AS-ADMINISTERED ADMINSTRATIVE JPMS

FOR THE BYRON INITIAL EXAMINATION - OCT/NOV 2001

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.a 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. ***Cue: The cover sheet has been approved by the Unit Supervisor.***	°	Ensure approval to perform surveillance from SRO.	❑	❑	❑
2.	Review Prerequisites, Precautions, and Limitations and Actions. ***Cue: No Core Exit Thermocouples are inoperable.***	°	Review Prerequisites, Precautions, and Limitations and Actions and request information for inoperable equipment.	❑	❑	❑
*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.	❑	❑	❑
4.	Circle any values with Poor or Bad quality.	°	Identify on Data Sheet D2 any unreliable data points by reviewing computer points status column on the HMI and circling Poor or Bad quality points values.	❑	❑	❑
*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.	❑	❑	❑

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A
6. Circle any values that fail Channel Check criteria. *	° Identify on Data Sheet D2 any values that fail to meet Channel Check criteria by circling value.	❑	❑	❑
*7. Verify number of OPERABLE channels meet acceptance criteria.	• Initial in right hand column that points meet acceptance criteria.	❑	❑	❑
*8. Verify the values for FQ, FNDH, and DNBR meet acceptance criteria.	• Initial in right hand column that points meet acceptance criteria.	❑	❑	❑

RECORD STOP TIME_____

COMMENTS:

* NOTE: CHANNEL CHECKS ARE PERFORMED BY CALCULATING THE DIFFERENCE BETWEEN THE AVERAGE VALUE AND THE INDIVIDUAL VALUES OBTAINED IN STEP F.1.9. THIS DIFFERENCE IS THEN COMPARED TO THE ACCEPTANCE CRITERIA OF DATA SHEET D2.

DKP 4/2/01

TASK CONDITIONS:

You are the Unit 1 Assist NSO.

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.b 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:

You are the Unit 1 Assist NSO.

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: (*) 3, 5, 6 & 7

APPROXIMATE COMPLETION TIME: 12 minutes

PERFORMANCE CHECKLIST	STANDARDS	SAT	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 **Note: Step 1 may be performed at any time.**	° LOCATE and OPEN BAR 1PM09J-C6	❑	❑	❑
2. Determine location of possible fire	° DETERMINE from 1PM09J alarm or BAR that Unit 1 diesel fuel oil tank rooms are in alarm condition	❑	❑	❑
*3. Immediate operator actions of BAR 1PM09J-C6. ***Cue:*** ***Local operator at 1FP05J reports that diesel oil storage room 1B temperature high light is LIT and the door is HOT to TOUCH*** **Note: Locating and opening BAP 1100-10 may be performed at any time.** ***Cue:*** ***(If asked) Another operator will complete the subsequent actions, section D, of BAR 1PM09J-C6.***	PERFORM immediate operator actions of BAR 1PM09J-C6: • DISPATCH operator to 1FP05J to: • verify room with high temperature • check door of room with high temp to see if hot ° LOCATE and OPEN BAP 1100-10	❑	❑	❑

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A
4. Notify Unit Supervisor ***Cue:*** ***The Unit Supervisor has been NOTIFIED***	° NOTIFY US of impending fire alarm	❑	❑	❑

NOTE

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

*5. Announce using public address ***Cue:*** ***Page announcement has been made***	° ANNOUNCE over public address system information about fire: " 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."	❑	❑	❑
*6. Announce using plant radio. ***Cue:*** ***Radio announcement has been made***	° ANNOUNCE over plant radio information about fire in diesel oil storage tank room 1B and request fire brigade response.	❑	❑	❑

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A

NOTE

The 2 minute time of the plant fire alarm is automatic, the alarm will stop automatically after approximately 2 minutes.

