

**INITIAL SUBMITTAL OF ADMINISTRATIVE JPMS**

**FOR THE BYRON INITIAL EXAMINATION - OCT/NOV 2001**

Facility: Byron

Date of Examination: \_\_\_\_\_

Examination Level (circle one): RO/ SROOperating Test Number: 2001

	Administrative Topic/Subject Description	Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions
A.1	Conduct of Operations/ Plant Parameter Verification	1. NEW JPM - K/A 2.1.19 - RO rating 3.0 Description - Perform PDMS Operability Weekly Surveillance
	Conduct of Operations/ Plant Notification of Fire	1. NEW JPM - K/A 2.1.14 - RO rating 2.5 Description - Respond to a Deluge Alarm
A.2	Equipment Control/ Surveillance Testing	1. NEW JPM - K/A 2.2.12 - RO rating 3.0 Description - Perform Valve Stroke Test of Containment Isol. Vlv.
A.3	Radiation Control/ Guard Against Personnel Exposure	1. NEW JPM - K/A 2.3.10 - RO rating 2.9 Description - Respond to Hi Radiation in Aux Building
A.4	Emergency Plan/ RO Knowledge and Responsibilities	Question #1 - K/A 2.4.39 - RO rating 3.3 Description - Actions for performing a Site Assembly
		Question #2 - K/A 2.4.29 - RO rating 2.6 Description - Assembly location and title for operators

## TASK CONDITIONS:

1. You are the Unit 1 NSO.
2. 1BOSR 3.h.1-1 Unit 1 PDMS Instrumentation Channel Checks surveillance is due.
3. Unit 1 is at 100% power steady state.

## INITIATING CUES:

The Unit Supervisor has directed you to perform step F.1 of 1BOSR 3.h.1-1 Unit 1 PDMS Instrumentation Channel Checks surveillance up to step F.2.

## JOB PERFORMANCE MEASURE

Rev. 0, 8/28/2001

**TASK TITLE:** Perform PDMS Operability Weekly Surveillance JPM No.: A.1.1 RO

TPO No: IV.C.CX-09-A

K&A No.: 2.1.19

K&A IMP: 3.0

TRAINEE: \_\_\_\_\_

DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_

The Trainee: PASSED \_\_\_\_\_ this JPM

TIME STARTED: \_\_\_\_\_

FAILED \_\_\_\_\_

TIME FINISHED: \_\_\_\_\_

EVALUATION METHOD: PERFORM \_\_\_\_\_ SIMULATE \_\_\_\_\_

LOCATION: IN PLANT \_\_\_\_\_

MATERIALS:

Copy of 1BOSR 3.h.1-1 Unit 1 PDMS Instrumentation Channel Checks

GENERAL REFERENCES:

1BOSR 3.h.1-1 Unit 1 PDMS Instrumentation Channel Checks

**TASK STANDARDS:**

Perform 1BOSR 3.h.1-1 Unit 1 PDMS Instrumentation Channel Checks surveillance.

**TASK CONDITIONS:**

1. You are the Unit 1 NSO.
2. 1BOSR 3.h.1-1 Unit 1 PDMS Instrumentation Channel Checks surveillance is due.
3. Unit 1 is at 100% power steady state.

**INITIATING CUES:**

The Unit Supervisor has directed you to perform step F.1 of 1BOSR 3.h.1-1 Unit 1 PDMS Instrumentation Channel Checks surveillance up to step F.2.

**CRITICAL ELEMENTS:** (\*) 3, 5, 7, 8

**APPROXIMATE COMPLETION TIME:** 20 minutes

**PERFORMANCE CHECKLIST****STANDARDS****SAT****UNSAT****N/A****NOTE**

Provide the student with a copy of 1BOSR 3.h.1-1 Unit 1 PDMS Instrumentation Channel Checks

**RECORD START TIME \_\_\_\_\_**

1. Review 1BOSR 3.h.1-1 Unit 1 PDMS Instrumentation Channel Checks.

- Ensure approval to perform surveillance from SRO.

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***Cue: The cover sheet has been approved by the Unit Supervisor.***

2. Review Prerequisites, Precautions, and Limitations and Actions.

- Review Prerequisites, Precautions, and Limitations and Actions and request information for inoperable equipment.

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***Cue: No Core Exit Thermocouples are inoperable.***

- \*3. From HMI group, "PDMS INSTRUMENTATION" record the values for listed computer points.

- Enter data onto Data Sheet D2 in column "Value F.1.a" from Process Computer.

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4. Circle any values with Poor or Bad quality.

- Identify on Data Sheet D2 any unreliable data points

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**PERFORMANCE CHECKLIST****STANDARDS****SAT****UNSAT****N/A**

\*5. Calculate the average of the grouped channels and record the average.

- Calculate the average of the grouped channels and record the average in column "Avg F.1.c."

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6. Circle any values with Poor or Bad quality.

- Identify on Data Sheet D2 any unreliable data points.

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\*7. Verify number of OPERABLE channels meet acceptance criteria.

- Initial in right hand column that points meet acceptance criteria.

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\*8. Verify the values for FQ, FNDH, and DNBR meet acceptance criteria.

- Initial in right hand column that points meet acceptance criteria.

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**RECORD STOP TIME**\_\_\_\_\_

**COMMENTS:**

## JOB PERFORMANCE MEASURE

JPM No.: A.1.2 RO

### TASK CONDITIONS:

1. You are the Unit 1 Assist NSO.
2. All conditions are normal.

### INITIATING CUES:

1. Annunciator 0-37-A4, UNIT 1 AREA FIRE, is LIT
2. "DO 1D-10" Fire alarm is flashing RED on 1PM09J and the audible alarm is sounding.
3. The Unit Supervisor directs you to respond to the alarm at 1PM09J.

