

Exelon Nuclear

Job Performance Measure

Perform Offsite AC Power Availability Surveillance (ACB 2424 OOS)

JPM Number: RA 1

Revision Number: 11

Date: 7/13/2010

Revised By: _____
Instructor Date

Validated By: _____
SME or Instructor Date

Reviewed By: _____
Operations Representative Date

Approved By: _____
Training Department Date

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

NOTE: All steps of this checklist should be performed upon initial validation.
 Prior to JPM usage, revalidate JPM using steps 8 and 12 below.

See File Copy

1. Task description and number, JPM description and number are identified.
2. Knowledge and Abilities (K/A) references are included.
3. Performance location specified. (in-plant, control room, simulator, or other)
4. Initial setup conditions are identified.
5. Initiating cue (and terminating cue if required) are properly identified.
6. Task standards identified and verified by SME review.
7. Critical steps meet the criteria for critical steps and are identified with an asterisk (*).
8. Verify the procedure(s) referenced by this JPM reflects the current revision:
 Procedure 1BOSR 8.1.1-1 Rev: 009
 Procedure _____ Rev: _____
 Procedure _____ Rev: _____
9. Verify cues both verbal and visual are free of conflict.
10. Verify performance time is accurate
11. If the JPM cannot be performed as written with proper responses, then revise the JPM.
12. When JPM is initially validated, sign and date JPM cover page. Subsequent validations, sign and date below:

SME / Instructor	Date
SME / Instructor	Date
SME / Instructor	Date

Revision Record (Summary)

Revision 11

Revised to current format

SIMULATOR SETUP INSTRUCTIONS

- 1) Reset to IC-21

NOTE: It is okay to use a similar IC to the IC listed above, provided the IC actually used is verified to be compatible with this and other JPMs that are scheduled to be run concurrently.

- 2) When the above steps are completed for this and other JPMs to be run concurrently then validate, if not previously validated, the concurrently run JPMs using the JPM Validation Checklist
- 3) This completes the setup for this JPM

INITIAL CONDITIONS

1. You are an extra NSO.
2. Unit 1 is in Mode 1, steady state power.

INITIATING CUE

1. The 1A DG has been declared inoperable and the US has directed you to perform 1BOSR 8.1.1-1, Normal and Reserve Offsite AC Power Availability Weekly Surveillance.
2. The SM has signed and dated the 1BOSR 8.1.1-1 data package cover sheet.

Fill in the JPM Start Time when the student acknowledges the Initiating Cue.

.....

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

* Denotes critical steps

Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section. The comment section should be used to document: the reason that a step is marked as unsatisfactory, marginal performance relating to management expectations, or problems the examinee had while performing the JPM. Comments relating to procedural or equipment issues should be entered and tracked using the site's appropriate tracking system.

Some operations that are performed from outside of the control room may require multiple steps. These items may be listed as individual steps in this JPM. It is acceptable for the candidate to direct the local operator to perform groups of procedure steps instead of calling for each individual item to be performed.

The timeclock starts when the candidate acknowledges the initiating cue.

.....

RECORD START TIME: _____

<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
<u>NOTE</u> Provide examinee with a copy of 1BOSR 8.1.1-1 to complete				
<p>1. Circle status of offsite power sources.</p> <p>Note: The bus alive light alone is NOT adequate verification of bus status.</p>	<p>At 0PM03J, OBSERVE bus alive lights, line amps, and MWs for all 345 KV lines:</p> <ul style="list-style-type: none"> ◦ Line 0621 ◦ Line 0627 ◦ Line 0624 ◦ Line 0622 ◦ CIRCLE 'energized' for all 345 KV lines 	_____	_____	_____
<p>2. Indicate status of disconnects, breakers and SAT links</p> <p>Cue: ACBs 2412 & 2422 'GREEN' lights are LIT</p> <p>Cue: ACB 2414 'GREEN' light is LIT</p> <p>Cue: ACB 2424 control switch is in PTL and OOS</p> <p>Cue: All disconnects indicate closed</p> <p>Cue: Both units SAT x-tie links are REMOVED</p> <p>Cue: Both units SAT disconnect links are INSTALLED</p>	<p>INDICATE:</p> <ul style="list-style-type: none"> • Open disconnects, breakers and removed SAT links using " O " • Closed disconnects, breakers and installed SAT links using " X " 	_____	_____	_____
<p>3. Trace path along dashed lines from any energized offsite power source to the unit <u>ONE</u> SAT banks</p>	<p>TRACE path correctly on data sheet:</p> <ul style="list-style-type: none"> • Line energized, breakers and disconnects closed 	_____	_____	_____

