

Facility: Columbia Generating Station	Task No:
Task Title: Determine Jet Pump Operability	Job Performance Measure No: SA.1JPM
K/A Reference: 2.1.7 3.7/4.4	
Examinee:	NRC Examiner:
Facility Evaluator:	Date: 02/22/01

Method of testing:

Admin - Simulate

## JPM SETUP INFORMATION

Initial Conditions:	The plant is operating at 100% power. The Jet Pump Operability surveillance is due.
Task Standard:	Perform a manual calculation for Jet Pump Operability per OSP-RRC-D701.
Required Materials:	N/A
General References:	OSP-RRC-D701 rev 5, step 7.2.3.a, 7.2.3.b, and ATT. 10.1
Initiating Cue:	The plant is operating at 100% power. The Jet Pump Operability surveillance is due. <ol style="list-style-type: none"><li>1. Determine if Jet Pumps JP1 through JP10 are operable.</li><li>2. Perform OSP-RRC-D701 rev 5, step 7.2.3.a, 7.2.3.b, and ATT. 10.1, using panel indications for these jet pumps.</li><li>3. A Histogram is not available.</li></ol>
Time Critical Task:	NO
Validation Time:	15 min.
Simulator ICs:	14 in freeze
Malfunctions/Remote Triggers:	N/A
Overrides:	N/A
Special Setup Instructions:	N/A

## PERFORMANCE INFORMATION

START TIME:

Critical Step: YES	
Performance Step: 1	Using the supplied OSP-RRC-D701 rev 5, step 7.2.3.a and 7.2.3.b and Attachment 10.1; perform the jet pump operability for JP1 through JP10.
<b>CUE:</b>	
Standard:	<ol style="list-style-type: none"> <li>1. Jet pump panel readings are recorded within 10% of panel indications – See attached copy of 10.1.</li> <li>2. All Jet pumps are determined to be operable – The YES box is checked for step 7.2.3.b.</li> </ol>
Comment: SAT / UNSAT	

THE EXAMINEE SHOULD ANNOUNCE THE TERMINATION POINT OF THE JPM AT THIS POINT.

JPM TERMINATION TIME: JPM START TIME: - _____ JPM COMPLETION TIME:
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**VERIFICATION OF COMPLETION**

JPM Number: SA.1JPM

Examinee's Name:

Examiner's Name:

Date Performed:

Facility Evaluator:

Number of Attempts:

Time to Complete:

## JPM INFORMATION CARD

HAND THE STUDENT INFORMATION CARD TO THE EXAMINEE

READ TO THE EXAMINEE:

I will explain the initial conditions, which steps to simulate or discuss, and provide initiation cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

Task Standard:	Perform a manual calculation for Jet Pump Operability per OSP-RRC-D701.
Required Materials:	N/A
Safety Equipment:	N/A
General References:	OSP-RRC-D701 rev 5, step 7.2.3.a, 7.2.3.b, and ATT. 10.1
Time Critical Task:	NO
Initial Conditions:	The plant is operating at 100% power. The Jet Pump Operability surveillance is due.

**INITIATING CUE**

The plant is operating at 100% power. The Jet Pump Operability surveillance is due.

1. Determine if Jet Pumps JP1 through JP10 are operable.
2. Perform OSP-RRC-D701 rev 5, step 7.2.3.a, 7.2.3.b, and ATT. 10.1, using panel indications for these jet pumps.
3. A Histogram is not available.

**INFORMATION BELOW THIS LINE NOT SHARED WITH EXAMINEE**

Task Number:  
NUREG 1123 Reference: 2.1.7 3.7/4.4

Validation Time: 15 min.  
Time Critical: NO

Location: Simulator

Prepared/Revised by: S Hutchison

Performance Method: Perform - Admin

Revision Date: 1/11/01

**STUDENT INFORMATION**

Initial Conditions:      The plant is operating at 100% power. The Jet Pump Operability surveillance is due.

**INITIATING CUE**

The plant is operating at 100% power. The Jet Pump Operability surveillance is due.

1. Determine if Jet Pumps JP1 through JP10 are operable.
2. Perform OSP-RRC-D701 rev 5, step 7.2.3.a, 7.2.3.b, and ATT. 10.1, using panel indications for these jet pumps.
3. A Histogram is not available.