## JOB PERFORMANCE MEASURE

Rev. 6, 9/3/2001

**TASK TITLE:** Respond to a Deluge Alarm

JPM No.: A.1.2 RO  
(N-09)

TPO No: IV.D.AM-1&2

K&A No.: 2.1.14

K&A IMP. 2.5

TRAINEE: \_\_\_\_\_

DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_

The Trainee: PASSED \_\_\_\_\_ this JPM

TIME STARTED: \_\_\_\_\_

FAILED \_\_\_\_\_

TIME FINISHED: \_\_\_\_\_

EVALUATION METHOD: PERFORM \_\_\_\_\_ SIMULATE \_\_\_\_\_

LOCATION: IN PLANT \_\_\_\_\_ SIMULATOR \_\_\_\_\_

MATERIALS:

None

### GENERAL REFERENCES:

1. BAP 1100-10, Response Procedure for Fire (Rev. 3)
2. BAR 0-37-A4, UNIT 1 AREA FIRE (Rev. 4)
3. BAR 1PM09J-C6, DO (1D-10) (Rev. 1)

### TASK STANDARDS:

Perform the actions required to respond to a fire detection/suppression system alarm.

### TASK CONDITIONS:

1. You are the Unit 1 Assist NSO.
2. All conditions are normal.

### INITIATING CUES:

1. Annunciator 0-37-A4, UNIT 1 AREA FIRE, is LIT.
2. "DO 1D-10" Fire alarm is flashing RED on 1PM09J and the audible alarm is sounding.
3. The Unit Supervisor directs you to respond to the alarm at 1PM09J.

CRITICAL ELEMENTS: (\*) 4, 8

APPROXIMATE COMPLETION TIME: 12 minutes



PERFORMANCE CHECKLISTSTANDARDSSAT UNSAT N/A

RECORD START TIME \_\_\_\_\_

NOTE

If this JPM is performed on the simulator, only the cues underlined are required to be provided to the trainee.

1. Refer to BAR 1PM09J-C6

- LOCATE and OPEN  
BAR 1PM09J-C6

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**Note:** Step 1 may be performed at  
any time.

2. Refer to BAR 0-37-A4

- LOCATE and OPEN  
BAR 0-37-A4

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**Note:** Step 2 may be performed at  
any time.

3. Determine location of possible fire

- DETERMINE from  
1PM09J alarm or BAR  
that Unit 1 diesel fuel oil  
tank rooms are in alarm  
condition

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\*4. Immediate operator actions

PERFORM immediate  
operator actions:

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**Cue:** Local operator at 1FP05J  
reports that diesel oil storage  
room 1B temperature high  
light is LIT and the door is  
HOT to TOUCH

- DISPATCH operator to  
1FP05J to verify room  
with high temperature

**Note:** Locating and opening BAP  
1100-10 may be performed at  
any time.

- LOCATE and OPEN  
BAP 1100-10

PERFORMANCE CHECKLIST

STANDARDS

SAT UNSAT N/A

5. Notify Unit Supervisor

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Cue: *The Unit Supervisor has been NOTIFIED*

- NOTIFY US of impending fire alarm

NOTE

Simulate paging, radio announcements, and sounding the fire alarm.

6. Announce using public address

- ANNOUNCE over public address system information about fire:

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" Attention all personnel, Attention all personnel, A fire has been detected in diesel oil storage tank room 1B. All Fire Brigade members please respond. I repeat a fire has been detected in diesel oil storage tank room 1B. All Fire Brigade members please respond."

7. Announce using plant radio

- ANNOUNCE over plant radio information about fire in diesel oil storage tank room 1B and call for fire brigade response

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## PERFORMANCE CHECKLIST

## STANDARDS

SAT   UNSAT   N/A

### **\*8. Sound plant fire alarm**

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**Cue:** *Fire alarm pushbutton has been **DEPRESSED** and **RELEASED***

- **DEPRESS** and **RELEASE** the Fire Alarm pushbutton at the Center Desk area

**Cue:** *Fire alarm is **SOUNDING***

**Cue:** *This JPM is completed*

**RECORD STOP TIME** \_\_\_\_\_

**COMMENTS:**

## **JOB PERFORMANCE MEASURE**

**JPM No.: A.2 RO**

### **TASK CONDITIONS:**

1. You are the Unit 1 Assist NSO.
2. 1BOSR 6.3.5-22.1, 1CS007A STROKE TEST surveillance is due.

### **INITIATING CUES:**

The Unit Supervisor has directed you to perform 1BOSR 6.3.5-22.1, 1CS007A STROKE TEST surveillance.

## JOB PERFORMANCE MEASURE

Rev. 0, 8/28/2001

**TASK TITLE:** Perform Valve Stroke Test of Containment  
Isolation Valve

JPM No.: A.2 RO

TPO No: PC-005

K&A No.: 2.2.12

K&A IMP: 3.0

TRAINEE: \_\_\_\_\_

DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_

The Trainee: PASSED \_\_\_\_\_ this JPM

TIME STARTED: \_\_\_\_\_

FAILED \_\_\_\_\_

TIME FINISHED: \_\_\_\_\_

EVALUATION METHOD: PERFORM \_\_\_\_\_ SIMULATE \_\_\_\_\_

LOCATION: IN PLANT \_\_\_\_\_

### MATERIALS:

1. QA qualified stop watch
2. 1BOSR 6.3.5-22.1, 1CS007A STROKE TEST

### GENERAL REFERENCES:

1BOSR 6.3.5-22.1, 1CS007A STROKE TEST

### TASK STANDARDS:

Perform 1BOSR 6.3.5-22.1, 1CS007A STROKE TEST surveillance.

### TASK CONDITIONS:

1. You are the Unit 1 Assist NSO.
2. 1BOSR 6.3.5-22.1, 1CS007A STROKE TEST surveillance is due.

### INITIATING CUES:

The Unit Supervisor has directed you to perform 1BOSR 6.3.5-22.1, 1CS007A STROKE TEST surveillance.

