
**Job Performance Measure
Worksheet**

Facility: Pilgrim

Task No: 299-03-01-021

Task Title: Daily Log Task #20

JPM No: 12

K/A Reference: G2.1.20 4.3 / 4.2

Position: RO/SRO

Examinee: _____

NRC Examiner: _____

Date: _____

Method of testing:

Simulated Performance _____

Actual Performance ✓

Classroom _____

Simulator ✓ Plant _____

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: Plant conditions are as follows:

- Reactor power is 100%.
- The mode switch has been in RUN for > 24 hours
- Daily Log Task #20 has not been done today

Task Standard: Candidate completes Daily Log Task #20 and determines that the results are unacceptable. There shall be no failure of critical tasks. All critical steps must be performed in order written unless otherwise noted.

Required Materials: PNPS 2.1.15, (Rev 145), Attachment 1, pg. 34 of 138

General References: PNPS 2.1.15, (Rev 145)

Initiating Cue: "[Candidate's name], complete Daily Log Task #20 IAW 2.1.15, Attachment 1

Time Critical Task: NO

Validation Time: 5 minutes

PERFORMANCE INFORMATION
(Critical steps denoted with a check mark)

_____ **Performance Step 1:** Review the applicable sections of the procedure.

Standard: Candidate reviews the precautions of 2.1.15

Comment:

_____ **Performance Step 2:** Check Drywell to Torus ΔP from PID-5021 and PID-5067A & PID-5067B on Panel C904 during power operation.

Standard: Candidate records indications on Attachment 1

Comment:

✓ _____ **Performance Step 3:** PID-5021 must be greater than or equal to 1.21 psid;
Administrative Limit.

Standard: Candidate determines that PID-5021 is < 1.21 psid.

Comment:

PERFORMANCE INFORMATION
(Critical steps denoted with a check mark)

✓ **Performance Step 4:** The difference between recorded pressures on PID-5067A and PID-5067B must be equal to or greater than 1.21 psid.

Standard: Candidate determines that PID-5067A & PID-5067B are < 1.21 psid.

Comment:

✓ **Performance Step 5:** If the Spec in either Step1 or Step 2 above cannot be met and the ΔP restored within 6 hours, an orderly shutdown shall be initiated and the Reactor shall be in Cold Shutdown in 24 hours.

Standard: Candidate determines that neither specification is met, and informs the CRS.

Comment:

Terminating Cue: When the candidate has determined that both specs are not met, the examiner shall tell the candidate that the JPM is complete.

NOTE: This JPM is a lead-in to JPM #8, "Manually Start of SBT and Vent the Torus". Read the following to the candidate when this JPM is complete:

"[Candidate's name], vent the torus using the 'B' train of Standby Gas Treatment in accordance with PNPS 2.2.70, Section 7.3 and 7.3.3. Inform me when the task is complete."

VERIFICATION OF COMPLETION

JPM No.: _____

Examinee's Name: _____

Examiner's Name: _____

Date performed: _____

Number of attempts: _____

Time to complete: _____

Question Documentation:

Question: _____

Response: _____

Result: **SAT** or **UNSAT**

Examiner's signature and date: _____

**Job Performance Measure
Quality Checklist**

Every JPM should:

1. Be supported by facility licensee's job task analysis.
2. Be operationally important (meets NRC K/A Catalog threshold criterion of 2.5 (3 for requalification exams) or as determined by the facility and agreed to by the NRC).
3. Be designed as either SRO only, RO/SRO or AO/RO/SRO.
4. Include the following, as applicable:
 - a. Initial conditions
 - b. Initiating cues
 - c. References and tools, including associated procedures
 - d. Validated time limits (average time allowed for completion) and specific designation of those JPMs that are deemed to be time-critical by the facility operations department
 - e. Specific performance criteria that include:
 - (1) Expected actions with exact control and indication nomenclature and criteria (switch position, meter reading), even if these criteria are not specified in the procedural step
 - (2) System response and other cues that are complete and correct so that the examiner can properly cue the examinee, if asked
 - (3) Statements describing important observations that should be made by the examinee
 - (4) Criteria for successful completion of the task
 - (5) Identification of those steps that are considered critical
 - (6) Restrictions on the sequence of steps