Facility: Columbia Generating Station	Task No:
Task Title: Interrupt EWDs	Job Performance Measure No: SA.2JM
K/A Reference: 2.1.24 2.8/3.1	
Examinee:	NRC Examiner:
Facility Evaluator:	Date: 02/22/01

Method of testing:

Admin - Simulate

## JPM SETUP INFORMATION

**Initial Conditions:** The plant is operating at power. ROA-FN-1A has to be started following maintenance for operability.

**Task Standard:** Indications for the start of ROA-FN-1A are explained correctly using EWD 80E001.

**Required Materials:** N/A

**General References:** EWD 80E001

**Initiating Cue:** The plant is operating at power. ROA-FN-1A has to be started following maintenance for operability. The following scenario occurs:

1. The breaker for the fan has been racked in and the EO has notified the control room he is ready for a start.
2. The CRO notices that the green STOP/OFF indication at the control switch is off. Thinking the light bulb is burned out; the CRO places the control switch for ROA-FN-1A to start.
3. The EO reports the breaker closes by sound and the manual indicators but there is no closed indication on the lights on the breaker door.
4. The CRO also notes there is no closed/running indication in the control room.
5. The CRO places the control switch in the TRIP position. Nothing happens, the fan continues to run.
6. All light bulbs have been verified as good.

Using EWD 80E001, explain why there are no indicating lights for ROA-FN-1A and why it cannot be tripped.

**Time Critical Task:** NO  
**Validation Time:** 10 min.  
**Simulator ICs:** N/A  
**Malfunctions/Remote Triggers:** N/A  
**Overrides:** N/A  
**Special Setup:** N/A

Instructions:

## PERFORMANCE INFORMATION

START TIME:

Critical Step: YES	
Performance Step: 1	Demonstrate on EWD 80E001 the reason for the indications in the Initiating Cue.
Standard:	<p>Using EWD 80E001, demonstrate the following :</p> <ol style="list-style-type: none"> <li>1. For the fan to start, the close fuses, FO3-1, FO3-2, F10-1, and F10-2 have to be installed and operable.</li> <li>2. All light indications for the fan are in the trip circuit.</li> <li>3. For the fan to trip, the trip fuses FO4-1 and FO4-2 have to be installed and operable.</li> <li>4. Since the fan started the close fuses were good.</li> <li>5. Since there was no breaker indication locally or in the control room and the fan would not trip with the control switch the trip fuses FO4-1 and FO4-2 (either or both) are blown or not installed correctly.</li> </ol> <p><b>FOR FULL CREDIT</b> – It must be indicated that bad/blown trip fuses prevent both light indication and the trip of the fan.</p>
Comment: SAT / UNSAT	

THE EXAMINEE SHOULD ANNOUNCE THE TERMINATION POINT OF THE JPM AT THIS POINT.

JPM TERMINATION  
TIME:  
JPM START TIME: - \_\_\_\_\_  
JPM COMPLETION  
TIME:

**VERIFICATION OF COMPLETION**

JPM Number: SA.2JPM

Examinee's Name:

Examiner's Name:

Date Performed:

Facility Evaluator:

Number of Attempts:

Time to Complete:

## JPM INFORMATION CARD

HAND THE STUDENT INFORMATION CARD TO THE EXAMINEE

READ TO THE EXAMINEE:

I will explain the initial conditions, which steps to simulate or discuss, and provide initiation cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

Task Standard:	Indications for the start of ROA-FN-1A are explained correctly using EWD 80E001.
Required Materials:	N/A
Safety Equipment:	N/A
General References:	EWD 80E001
Time Critical Task:	N/A
Initial Conditions:	The plant is operating at power. ROA-FN-1A has to be started following maintenance for operability.

**INITIATING CUE**

The plant is operating at power. ROA-FN-1A has to be started following maintenance for operability. The following scenario occurs:

1. The breaker for the fan has been racked in and the EO has notified the control room he is ready for a start.
2. The CRO notices that the green STOP/OFF indication at the control switch is off. Thinking the light bulb is burned out; the CRO places the control switch for ROA-FN-1A to start.
3. The EO reports the breaker closes by sound and the manual indicators but there is no closed indication on the lights on the breaker door.
4. The CRO also notes there is no closed/running indication in the control room.
5. The CRO places the control switch in the TRIP position. Nothing happens, the fan continues to run.
6. All light bulbs have been verified as good.

Using EWD 80E001, explain why there are no indicating lights for ROA-FN-1A and why it cannot be tripped.

**INFORMATION BELOW THIS LINE NOT SHARED WITH EXAMINEE**

Task Number:

NUREG 1123 Reference: 2.1.24 2.8/3.1

Location: Simulator

Prepared/Revised by: S Hutchison

Validation Time: 10 min.

Time Critical: NO

Performance Method: Simulate - Admin

Revision Date: 1/11/01

## STUDENT INFORMATION

Initial Conditions: The plant is operating at power. ROA-FN-1A has to be started following maintenance for operability.

## INITIATING CUE

The plant is operating at power. ROA-FN-1A has to be started following maintenance for operability. The following scenario occurs:

1. The breaker for the fan has been racked in and the EO has notified the control room he is ready for a start.
2. The CRO notices that the green STOP/OFF indication at the control switch is off. Thinking the light bulb is burned out; the CRO places the control switch for ROA-FN-1A to start.
3. The EO reports the breaker closes by sound and the manual indicators but there is no closed indication on the lights on the breaker door.
4. The CRO also notes there is no closed/running indication in the control room.
5. The CRO places the control switch in the TRIP position. Nothing happens, the fan continues to run.
6. All light bulbs have been verified as good.

Using EWD 80E001, explain why there are no indicating lights for ROA-FN-1A and why it cannot be tripped.

Facility: Columbia Generating Station	Task No: SRO-0026
Task Title: Complete Planned Special Exposure	Job Performance Measure No: SA.3JPM
K/A Reference: 2.3.4 2.5/3.1	
Examinee:	NRC Examiner:
Facility Evaluator:	Date: 02/22/01

Method of testing:

Admin - Simulate

## JPM SETUP INFORMATION

**Initial Conditions:** The plant is in a refueling outage with the drywell open. A valve manipulation is required to flush a hot spot from a trap in the drywell. The operator selected is expected to receive a total of 350 mrem to perform the task. An Increased Exposure Request is required for the task.

**Task Standard:** The paperwork for the Increased Exposure Request is completed in accordance with GEN-RPP-07.

**Required Materials:** N/A

**General References:** GEN-RPP-07.

**Initiating Cue:** The plant is in a refueling outage with the drywell open. A valve manipulation is required to flush a hot spot from a trap in the drywell. The operator selected is 30 years old and has been employed by Energy Northwest for 5 years. He is expected to receive a total of 350 mrem to perform the task. The following information applies to the operator.

1. John Q Operator
2. SS # - 555-55-5555
3. DOB – 01/01/71
4. 1.8 rem TEDE year to date.
5. 6.875 rem TEDE lifetime.
6. All dose is from Energy Northwest exposure.

As the operator's supervisor, complete the Increased Exposure Request per GEN-RPP-07.

**Time Critical Task:** NO  
**Validation Time:** 10 min.  
**Simulator ICs:** N/A  
**Malfunctions/Remote Triggers:** N/A  
**Overrides:** N/A  
**Special Setup Instructions:** N/A

PERFORMANCE INFORMATION

START TIME:

Critical Step: YES	
Performance Step: 1	Complete the first 3 sections of the Increased Exposure Request as the Supervisor of the designated operator.
Standard:	<p>Increased Exposure Request form is completed in accordance with GEN-RPP-07.</p> <p>Grading Standard – compare candidates completed form with the attached form. Passing Criteria = each required section must match the attached form. The reason and justification must match the intent.</p>
Comment: SAT / UNSAT	

THE EXAMINEE SHOULD ANNOUNCE THE TERMINATION POINT OF THE JPM AT THIS POINT.

<p>JPM TERMINATION TIME:</p> <p>JPM START TIME: - _____</p> <p>JPM COMPLETION TIME:</p>
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**VERIFICATION OF COMPLETION**

JPM Number: SA.3JPM

Examinee's Name:

Examiner's Name:

Date Performed:

Facility Evaluator:

Number of Attempts:

Time to Complete:

## JPM INFORMATION CARD

HAND THE STUDENT INFORMATION CARD TO THE EXAMINEE

READ TO THE EXAMINEE:

I will explain the initial conditions, which steps to simulate or discuss, and provide initiation cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

Task Standard: The paperwork for the Increased Exposure Request is completed in accordance with GEN-RPP-07.

Required Materials: N/A

Safety Equipment: N/A

General References: GEN-RPP-07.

Time Critical Task: NO

Initial Conditions: The plant is in a refueling outage with the drywell open. A valve manipulation is required to flush a hot spot from a trap in the drywell. The operator selected is expected to receive a total of 350 mrem to perform the task. An Increased Exposure Request is required for the task.

**INITIATING CUE**

The plant is in a refueling outage with the drywell open. A valve manipulation is required to flush a hot spot from a trap in the drywell. The operator selected is 30 years old and has been employed by Energy Northwest for 5 years. He is expected to receive a total of 350 mrem to perform the task. The following information applies to the operator.

1. John Q Operator
2. SS # - 555-55-5555
3. DOB – 01/01/71
4. 1.8 rem TEDE year to date.
5. 6.875 rem TEDE lifetime.

6. All dose is from Energy Northwest exposure.

As the operator's supervisor, complete the Increased Exposure Request per GEN-RPP-07.

**INFORMATION BELOW THIS LINE NOT SHARED WITH EXAMINEE**

Task Number: SRO-0026

NUREG 1123 Reference: 2.3.4 2.5/3.1

Location: Admin

Prepared/Revised by: S Hutchison

Validation Time: 10 min.

Time Critical: NO

Performance Method: Simulate

Revision Date: 1/10/01

## STUDENT INFORMATION

Initial Conditions: The plant is in a refueling outage with the drywell open. A valve manipulation is required to flush a hot spot from a trap in the drywell. The operator selected is expected to receive a total of 350 mrem to perform the task. An Increased Exposure Request is required for the task.

## INITIATING CUE

The plant is in a refueling outage with the drywell open. A valve manipulation is required to flush a hot spot from a trap in the drywell. The operator selected is 30 years old and has been employed by Energy Northwest for 5 years. He is expected to receive a total of 350 mrem to perform the task. The following information applies to the operator.

1. John Q Operator
2. SS # - 555-55-5555
3. DOB – 01/01/71
4. 1.8 rem TEDE year to date.
5. 6.875 rem TEDE lifetime.
6. All dose is from Energy Northwest exposure.

As the operator's supervisor, complete the Increased Exposure Request per GEN-RPP-07.

Facility: Columbia Generating Station	Task No: SRO-0233
Task Title: Classify the Event	Job Performance Measure No: SA.4JPM
K/A Reference: 2.4.41 2.3/4.1	
Examinee:	NRC Examiner:
Facility Evaluator:	Date: 02/22/01

Method of testing:

Admin - Simulate

## JPM SETUP INFORMATION

Initial Conditions: The plant is in Mode 3.

Task Standard: Classify the event correctly per PPM 13.1.1 Classifying the Emergency.

Required Materials: N/A

General References: PPM 13.1.1 rev 28, page 13

Initiating Cue: The plant is in Mode 3. The following conditions exist:

1. Reactor Pressure is 687 psig and down slow
2. Reactor Level is -62 inches and stable
3. Drywell temperature is 251°F and up slow
4. Drywell pressure is 8 psig and up slow
5. Drywell unidentified leakage on EDR-FRS-623 went offscale high for a short period of time and returned to 0.
6. Wind direction 300°
7. Wind speed 8 mph
8. Stability Classification E
9. No precipitation

Based on these conditions, determine the Emergency Classification, and complete a CNF form.

Time Critical Task: NO  
 Validation Time: 15 min  
 Simulator ICs: N/A  
 Malfunctions/Remote: N/A  
 Triggers:  
 Overrides: N/A  
 Special Setup: N/A  
 Instructions:

## PERFORMANCE INFORMATION

START TIME:

Critical Step: Yes	
Performance Step: 1	Review plant data and complete CNF form.
<b>CUE:</b>	
Standard:	<ol style="list-style-type: none"> <li>1. Review data and complete CNF form as attached.</li> <li>2. EAL is ALERT based on either 2.1.a.1 or 3.1.a.1 of PPM 13.1.1.</li> </ol>
Comment: SAT / UNSAT	

THE EXAMINEE SHOULD ANNOUNCE THE TERMINATION POINT OF THE JPM AT THIS POINT.