<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
4. Trace second path from second independent power source to unit <u>TWO</u> SAT bank.	TRACE SECOND path correctly on data sheet: <ul style="list-style-type: none"> Line energized, breakers and disconnects closed 	_____	_____	_____
*5. Verify independent paths exist from offsite power thru switchyard to both units SAT banks	Verify independent paths <ul style="list-style-type: none"> L0621 and L0622 NOT BOTH used Two paths DO NOT overlap ENTER 'Yes' for step 5 of data sheet 	_____	_____	_____
*6. Check normal and reserve 345 KV buses energized	At 0PM03J, VERIFY bus alive light and voltmeter indications for: <ul style="list-style-type: none"> 345 KV bus 6 345 KV bus 13 ENTER 'Yes' for steps 6a and 6b on data sheet	_____	_____	_____
*7. Check normal and reserve power SATs available Cue: SATs 242-1 and 242-2 ENERGIZED	At 1/2PM01J, VERIFY 'X' and 'Y' winding MW and amps indication for: <ul style="list-style-type: none"> SATs 142-1 and 142-2 SATs 242-1 and 242-2 ENTER 'Yes' for steps 7a and 7b on data sheet	_____	_____	_____
*8. Check ESF buses 141 and 142 energized	At 1PM01J, CHECK bus alive lights, SAT feeder breaker to bus position and bus voltmeter indication for: <ul style="list-style-type: none"> Bus 141 Bus 142 ENTER 'Yes' for steps 8a and 8b on data sheet	_____	_____	_____

<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
<p>*9. CHECK ESF buses 241 and 242 energized</p> <p>Cue: BUS 241 BUS ALIVE light is LIT and voltage is normal</p> <p>Cue: BUS 242 BUS ALIVE light is LIT and voltage is normal</p>	<p>At 2PM01J, CHECK bus alive lights, SAT feeder breaker to bus position and bus voltmeter indication for:</p> <ul style="list-style-type: none"> • Bus 241 • Bus 242 <p>ENTER 'Yes' for steps 9a and 9b on data sheet</p>	_____	_____	_____
<p><u>NOTE</u></p> <p>Alternate path initiated in the following step.</p>				
<p>*10. Check SAT Feed breakers are closed and connected</p> <p>Cue: ACB 2412 'GREEN' light LIT</p> <p>Cue: ACB 2422 'GREEN' light LIT</p>	<p>At 1/2PM01J, VERIFY position and control power available:</p> <ul style="list-style-type: none"> • ACB 1412 • ACB 2412 • ACB 1422 • ACB 2422 <p>ENTER 'Yes' for steps 10a through 10d on data sheet</p>	_____	_____	_____
<p>*11. Check SAT Reserve Feed breakers are closed and connected</p> <p>Cue: ACB 2414 'GREEN' light LIT</p> <p>Cue: ACB 2424 control switch is in PTL and OOS</p>	<p>At 1/2PM01J, VERIFY position and control power available:</p> <ul style="list-style-type: none"> • ACB 1414 • ACB 1424 • ACB 2414 • ACB 2424 <p>ENTER 'No' for step 11d and 'Yes' for steps 11a through 11c on data sheet</p>	_____	_____	_____
<p>*12. Determine acceptance criteria are NOT met</p>	<ul style="list-style-type: none"> • DETERMINE acceptance criteria are NOT MET 	_____	_____	_____

<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
13. Notify US that acceptance criteria are not met <i>Cue: US has verified 1BOL 8.1 has been implemented.</i>	<ul style="list-style-type: none"> Notify US verbally or by checking NO and writing in Remarks on cover sheet. 	_____	_____	_____
<i>Cue: This JPM is completed.</i>				

RECORD STOP TIME: _____



JPM SUMMARY

Operator's Name: _____ **Job Title:** EO RO SRO FS
 STA/IA SRO Cert

JPM Title: Perform Offsite AC Power Availability Surveillance (ACB 2424 OOS)

JPM Number: RA 1 (N-75a) Revision Number: 11

Task Number and Title: 4C.AP-06 Perform the Offsite AC Power Availability Surveillance.