*7. Sound plant fire alarm. ***Cue:*** ***Fire alarm pushbutton has been DEPRESSED and RELEASED.*** ***Cue:*** ***Fire alarm is SOUNDING.*** ***Cue:*** ***Another operator will complete the remaining steps of BAP 1100-10.*** ***Cue:*** ***This JPM is completed***	• DEPRESS and RELEASE the Fire Alarm pushbutton at the Center Desk area	❑	❑	❑

RECORD STOP TIME _____

COMMENTS:

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, 8

APPROXIMATE COMPLETION TIME: 10 minutes

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A

NOTE

Provide the candidate with the following:

Copy of 1BOSR 6.3.5-22.1, 1CS007A STROKE TEST

Stop watch

RECORD START TIME _____

1. Review 1BOSR 6.3.5-22.1, 1CS007A STROKE TEST. ***Cue: (If asked) The surveillance cover sheet has been approved by the Unit Supervisor.*** ***Cue: (If asked) The other Containment Spray train is operable and the 1A CS train is operable.*** ***Cue: (If asked) The valve has not been operated since the last required performance of this surveillance.***	○ Review Prerequisites, Precautions, and Limitations and Actions	❑	❑	❑
2. Record the stopwatch QA# and calibration date.	○ Record the stopwatch QA# and calibration date from the stop watch cal sticker.	❑	❑	❑

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A
3. Record the as found condition of the listed equipment.	° Circle the as found condition of the listed equipment: ° 1CS001A – OPEN ° 1CS007A – CLOSED ° 1A CS pump – AT ° 1A CS pump Test switch - NORMAL	❑	❑	❑
4. Ensure LCOAR 1BOL 6.6 entered. ***Cue: Unit NSO has entered a log book LCOAR for 1A CS train 1BOL 6.6 and notified Unit Supervisor.***	• Inform Unit NSO and Unit Supervisor to enter log book LCOAR for inoperable 1A CS train.	❑	❑	❑
5. Perform actions to disable 1A CS train from auto actuation	• At 1PM06J perform the following: • Take C/S for 1A CS to PTL • Close 1A CS pump suction 1CS001A ° Verify 1A CS pump Test Switch in Normal	❑	❑	❑

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A
*6. Open 1CS007A and record stroke time. ***Cue: (If asked) The Unit Supervisor acknowledges entry requirements into 0BOL IST1 for 1CS007A.*** ***Cue: (If asked) The Unit Supervisor directs completing the surveillance for 1CS007A.***	• Place the control switch for 1CS007A to open and simultaneously start the stop watch. • Stop the stop watch when 1CS007A indicates full open. • Record stroke time in step F.1.g (less than 6 seconds)	❑	❑	❑
7. Close 1CS007A and record stroke time.	• Place the control switch for 1CS007A to close and simultaneously start the stop watch. • Stop the stop watch when 1CS007A indicates full closed. • Record stroke time in step F.1.h (less than 6 seconds)	❑	❑	❑
*8. Identify that the stroke time meets Tech Spec requirements but does 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.	❑	❑	❑

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A
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	❑	❑	❑
Cue: The Unit Supervisory and Unit NSO acknowledge exit of log book LCOAR for1A CS train.				
Cue: (If asked) Another operator will perform the independent verifications.				
Cue: This JPM is completed				

RECORD STOP TIME_____

COMMENTS:

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:

None

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: (*) 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 ***Cue: (If asked) Unit Supervisor acknowledges alarm received on 1AR26J.***	• 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 for1AR26J 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.	❑	❑	❑
4. Consider placing the Aux Building Charcoal Booster Fans in operation per BOP VA-5. ***Cue:*** ***Unit Supervisor acknowledges plant status and 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 step to consider starting VA Booster fans.	❑	❑	❑
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.	❑	❑	❑
6. Check no fans running in plenum A.	• Verify 0A VA Charcoal Booster Fan NOT in operation	❑	❑	❑