Information Provided to Candidate

Initial Conditions: Plant conditions are as follows:

- Reactor power is 100%.
- The mode switch has been in RUN for > 24 hours
- Daily Log Task #20 has not been done today

Initiating Cue: “[Candidate’s name], complete Daily Log Task #20 IAW 2.1.15, Attachment 1

**Job Performance Measure
Worksheet**

Facility: Pilgrim

Task No: 299-03-04-026

Task Title: Emergent Work Procedure Change

No: 13

K/A Reference: G2.1.20 4.3 / 4.2

Position: RO/SRO

Examinee: _____

NRC Examiner: _____

Date: _____

Method of testing:

Simulated Performance _____

Actual Performance ✓

Classroom ✓

Simulator _____ Plant _____

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: It has been determined that an error exists in PNPS 2.2.19, Section 7.3.2 in that if a Group VI isolation signal exists, the MO-1001-29A and B cannot be opened as directed by 7.3.2[9] unless the LPCI INJ MO-1001-29A/B Lockout Pushbuttons are depressed first.

Initiating Cue: Complete a Procedure Control Form as an emergent work change in accordance with NOP98A1 section 6.1.3.2

Task Standard: Candidate completes sections A and B of PCF Form.

Required Materials: NOP98A1, Rev 12, Procedure Change Form, PNPS 2.2.19, Rev 83

General References: NOP98A1

Time Critical Task: NO

Validation Time: 15 minutes

PERFORMANCE INFORMATION
(Critical steps denoted with a check mark)

_____ **Performance Step 1:** Candidate reviews the applicable section of the procedures.

Standard: Candidate reviews PNPS 2.2.19, section 7.3.2 and NOP98A1 Section 6.1.3.3.

Comment:

_____ **Performance Step 2:** Obtain a PCF Form from the procedures work group, an electronic equivalent, or from a controlled copy of NOP98A1.

Standard: PCF Form obtained.

Comment: When the candidate has demonstrated to the examiner that he can obtain the copy, the examiner should provide him with a copy of the PCF Form. This includes the instructions which are part of the same Attachment.

_____ **Performance Step 3:** Enter desired issue date.

Standard: Current date entered.

Comment: Cue the candidate that the procedure should be changed today.

PERFORMANCE INFORMATION
(Critical steps denoted with a check mark)

Performance Step 4: Enter the correct procedure number.

Standard: 2.2.19 entered. (May enter PNPS 2.2.19)

Comment:

Performance Step 5: Enter the correct procedure title.

Standard: Residual Heat Removal entered.

Comment:

Performance Step 6: Enter new revision number.

Standard: Revision 84 entered.

Comment:

PERFORMANCE INFORMATION
(Critical steps denoted with a check mark)

_____ **Performance Step 7:** Enter EWN number.

Standard: EWN number is left blank.

Comment: Cue the candidate that the control room will supply an EWN number at a later time.

Performance Step 8: List pages affected.

Standard: page 38 listed.

Comment:

_____ **Performance Step 9:** Enter PCF initiator name.

Standard: Candidate name entered.

Comment: When this step is complete, cue the candidate that another operator will finish the PCF form.

VERIFICATION OF COMPLETION

JPM No.: _____

Examinee's Name: _____

Examiner's Name: _____

Date performed: _____

Number of attempts: _____

Time to complete: _____

Question Documentation:

Question: _____

Response: _____

Result: **SAT** or **UNSAT**

Examiner's signature and date: _____

**Job Performance Measure
Quality Checklist**

Every JPM should:

1. Be supported by facility licensee's job task analysis.
2. Be operationally important (meets NRC K/A Catalog threshold criterion of 2.5 (3 for requalification exams) or as determined by the facility and agreed to by the NRC).
3. Be designed as either SRO only, RO/SRO or AO/RO/SRO.
4. Include the following, as applicable:
 - a. Initial conditions
 - b. Initiating cues
 - c. References and tools, including associated procedures
 - d. Validated time limits (average time allowed for completion) and specific designation of those JPMs that are deemed to be time-critical by the facility operations department
 - e. Specific performance criteria that include:
 - (1) Expected actions with exact control and indication nomenclature and criteria (switch position, meter reading), even if these criteria are not specified in the procedural step
 - (2) System response and other cues that are complete and correct so that the examiner can properly cue the examinee, if asked
 - (3) Statements describing important observations that should be made by the examinee
 - (4) Criteria for successful completion of the task
 - (5) Identification of those steps that are considered critical
 - (6) Restrictions on the sequence of steps

Information Provided to Candidate

Initial Conditions: It has been determined that an error exists in PNPS 2.2.19, Section 7.3.2 in that if a Group VI isolation signal exists, the MO-1001-29A and B cannot be opened as directed by 7.3.2[9] unless the LPCI INJ MO-1001-29A/B Lockout Pushbuttons are depressed first.

Initiating Cue: Complete a Procedure Control Form as an emergent work change in accordance with NOP98A1 section 6.1.3.2

**Job Performance Measure
Worksheet**

Facility: Pilgrim

Task No: 201-02-01-001

Task Title: Rod Worth Minimizer Operability
(OPER-15)

JPM No: 14

K/A Reference: G2.2.12 3.0 / 3.4

Position: RO/SRO

Examinee: _____

NRC Examiner: _____

Date: _____

Method of testing:

Simulated Performance _____

Actual Performance ✓

Classroom _____

Simulator ✓ Plant _____

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: Plant conditions are as follows:

- Reactor power is 25%
- The plant will be reducing power below 20% during the next shift
- The RWM operability needs to be performed
- All prerequisites are completed for this operability
- An operator is standing by at C928 for any board manipulations

Task Standard: Candidate completes OPER-15. There shall be no failure of critical tasks.

Required Materials: Marked up copy of PNPS 2.1.31 (Rev 7)

General References: PNPS 2.1.31 (Rev 7)

Initiating Cue: "[Candidate's name], perform the RWM Operability IAW PNPS 2.1.31, Attachment 2

Time Critical Task: NO

Validation Time: 10-15 minutes

PERFORMANCE INFORMATION
(Critical steps denoted with a check mark)

_____ **Performance Step 1:** Review the applicable sections of the procedure.

Standard: Candidate reviews the precautions of 2.1.31.

Comment: All critical steps must be performed in order written unless otherwise noted.

_____ **Performance Step 2:** Verify no RWM or other rod blocks present.

Standard: Candidate checks Rod Worth Minimizer and verifies that no rod blocks are present

Comment:

_____ **Performance Step 3:** Verify alarm "RPIS INOP" (C905L-D4) is CLEAR.

Standard: Candidate verifies that the alarm is clear.

Comment:

PERFORMANCE INFORMATION
(Critical steps denoted with a check mark)

Performance Step 4: **VERIFY OR TURN** the Instrument and Operator Displays keylock switches to "OPERATE". **PRESS** the SELF-TEST softkey on the Instrument Display Panel C928 and the self-test display will be generated. The display will contain an arrow that will point to the hardware module being tested. **VERIFY** that all modules are tested within 10 minutes and that the status of each module is "OK". **USE** the EXIT softkey to exit the self-test display.

Standard: Candidate verifies RWM keylock switch on C905 is in OPERATE and requests C928 operator perform Step [3] of Attachment 2

Comment: Cue candidate "The self tests have been completed, all tests indicated OK, and self test mode has been exited".

Performance Step 5: **VERIFY** on the Instrument and Operator Displays that the correct sequence is selected (top middle of the display).

Standard: Candidate verifies the correct sequence is displayed and requests C928 operator perform Step [4] of Attachment 2

Comment: Cue candidate "Sequence A2 is selected on the Instrument Display".

Performance Step 6: Read note about the response of the RWM.

Standard: Candidate reads the note

Comment:

PERFORMANCE INFORMATION
(Critical steps denoted with a check mark)

✓ **Performance Step 7:** Using Attachment 4, **SELECT** a rod in Group 1, Step 1.

Standard: Candidate selects a rod from Group 1, Step 1 on the Rod Pull Sheet.