CRITICAL ELEMENTS: (\*) 6, 7, 8

APPROXIMATE COMPLETION TIME: 8 minutes

NOTE

Provide the student with a copy of 1BOSR 6.3.5-22.1, 1CS007A STROKE TEST

**RECORD START TIME** \_\_\_\_\_

1. Review 1BOSR 6.3.5-22.1, 1CS007A STROKE TEST.

- Review Prerequisites, Precautions, and Limitations and Actions

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**Cue:** *The surveillance cover sheet has been approved by the Unit Supervisor*

2. Record the stopwatch QA# and calibration date.

- Record the stopwatch QA# and calibration date from the stop watch cal sticker.

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3. Record the as found condition of the listed equipment.

- Circle the as found condition of the listed equipment:

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- 1CS001A – OPEN

- 1CS007A – CLOSED

- 1A CS pump – AT

- 1A CS pump Test switch - NORMAL

4. Ensure LCOAR 1BOL 6.6 entered

- Inform Unit NSO and Unit Supervisor to enter log book LCOAR for inoperable 1A CS train.

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**Cue:** *Unit NSO has entered a log book LCOAR for 1A CS train 1BOL 6.6 and notified Unit Supervisor*

<u>PERFORMANCE CHECKLIST</u>	<u>STANDARDS</u>	<u>SAT</u>	<u>UNSAT</u>	<u>N/A</u>
5. Perform actions to disable 1A CS train from auto actuation	<ul style="list-style-type: none"> <li>• At 1PM06J perform the following: <ul style="list-style-type: none"> <li>• Take C/S for 1A CS to PTL</li> <li>• Close 1A CS pump suction 1CS001A</li> <li>◦ Verify 1A CS pump Test Switch in Normal</li> </ul> </li> </ul>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*6. Open 1CS007A and record stroke time	<ul style="list-style-type: none"> <li>• Place the control switch for 1CS007A to open and simultaneously start the stop watch.</li> <li>• Stop the stop watch when 1CS007A indicates full open.</li> <li>• Record stroke time in step F.1.g (less than 6 seconds)</li> </ul>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*7. Close 1CS007A and record stroke time.	<ul style="list-style-type: none"> <li>• Place the control switch for 1CS007A to close and simultaneously start the stop watch.</li> <li>• Stop the stop watch when 1CS007A indicates full closed.</li> <li>• Record stroke time in step F.1.h (less than 6 seconds)</li> </ul>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

PERFORMANCE CHECKLIST

STANDARDS

SAT

UNSAT

N/A

\*8. Identify that the stroke time meets Tech Spec requirements but does not meet Administrative Limits.

**NOTE** This step may be performed at any time.

**Cue:** *The Unit Supervisory acknowledges entry requirements into 0BOL IST1 for 1CS007A.*

- Record stroke times on acceptance criteria sheet and identify that Administrative Limits NOT satisfied.
- Inform Unit supervisor that 1CS007A stroked too fast and entry into 0BOL IST1 is required.

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9. Restore system to "as found" condition.

- At 1PM06J perform the following:
  - Open 1A CS pump suction 1CS001A
  - Take C/S for 1A CS to AT
  - Inform Unit NSO and Unit Supervisor to exit log book LCOAR on 1A CS train

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**Cue:** *The Unit Supervisory and Unit NSO acknowledge exit of log book LCOAR for 1A CS train.*

**Cue:** *This JPM is completed*

**RECORD STOP TIME** \_\_\_\_\_

**COMMENTS:**



## **JOB PERFORMANCE MEASURE**

**JPM No.: A.3 RO**

### **TASK CONDITIONS:**

1. You are the Unit 1 Assist NSO.
2. Unit 1 is at 100% power steady state.
3. A leak has been reported in the Unit 1 pipe penetration area.

### **INITIATING CUES:**

1. An RM-11 alarm has just been received.
2. The Unit Supervisor has directed you to respond to the RM-11 alarm.

## JOB PERFORMANCE MEASURE

Rev. 0, 8/28/2001

**TASK TITLE:** Respond to high radiation in Aux Building

**JPM No.:** A.3 RO

**TPO No:** IV.C.AR-04

**K&A No.:** 2.3.10

**K&A IMP:** 2.9

**TRAINEE:** \_\_\_\_\_

**DATE:** \_\_\_\_/\_\_\_\_/\_\_\_\_

The Trainee: **PASSED** \_\_\_\_\_ this JPM

**TIME STARTED:** \_\_\_\_\_

**FAILED** \_\_\_\_\_

**TIME FINISHED:** \_\_\_\_\_

**EVALUATION METHOD:** **PERFORM** \_\_\_\_\_ **SIMULATE** \_\_\_\_\_

**LOCATION:** **IN PLANT** \_\_\_\_\_

**MATERIALS:**

BOP VA-5 Aux Building Charcoal Booster Fan Operation.

### GENERAL REFERENCES:

1. BAR RM11-4-1AR26J, PIPING PENETRATION AREA 383 ELEV.
2. BOP VA-5 Aux Building Charcoal Booster Fan Operation.

### TASK STANDARDS:

Respond to RM-11 area radiation alarm in Auxiliary Building.

### TASK CONDITIONS:

1. You are the Unit 1 Assist NSO.
2. Unit 1 is at 100% power steady state.
3. A leak has been reported in the Unit 1 pipe penetration area.

### INITIATING CUES:

1. An RM-11 alarm has just been received.
2. The Unit Supervisor has directed you to respond to the RM-11 alarm.

**CRITICAL ELEMENTS:** (\*) 2, 9

**APPROXIMATE COMPLETION TIME:** 10 minutes

**PERFORMANCE CHECKLIST****STANDARDS****SAT****UNSAT****N/A****NOTE**

If this JPM is performed on the simulator, only the underlined cue need to be provided to the trainee.