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A
7. Verify two plenums in service.	• Verify two of the three plenums inlet dampers OPEN: ° 0VA084YA/B ° 0VA085YA/B ° 0VA086YA/B	❑	❑	❑
8. Verify interlock met for start of 0B VA Charcoal Booster Fan	° Verify CLOSED damper 0VA022YA/B.	❑	❑	❑
*9. Start the 0B VA Charcoal Booster Fan in A plenum. **NOTE: Local controls in remote is indicated by MCB control power indication.** ***Cue: (If asked) The auxiliary operator has reported that the local control switch for 0VA03CB is in remote.***	° Verify Control Power available on MCB indicating fan is in REMOTE • Place C/S for 0VA03CB to AFTER CLOSE • Verify Discharge Damper OPEN: • 0VA023YA/B • Verify Bypass Damper CLOSED: • 0VA436YA/B	❑	❑	❑
10. Notify the Station Director to evaluate for GSEP. ***Cue: The Station Director acknowledges notification to evaluate aux building radiation condition for GSEP.*** ***Cue: This JPM is completed***	° Contact the station director to perform GSEP evaluation for aux building radiation condition.	❑	❑	❑

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A

RECORD STOP TIME_____

COMMENTS:

JOB PERFORMANCE MEASURE JPM No.: A.4 RO

TASK CONDITIONS:

NA

INITIATING CUES:

Hand the "Candidate question sheet" to the candidate.

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:

- Sound the assembly siren for 2 minutes.
- Then announce over the PA System: "Attention, Attention, plant assembly has been ordered. All persons are to report to your assigned assembly area."
- Repeat the message several times over the next 10-15 minutes.

Actual Answer:

_____
_____
_____
_____
_____
_____

☐ Candidate's response matched expected answer.

Sat __ **Unsat** __.

K/A: 2.4.39 3.3

Reference(s): EP-AA-113 Attachment 4

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 4th floor (Meeting Room 1) - LOCATION.

Actual Answer:

_____
_____
_____
_____
_____
_____

☐ Candidate's response matched expected answer.

Sat __ **Unsat** __.

K/A: 2.4.29 2.6

Reference(s): EP-AA-112

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?

TASK CONDITIONS:

1. You are the Unit 2 Supervisor.
2. A Unit 2 Containment Vent Release is pending.
3. The Unit 2 Assist NSO has just placed the release package in your in box stating that it is ready for approval.

INITIATING CUES:

Perform steps D.3 and D.4 of BCP 400-TCNMT/ROUTINE Gaseous Effluent Release Form Routine Containment Release.

JOB PERFORMANCE MEASURE Rev. 0, 8/28/2001

TASK TITLE: Review and Approved Gas Release JPM No.: A.3 SRO

TPO No: VIII.C.HP-001 K&A No.: 2.3.6 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:

1. Copy of BCP 400-TCNMT/ROUTINE Gaseous Effluent Release Form Routine Containment Release completed up to Section D.
2. Copy of completed 2BOSR 11.b.5-1, Radioactive Gaseous Effluent monitoring Instrumentation Surveillance CNMT Purge Effluent (2PR01J Source/Channel Check)

GENERAL REFERENCES:

1. BCP 400-TCNMT/ROUTINE Gaseous Effluent Release Form Routine Containment Release.
2. 2BOSR 11.b.5-1, Radioactive Gaseous Effluent monitoring Instrumentation Surveillance CNMT Purge Effluent (2PR01J Source/Channel Check)

TASK STANDARDS:

Perform supervisory review and approval of BCP 400-TCNMT/ROUTINE Gaseous Effluent Release Form Routine Containment Release.

TASK CONDITIONS:

1. You are the Unit 2 Supervisor.
2. A Unit 2 Containment Vent Release is pending.
3. The Unit 2 Assist NSO has just placed the release package in your in box stating that it is ready for approval.

INITIATING CUES:

Perform steps D.3 and D.4 of BCP 400-TCNMT/ROUTINE Gaseous Effluent Release Form Routine Containment Release.