K/A Number and Importance: 2.1.31 4.6

Suggested Testing Environment: Simulator

Alternate Path: Yes No SRO Only: Yes No Time Critical: Yes No

Reference(s):

1BOSR 8.1.1-1, Rev 9, Normal and Reserve Offsite AC Power Availability Weekly Surveillance
CRITICAL STEPS (*) 5, 6, 7, 8, 9, 10, 11 & 12

Actual Testing Environment: Simulator Control Room In-Plant Other

Testing Method: Simulate Perform

Estimated Time to Complete: 15 minutes **Actual Time Used:** _____ minutes

EVALUATION SUMMARY:

Were all the Critical Elements performed satisfactorily? Yes No

The operator's performance was evaluated against standards contained within this JPM and has been determined to be: Satisfactory Unsatisfactory

Comments: _____

Evaluator's Name: _____ (Print)

Evaluator's Signature: _____ **Date:** _____

INITIAL CONDITIONS

1. You are an extra NSO.
2. Unit 1 is in Mode 1, steady state power.

INITIATING CUE

1. The 1A DG has been declared inoperable and the US has directed you to perform 1BOSR 8.1.1-1, Normal and Reserve Offsite AC Power Availability Weekly Surveillance.
2. The SM has signed and dated the 1BOSR 8.1.1-1 data package cover sheet.

Exelon Nuclear

Job Performance Measure

Minimum Shift Staffing

JPM Number: SA 1

Revision Number: 1

Date: 7/20/2010

Revised By: _____
Instructor Date

Validated By: _____
SME or Instructor Date

Reviewed By: _____
Operations Representative Date

Approved By: _____
Training Department Date

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

NOTE: All steps of this checklist should be performed upon initial validation.
Prior to JPM usage, revalidate JPM using steps **8** and **12** below.

See File Copy

- 1. Task description and number, JPM description and number are identified.
- 2. Knowledge and Abilities (K/A) references are included.
- 3. Performance location specified. (in-plant, control room, simulator, or other)
- 4. Initial setup conditions are identified.
- 5. Initiating cue (and terminating cue if required) are properly identified.
- 6. Task standards identified and verified by SME review.
- 7. Critical steps meet the criteria for critical steps and are identified with an asterisk (*).
- 8. Verify the procedure(s) referenced by this JPM reflects the current revision:
 Procedure BAP 320-1, Shift Staffing Rev: 19
 Procedure _____ Rev: _____
 Procedure _____ Rev: _____
- 9. Verify cues both verbal and visual are free of conflict.
- 10. Verify performance time is accurate
- 11. If the JPM cannot be performed as written with proper responses, then revise the JPM.
- 12. When JPM is initially validated, sign and date JPM cover page. Subsequent validations, sign and date below:

Deleted: during Operation

_____	_____
SME / Instructor	Date
_____	_____
SME / Instructor	Date
_____	_____
SME / Instructor	Date

Revision Record (Summary)

Revision 1

- Put in current JPM Format
- Clarified the intent of the question and limited to asking for recommendations for desired staffing levels.

INITIAL 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: (Assume that **All LISTED** personnel have the same shift rotation)

<u>Name</u>	<u>Qual</u>	<u>Position</u>	<u>Name</u>	<u>Qual</u>	<u>Position</u>	<u>Name</u>	<u>Qual</u>	<u>Position</u>
Joe		SRO/SM	Sam		NSO	Mary	FB	EO
Bill	FC	SRO	Dave		NSO	Ted		EO
Tom	FC	SRO	Ron	FB	EO	Bob		RP
Andy		SRO	Alan	FB	EO	Terry		Chem
Arnie		SRO/STA	Sally	FB	EO	Karla		Chem
			Tim		EO			

FC: Fire Chief qualified FB: Fire Brigade qualified

INITIATING CUES:

Determine if the crew meets the desired staffing levels per BAP 320-1, and if not, how many people in any given position would be needed to fill the desired staffing levels.

