

## JOB PERFORMANCE MEASURE

### TASK CONDITIONS:

1. You are the Unit 1 Assist NSO.
2. The unit is at 95.0% power.
3. Control Bank D is at 220 steps.
4. Boron concentration is 700 ppm per sample 30 minutes ago.
5. Tave is 580°F.
6. Reactor average burn-up is 6500 EFPD, MOL.  
(RRD, 1BGP 100-7T1 is provided)
7. Bounding core average temperature is 557°F to 585°F.
8. Bounding time is time of trip.

### INITIATING CUES:

1. It has been determined that control rod K-4 is inoperable and is untrippable as the result of excessive friction.
2. The Unit Supervisor instructs you to perform 1BOSR 1.1.1-1, Shutdown Margin Surveillance and determine if Shutdown Margin is met at time of trip.

## JOB PERFORMANCE MEASURE

Rev. 6,3/24/2006

TASK TITLE: Perform Shutdown Margin Calculations

JPM No.: Admin 1.a

TPO No: IV.C.QG-03

K&A No.: 2.1.25

K&A IMP. 2.8/3.1

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

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

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

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

FAILED \_\_\_\_\_

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

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

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

MATERIALS:

Copy of 1BOSR 1.1.1-1

GENERAL REFERENCES:

1. 1BOSR 1.1.1-1, Shutdown Margin Surveillance (Rev. 10)
2. 1BGP 100-7TI, Reference Reactivity Data Worksheet (Rev.7)
3. BCB-1, Byron Unit 1 Cycle 14 Curve Book, Fig 8B, Tbl 1-1, Tbl 1-2, Tbl 1-4, Tbl 1-5, Tbl 1-6
4. Unit 1 Core Operating Limits Report (Rev 2)

TASK STANDARDS:

Perform the actions necessary to complete a shutdown margin surveillance while at power

TASK CONDITIONS:

1. You are the Unit 1 Assist NSO.
2. The unit is at 95.0% power.
3. Control Bank D is at 220 steps.
4. Boron concentration is 700 ppm per sample 30 minutes ago.
5. Tave is 580°F.
6. Reactor average burn-up is 6500 EFPH, MOL. (RRD, 1BGP 100-7T1 is provided)
7. Bounding core average temperature is 557°F to 585°F.
8. Bounding time is time of trip.

INITIATING CUES:

1. It has been determined that control rod K-4 is inoperable and is untrippable as the result of excessive friction.
2. The Unit Supervisor instructs you to perform 1BOSR 1.1.1-1, Shutdown Margin Surveillance and determine if Shutdown Margin is met at time of trip.

CRITICAL ELEMENTS: (\*) 5, 6, 9, 10 & 11

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

**Note:**

JPM task conditions and initiating cues provide the values for core average burnup (6500), RCS Tave (580), RCS boron concentration (700), and total inoperable control rods (1).

- |   |  |   |   |   |
|---|--|---|---|---|
| 1. Refer to 1BOSR 1.1.1-1, Shutdown Margin Surveillance | <ul style="list-style-type: none"> <li>◦ OPEN 1BOSR 1.1.1-1</li> <li>◦ Go to step F.4</li> </ul> | 0 | 0 | 0 |
|---|--|---|---|---|

- |                       |  |   |   |   |
|-----------------------|--|---|---|---|
| 2. Present conditions | <p>RECORD:</p> <ul style="list-style-type: none"> <li>◦ Time and date</li> <li>◦ Core average burnup</li> <li>◦ RCS average temperature</li> <li>◦ RCS boron concentration</li> <li>◦ Total inoperable control rods</li> <li>◦ Required SDM from COLR</li> </ul> | 0 | 0 | 0 |
|-----------------------|--|---|---|---|
- Note: The procedure expects 557 °F for Tave when in Mode 1 or 2**
- Note: Required SDM from COLR is 1.3% DK/K = 1300 pcm**

- |                         |  |   |   |   |
|-------------------------|--|---|---|---|
| 3. Bounding assumptions | <ul style="list-style-type: none"> <li>◦ DETERMINE and RECORD bounding core average temperature</li> <li>◦ RECORD most limiting core average temperature</li> <li>◦ DETERMINE and RECORD bounding time and date</li> </ul> | 0 | 0 | 0 |
|-------------------------|--|---|---|---|
- Note: 557 °F is the most limiting core average temperature**

PERFORMANCE CHECKLIST

STANDARDS

SAT

UNSAT

N/A

4. Minimum Required Boron Concentration

- DETERMINE and RECORD Minimum Required Boron Concentration from BCB-1 Table 1-1
- Go to step F.7

0

0

0

\*5. Reactivity Worth of Boron

Record:

0

0

0

- Integral Boron Worth from 1BCB-Table 1-5 at limiting core avg temperature and current boron concentration
- Integral Boron Worth from 1BCB-Table 1-5 at limiting core avg temperature and minimum required boron concentration
- Calculate Boron Reactivity Worth.