CRITICAL ELEMENTS: (*) 1

APPROXIMATE COMPLETION TIME: 15 minutes

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A

NOTE

Provide the candidate with a copy BCP 400-TCNMT/ROUTINE Gaseous Effluent Release Form Routine Containment Release completed up to Section D and a copy of completed 2BOSR 11.b.5-1, Radioactive Gaseous Effluent monitoring Instrumentation Surveillance CNMT Purge Effluent (2PR01J Source/Channel Check)

RECORD START TIME _____

*1. Perform Step D.3 to check that 2BOSR 11.b.5-1, Radioactive Gaseous Effluent monitoring Instrumentation Surveillance CNMT Purge Effluent is completed and reviewed. ***Cue: (If asked) another surveillance will be issued and performed.***	• Identify from review that the following error is present for the surveillance requirement: • Accompanying rad monitor surveillance 2BOSR 11.b.5-1, step F.12 is marked as Dark Blue which doesn't meet acceptance criteria and step is not initialed.	❑	❑	❑
2. Perform step D.4 Review information and ensure the form is filled out properly.	• Identify from review that the release form has no errors:	❑	❑	❑
3. Refuse to sign for surveillance complete until errors have been resolved. ***Cue: NSO acknowledges and will correct errors.*** ***Cue: This JPM is complete.***	° Notify NSO of errors and direct correction/ reperformance of surveillance.	❑	❑	❑

RECORD STOP TIME_____

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A

COMMENTS:

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**).

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

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, ILLINOIS/IOWA Notifications
2. BZP 200-A1, Byron Station Emergency Action Levels
3. EP-AA-111, Emergency Classification and Protective Action Recommendation, Attachment 3, Byron PAR Determination Flowchart

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

RECORD START TIME _____

NOTE

The completion of Step 2 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, ILLINOIS/IOWA Notifications.	° Obtain NARS form.	❑	❑	❑

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A
3. Refer to EP-AA-114, ILLINOIS/IOWA Notifications, to complete NARS form.	° Locate and Open, EP-AA-114, ILLINOIS/IOWA Notifications, to fill out NARS form.	❑	❑	❑
*4. Fill out NARS form according to instructions, EP-AA-114, ILLINOIS/IOWA Notifications, Attachment 1. ***Cue: The wind direction is 420° at 15 mph.***	• Fill out NARS form according to instructions, EP-AA-114, ILLINOIS/IOWA Notifications, Attachment 1. • BLOCKS 2 thru 9 must be filled correctly to meet the critical portion of filling out the NARS form. (See attached KEY).	❑	❑	❑

RECORD STOP TIME_____

COMMENTS:

TASK CONDITIONS:

1. You are the Unit Supervisor.
2. PDMS was declared inoperable 6 hours ago.
3. 2BOSR 2.4.1-1 Unit 2 Quadrant Power Tilt Ratio Calculation has just been completed by an NSO.

INITIATING CUES:

Perform the supervisory review of 2BOSR 2.4.1-1 Unit 2 Quadrant Power Tilt Ratio Calculation.

JOB PERFORMANCE MEASURE Rev. 0, 8/28/2001

TASK TITLE: Review QPTR Surveillance JPM No.: A.1.a 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 2BOSR 2.4.1-1 Unit 2 Quadrant Power Tilt Ratio Calculation.

GENERAL REFERENCES:

2BOSR 2.4.1-1 Unit 2 Quadrant Power Tilt Ratio Calculation.

TASK STANDARDS:

Perform supervisory review of 2BOSR 2.4.1-1 Unit 2 Quadrant Power Tilt Ratio Calculation.

TASK CONDITIONS:

1. You are the Unit Supervisor.
2. PDMS was declared inoperable 6 hours ago.
3. 2BOSR 2.4.1-1 Unit 2 Quadrant Power Tilt Ratio Calculation has just been completed by an NSO.

INITIATING CUES:

Perform the supervisory review of 2BOSR 2.4.1-1 Unit 2 Quadrant Power Tilt Ratio Calculation.

CRITICAL ELEMENTS: (*) 2, 3

APPROXIMATE COMPLETION TIME: 20 minutes

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A

NOTE

Provide the candidate with a copy of completed 2BOSR 2.4.1-1 Unit 2 Quadrant Power Tilt Ratio Calculation.