Comment:

_____ **Performance Step 8:** Read note about which rod block are not displayed at position 00 and 48

Standard: Candidate reads the note

Comment:

_____ **Performance Step 9:** **VERIFY** that a large "SE" (select error) and a large "IB" (insert Block) and a large "WB" (withdraw block) indication appear on the Instrument and Operator Displays.

Standard: Candidate verifies that "SE", "IB", and "WB" are displayed on the RWM at C905 and requests status at C928.

Comment: Cue candidate "SE", "IB", and "WB" are displayed on the Instrument Display".

PERFORMANCE INFORMATION
(Critical steps denoted with a check mark)

✓ **Performance Step 10:** **VERIFY** that the selected control rod cannot be withdrawn.

Standard: Candidate turns the ROD CONTROL switch to the NOTCH OUT position and verifies that the selected rod does not move.

Comment:

✓ **Performance Step 11:** Using Attachment 4, **REPEAT** the above step for a rod in each of the remaining groups except for the group/step you are currently in. **ENTER** "N/A" for groups not required to be performed.

Standard: Candidate repeats Steps 5-7 for remaining groups

Comment: The examiner may cue the operator at any time that the remaining groups have all been tested satisfactorily.

Performance Step 12: On the RWM Operator Display, Panel C905, **SELECT** the "Bypass Options" softkey. (This may be found by pressing the "etc" softkey.) **VERIFY** that the rods intended to be bypassed (as determined by Reactor Engineering) are listed.

Standard: Candidate verifies that no rods are bypassed.

Comment:

PERFORMANCE INFORMATION
(Critical steps denoted with a check mark)

✓

Performance Step 13: **SELECT** the first rod to be inserted on Form RE.12 **AND VERIFY** the Self Test indicates OK on the RWM Instrument and Operator Displays.

Standard: Candidate verifies the RWM Self Test indicates OK and requests status at C928.

Comment: Cue candidate "Self-test indicates OK on the Instrument Display".

Performance Step 14: Verify the correct sequence is selected at the RWM Instrument and Operator Displays.

Standard: Candidate verifies the correct sequence is selected on the RWM and requests status at C928.

Comment: Cue candidate "Sequence A2 is selected on the Instrument Display".

Performance Step 15: Verify the mode is "OPERATE" on the RWM Instrument and Operator Displays.

Standard: Candidate verifies the mode is "OPERATE" on the RWM and requests status at C928.

Comment: Cue candidate "Mode is OPERATE on the Instrument Display".

PERFORMANCE INFORMATION
(Critical steps denoted with a check mark)

Performance Step 16: Verify the correct step is indicated on the RWM Instrument and Operator Displays.

Standard: Candidate verifies the correct step is indicated and requests status at C928.

Comment: Cue candidate that the Instrument and Operator Displays indicate the same step.

Terminating Cue: When the candidate has completed Attachment 2, the examiner shall tell the candidate that the JPM is complete.

VERIFICATION OF COMPLETION

JPM No.: _____

Examinee's Name: _____

Examiner's Name: _____

Date performed: _____

Number of attempts: _____

Time to complete: _____

Question Documentation:

Question: _____

Response: _____

Result: **SAT** or **UNSAT**

Examiner's signature and date: _____

Job Performance Measure Quality Checklist

Every JPM should:

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 - (3) Statements describing important observations that should be made by the examinee
 - (4) Criteria for successful completion of the task
 - (5) Identification of those steps that are considered critical
 - (6) Restrictions on the sequence of steps

Information Provided to Candidate

Initial Conditions: Plant conditions are as follows:

- Reactor power is 100%.
- The mode switch has been in RUN for > 24 hours
- Daily Log Task #20 has not been done today

Initiating Cue: “[Candidate’s name], complete Daily Log Task #20 IAW 2.1.15, Attachment 1

**Job Performance Measure
Worksheet**

Facility: Pilgrim

Task No: 299-04-04-008

Task Title: Determine Low Dose Area

No: 15

K/A Reference: 2.3.10 2.6/3.3

RO/SRO

Examinee: _____

NRC Examiner: _____

Date: _____

Method of testing:
Simulated Performance _____

Actual Performance ✓

Classroom ✓

Simulator _____ Plant _____

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: Plant conditions are as follows:

- The Unit is at 100% power
- Maintenance needs to be performed on the 'A' CRD Pump Local Suction Pressure Gauge, PX-8038, in the CRD Quad
- You have been assigned by the CRS to assist maintenance by operating the isolation valve for this instrument, 301-254A, as requested by maintenance

Task Standard: Determine the area in the CRD Quad having the lowest dose rate. There shall be no failure of critical elements. Critical steps must be performed in order; other steps may be performed out of sequence.

Required Materials: Survey Map

General References: PNPS 1.3.114, Conduct of Radiological Operations, Rev 16

Initiating Cue: "[Candidate's name], while standing by between operations of 301-254A in the CRD Quad -17' elevation, where will you stand and why?"

Time Critical Task: No

Validation Time: 5 minutes

PERFORMANCE INFORMATION
(Critical steps denoted with a check mark)

Performance Step 1: Obtain survey map.

Standard: Candidate obtains survey map for the CRD Quad.

Comment: NOTE: Provide Candidate with a copy of the survey map.

Performance Step 2: Determine low dose area.

Standard: Candidate determines that the area at the bottom of the stairs to the CRD Quad has the lowest dose (2 mR/hr.) and that he should stand there.

Comment: If necessary, inform the Candidate that Maintenance will provide direction on when to operate the valve.

Terminating Cue: When Candidate determines the low dose area, the evaluation for this JPM is complete.

VERIFICATION OF COMPLETION

JPM No.: _____

Examinee's Name: _____

Examiner's Name: _____

Date performed: _____

Number of attempts: _____

Time to complete: _____

Question Documentation:

Question: _____

Response: _____

Result: **SAT** or **UNSAT**

Examiner's signature and date: _____

**Job Performance Measure
Quality Checklist**

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 - (3) Statements describing important observations that should be made by the examinee
 - (4) Criteria for successful completion of the task
 - (5) Identification of those steps that are considered critical
 - (6) Restrictions on the sequence of steps

Information Provided to Candidate

Initial Conditions: Plant conditions are as follows:

- The Unit is at 100% power
- Maintenance needs to be performed on the 'A' CRD Pump Local Suction Pressure Gauge, PX-8038, in the CRD Quad
- You have been assigned by the CRS to assist maintenance by operating the isolation valve for this instrument, 301-254A, as requested by maintenance

Initiating Cue: "[Candidate's name], while standing by between operations of 301-254A in the CRD Quad -17' elevation, where will you stand and why?"

PERFORMANCE INFORMATION
(Critical steps denoted with a check mark)

Performance Step 1: Candidate reviews the applicable section of the procedure.

Standard: Applicable section of the procedure reviewed.

Comment:

Performance Step 2: When indications of abnormal conditions are received, personnel will verify the symptoms and then compare them with the Emergency Actions Levels

Standard: Candidate evaluates current conditions and reviews EAL chart

Comment:

Performance Step 3: Identify the highest emergency classification level for which an EAL has been met or exceeded.

Standard: Candidate determines that EAL 3.3.2.3 has been met

Comment:

Terminating Cue: When the candidate made the EAL classification, the evaluator shall tell the candidate that the JPM is completed.

VERIFICATION OF COMPLETION

JPM No.: _____

Examinee's Name: _____

Examiner's Name: _____

Date performed: _____

Number of attempts: _____

Time to complete: _____

Question Documentation:

Question: _____

Response: _____

Result: **SAT** or **UNSAT**

Examiner's signature and date: _____

**Job Performance Measure
Quality Checklist**

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1. Be supported by facility licensee's job task analysis.
2. Be operationally important (meets NRC K/A Catalog threshold criterion of 2.5 (3 for requalification exams) or as determined by the facility and agreed to by the NRC).
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Information Provided to Candidate

Initial Conditions: Plant conditions are as presently indicated in the simulator.

Initiating Cue: “[Candidate’s name], what emergency classification is required according to these conditions?”