**RECORD START TIME \_\_\_\_\_****1. Acknowledge RM-11 alarm**

- Verify/select grid 4 ☐ ☐ ☐
- Depress  
ACKNOWLEDGE  
pushbutton if RM-11 still  
alarming.
- Identify 1AR26J area rad  
monitor Piping  
Penetration Elev. 383 in  
alarm.
- Select alarming channels  
to verify status not normal  
(NOT green).

**\*2. Review 1BAR RM11-4-1AR26J for  
operator actions.**

- Identify detectors for  
1AR26J are above Alert  
setpoint ☐ ☐ ☐
  - RM-11 indication on  
GRID 4 for 1AR26J  
channels indicates  
Yellow when  
selected
- OR
- Status/ trend  
indications for  
individual detectors  
indicates Yellow.

**PERFORMANCE CHECKLIST****STANDARDS****SAT****UNSAT****N/A**

3. Contact Rad Protection to perform BRP 5820-13, Response to High Radiation Monitor Alarms.

**Cue: Rad Protection has been notified to perform BRP 5820-13, Response to High Radiation Monitor Alarms for 1AR26J 383 elevation Pipe Penetration area.**

- Notify Rad Protection to perform BRP 5820-13, Response to High Radiation Monitor Alarms for 1AR26J Pipe penetration area 383 elevation.

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4. Consider placing the Aux Building Charcoal Booster Fans in operation per BOP VA-5.

**Cue: Unit Supervisor acknowledges plant status has directed you to place the 0B VA Charcoal Booster fan in plenum A in operation per BOP VA-5, Aux Building Charcoal Booster Fan Operation.**

- Inform Unit Supervisor of ALERT alarm status for 1AR26J and procedure direction to consideration for starting VA Booster fans.

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5. Obtain copy of BOP VA-5, Aux Building Charcoal Booster Fan Operation and start 0B fan per step F.1.

- Locate and review BOP VA-5, Aux Building Charcoal Booster Fan Operation.

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6. Check no fans running in plenum A.

- Verify 0A VA Charcoal Booster Fan NOT in operation

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7. Verify two plenums in service.

- Verify two of the three plenums inlet dampers OPEN:
  - 0VA084YA/B
  - 0VA085YA/B
  - 0VA086YA/B

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PERFORMANCE CHECKLIST

STANDARDS

SAT

UNSAT

N/A

8. Verify interlock met for start of 0B  
VA Charcoal Booster Fan

◦ Verify CLOSED damper  
0VA022YA/B.

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\*9. Start the 0B VA Charcoal Booster  
Fan in A plenum

◦ Verify Control Power  
available on MCB  
indicating fan is in  
REMOTE

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• Place C/S for 0VA03CB  
to AFTER CLOSE

• Verify Discharge Damper  
OPEN:

• 0VA023YA/B

• Verify Bypass Damper  
CLOSED:

• 0VA436YA/B

**Cue: This JPM is completed**

**RECORD STOP TIME\_\_\_\_\_**

**COMMENTS:**

**ADMINISTRATIVE TOPICS  
SECTION A.4 RO**

**JOB PERFORMANCE MEASURE**

**JPM No.: A.4 RO**

**TASK CONDITIONS:**

**NA**

**INITIATING CUES:**

**Hand the "Candidate question sheet" to the candidate.**

**ADMINISTRATIVE TOPICS  
SECTION A.4 RO  
CANDIDATE QUESTION SHEET**

**Question No: 1**

A General Emergency classification has been declared on Unit 1.  
The Shift Manager directs you to initiate an assembly of plant personnel.  
Security has been notified and they are standing by for the assembly.

What specific action(s) must you take to alert personnel that an assembly is required?

**Question No: 2**

Following a site assembly, what is the title and location where on-site personnel will be dispatched from in support of emergency operations?

ADMINISTRATIVE TOPICS

SECTION A.4 RO

Questions

REFERENCE USE: YES

Question No: 1

A General Emergency classification has been declared on Unit 1.  
The Shift Manager directs you to initiate an assembly of plant personnel.  
Security has been notified and they are standing by for the assembly.

What specific action(s) must you take to alert personnel that an assembly is required?

**Expected Answer:**

- Initiate the assembly siren by depressing the assembly siren pushbutton.

**Actual Answer:**

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Candidate's response matched expected answer.

Sat \_\_ Unsat \_\_.

K/A: 2.4.39 3.3

**Reference(s):**

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**ADMINISTRATIVE TOPICS  
SECTION A.4 RO**

**REFERENCE USE: YES**

**Question No: 2**

Following a site assembly, what is the title and location where on-site personnel will be dispatched from in support of emergency operations?

**Expected Answer:**

Operation Support Center (OSC) - TITLE.  
Service Building 4<sup>th</sup> floor (Meeting Room 1) - LOCATION.

**Actual Answer:**

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Candidate's response matched expected answer.

Sat \_\_ Unsat \_\_.

**K/A: 2.4.29 2.6**

**Reference(s): EP-AA-112**

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Facility: Byron  
 Examination Level (circle one): RO (SRO)

Date of Examination: \_\_\_\_\_  
 Operating Test Number: 2001

Administrative Topic/Subject Description		Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions
A.1	Conduct of Operations/ Operability Determination	1. NEW JPM - K/A 2.1.7 - SRO rating 4.4 Description - Review PDMS Operability Weekly Surveillance
	Conduct of Operations/ Apply Technical Specifications	1. NEW JPM - 2.1.12 - SRO rating 4.0 Description - Initiate a LCOAR
A.2	Equipment Control/ Surveillance Testing Requirements	1. NEW JPM - K/A 2.2.21 - SRO rating 3.5 Description - Determine Post Maintenance Testing Requirements
A.3	Radiation Control/ Control of Radiation Releases	1. Byron 2000 NRC - K/A 2.3.6 - SRO rating 3.1 Description - Review & Approve a Gas Release Package
A.4	Emergency Plan/ Emergency Classifications	1. NEW JPM - K/A 2.4.41 SRO - rating 4.1 Description - Classify Event and fill out NARS Form

## **JOB PERFORMANCE MEASURE**

**JPM No.: A.1.1 SRO**

### **TASK CONDITIONS:**

1. You are the Unit Supervisor.
2. 1BOSR 3.h.1-1 Unit 1 PDMS Instrumentation Channel Checks surveillance has just been completed by an NSO.

### **INITIATING CUES:**

Perform supervisory review of 1BOSR 3.h.1-1 Unit 1 PDMS Instrumentation Channel Checks surveillance.

## JOB PERFORMANCE MEASURE

Rev. 0, 8/28/2001

**TASK TITLE:** Review PDMS Operability Weekly Surveillance

**JPM No.:** A.1.1 SRO

**TPO No:** VIII.E.AM-123

**K&A No.:** 2.1.7

**K&A IMP:** 4.4

**TRAINEE:** \_\_\_\_\_

**DATE:** \_\_\_\_/\_\_\_\_/\_\_\_\_

The Trainee: **PASSED** \_\_\_\_\_ this JPM

**TIME STARTED:** \_\_\_\_\_

**FAILED** \_\_\_\_\_

**TIME FINISHED:** \_\_\_\_\_

**EVALUATION METHOD:** **PERFORM** \_\_\_\_\_ **SIMULATE** \_\_\_\_\_

**LOCATION:** **IN PLANT** \_\_\_\_\_

**MATERIALS:**

Copy of completed 1BOSR 3.h.1-1 Unit 1 PDMS Instrumentation Channel Checks

**GENERAL REFERENCES:**

1BOSR 3.h.1-1 Unit 1 PDMS Instrumentation Channel Checks

**TASK STANDARDS:**

Perform supervisory review of 1BOSR 3.h.1-1 Unit 1 PDMS Instrumentation Channel Checks surveillance.

**TASK CONDITIONS:**

1. You are the Unit Supervisor.
2. 1BOSR 3.h.1-1 Unit 1 PDMS Instrumentation Channel Checks surveillance has just been completed by an NSO.

**INITIATING CUES:**

Perform supervisory review of 1BOSR 3.h.1-1 Unit 1 PDMS Instrumentation Channel Checks surveillance.

**CRITICAL ELEMENTS:** (\*) 2

**APPROXIMATE COMPLETION TIME:** 15 minutes

# PERFORMANCE CHECKLIST

# STANDARDS

SAT

UNSAT

N/A

## NOTE

- Provide the candidate with a copy of completed 1BOSR 3.h.1-1 Unit 1 PDMS Instrumentation Channel Checks

## RECORD START TIME \_\_\_\_\_

1. Review 1BOSR 3.h.1-1 Unit 1 PDMS Instrumentation Channel Checks.

- Review surveillance complete and error free prior to signing cover sheet as complete.

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- \*2. Identify errors

- Identify from review that the following two errors are present on the surveillance

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- On Data Sheet D2 N0046 reading does NOT meet acceptance criteria and is NOT circled (number is transposed from 4.525 to 4.255)

- On Data Sheet D3 thermocouple 14 did NOT have reading entered and was NOT indicated as inoperable.

3. Refuse to sign for surveillance complete until errors have been resolved.

- Notify NSO of errors and direct correction/ reperformance of surveillance.

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**Cue: NSO acknowledges and will correct errors**

**Cue: This JPM is complete.**

PERFORMANCE CHECKLIST

STANDARDS

SAT

UNSAT

N/A

**RECORD STOP TIME**\_\_\_\_\_

**COMMENTS:**

## **JOB PERFORMANCE MEASURE**

**JPM No.: A.1.2 SRO**

### **TASK CONDITIONS:**

1. You are the Unit Supervisor.
2. The unit is at 90% steady state power, all conditions normal.

### **INITIATING CUES:**

1. Robert Nukem, System Engineering and Design supervisor, notifies you that the 1A SI pump has failed its surveillance (1BVSR 5.2.4-1) due to inadequate DP.
2. Initiate the LCOAR.

## JOB PERFORMANCE MEASURE

Rev. 3, 8/8/2001

**TASK TITLE:** Initiate a LCOAR. (SRO)

**JPM No.:** A.1.2 SRO

**TPO No.:** AM-295

**K&A No.:** 2.1.12

**K&A IMP.** 4.0

**TRAINEE:** \_\_\_\_\_

**DATE:** \_\_\_\_\_

The Trainee **PASSED** \_\_\_\_\_ this JPM

**TIME STARTED:** \_\_\_\_\_

**FAILED** \_\_\_\_\_

**TIME FINISHED:** \_\_\_\_\_

**EVALUATION METHOD:** **PERFORM** \_\_\_\_\_

**SIMULATE:** \_\_\_\_\_

**LOCATION:** **IN PLANT** \_\_\_\_\_

**SIMULATOR:** \_\_\_\_\_

### MATERIALS:

None

### GENERAL REFERENCES:

1. BAP 1400-6, Technical Specification Limiting Conditions for Operation Action Requirements (LCOAR) (Rev. 22)
2. 1BOL 5.2, LCOAR ECCS – Operating Tech Spec LCO #3.5.2 (Rev. 2)

### TASK STANDARDS:

Take the actions necessary to initiate a LCOAR and determine the action for a failure of the 1A SI pump to perform its intended function.

### TASK CONDITIONS:

1. You are the Unit Supervisor.
2. The unit is at 90% steady state power, all conditions normal.

### INITIATING CUES:

1. Robert Nukem, System Engineering and Design supervisor, notifies you that the 1A SI pump has failed its surveillance (1BVSR 5.2.4-1) due to inadequate DP.
2. Initiate the LCOAR.