RECORD START TIME _____

1. Review 2BOSR 2.4.1-1 Unit 2 Quadrant Power Tilt Ratio Calculation.	◦ Review surveillance complete and error free prior to signing cover sheet as complete.	❑	❑	❑
*2. Review calculations and Identify errors **NOTE: Once error reported provide the applicant with the following cue.** ***Cue: Shift Manager requests you to provide recommendations regarding continued operation.***	• Identify from review that the following error is present on the surveillance • On Data Sheet D3, N42 Upper Detector normalized detector current was not calculated correctly.	❑	❑	❑

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A
*3. Identify that LCO 2.4.1 is not met and Condition A should be entered. ***Cue: (If asked) Shift Manger acknowledges entry into LCO 3.2.4 Condition A for Unit 2.***	• Re-calculate QPTR and identify that normalized detector current for N42 upper detector should be 0.9966 which results in calculated QPTR of greater than 1.02 (approx 1.0260). • QPTR is not less than or equal to 1.02 and LCO 3.2.4 is NOT met, Condition A should be applied. • Determine that Reactor power needs to be reduced to less than 92.5% within 2 hours per required action A.1.	❑	❑	❑
4. Refuse to sign for surveillance complete until errors have been resolved. ***Cue: NSO acknowledges and will correct errors.*** ***Cue: This JPM is complete.***	° Notify NSO of errors and direct obtaining new data sheet of surveillance and correct errors using current data.	❑	❑	❑

RECORD STOP TIME_____

COMMENTS:

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.b 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:

1BOL 5.2, LCOAR ECCS – Operating Tech Spec LCO #3.5.2 (Rev. 2)

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: (*) 2, 3, 4, 7

APPROXIMATE COMPLETION TIME: 10 minutes

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A
RECORD START TIME _____				
1. Refer to BAP 1400-6, Technical Specification Limiting Conditions for Operation Action Requirements (LCOAR) **Note: Step 1 of this JPM is optional**	° LOCATE and OPEN BAP 1400-6	❑	❑	❑
*2. Identify LCO 3.5.2 not satisfied and proper LCOAR is 1BOL 5.2, LCOAR ECCS – Operating Tech Spec LCO #3.5.2 **NOTE: Copies of LCOARs are located in the main control room on Unit 2 side of center desk or can be printed from ECF.**	° Determine 1A SI pump inoperability addressed by LCO 3.5.2 and LCOAR 1BOL 5.2	❑	❑	❑

NOTE

Provide the candidate with a copy of 1BOL 5.2, LCOAR ECCS – Operating Tech Spec LCO #3.5.2

*3. Refer to Section A of 1 BOL 5.2 ***Cue: Notification occurred 5 minutes ago*** **NOTE: Closed bullet items are critical parts of this step.**	ENTER into Section A: • Time/Date ° By ° Title • Present mode • Initiating event	❑	❑	❑

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	N/A
*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, Rich Williams, has been notified of the LCOAR entry. ***Cue: Log entry made stating that this is an "unplanned entry"***	° NOTIFY SM ° ENTER "unplanned" in LOG			
6. PIFs, work requests, and OOS		❑	❑	❑
Cue: A PIF is being written against the 1A SI pump by an extra NSO, work request number is 01002345.	° WRITE PIF			
*7. Section B of 1BOL 5.2 **NOTE: Other admin actions directed in BAP 1400-6 but not required by this jpm include:** • Update inop status board • Unit train board update • Log entry ***Cue: This JPM is completed***	COMPLETE LCOAR Table page 5: • Review all Conditions in Condition table. • CIRCLE Condition A. • ENTER notification Time/Date AND sign. • DETERMINE ACTION: Restore to OPERABLE status within 7 days.	❑	❑	❑

RECORD STOP TIME _____

COMMENTS:

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 by completing 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 by completing 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.	❑	❑	❑
2. Refer to BAP 1600-11, Work Request Post Maintenance Testing (PMT) Guidance. **Note: Step 2 may be performed at any time.**	° LOCATE and OPEN BAP 1600-11	❑	❑	❑
3. Refer to BAP 1600-11A1 Work Request Testing Requirements page 19 for 1RY8028 testing requirements ***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.***	° Locate component testing requirements for 1RY8028 on page 19 of BAP 1600-11A1 Work Request Testing Requirements	❑	❑	❑

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 LLRT can be 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: