

**Facility:**                   Perry                                     **JPM No:**                   2004-301-1.(S)RO.1                  

**Task Title:** Verify a Working Copy of a Procedure Current Prior to Use

**K/A Reference:**                   2.1.21                  

**Recommended Testing Method:**

Simulate                              Actual   X  

Classroom                              Simulator                              Plant   X  

**Task Standard:**                   Locates an Updated Volume of the Operations Manual that contains an updated version of SOI-P43, Nuclear Closed Cooling System.

**Required Materials:**           SOI-P43, Revision 9  
  SOI-P43, Revision 10  
  Updated Volume of the Operations Manual

**General References:**           PAP-0607, Document and Vendor Information Control  
  PYBP-SITE-0006, Procedure/Instruction Working Copy Verification User's Guide

**Time Critical Task:**           NO

**Validation Time:**             5 minutes  

**READ TO THE EXAMINEE**

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this Job Performance Measure will be satisfied.

**Initial Conditions:**

Applicant is ready to perform In-Plant Systems JPM "k"

**Initiating Cue:**

There is no initiating cue for this JPM. This JPM will be conducted in conjunction with In-Plant System JPM "k". Provide the applicant with the initiating cue for In-Plant System JPM k, "Place a Nuclear Closed Cooling Water Heat Exchange in Service" using SOI-P43. Provide the applicant with SOI-P43 Rev 9. This is NOT the latest Revision of SOI-P43.

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

NOTE

If the applicant asks if the provided procedure is the most recent, respond by saying, **“I don’t know.”** If the applicant wants to see Procedures Personnel, state, **“Its backshift, they are not available.”**

**C Step: 1**           Locates an Updated Volume of the Operations Manual that contains an updated version of SOI-P43, Nuclear Closed Cooling System to obtain procedure status . Checks if the provided procedure is the most current.

**Standard:**       Locates an Updated Volume of the Operations Manual **OR** logs into “CURATOR”.

**Cue:**

**Comment:**

**C Step: 2**           Compares the provided procedure with the Updated Operations Manual **OR** the associated “Document Screen” in “Curator” to determine if the procedure provided is the most current revision.

**Standard:**       Indicates to the examiner there is a more current revision to the procedure.

**Cue:**

**Comment:**

**C Step: 3**           Retrieves the latest revision of SOI-P43, Nuclear Closed Cooling System.

**Standard:**       Retrieves a copy of SOI-P43, Rev 10, for field use.

**Cue:**

**Comment:**

**Step:** 4            Marks the procedure cover page of the up-to-date copy of SOI-P43 as a “Working Copy”; initials and dates the procedure cover page.

**Standard:**        Indicates on the cover page that the copy is a “Working Copy”; initials and dates the copy cover page.

**Cue:**

**Comment:**

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

Examinee: \_\_\_\_\_ SRO/RO (circle one)

Examiner: \_\_\_\_\_

Date Performed: \_\_\_\_\_

Start Time: \_\_\_\_\_ Stop: \_\_\_\_\_ Time to Complete: \_\_\_\_\_

Follow-up Questions: (Include Question and Response)

Result: Satisfactory/Unsatisfactory (circle one)

Examiner's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Facility:**                     Perry                                       **JPM No:**                     2004-301-1.(S)RO.3                    

**Task Title:** Review and Approve a Clearance

**K/A Reference:**                     201001 2.1.24 / 2.2.13                    

**Recommended Testing Method:**

Simulate                              Actual           X          

Classroom           X                             Simulator                              Plant           

**Task Standard:**                   Locates / corrects 100% of errors inserted in tagout.

**Required Materials:**                   NOP-OP-1001, Clearance/Tagging Program  
CRDH Mechanical Drawing 302-0872

**General References:**                   NOP-OP-1001, Clearance/Tagging Program

**Time Critical Task:**                   NO

**Validation Time:**                                       20 minutes                    

**READ TO THE EXAMINEE**

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this Job Performance Measure will be satisfied.

**Initial Conditions:**

A small crack in the control rod 18-43 accumulator has been found (water side). Control rod 18-43 has been inserted and the amphenols removed (disconnected). A separate clearance to electrically isolate the accumulator has been issued and tags hung. Maintenance has submitted a request for clearance for a work request on HCU 1C11D1843.

**Initiating Cue:**

Verify the Clearance has been prepared correctly and will provide the needed protection.

**CAUTION**

1C11-EP-101, Insert Riser Isolation Valve, must be closed prior to closing either 1C11-EP-102, Withdraw Riser Isolation Valve, and/or 1C11-EP-112, Scram Discharge Isolation Valve, to prevent damage to HCU and CRD components.

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

**Step:** 1            Locate and refer to drawing 302-0872.

**Standard:**        Locates drawing 302-0872.

**Cue:**

**Comment:**

**NOTE TO EVALUATOR**

If a new Clearance Tag List is not provided prior to the start of the exam, DO NOT include the "Tag Serial No." and "Placement/Restoration Sequence" in the grading criteria.

- C Step:** 2            Determines that the following valves are correctly identified and the required configuration is specified as CLOSED and tagged:
- a. 1C11-EP-101, Insert Riser Isolation
  - b. 1C11-EP-102, Withdrawal Riser Isolation
  - c. 1C11-EP-103, Drive Water Isolation
  - d. 1C11-EP-112, Scram Outlet Isolation
  - e. 1C11-EP-105, Exhaust Riser Isolation

**Standard:**        Determines that the above valves are correctly identified and in their correct position.

**Cue:**

**Comment:**

**C Step: 3** Determines that the 1C11-EP-104 valve on the tag sheet is for the wrong HCU.

**Standard:** Informs examiner the 1C11-EP-104 valve on the tagout is for the wrong HCU.

**Cue:**

**Comment:**

**C Step: 4** Determines that the required configuration for 1C11-EP-113, Accumulator Drain Valve, should be CLOSED and tagged.

**Standard:** Determines 1C11-EP-113 should be CLOSED and tagged.

**Cue:**

**Comment:**

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

Examinee: \_\_\_\_\_ SRO/RO (circle one)

Examiner: \_\_\_\_\_

Date Performed: \_\_\_\_\_

Start Time: \_\_\_\_\_ Stop: \_\_\_\_\_ Time to Complete: \_\_\_\_\_

Follow-up Questions: (Include Question and Response)

Result: Satisfactory/Unsatisfactory (circle one)

Examiner's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Facility:**                     Perry                    

**JPM No:**                     2004-301-1.RO.2                    

**Task Title:** Turnover Panel Walkdown

**K/A Reference:**                     G.2.1.3                    

**Recommended Testing Method:**

Simulate  Actual

Classroom Simulator  Plant

**Task Standard:** Candidates identifies all 5 of the discrepant conditions on the panels in the horseshoe during the panel walk down.

**Required Materials:** PAP-0126, Attachment 3, RO Relief/Turnover Checklist

**General References:** PAP-0126, Attachment 3, RO Relief/Turnover Checklist

**Time Critical Task:** NO

**Validation Time:** 15 minutes

**READ TO THE EXAMINEE**

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this Job Performance Measure will be satisfied.

**Initial Conditions:**

1. Reset the Simulator to an IC with the Reactor at approx. 75% RTP.
1. Place the control switch for "B" EDG in Pull-to-Lock
2. Close valve E12F027A.
3. Closed Outboard MSIV, B21F028B.
4. Adjust APRM Channel D Gain Adjustment Factor to >2%.
5. Increase/decrease Recirculation Loop Flows as necessary so that they differ by >10%.

**Initiating Cue:**

The Unit is in Mode 1 at 75% power. You are an oncoming Reactor operator. Conduct a panel walk down (in the horseshoe only) for turnover.

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

**C Step: 1** The candidate conducts a turnover walk down of the horseshoe area only.

**Standard:** Candidates identifies 5 discrepant conditions on panels in the horseshoe.

**Cue:**

**Comment:** Candidate identifies the following discrepancies:

1. "B" EDG control switch is in Pull-to-Lock
2. E12F027A valve is out of position (Closed)
3. B21F028B, Outboard MSIV is out of position (Closed)
4. APRM Channel D Gain Adjustment Factor >2%
5. Recirculation Loop Flows differ by >10%

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

Examinee: \_\_\_\_\_ SRO/RO (circle one)

Examiner: \_\_\_\_\_

Date Performed: \_\_\_\_\_

Start Time: \_\_\_\_\_ Stop: \_\_\_\_\_ Time to Complete: \_\_\_\_\_

Follow-up Questions: (Include Question and Response)

Result: Satisfactory/Unsatisfactory (circle one)

Examiner's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Facility:**                   Perry                                     **JPM No:**                   2004-301-1.RO.4                  

**Task Title:** Verifying Applicable Radiological Controls

**K/A Reference:**                   G 2.3.1                  

**Recommended Testing Method:**

Simulate   X             Perform           

Classroom                      Simulator                      Plant   X  

**Task Standard:** Adheres to the applicable radiological controls/practices while placing the NCC Heat Exchanger in service.

**Required Materials:** RWP 040002

**General References:** NOP-OP-1002, Conduct of Operations

**Time Critical Task:** NO

**Validation Time:**   10 minutes  

**Initial Conditions:**

Applicant is ready to perform In-Plant Systems JPM “k”

**READ TO THE EXAMINEE**

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this Job Performance Measure will be satisfied.

**Initiating Cue:**

There is no initiating cue for this JPM. This JPM will be conducted in conjunction with In-Plant System JPM “k” . Provide the applicant with the initiating cue for In-Plant System JPM k, “Place a Nuclear Closed Cooling Water Heat Exchange in Service”.

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

**NOTE TO EVALUATOR**

*If the candidate starts to enter the RRA without reviewing the Operations Dept RWP, ask him what the radiological requirements are associated with the task that they are about to perform.*

**Step: 1** Prior to entering the RRA, the candidate reviews the applicable Operations Dept. RWP (040002).

- Standard:** Identifies the following requirements:
1. RP coverage required for breaches of potentially contaminated systems.
  2. RP brief or RP coverage required for climbing above 6'.

**Cue:**

**Comment:**

C **Step: 2** Contacts Radiation Protection personnel prior to climbing 6-ft or higher to determine the required coverage and controls.

**Standard:** Simulates contacting Radiation Protection personnel prior to climbing 6-ft or higher.

**Cue:** TBD

**Comment:**

C **Step: 3** Contacts Radiation Protection personnel prior to venting or draining water from the NCC Heat Exchanger.

**Standard:** Simulates contacting Radiation Protection personnel prior to commencing venting operations.

**Cue:** TBD

**Comment:**

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

Examinee: \_\_\_\_\_ SRO/RO (circle one)

Examiner: \_\_\_\_\_

Date Performed: \_\_\_\_\_

Start Time: \_\_\_\_\_ Stop: \_\_\_\_\_ Time to Complete: \_\_\_\_\_

Follow-up Questions: (Include Question and Response)

Result: Satisfactory/Unsatisfactory (circle one)

Examiner's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Facility:**                     Perry                                          **JPM No:**                     2004-301-1.SRO.2                    

**Task Title:** Review and Approve a HPCS Run Surveillance

**K/A Reference:**                     2.1.1                    

**Recommended Testing Method:**

Simulate                                 Actual   X  

Classroom   X                        Simulator                                 Plant           

**Task Standard:** Locates / corrects 100% of errors inserted in surveillance data.

**Required Materials:** SVI-E22-T2001, HPCS Pump & Operability with errors inserted.

**General References:** SVI-E22-T2001, HPCS Pump & Operability Test

**Time Critical Task:** NO

**Validation Time:**   15 minutes  

**READ TO THE EXAMINEE**

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this Job Performance Measure will be satisfied.

**Initial Conditions:**

SVI-E22-T2001, HPCS Pump & Operability Test, was completed last shift.

**Initiating Cue:**

Review the completed surveillance data for accuracy.

**CAUTION**

Provide the applicant with the completed SVI-E22-T2001, HPCS Pump & Operability Test for review.

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

- C Step: 1**            On the Data Package cover sheet, identifies that the TEST CREDIT line is not marked.
- Standard:**            Informs examiner the TEST CREDIT line is not marked.
- Cue:**                    I will have the performing operator make the correction, continue with your review.
- Comment:**
- 
- C Step: 2**            On page 7, step 4.0.5, identifies that stopwatch 0L70R0371G “Calibration Due Date” has expired.
- Standard:**            Informs examiner that stopwatch may be out of calibration. Initiates action to determine whether data obtained with stopwatch is acceptable or unacceptable.
- Cue:**
- Comment:**
- 
- C Step: 3**            On page 12, step 5.1.2.b.2, identifies that “PI Verification – Closed direction” should be marked SAT or UNSAT instead of N/A
- Standard:**            Informs examiner of error.
- Cue:**                    I will have the performing operator make the correction to Step 5.1.2.b.2, continue with your review.
- Comment:**

**C Step:** 4            On page 20, step 5.1.3.34.a, identifies that SAT or UNSAT box not checked.

**Standard:** Informs examiner of error.

**Cue:** Inform the applicant that you found the operator performing the surveillance, he said the SAT box should be checked.

**Comment:** This completes the JPM.

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

Examinee: \_\_\_\_\_ SRO/RO (circle one)

Examiner: \_\_\_\_\_

Date Performed: \_\_\_\_\_

Start Time: \_\_\_\_\_ Stop: \_\_\_\_\_ Time to Complete: \_\_\_\_\_

Follow-up Questions: (Include Question and Response)

Result: Satisfactory/Unsatisfactory (circle one)

Examiner's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Facility:**                   Perry                                     **JPM No:**                   2004-301-1.SRO.4                  

**Task Title:** Inventory Control Room High Rad Series (HRS) Keys/Missing Key

**K/A Reference:**                   G 2.3.1                  

**Recommended Testing Method:**

Simulate                      Perform   X  

Classroom                      Simulator                      Plant           X          

**Task Standard:** Identifies missing key and initiates appropriate actions in accordance with PAP-0123.

**Required Materials:** Completed PAP-0123 Attachment 2 for Main Control Room HRS Key Locker and PAP-0123 Attachment 4

**General References:** PAP-0123

**Time Critical Task:** NO

**Validation Time:**           10 minutes          

**Initial Conditions:** N/A

**READ TO THE EXAMINEE**

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this Job Performance Measure will be satisfied.

**Initiating Cue:**

As the Shift Manager, conduct the daily inventory of the HRS Keys and Locks, assigned to the Main Control Room HRS Key Locker, in accordance with PAP-0123.

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

C **Step:** 6.1.1.2 Using a copy of the HRS Barricade List conduct an inventory of the HRS Keys and Locks assigned to the Main Control Room HRS Key Locker.

- Standard:**
1. Obtains key (#132) for HRS Key Locker from the Main Control Room Key Locker (located inside the horseshoe).
  1. Obtains copy of HRS Barricade List.
  2. Checks keys and open High Rad Key Issue forms against the HRS Barricade List.
  3. Identifies that key **A-9"** is not accounted for.

**Cue:** Inform candidate that key **A-9"** is not in the locker.

**Comment:**

C **Step:** 6.1.1.2.a Notify RPS immediately if the location of any HRS Keys cannot be ascertained.

**Standard:** Simulates immediate notification of Radiation Protection Section that key **A-9"** is not accounted for.

**Cue:** Acknowledge notification that key **A-9"** is not accounted for.

**Comment:**

**Step:** 6.1.1.2.b Document the results of the HRS Key inventory on the HRS Key Locker Inventory (PNPP No. 8861, Attachment 4).

**Standard:** Completes Attachment 4.

**Cue:**

**Comment:**

**Step:** Forward completed HRS Key inventories to RPS Supervision.  
6.1.1.2.c

**Standard:** Places completed form in inter-office mail or equivalent.

**Cue:**

**Comment:**

**Step:** Ensure that the requirements of Section 6.4 are satisfied for  
6.1.1.2.d unaccounted HRS keys.

**Standard:** Reviews section 6.4 and assigns an individual to guard the  
FHB IFTS Floor Plug until released by a RPS Technician.

**Cue:**

**Comment:**

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

Examinee: \_\_\_\_\_ SRO/RO (circle one)

Examiner: \_\_\_\_\_

Date Performed: \_\_\_\_\_

Start Time: \_\_\_\_\_ Stop: \_\_\_\_\_ Time to Complete: \_\_\_\_\_

Follow-up Questions: (Include Question and Response)

Result: Satisfactory/Unsatisfactory (circle one)

Examiner's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Facility:**                   Perry                                     **JPM No:**                   2004-301-1.SRO.5                  

**Task Title:** Complete Event Classification Checklist

**K/A Reference:**                   G 2.4.40                  

**Recommended Testing Method:**

Simulate                              Perform   X  

Classroom                              Simulator   X                     Plant           

- Task Standard:**
1. Initial Notification Form is completed and forwarded to communicator within 12 minutes.
  2. Completes Section A of the Event Classification Checklist

**Required Materials:** EPI-A2 Attachment 1; EPI-B1 Attachment 1; EPI-B1 Attachment 2; EPI-B5 Attachment 1; EPI-B5 Attachment 2

**General References:** EPI-A2; EPI-B1; EPI-B5

**Time Critical Task:** YES

**Validation Time:**   20 minutes  

**Initial Conditions:**

This JPM may be run in any IC as long as SPDS is available..

**READ TO THE EXAMINEE**

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this Job Performance Measure will be satisfied.

**Initiating Cue:**

This task has a Time Critical Element. As Shift Manager, you have just declared a General Emergency due to an unisolable Main Steam line break in the Auxiliary Building Steam Tunnel with RPV water level less than 0" (EAL – AG1). The Auxiliary Building HVAC System (M38) is operating in the high rad mode. Auxiliary Building HVAC exhaust rad levels peaked and then decreased following the scram, but are still above normal shutdown levels. Complete the immediate actions of EPI-A2, Emergency Actions Based On Event Classification.

**NOTE TO EVALUATOR**

*Announcement of the General Emergency and sounding of the Plant Emergency Alarm should be simulated to prevent alerting other candidates of the content of this JPM.*

START TIME: \_\_\_\_\_

**C Step: 1** Announce event classification and reason for declaring emergency over the Plant PA System. Sound Plant Emergency Alarm if event classified from the Control Room.

- Standard:**
1. Simulates announcing a General Emergency over the Plant PA System.
  2. Simulates sounding of the Plant Emergency Alarm.

**Cue:**

**Comment:**

**Step: 2** Call two shift I&C technicians to Control Room as communicators. NOTE: CRA may also serve as a Control Room Communicator.

- Standard:** Simulates calling for two shift I&C Techs to be sent to MCR. (Its anticipated that the candidate will call the I&C Supervisor.)

**Cue:**

**Comment:**

**NOTE TO EVALUATOR**

*Make a note of the wind speed and direction as shown on SPDS to determine whether candidate recommends evacuation of the correct sub-areas.*

- C Step:** 3            Completes an Initial Notification form (PNPP No. 7794),
- Standard:** 1. Completes and approves Initial Notification form.  
a. Enters appropriate information in steps 1-4 based on initiating cue.  
b. Determines that an unplanned radioactive release is in progress.  
c. Completes step 6.b based on wind direction obtained from SPDS.  
2. Simulates forwarding completed form to communicators within 12 minutes of decision to classify event or upgrade offsite PAR. (Attachment 2 of EPI-B1 including default PAR.
- Cue:** I will make the required communication.
- Comment:** This completes the TIME CRITICAL ELEMENT