**CRITICAL ELEMENTS:** (\*) 3, 4, 7, 8

**APPROXIMATE COMPLETION TIME:** 10 minutes



PERFORMANCE CHECKLISTSTANDARDSSATUNSATN/A

RECORD START TIME \_\_\_\_\_

1. Refer to BAP 1400-6, Technical Specification Limiting Conditions for Operation Action Requirements (LCOAR)

- LOCATE and OPEN BAP 1400-6

☐☐☐

**Note: Step 1 of this JPM is optional**

2. Refer to 1BOL 5.2, LCOAR ECCS – Operating Tech Spec LCO #3.5.2

- LOCATE and OPEN 1BOL 5.2

☐☐☐

- \*3. Section A of 1 BOL 5.2

ENTER into Section A:

☐☐☐

**Cue: Notification occurred 5 minutes ago**

- Time/Date
- By
- Title
- Present mode
- Initiating event

- \*4. Safety function determination

☐☐☐

**Cue: There are no other inoperable or degraded support or supported equipment on the B train**

- PERFORM SFD
- Indicate NO in Section C

5. Signed by Shift Manager

☐☐☐

**Cue: The shift manager has reviewed the LCOAR**

- NOTIFY SM

**Cue: Log entry made stating that this is an “unplanned entry”**

- ENTER “unplanned” in LOG

PERFORMANCE CHECKLIST

STANDARDS

SAT

UNSAT

N/A

6. PIFs work requests and OOS

☐☐☐

**Cue:** *A PIF is being written against the 1A SI pump by an extra NSO*

◦ WRITE PIF

\*7. Section B of 1 BOL 5.2

COMPLETE LCOAR Table  
page 5:

☐☐☐

- CIRCLE Condition A
- ENTER notification  
Time/Date AND sign
- DETERMINE ACTION:  
Restore to OPERABLE  
status within 7 days

NOTE

Once the trainee has identified the action, provide the following cue.

**Cue:** *It was determined that the 1A SI pump impeller has failed. Mechanical maintenance has replaced the impeller.*

\*8. Section E of 1BOL 5.2

- DETERMINE that 1BVSR  
5.2.4-1 is required and  
Notify System  
Engineering to perform

☐☐☐

**Cue:** *System Engineering and Design have completed 1BVSR 5.2.4-1 satisfactorily. The pump was inoperable for 136 hours.*

**Cue:** *Skip sections 1.b and 2.*

9. Requirements met

- ENTER Time/Date AND  
sign when met

☐☐☐

PERFORMANCE CHECKLIST

STANDARDS

SAT

UNSAT

N/A

10. Forward to SM

◦ FORWARD 1BOL 5.2 to  
SM for review

☐☐☐

***Cue: This JPM is completed***

**RECORD STOP TIME** \_\_\_\_\_

**COMMENTS:**

## **JOB PERFORMANCE MEASURE**

**JPM No.: A.2 SRO**

### **TASK CONDITIONS:**

1. You are the Unit Supervisor.
2. Maintenance has just completed work on 1RY8028 containment isolation valve.
3. The work performed on the valve while OOS was replacing the closed limit switch with an identical new limit switch.

### **INITIATING CUES:**

The Shift Manager has directed you to determine post maintenance testing requirement(s) and surveillance(s) to demonstrate LCO restoration in accordance with 1BOL 6.3 Section E.1.a.

## JOB PERFORMANCE MEASURE

Rev. 0, 8/28/2001

**TASK TITLE:** Determine post maintenance testing requirements

JPM No.: A.2 SRO

TPO No: VIII.E.AM-141

K&A No.:2.2.21

K&A IMP: 3.5

TRAINEE: \_\_\_\_\_

DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_

The Trainee: PASSED \_\_\_\_\_ this JPM

TIME STARTED: \_\_\_\_\_

FAILED \_\_\_\_\_

TIME FINISHED: \_\_\_\_\_

EVALUATION METHOD: PERFORM \_\_\_\_\_ SIMULATE \_\_\_\_\_

LOCATION: IN PLANT \_\_\_\_\_

MATERIALS:

Copy of 1BOL 6.3-1 for 1RY8028 ready for completion

### GENERAL REFERENCES:

1BOL 6.3-1 Containment isolation valve LCOAR  
BAP 1600-11 Work Request Post Maintenance Testing (PMT) guidance  
BAP 1600-11A1 Work Request Testing Requirements  
BAP 1600-11A2 Work Request Testing General Guidance

### TASK STANDARDS:

Determine post maintenance testing requirements for containment isolation valve using BAP 1600-11.

### TASK CONDITIONS:

1. You are the Unit Supervisor.
2. Maintenance has just completed work on 1RY8028 containment isolation valve.
3. The work performed on the valve while OOS was replacing the closed limit switch with an identical new limit switch.

### INITIATING CUES:

The Shift Manager has directed you to determine post maintenance testing requirement(s) and surveillance(s) to demonstrate LCO restoration in accordance with 1BOL 6.3 Section E.1.a.

CRITICAL ELEMENTS: (\*) 6

APPROXIMATE COMPLETION TIME: 17 minutes

PERFORMANCE CHECKLIST

STANDARDS

SAT

UNSAT

N/A

NOTE

Provide the student with a copy of LCOAR 1BOL 6.3 filled out up to Section E.

RECORD START TIME \_\_\_\_\_

- |   |  |                          |                          |                          |
|---|--|--------------------------|--------------------------|--------------------------|
| 1. Review LCOAR 1BOL 6.3 to determine reason for LCOAR entry. | ° Review LCOAR package for completion. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|---|--|--------------------------|--------------------------|--------------------------|

- |  |                               |                          |                          |                          |
|--|-------------------------------|--------------------------|--------------------------|--------------------------|
| 2. Refer to BAP 1600-11, Work Request Post Maintenance Testing (PMT) Guidance. | ° LOCATE and OPEN BAP 1600-11 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|--|-------------------------------|--------------------------|--------------------------|--------------------------|

**Note: Step 2 may be performed at any time.**

- |  |   |                          |                          |                          |
|--|---|--------------------------|--------------------------|--------------------------|
| 3. Refer to BAP 1600-11A1 Work Request Testing Requirements page 19 for 1RY8028 testing requirements | ° Locate component testing requirements for 1RY8028 on page 19 of BAP 1600-11A1 Work Request Testing Requirements | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|--|---|--------------------------|--------------------------|--------------------------|

***If asked about work package information.***

***Cue: The only work performed on 1RY 8028 was replacement of the closed limit after the original limit switch was determined to be non-functional.***

PERFORMANCE CHECKLIST

STANDARDS

SAT

UNSAT

N/A

4. Identify testing requirements for 1RY8028, using BAP 1600-11A1.

• Identify the following tests listed for 1RY8028.

☐☐☐

• STT (Stroke Time Test)

• PIT (Position Indication Test)

◦ LLRT (Local Leak Rate Test)

◦ FT (Fail Test)

NOTE

FT (Fail Test) is NOT required and would be satisfied by the STT per step 14, and LLRT is NOT required because scope of the work did not affect LLRT concerns. The FT and LLRT can identified as required but the LLRT coordinator has the ability to determine the surveillance is not needed.

5. Refer to BAP 1600-11A2, Work Request Testing General Guidance.

◦ Determine from steps 12, 14, 15, and 16 that the following tests must be performed:

☐☐☐

◦ STT (Stroke Time Testing)

◦ PIT (Position Indication Test)

PERFORMANCE CHECKLIST

STANDARDS

SAT

UNSAT

N/A

\*6. Indicate in Section E.1,  
Restoration, page 12 of 1BOL 6.3-  
1 the required testing before valve  
can be declared OPERABLE

- Indicate which test must  
be performed and the  
associated surveillances  
for performing these  
tests:

☐☐☐

- STT (Stroke Time  
Testing), 1BOSR  
6.3.5-10
- PIT (Position  
Indication Test),  
1BOSR 0.5-2.RY.3

**RECORD STOP TIME**\_\_\_\_\_

**COMMENTS:**



## Job Performance Measure (JPM)

TASK TITLE:      Review and Approve Gas Release      JPM.:A.3 SRO

The "as submitted" version of this JPM was modified by the licensee to address comments made by the NRC Chief Examiner. During the licensee's revision process, the copy of the JPM originally submitted to the NRC was given back to the licensee because the licensee exam lead had inadvertently deleted portions of the JPM file from the secure computer. Once the exam lead had modified the JPM, he discarded original version. As a result, no "as submitted" version of this JPM exists.

In general, the "as submitted" version of the JPM was similar to the "as given" version. The major differences were the number and types of planned errors that the gaseous release package contained.

## JOB PERFORMANCE MEASURE

JPM No.: A.4 SRO

### TASK CONDITIONS:

1. You are the Emergency Director.
2. The Unit 1 Supervisor has provided you with information related to a Unit 1 event and informed you to perform an Emergency Plan evaluation.

### INITIATING CUES:

Perform an Emergency Plan evaluation and fill out the NARS form as required for the plant conditions provided (**This is a time critical jpm**).

### PLANT CONDITIONS:

- Unit 1 and 2 were both at full power.
- Unit 1 manual Reactor Trip and Safety Injection were performed based on the following conditions:
  - Unexpected increase in 1A SG narrow range level
  - Decreasing PZR level and pressure
  - SJAE radiation monitor in HIGH alarm
  - 1A Main Steamline radiation monitors in HIGH alarm
- The wind is from 173 degrees at 15 mph

## JOB PERFORMANCE MEASURE

Rev. 0, 8/28/2001

TASK TITLE: Classify Event and fill out NARS Form

JPM No.: A.4 SRO

TPO No: VIII.F.ZP-008

K&A No.: 2.4.41

K&A IMP: 3.1

TRAINEE: \_\_\_\_\_

DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_

The Trainee: PASSED \_\_\_\_\_ this JPM

TIME STARTED: \_\_\_\_\_

FAILED \_\_\_\_\_

TIME FINISHED: \_\_\_\_\_

EVALUATION METHOD: PERFORM \_\_\_\_\_ SIMULATE \_\_\_\_\_

LOCATION: IN PLANT \_\_\_\_\_

MATERIALS:

Attached event conditions description sheet

GENERAL REFERENCES:

1. EP-AA-114, Notifications
2. BZP 200-A1, Byron Station Emergency Action Levels

TASK STANDARDS:

Perform an Emergency plan evaluation for highest accident classification and associated EAL and fill out NARS form.

TASK CONDITIONS:

1. You are the Emergency Director.
2. The Unit 1 Supervisor has provided you with information related to a Unit 1 event and informed you to perform an Emergency Plan evaluation.

INITIATING CUES:

Perform an Emergency Plan evaluation and fill out the NARS form for transmittal for the plant conditions provided (**This is a time critical jpm**).

CRITICAL ELEMENTS: (\*) 2, 4

CRITICAL ELEMENTS COMPLETION TIME: 15 minutes

APPROXIMATE TOTAL COMPLETION TIME: 20 minutes

**PERFORMANCE CHECKLIST****STANDARDS****SAT****UNSAT****N/A****PLANT CONDITIONS:**

- Unit 1 and 2 were both at full power.
- Unit 1 manual Reactor Trip and Safety Injection were performed based on the following conditions:
  - Unexpected increase in 1A SG narrow range level
  - Decreasing PZR level and pressure
  - SJAE radiation monitor in HIGH alarm
  - 1A Main Steamline radiation monitors in HIGH alarm
- The wind is from 173 degrees at 15 mph

**RECORD START TIME** \_\_\_\_\_**NOTE**

The completion of Step 1 fulfills the critical time portion of this JPM.

1. Refer to BZP 200-A1, Byron Station Emergency Action Levels.

- Locate and Open, BZP 200-A1, Byron Station Emergency Action Levels.

☐☐☐

\*2. Classify the Event utilizing BZP 200-A1.

- Classify event as ALERT, from FA1 Loss OR Potential Loss of either Fuel Clad or RCS.

☐☐☐**Critical portion stop time** \_\_\_\_\_

3. Obtain NARS form page 13 and 14 of EP-AA-114, NOTIFICATIONS.

- Obtain NARS form.

☐☐☐

## PERFORMANCE CHECKLIST

3. Refer to EP-AA-114, NOTIFICATIONS, to complete NARS form.

- \*4. Fill out NARS form according to instructions, EP-AA-114, NOTIFICATIONS, Attachment 1 pages 7 thru 12.

## STANDARDS

- Locate and Open, EP-AA-114, NOTIFICATIONS, to fill out NARS form.

- Fill out NARS form according to instructions, EP-AA-114, NOTIFICATIONS, Attachment 1 pages 7 thru 12.
- BLOCKS 1 thru 9 must be filled correctly to meet the critical portion of filling out the NARS form. (See attached KEY).

SAT   UNSAT   N/A

☐   ☐   ☐

☐   ☐   ☐

**RECORD STOP TIME** \_\_\_\_\_

**COMMENTS:**

JPM A4 SRO

KEY

EP-AA-114

Revision 0

Page 13 of 27

Reference Use

## ATTACHMENT 1

## TABLE 1

Page 1 of 2

(UTILITY FORM)

UTILITY MESSAGE NO. 1

STATE OF ILLINOIS

STATE MESSAGE NO. N/A

## NUCLEAR ACCIDENT REPORTING SYSTEM FORM

January, 2001

**PERFORM INITIAL ROLL CALL ON  
BACK OF NARS FORM:****INITIAL ROLL CALL COMPLETED**

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

DATE: \_\_\_\_\_

## 1. STATUS

- [A] ACTUAL  
[B] EXERCISE  
☒ [C] DRILL  
[D] TERMINATION

## 2. STATION

- [A] DRESDEN  
[B] LASALLE  
[C] QUAD CITIES  
[D] ZION

- ☒ [E] BYRON  
[F] BRAIDWOOD  
[G] CLINTON

## 3. ON-SITE ACCIDENT CLASSIFICATION

- [A] UNUSUAL EVENT [D] GENERAL EMERGENCY  
☒ [B] ALERT [E] RECOVERY  
[C] SITE AREA EMERGENCY [F] NOT APPLICABLE

## 4. ACCIDENT CLASSIFIED

TIME: CURRENT  
DATE: CURRENT  
EAL#: FAI

## ACCIDENT TERMINATED

TIME: N/A  
DATE: N/A

## 5. RELEASE TO ENVIRONMENT

- ☒ [A] NONE  
[B] POTENTIAL (FS1 or FG1)  
[C] OCCURRING  
[D] TERMINATED

## 6. TYPE OF RELEASE

- ☒ [A] NOT APPLICABLE  
[B] RADIOACTIVE GAS  
[C] RADIOACTIVE LIQUID

## 7. WIND DIRECTION:

FROM 180  
(DEGREES)  
DOWNWIND SECTOR: A

## 8. WIND SPEED

[A] METERS/SEC.: \_\_\_\_\_  
[B] MILES/HR.: 15

## 9. RECOMMENDED ACTIONS

- ☒ [A] NONE  
[B] PREPARE (STATE USE ONLY)  
[C] INITIATE PUBLIC NOTIFICATION PROCEDURES. INSTRUCT THE PUBLIC TO TAKE THE FOLLOWING ACTIONS:

SHELTER	EVACUATE	UTILITY ONLY
[D]	[H]	0 - 2 MILE RADIUS
[E]	[I]	0 - MILE RADIUS
[F]	[J]	2 - 5 MILES FOR SECTORS _____
[G]	[K]	5 - 10 MILES FOR SECTORS _____
-----		
[L] SHELTER	SUB-AREAS: _____	(STATE USE ONLY)
[M] EVACUATE	SUB-AREAS: _____	(STATE USE ONLY)

[N] RECOMMEND POTASSIUM IODIDE (KI) IN ACCORDANCE WITH PROCEDURES (STATE USE ONLY)

[O] CONFINE MILK-PRODUCING ANIMALS ON STORED FEED AND PROTECTED WATER OUT TO \_\_\_\_\_ MILE RADIUS (STATE USE ONLY)

[P] COMMENCE RETURN OF PUBLIC (STATE USE ONLY)

[Q] OTHER \_\_\_\_\_

## 10. ADDITIONAL INFORMATION

NONE

## 11. MESSAGE TRANSMITTED BY:

(NAME) \_\_\_\_\_

(ORGANIZATION) \_\_\_\_\_

(OUTSIDE PHONE NUMBER) \_\_\_\_\_

## 12. MESSAGE TRANSMITTED:

CURRENT TIME: \_\_\_\_\_

CURRENT DATE: \_\_\_\_\_

## 13. MESSAGE RECEIVED BY:

(NAME) \_\_\_\_\_

☐ IEMA ☐ EXELON14. PERFORM FINAL  
ROLL CALL ON  
BACK OF FORM.

## OUTSIDE PHONE NUMBERS

IEMA 217-782-7860  
IDNS 217-785-0600  
IOWA EMD 515-281-3231 (Quad Only)

## UTILITY USE ONLY

APPROVED BY: Examinee Name CURRENT  
EMERGENCY DIRECTOR (NAME) (TIME)