**Note:**

For the purposes of this JPM, a Qualified Nuclear Engineer is not to be contacted as specified by \_BOS 1.1.1.1.e-2

\*6. Reactivity Worth of Untriappable Rods

Record:

0

0

0

- Number of inoperable control rods (1)
- Predicted Most-reactive rod worth from 1BCB-Table 1-6
- Calculate Reactivity Worth of Untriappable Rods

PERFORMANCE CHECKLIST

STANDARDS

SAT

UNSAT

N/A

7.	Reactivity Change due to Xenon	• Determine Xenon Worth using RRD and BCB-1 Figure 8C or Table 1-2	0	0	0
8.	Reactivity Worth of Samarium	• Determine Samarium Worth using RRD and BCB-1 Table 1-4	0	0	0
*9.	Correction for Boron effects on Xenon and Samarium	• Determine Fission Product Worth	0	0	0
*10.	Determine available shutdown margin.	• Calculate available shutdown margin.	0	0	0
*11.	Determine acceptance criteria	• Determines acceptance criteria for Shutdown Margin is not met and calculated is less negative than -1300 pcm.	0	0	0

**Note: Examinee's calculated Shutdown Margin using BCB should be compared to Examiner's attached answer key**

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

COMMENTS:

## JOB PERFORMANCE MEASURE

### TASK CONDITIONS:

1. You are the Unit Supervisor.
2. Unit 1 is in Mode 5 and Unit 2 is in Mode 1 at 100% power.
3. The following qualified people are inside the Protected Area as members of the oncoming shift operating crew:

Joe: Shift Manager

Sam: NSO

Bill: US

Sally: NLO

Tom: US

Ron: NLO

Andy: US

Al: NLO

Arnie: WEC/ STA

Mary: NLO

Dave: NSO

Bob: RP

### INITIATING CUES:

Determine if each individual crew position meets the minimum Tech Spec staffing requirements for shift relief per BAP 320-1.

**JOB PERFORMANCE MEASURE**

Rev 0, 03/22/06

TASK TITLE: Minimum Shift Staffing

JPM No.: Admin 1.b

TKO No: 7E.AM-057-A

K&A No.: 2.1.5

K&A IMP 3.4

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

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

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

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

FAILED \_\_\_\_\_

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

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

SIMULATE \_\_\_\_\_

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

SIMULATOR \_\_\_\_\_

**MATERIALS:**

- 1. BAP 320-1 (Rev 16) Shift Staffing
- 2. Tech Specs Admin

**GENERAL REFERENCES:**

BAP 320-1 (Rev 16) Shift Staffing

**TASK STANDARDS:**

Determine if each individual crew position meets the minimum Tech Spec staffing requirements for shift relief.

**TASK CONDITIONS:**

- 1. You are the Shift Manager.
- 2. Unit 1 is in Mode 5 and Unit 2 is in Mode 1 at 100% power.
- 3. The following qualified people are inside the Protected Area as members of the oncoming shift operating crew:

Joe: Shift Manager

Sam: NSO

Bill: US

Sally: NLO

Tom: US

Ron: NLO

Andy: US

Al: NLO

Arnie: WEC/ STA

Mary: NLO

Dave: NSO

Bob: RP

**INITIATING CUES:**

Determine if each individual crew position meets the minimum Tech Spec manning requirements for shift relief per BAP 320-1.

**CRITICAL ELEMENTS: (\*)**

4 & 8

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

**NOTE**

**Provide the examinee with a copy of BAP 320-1 (Rev 16) Shift Staffing.**

1.	Refer to BAP 320-1.	Locate and Open BAP 320-1.	o	o	o
2.	Review Tech Spec requirement for Shift Manager staffing.	Determines that the minimum Tech Spec staffing for Shift Manager <b>is</b> satisfied.	o	o	o
3.	Review Tech Spec requirement for Unit Supervisor staffing.	Determines that the minimum Tech Spec staffing for Unit Supervisor <b>is</b> satisfied.	o	o	o
*4.	Review Tech Spec requirement for NSO staffing.	Determines that the minimum Tech Spec staffing for NSO <b>is NOT</b> satisfied.	o	o	o
5.	Review Tech Spec requirement for STA staffing.	Determines that the minimum Tech Spec staffing for STA <b>is</b> satisfied.	o	o	o
6.	Review Tech Spec requirement for NLO staffing.	Determines that the minimum Tech Spec staffing for NLO <b>is</b> satisfied.	o	o	o



PERFORMANCE CHECKLIST

STANDARDS

SAT

UNSAT

N/A

7. Review Tech Spec requirement for RP staffing.

Determines that the minimum Tech Spec staffing for RP is satisfied.

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\*8. Determines that oncoming crew does not meet Tech Spec requirement.

Takes immediate action to ensure NSO staffing meet the Tech Spec requirements by notifying OPS Scheduler to **call out** a qualified NSO and that a NSO must stay over until his relief arrives

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**Cue: If examinee informs SM without any corrective actions, ask for corrective actions.**

**Cue: THIS COMPLETES THIS JPM.**

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

COMMENTS:

## JOB PERFORMANCE MEASURE

### TASK CONDITIONS:

1. The Unit 1 Containment Spray Pump 1A Seal Package is leaking.
2. A Clearance must be prepared to allow repairs to the pump.
3. The Passport System is down

### INITIATING CUES:

The Shift Manager directs you to identify the **Minimum Required** clearance boundaries and generate a clearance using OP-MW-109-101 Att. 14 to allow repair of the Unit 1 Containment Spray Pump 1A Seal Package. Inform the Shift Manager when complete.

## JOB PERFORMANCE MEASURE

Rev 0, 03/22/06

TASK TITLE: Establish Clearance Boundary for CS Pump

JPM No.: Admin 2

TPO No: 4E.AM-06

K&A No.: 2.2.13

K&A IMP 3.6/3.8

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

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

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

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

FAILED \_\_\_\_\_

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

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

SIMULATE \_\_\_\_\_

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

SIMULATOR \_\_\_\_\_

### **MATERIALS:**

OP-MW-109-101, Clearance and Tagging (rev 5)

### **GENERAL REFERENCES:**

Containment Spray, P&ID M-46

1A Containment Spray Pump, Electrical Drawing 6E-1-4030 CS01

### **TASK STANDARDS:**

Identify the required clearance boundaries to isolate Unit 1 Containment Spray Pump 1A.

### **TASK CONDITIONS:**

1. The Unit 1 Containment Spray Pump 1A Seal Package is leaking.
2. A Clearance must be prepared to allow repairs to the pump.
3. The Passport System is down

### **INITIATING CUES:**

The Shift Manager directs you to identify the **Minimum Required** clearance boundaries and generate a clearance using OP-MW-109-101 Att. 14 to allow repair of the Unit 1 Containment Spray Pump 1A Seal Package. Inform the Shift Manager when complete.

### **CRITICAL ELEMENTS: (\*)**

1, 2 & 3

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

**NOTE**

**Provide the examinee with a copy of OP-MW-109-101.**

*1.	Obtain Drawings:  Containment Spray M-46, Sh 1A  Containment Spray Pump 1A 6E-1-4030 CS01	Obtains Drawings:  Containment Spray M-46, Sh 1A  Containment Spray Pump 1A 6E-1-4030 CS01	o	o	o
*2.	Determine the electrical clearance boundaries to be used to isolate the Pump.	Determines the clearance boundaries to be:  o 1A CS Pump MCB C/S (1HS-CS001) <b>PTL and info tag</b>  ● 1AP05E-J, 1A CS Pump Breaker <b>R/O</b>  ● 1AP05E-J-FU-15, 1A CS Pump Control Power Fuses <b>Off</b>	o	o	o

PERFORMANCE CHECKLIST

STANDARDS

SAT

UNSAT

N/A

\*3. Determine the mechanical clearance boundaries to be used to isolate the Pump.

Determines the clearance boundaries to be:

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o

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- 1A CS Pump Discharge Valve 1CS004A  
**CLOSED**
- 1A CS Pump Suction Valve 1CS002A  
**CLOSED**
- 1A CS Pump Vent Valve 1CS049A  
**Info Tag**
- 1A CS Pump Drain Valve 1CS016A  
**Info Tag**

4. Inform the Shift Manager of task completion.

Informs the Shift Manager that the clearance boundaries have been identified.

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**Cue: THIS COMPLETES THIS JPM.**

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

**COMMENTS:**

## JOB PERFORMANCE MEASURE

### TASK CONDITIONS:

1. Your crew has been assigned to perform a valve alignment verification in the 2A RHR Hx Room.
2. Radiation Protection has provided a recent Radiological Survey Map for the area.

### INITIATING CUES:

Using the Radiological Survey Map provided, determine the following:

- Highest On Contact dose rate
- Highest Dose Rate at 30 cm
- Highest General Area radiation level
- Highest Contaminated Area in DPM/100cm<sup>2</sup>
- Low Dose Waiting Area

**JOB PERFORMANCE MEASURE**

Rev 0, 03/22/06

TASK TITLE: Determine Dose Rates and Contaminated Areas

JPM No.: Admin 3

TPO No: 4E.AM-04

K&A No.: 2.3.10

K&A IMP 2.9/3.3

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

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

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

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

FAILED \_\_\_\_\_

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

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

SIMULATE \_\_\_\_\_

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

SIMULATOR \_\_\_\_\_

**MATERIALS:**

1. AB-357 2A RHR HX Room Survey Map

**GENERAL REFERENCES:**

- AB-357 2A RHR HX Room Survey Map

**TASK STANDARDS:**

Determine Dose Rates and Contaminated Areas using survey map

**TASK CONDITIONS:**

1. Your crew has been assigned to perform a valve alignment verification in the 2A RHR Hx Room.
2. Radiation Protection has provided a recent Radiological Survey Map for the area.

**INITIATING CUES:**

Using the Radiological Survey Map provided, determine the following:

- Highest On Contact dose rate
- Highest Dose Rate at 30 cm
- Highest General Area radiation level
- Highest Contaminated Area in DPM/100cm<sup>2</sup>
- Low Dose Waiting Area

**CRITICAL ELEMENTS: (\*)**

- 2, 3, 4, 5& 6

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

**NOTE**

**Provide the examinee with a copy of AB-357 2A RHR HX Room Survey Map, when requested.**

1.	Refer to AB-357 2A RHR HX Room Survey Map.	Refers to AB-357 2A RHR HX Room Survey Map	o	o	o
*2.	Determine the highest 'On Contact' dose rate in mrem/hr.	Determines the highest 'On Contact' dose rate to be <b>36 mrem/hr.</b>	o	o	o
*3.	Determine the highest 'Dose Rate at 30 cm' in mrem/hr.	Determines the highest 'Dose Rate at 30 cm' to be <b>18 mrem/hr.</b>	o	o	o
*4.	Determine the highest 'General Area' radiation level in mrem/hr.	Determines the highest 'General Area' radiation level to be <b>10 mrem/hr.</b>	o	o	o
*5.	Determine the highest 'Contaminated Area' in DPM/100cm <sup>2</sup> .	Determines the highest 'Contaminated Area' to be <b>&lt;1K DPM/100cm<sup>2</sup>.</b>	o	o	o
*6.	Determine Low Dose Waiting Area	Determines Low Dose Waiting Area is marked by <b>C with a square around it.</b>	o	o	o

**Cue: THIS COMPLETES THIS JPM.**

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

**COMMENTS:**



## **JOB PERFORMANCE MEASURE**

### **TASK CONDITIONS:**

1. You are the Unit 2 Assist NSO.
2. 1BEP-3 is in progress.
3. Unit 2 Unit Supervisor is performing Status Tree monitoring.
4. The Emergency Director (SM) has classified an ALERT.

### **INITIATING CUES:**

1. A NARS form has been filled out and approved. The Emergency Director has directed you to transmit the initial NARS Form per EP-MW-114-100 MWROG OFFSITE NOTIFICATIONS.
2. This is a time critical JPM for NARS notification

## JOB PERFORMANCE MEASURE

Rev 1, 03/24/2006

TASK TITLE: Perform Offsite Notification (NARS form transmittal)  
for Alert classification

JPM No.: Admin 4RO

TPO No: IV.F.ZP-14

K&A No.: 2.4.43

K&A IMP. 2.8/3.5

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

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

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

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

FAILED \_\_\_\_\_

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

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

SIMULATE \_\_\_\_\_

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

SIMULATOR \_\_\_\_\_

### MATERIALS:

1. EP-MW-114-100, MWROG OFFSITE NOTIFICATIONS (rev. 5)
2. Completed and approved NARS Form ready for transmittal

### GENERAL REFERENCES:

- EP-MW-114-100, MWROG OFFSITE NOTIFICATIONS (rev. 5)
- EP-MW-114-100-F-01, NARS Form (rev. B)

### TASK STANDARDS:

Transmit the completed NARS form within 15 minutes of the initiating cue using the NARS notification system

### TASK CONDITIONS:

1. You are the Unit 2 Assist NSO.
2. 1BEP-3 is in progress.
3. Unit 2 Unit Supervisor is performing Status Tree monitoring.
4. The Emergency Director (SM) has classified an ALERT.

### INITIATING CUES:

A NARS form has been filled out and approved. The Emergency Director has directed you to transmit the initial NARS form per EP-MW-114-100 MWROG OFFSITE NOTIFICATIONS.

This is a time critical JPM for NARS notification

### CRITICAL ELEMENTS: (\*)

2, 3, 4, 5 and 6

CRITICAL TIME PORTION: 15 \* minutes

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

**NOTE**

**EXAMINER NOTE:** Record a clock time value on NARS form in block 4 “Accident Classified” of approximately 2 minutes prior to handing form to candidate and today’s date.

**Provide the examinee a copy of an Emergency Director approved NARS form ready for transmittal (Candidate Copy).**

**AND**

**Provide the examinee a copy of EP-MW-114-100 rev. 2.**

- 1. Initiate the NARS transmittal.
  - Refer to EP-MW-114-100 step 4.2 and EP-MW-114-100-F-01, NARS Form
  - Determine that CODE 20 must be used on the NARS phone.

**NOTE**

**Have the examinee simulate/describe the use of the NARS phone unless the JPM is performed on the Simulator, then actual usage is optional.**

**NOTE**

**ALTERNATE PATH begins here with the need to complete the notification using commercial telephone line**

<u>PERFORMANCE CHECKLIST</u>	<u>STANDARDS</u>	<u>SAT</u>	<u>UNSAT</u>	<u>N/A</u>
<p>*2. Establish communications with required agencies.</p> <p><b>Note: Have the examinee describe which phone to use if not given in the simulator or MCR.</b></p> <p><b>Cue: <u>There is no dial tone and phone doesn't respond to dialing code.</u></b></p>	<p>Establish communications as follows:</p> <ul style="list-style-type: none"> <li>Pick up the BLACK NARS phone.</li> </ul> <p>No dial tone</p> <ul style="list-style-type: none"> <li>Determine need to use commercial line.</li> </ul>	0	0	0
<p>*3. Perform NARS transmittal using commercial phone line to Illinois EMA</p> <p><b>Cue: (Provide the following response to commercial telephone line call)</b></p> <p><b><u>This is Illinois EMA</u></b></p> <p><b>Note: IDNS (NOT Required for time critical notification and would be a separate phone call)</b></p> <p><b>Note: Messages must include "Byron Control Room"</b></p> <p><b>Cue: (provide the following response for roll call)</b></p> <p><b><u>Illinois EMA</u></b></p>	<p>Call on commercial phone line:</p> <ul style="list-style-type: none"> <li>Dial (217) 782-7860 on commercial line for Illinois EMA</li> <li>Read standby message inserting "Byron Control Room"</li> <li>Read Roll call message inserting "Byron Control Room". <ul style="list-style-type: none"> <li>Take roll call.</li> </ul> </li> </ul> <p>Mark box for Illinois EMA on page 2 of NARS form.</p>	0	0	0
<p>*4. Record time and date message was initiated.</p> <p><b>Roll call completion time_____</b></p>	<ul style="list-style-type: none"> <li>Record the time and date on the NARS Form under "Initial Roll Call Complete" heading on page 2.</li> </ul>	0	0	0

**NOTE**

**The critical time of 15 minutes is determined from the classification time to the initial roll call is complete: Roll call completion time \_\_\_\_ minus classification time \_\_\_\_ = \_\_\_\_ \* (LESS than 15 minutes.)**

*5. Verbally transmit the NARS form information.	<ul style="list-style-type: none"> <li>• Transmit NARS form blocks 1-10 over the commercial telephone line using the procedure directed communication standards.</li> </ul>	o	o	o
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*6. Record block 11 data	In block 11:	o	o	o
	<ul style="list-style-type: none"> <li>• Mark [A]</li> <li>• Record candidate's name.</li> <li>• Record outside phone number.</li> </ul>			

**Cue: (If asked) outside line # is (815)-234-8811**

**Note: If NOT asked, other acceptable outside phone numbers could include:**

**(815) 406-3806 or 3807  
(815) 406-2202**

7. Record the time and date the message was transmitted.	o Record in block 11 current time and date.	o	o	o
--	---	---	---	---

PERFORMANCE CHECKLIST

STANDARDS

SAT

UNSAT

N/A

8. Enter block 12 data

**Cue:** John Smith

- Request name of Illinois EMA representative.
- Record under 'NAME'.
- Record Illinois EMA in 'ORGANIZATION' box.
- List time/date.

0

0

0

9. Perform final roll call.

**Cue:** (provide the following response for roll call):

Illinois EMA

- Perform final roll call
- Document roll call on page 2 of NARS form.

0

0

0

10. Ask if there are any questions and clarify as needed

**Cue:** No questions on information.

**Note:** When candidate reports completion of NARS transmittal to Emergency Director (SM):

**Cue:** THIS COMPLETES THIS JPM.

- Ask if there are any questions and clarify as needed.

0

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

COMMENTS:

## **JOB PERFORMANCE MEASURE**

### **TASK CONDITIONS:**

1. A LOCA has occurred on Unit 2.
2. An operator has been seriously injured in the 2A Containment Spray Pump Room.
3. A rescue attempt must be made.
4. The estimated dose to an individual attempting a rescue is approximately 50 Rem.
5. You are the Emergency Director. The TSC and OSC have NOT yet been staffed.
6. Joe Smith, age 45, (111-22-3333) has volunteered. His current annual exposure is 100 mrem.

### **INITIATING CUES:**

As the Emergency Director, perform the actions in authorizing this rescue operation in accordance with EP procedures.

**JOB PERFORMANCE MEASURE**

Rev 0, 03/22/06

TASK TITLE: Emergency Dose Authorization

JPM No.: Admin 4 SRO

TKO No: 7F.ZP-010-A

K&A No.: 2.4.38

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:**

1. EP-AA-113 (Rev 7) Personnel Protective Actions
2. EP-AA-113-F-02 (Rev A) Authorization for Emergency Exposure

**GENERAL REFERENCES:**

EP-AA-113 (Rev 7) Personnel Protective Actions

**TASK STANDARDS:**

As the Emergency Director, authorize the rescue operation in accordance with EP procedures.

**TASK CONDITIONS:**

1. A LOCA has occurred on Unit 2.
2. An operator has been seriously injured in the 2 A Containment Spray Pump Room.
3. A rescue attempt must be made.
4. The estimated dose to an individual attempting a rescue is approximately 50 Rem.
5. You are the Emergency Director. The TSC and OSC have NOT yet been staffed.
6. Joe Smith, age 45, (111-22-3333) has volunteered. His current annual exposure is 100 mrem.

**INITIATING CUES:**

As the Emergency Director, perform the actions in authorizing this rescue operation in accordance with EP procedures.

**CRITICAL ELEMENTS: (\*)**

2, 3 & 4



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

**NOTE**

**Provide the examinee with a copy of EP-AA-113 and EP-AA-113-F-02, when requested.**

1.	Refer to EP-AA-113.	◦ Locate and Open EP-AA-113.	0	0	0
*2.	Review dose assessment for rescue.	Determines that: ◦ Dose is greater than 25 Rem ● Requires a volunteer.	0	0	0
*3.	Review and authorize proposed radiation exposure in excess of 10CFR20 limits in accordance with listed criteria, and ALARA principles.	● Complete EP-AA-113-F-02 for Emergency Exposure	0	0	0

PERFORMANCE CHECKLIST

STANDARDS

SAT

UNSAT

N/A

\*4. Briefs volunteer(s) of possible health effects.

Ensures volunteers have:

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**Cue: Joe Smith has reviewed and signed EP-AA-113-F-02.**

- Signed acknowledgement that they have volunteered

**Cue: RP Management has reviewed and signed EP-AA-113-F-02.**

and

- Been briefed on health effects associated with WB doses within a few hours

and

- Approximate cancer risk per EP-AA-113, Attachment 1

5. Notify Occupational Health Services.

- o Ensures that Occupational Health Services are promptly notified if EPA-400 dose limits are exceeded.

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6. Ensure documentation of dose when complete.

- o Ensures that dose is recorded and NRC is notified if EPA-400 dose limits are exceeded.

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**Cue: THIS COMPLETES THIS JPM.**

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

**COMMENTS:**