked up copies of EP-AA-113-F-02
4. Blank copy of EP-AA-113
5. Blank copy of EP-AA-113-F-03

### INITIAL CONDITIONS

1. You are the Station Emergency Director
2. A General Emergency has been declared
3. There is an offsite release in progress
4. A Loss of the Fuel Clad Barrier has occurred, together with a failure of the RCS
5. Containment is currently being challenged
6. The TSC has NOT been activated, but the appropriate EAL has been declared
7. An Emergency life-saving operation MUST be performed
8. The operation will take between 15 and 20 minutes in a 200 R/hr field (CDE) with unknown fission product gas concentration in the room
9. The operation requires two people to enter the field
10. Clay Morrow, Employee ID #123456 and Jax Teller Employee ID #891011 have volunteered.
11. Clay and Jax have NEVER received an emergency exposure before
12. Authorized for Emergency Exposure (EP-AA-113-F-02 forms) have been filled out for Clay and Jax

### INITIATING CUE

1. Execute section 4.4 of EP-AA-113

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

-----

#### Information For Evaluator's Use:

UNSAT requires written comments on respective step.

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

Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section. The comment section should be used to document: the reason that a step is marked as unsatisfactory, marginal performance relating to management expectations, or problems the examinee had while performing the JPM. Comments relating to procedural or equipment issues should be entered and tracked using the site's appropriate tracking system.

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

The timeclock starts when the candidate acknowledges the initiating cue.

-----

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

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
<p align="center"><b><u>NOTE:</u></b></p> <p align="center">Provide the Examinee the provided copies of: EP-AA-113-F-02, EP-AA-113, and EP-AA-113-F-03</p>					
1.	Applicant determines need for emergency action.	Emergency action is needed per initiating cue.	—	—	—
CUE	If asked, Clay and Jax do NOT have any adverse reactions to KI.				
2.	Applicant recognizes per the initiating cue that authorization to take KI must also be completed prior to the emergency workers entering the space.	Recognizes that authorization to take KI must also be completed.	—	—	—
*3.	Determines there is or has been a Loss of Fuel Clad Barrier (based on initiating cues). Determines from step 4.4.1.B, condition 1, that workers will be entering an unknown radiological atmosphere that is suspected to have a high iodine concentration. Determines KI must be issued.	Determines KI must be issued.	—	—	—
<p align="center"><b><u>NOTE:</u></b></p> <p align="center">If required, as the examinee the reason for issuing KI</p>					
*4.	Documents the decision to issue KI using THYROID BLOCKING AGENT AUTHORIZATION Form (EP-AA-113-F-03).	BOTH individuals being authorized for KI and entering the space must be listed with their correct names and employee ID numbers: <ul style="list-style-type: none"> <li>Clay Morrow 123456</li> <li>Jax Teller 891011</li> </ul>	—	—	—

<b><u>STEP</u></b>	<b><u>ELEMENT</u></b>	<b><u>STANDARD</u></b>	<b>SAT</b>	<b>UNSAT</b>	<b>Comment Number</b>
<p align="center"><b><u>NOTE:</u></b></p> <p>If asked for Radiation Protection Manager to sign and date EP-AA-113-F-03, enter name as "TIG TRAGER" and today's date in the appropriate blanks.</p>					
5.	Notifies Occupational Health (Medical) Services Department promptly that KI is to be issued to Exelon Nuclear personnel or contractors.	Examinee states that he/she would notify OHS.	—	—	—
<p align="center"><b><u>NOTE:</u></b></p> <p>JPM is complete when applicant notifies OHS of KI use.</p>					
<p align="center"><b>END</b></p>					

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



**JPM SUMMARY****Operator's Name:** \_\_\_\_\_ **Emp. ID#:** \_\_\_\_\_**Job Title:** ☒ SRO**JPM Title:** **Authorize Use of KI****JPM Number:** **A-N-5-S****Revision Number:** **03****Task Number and Title:** **29900LK150, Discuss the responsibilities of the Shift Manager regarding Reportability determination and event notifications****K/A Number and Importance:** **Generic.2.4.40 2.7 / 4.5****Suggested Testing Environment:** **Classroom****Alternate Path:** ☐ Yes ☒ No **SRO Only:** ☒ Yes ☐ No **Time Critical:** ☐ Yes ☒ No**Reference(s):** **EP-AA-113, Rev 012, PERSONNEL PROTECTIVE ACTIONS; EP-AA-113-F-02, Rev B, AUTHORIZATION FOR EMERGENCY EXPOSURE; EP-AA-113-F-03, Rev E, THYROID BLOCKING AGENT AUTHORIZATION****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**Comments:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_**Evaluator's Name (Print):** \_\_\_\_\_**Evaluator's Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

### **INITIAL CONDITIONS**

1. You are the Station Emergency Director
2. A General Emergency has been declared
3. There is an offsite release in progress
4. A Loss of the Fuel Clad Barrier has occurred, together with a failure of the RCS
5. Containment is currently being challenged
6. The TSC has NOT been activated; but, the appropriate EAL has been declared
7. An Emergency life-saving operation MUST be performed
8. The operation will take between 15 and 20 minutes in a 200R/hr field (CDE) with unknown fission product gas concentration in the room
9. The operation requires two people to enter the field
10. Clay Morrow, Employee ID #123456 and Jax Teller Employee ID #891011 have volunteered
11. Clay and Jax have NEVER received an emergency exposure before
12. Authorization for Emergency Exposure (EP-AA-113-F-02 forms) have been filled out for Clay and Jax

### **INITIATING CUE**

1. Execute section 4.4 of EP-AA-113

**Job Performance Measure**  
**Perform Calculation for Radioactive Discharge to River**

JPM Number: A-N-4-S

Revision Number: 04

Date: 03 / 2017

Developed By: \_\_\_\_\_  
Exam Author Date

Approved By: \_\_\_\_\_  
Facility Representative 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.
- \_\_\_\_\_ 9. Verify the procedure(s) referenced by this JPM reflects the current revision:  
Procedure DCP 2000-28 Rev: 026  
Procedure DOP 2000-110 Rev: 042  
Procedure \_\_\_\_\_ Rev: \_\_\_\_\_
- \_\_\_\_\_ 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 01,** Bank JPM

**Revision 02,** Revised for ILT 11-1 (2012-301) Cert Exam

**Revision 03,** Revised for ILT 15-1 CERT Exam

**Revision 04,** Revised for ILT 16-1 (2017-301) NRC Exam

**SIMULATOR SETUP INSTRUCTIONS**

1. This is a tabletop JPM utilizing simulator procedures
2. No Simulator setup needed
3. Markup a copy of DCP 2000-28
4. Markup a copy of DOP 2000-110

### INITIAL CONDITIONS

1. You are the WEC Supervisor.
2. The WSGT has been on recirc in preparation for river discharge.
3. The river discharge card calculations need to be performed.
4. Chemistry has provided a copy of DCP 2000-28 Attachment 1 (**HAND TO EXAMINEE**)
5. The calibration constant to use is  $4.72 \text{ E}^{+8}$ .
6. Attachment 1 of DOP 2000-110 needs to be performed.
7. Another Operator will perform the remainder of the attachments of DOP 2000-110.

### INITIATING CUE

1. The Unit Supervisor has directed you to complete Attachment 1 of DOP 2000-110, in accordance with step G.5 (**HAND TO EXAMINEE**)
2. Inform the Unit Supervisor when calculations are completed and require verification

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

---

#### Information For Evaluator's Use:

UNSAT requires written comments on respective step.

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

Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section. The comment section should be used to document: the reason that a step is marked as unsatisfactory, marginal performance relating to management expectations, or problems the examinee had while performing the JPM.

Comments relating to procedural or equipment issues should be entered and tracked using the site's appropriate tracking system.

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

The timeclock starts when the candidate acknowledges the initiating cue.

---

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

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
<p align="center"><b><u>NOTE:</u></b></p> <p align="center">Provide the examinee with the supplied copy of DCP 2000-28 Attachment 1 and DOP 2000-110</p>					
1.	Examinee reviews DOP 2000-110 and locates attachment 1.	Locates Attachment 1.	—	—	—
*2.	Examinee performs step 1 and Calculates Discharge Flow Rate of 9082 gpm.	See attached key.	—	—	—
*3.	Examinee performs step 3.a and calculates Total Isotopic Activity of 150.	See attached key.	—	—	—
*4.	Examinee performs step 5 and determines Alert Setpoint to be 2.25 E+5	See attached key.	—	—	—
5.	Informs Unit Supervisor verification is required and task is complete.	Examinee notifies the Unit Supervisor.	—	—	—
END					

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

-----



**CATEGORY 1**

# KEY

UNIT 2/3  
DOP 2000-110  
REVISION 42

**ATTACHMENT 1**
**WASTE SURGE TANK RADIOACTIVE WASTE DISCHARGE TO RIVER CARD**

BATCH NUMBER 17-005

ROUTING:

1. RADWASTE COORDINATOR
2. HEALTH PHYSICIST

© River Discharge Secured  
Early Due to: \_\_\_\_\_

\_\_\_\_\_  
If required, verify  
Automatic Grab Sample  
Obtained AND Reset 45  
Second Timer.  
Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Initial: \_\_\_\_\_ ©(W-1)

BY OPERATOR		INITIAL
DATE OF DISCHARGE		
TANK LEVEL AT START	®	
DILUTION FLOW	GPM	
TIME OF PUMP START		
LEVEL CHECK TIME		
TANK LEVEL	®	
DISCHARGE RATE	GPM	
DATE DISCH COMPLETE		
TIME DISCH COMPLETE		
TANK LEVEL COMPLETION		

1. Calculate Discharge Rate below (Minimum Allowed Calculated Discharge Rate 250 gpm):  
  

$$(\text{Dilution Flow} / \text{Total DWC Fraction}) \times 0.2 = \text{Calculated Allowable Discharge Rate}$$

$$(40,000 \text{ gpm} / 8.809 \text{ E}^{-1}) \times 0.2 = 9082 \text{ gpm}$$
2. This river discharge has an Authorized Calculated Discharge Rate of: 9082 gpm.
3. Calculate High Alarm Setpoint below:
  - a. Total Isotopic Activity x Calibration Constant = 09-01 Expected CPM  

$$3.185 \text{ E}^{-7} \times 4.72 \text{ E}^{+8} = 150.3$$
  - b. [Expected CPM x Dilution Factor]/Total Gamma MPC Fraction = High Alarm  

$$[150.3 \times 161] / 4.821 \text{ E}^{-2} = 5.01 \text{ E}^{+5}$$
4. IF calculated High Alarm Setpoint is > 4.5E+05, THEN use 4.5E+05 as the High Alarm Setpoint.
5. IF the calculated High Alarm Setpoint is < 4.5E+5, THEN calculate the Alert Setpoint by multiplying the High Alarm Setpoint by 0.5. Otherwise, use 2.25E+05.

Alert Setpoint: 2.25 E<sup>+5</sup>

Calculated By: Candidate Signature

Verified By: \_\_\_\_\_  
Shift Manager, or designee

# KEY

**JPM SUMMARY****Operator's Name:** \_\_\_\_\_ **Emp. ID#:** \_\_\_\_\_**Job Title:** ☒ SRO**JPM Title:** Perform calculation for radioactive discharge to river**JPM Number:** A-N-4-S**Revision Number:** 04**Task Number and Title:** 29000LP051, Given, and in accordance with, appropriate procedures, perform calculations for a radioactive waste discharge to the river.**K/A Number and Importance:** Generic 2.3.11 -- / 4.3**Suggested Testing Environment:** Classroom**Alternate Path:** ☐ Yes ☒ No **SRO Only:** ☒ Yes ☐ No **Time Critical:** ☐ Yes ☒ No**Reference(s):** DCP 2000-28, Rev 026, RIVER DISCHARGE; DOP 2000-110, Rev 042, WASTE SURGE TANK RADWASTE DISCHARGE TO RIVER WITH THE OFF-STREAM LIQUID EFFLUENT MONITOR OPERABLE**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**Comments:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_**Evaluator's Name (Print):** \_\_\_\_\_**Evaluator's Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

### **INITIAL CONDITIONS**

1. You are the WEC Supervisor.
2. The WSGT has been on recirc in preparation for river discharge.
3. The river discharge card calculations need to be performed.
4. Chemistry has provided a copy of DCP 2000-28 Attachment 1
5. The calibration constant to use is  $4.72 \text{ E}^{+8}$ .
6. Attachment 1 of DOP 2000-110 needs to be performed.
7. Another Operator will perform the remainder of the attachments of DOP 2000-110.

### **INITIATING CUE**

1. The Unit Supervisor has directed you to complete Attachment 1 of DOP 2000-110, in accordance with step G.5
2. Inform the Unit Supervisor when calculations are completed and require verification.