JPM TERMINATION TIME:	
JPM START TIME:	- _____
JPM COMPLETION TIME:	

**VERIFICATION OF COMPLETION**

JPM Number: SA.4JPM

Examinee's Name:

Examiner's Name:

Date Performed:

Facility Evaluator:

Number of Attempts:

Time to Complete:

## JPM INFORMATION CARD

HAND THE STUDENT INFORMATION CARD TO THE EXAMINEE

READ TO THE EXAMINEE:

I will explain the initial conditions, which steps to simulate or discuss, and provide initiation cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

Task Standard:	Classify the event correctly per PPM 13.1.1 Classifying the Emergency.
Required Materials:	N/A
Safety Equipment:	N/A
General References:	PPM 13.1.1 rev 28, page 13
Time Critical Task:	NO
Initial Conditions:	The plant is in Mode 3.

**INITIATING CUE**

The plant is in Mode 3. The following conditions exist:

1. Reactor Pressure is 687 psig and down slow
2. Reactor Level is -62 inches and stable
3. Drywell temperature is 251°F and up slow
4. Drywell pressure is 8 psig and up slow
5. Drywell unidentified leakage on EDR-FRS-623 went offscale high for a short period of time and returned to 0.
6. Wind direction 300°
7. Wind speed 8 mph
8. Stability Classification E
9. No precipitation

Based on these conditions, determine the Emergency Classification, and complete a CNF form.

**INFORMATION BELOW THIS LINE NOT SHARED WITH EXAMINEE**

Task Number: SRO-0233

NUREG 1123 Reference: 2.4.41 2.3/4.1

Location: Admin

Prepared/Revised by: S Hutchison

Validation Time: 15

Time Critical: NO

Performance Method: Admin

Revision Date: 1/10/01

## STUDENT INFORMATION

Initial Conditions:      The plant is in Mode 3.

## INITIATING CUE

The plant is in Mode 3. The following conditions exist:

1. Reactor Pressure is 687 psig and down slow
2. Reactor Level is -62 inches and stable
3. Drywell temperature is 251°F and up slow
4. Drywell pressure is 8 psig and up slow
5. Drywell unidentified leakage on EDR-FRS-623 went offscale high for a short period of time and returned to 0.
6. Wind direction 300°
7. Wind speed 8 mph
8. Stability Classification E
9. No precipitation

Based on these conditions, determine the Emergency Classification, and complete a CNF form.

**ADMINISTRATIVE TOPICS SECTION A2**

COLUMBIA GENERATING STATION SRO

FEB. 22, 2001

Question No. SA.1-1	The plant is operating at 99% power. IN-4 has been lost due to equipment failure.  Which plant department is the most affected by a loss of IN-4?  <b>CLOSED REFERENCE</b>  ANSWER: Security
Response:	
SAT / UNSAT	
LO 5897	2.1.27 2.8/2.9   82-RSY-1200-T5

Question No. SA.1-2	The plant is shutdown in Mode 4. Maintenance is underway in the Primary Access Point. A laborer calls the control room and notifies you that an unknown/unbadged person has wondered into the Yakima Building (GSB) asking for directions to FFTF.  What are the required NRC notifications for this event?  <b>OPEN REFERENCE</b>  ANSWER: 1 Hour notification to the NRC.
Response:	
SAT / UNSAT	
LO 6011	2.1.13 2.1/2.9   PPM 1.10.1 rev 19, page 9

## ADMINISTRATIVE TOPICS SECTION A2

COLUMBIA GENERATING STATION SRO

FEB. 22, 2001

Question No. SA.1-2	The plant is shutdown in Mode 4. Maintenance is underway in the Primary Access Point. A laborer calls the control room and notifies you that an unknown/unbadged person has wondered into the Yakima Building (GSB) asking for directions to FFTF.
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What are the required NRC notifications for this event?

**OPEN REFERENCE**

**ADMINISTRATIVE TOPICS SECTION A2**

COLUMBIA GENERATING STATION SRO

FEB. 22, 2001

Question No. SA.1-1	The plant is operating at 99% power. IN-4 has been lost due to equipment failure.
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Which plant department is the most affected by a loss of IN-4?

**CLOSED REFERENCE**