**TIME CRITICAL ELEMENT STOP TIME:** \_\_\_\_\_

- C Step:** 4.a            Determine facilities to be activated using table in Attachment 1: (R-required; O-optional)
- Standard:** Identifies that all facilities are required.
- Cue:**
- Comment:** Attachment 1 referenced above step is EPI-A2 Attachment 1.
- 
- Step:** 4.b            Are needed facilities already in operation and available/accessible?
- Standard:** Identifies that there are no facilities currently in operation and that all facilities are available/accessible.
- Cue:**
- Comment:**

**Step:** 4.c      Announce activation of facilities to be activated over the Plant PA System.

**Standard:** Simulates announcement of which facilities are to be activated over the Plant PA System.

**Cue:**

**Comment:**

C **Step:** 5      Complete the Pager Messages form (PNPP No. 9100), approve, and forward immediately to the SAS or notify the on-call EPU Representative.

NOTE: (1) Completion of form is delegated to the Security Coordinator once TSC is operational. (2) Activation of ERO pagers are NOT needed if required facilities have already been/are being mobilized OR simultaneously classifying and terminating from an Unusual Event.

**Standard:** 1. On EPI-B1 Attachment 1, Checks message number 13 in block 1, writes short description in block 2, signs and dates form.  
2. Simulates forwarding form to the SAS.

**Cue:**

**Comment:**

C **Step:** 6      Initiate personnel accountability per EPI-B5, if not yet implemented.

**Standard:** Implements EPI-B5.

**Cue:** Offsite monitoring/decontamination centers are not required at this time.

**Comment:**

**Step:** 6.a      Activate the applicable pre-recorded “Emergency” message (Attachment 1 of EPI-B5) on the Exclusion Area Paging (R53) System every five (5) minutes until accountability is completed.

**Standard:** Simulates activation of pre-recorded message.

**Cue:**

**Comment:**

C **Step:** 6.b      Direct all Control Room staff and Plant Operators (POs) located in the Unit 2 Control Room, to promptly use the designated accountability card readers.

**Standard:** Simulates issuing order to use accountability card readers.

**Cue:**

**Comment:**

C **Step:** 6.c      Complete Personnel Accountability Checklist (PNPP No. 7957, Attachment 2 of EPI-B5) to account for on-shift POs outside the Control Room, and forward to the CAS via the Secondary Alarm Station (SAS).

**Standard:** Completes applicable information on Attachment 2 for the two PO’s outside of the control.  
Simulates forwarding completed form to the SAS.

**Cue:** Two PO’s are outside of the Control Room.

D. Jones	Badge No. 123
W. Smithe	Badge No. 456

**Comment:**

- Step: 7**      Verify that notifications and/or requests for offsite support were completed by the SAS:
- a. Fire Department (911)                      Not Required
  - b. Ambulance (911)                              Not Required
  - c. Hospital:                                      Not Required
    - Primary - Lake East;
    - Backup - Lake West

**Standard:** Offsite support services marked as not required.

**Cue:**

**Comment:**

- Step: 8**      Verify that an individual knowledgeable in system operations is assigned to the NRC ENS Circuit to answer questions and inquiries when an open line is established.

**Standard:** Assigns knowledgeable individual to assigned to ENS.

**Cue:**

**Comment:**

STOP TIME: \_\_\_\_\_

Examinee: \_\_\_\_\_ SRO/RO (circle one)

Examiner: \_\_\_\_\_

Date Performed: \_\_\_\_\_

Start Time: \_\_\_\_\_ Stop: \_\_\_\_\_ Time to Complete: \_\_\_\_\_

Follow-up Questions: (Include Question and Response)

Result: Satisfactory/Unsatisfactory (circle one)

Examiner's Signature: \_\_\_\_\_ Date: \_\_\_\_\_