All Work Hour Rules have been determined to be in compliance.

Fill in the JPM Start Time when the student acknowledges the Initiating Cue.

.....
Information For Evaluator's Use:

UNSAT requires written comments on respective step.

* Denotes critical steps.

Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section. The comment section should be used to document: the reason that a step is marked as unsatisfactory, marginal performance relating to management expectations, or problems the examinee had while performing the JPM. Comments relating to procedural or equipment issues should be entered and tracked using the site's appropriate tracking system.

Some operations that are performed from outside of the control room may require multiple steps. These items may be listed as individual steps in this JPM. It is acceptable for the

SA 1- rev 1

candidate to direct the local operator to perform groups of procedure steps instead of calling for each individual item to be performed.

The timeclock starts when the candidate acknowledges the initiating cue.

RECORD START TIME: _____

<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
1. Refer to BAP 320-1, Shift Staffing Cue: Provide a copy of BAP 320-1 after correct procedure has been determined. The staffing determination can be determined in any order.	Determines that BAP 320-1 is needed to make determination.			
2. Review Desired Staffing requirement for Shift Manager.	Determine that minimum Desired Staffing for Shift Manager is satisfied.			
3. Review Desired Staffing requirement for Unit Supervisor.	Determine that minimum Desired Staffing for Unit Supervisor is satisfied.			
4. Review Desired Staffing requirement for WEC.	Determine that minimum Desired Staffing for WEC is satisfied.			
5. Review Desired Staffing requirement for FS/Fire Brigade Chief.	Determine that minimum Desired Staffing for FS is satisfied.			
*6. Review Desired Staffing requirement for NSO.	Determine that minimum Desired Staffing for NSO's is NOT satisfied. 2 more are desired.			
7. Review Desired Staffing requirement for STA.	Determine that minimum Desired Staffing for STA is satisfied.			

<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
*8. Review Desired Staffing requirement for EO.	Determine that minimum Desired Staffing for EO's is NOT satisfied. 2 more are desired.			
*9. Review Desired Staffing requirement for RP.	Determine that minimum Desired Staffing for RP is NOT satisfied. 1 more is desired.			
10. Review Desired Staffing requirement for Chemistry.	Determine that minimum Desired Staffing for Chemistry is satisfied.			
11. Review Desired Staffing requirement for Emergency Communicator.	Determine that minimum Desired Staffing for Emergency Communicator is satisfied – the extra Chemistry person (or any station staff person)			
CUE: The JPM is complete.				

RECORD STOP TIME: _____



JPM SUMMARY

Operator's Name: _____ **Job Title:** EO RO SRO FS
STA/IA SRO Cert

JPM Title: Minimum Shift Staffing

JPM Number: SA 1 Revision Number: 1

Task Number and Title: S-AM-029 Ensure Minimum Shift Staffing and Authorize Additional Shift Staffing as Necessary

K/A Number and Importance: 2.1.5 3.9

Suggested Testing Environment: Classroom

Alternate Path: Yes No SRO Only: Yes No Time Critical: Yes No

Reference(s):

BAP 320-1, Rev 19, Shift Staffing

CRITICAL STEPS (*) 6, 8 & 9

Actual Testing Environment: Simulator Control Room In-Plant Other

Testing Method: Simulate Perform

Estimated Time to Complete: 20 minutes **Actual Time Used:** _____ minutes

EVALUATION SUMMARY:

Were all the Critical Elements performed satisfactorily? Yes No

The operator's performance was evaluated against standards contained within this JPM and has been determined to be: Satisfactory Unsatisfactory

Comments: _____

Evaluator's Name: _____ (Print)

Evaluator's Signature: _____ **Date:** _____

INITIAL 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: (Assume that **All LISTED** personnel have the same shift rotation)

<u>Name</u>	<u>Qual</u>	<u>Position</u>	<u>Name</u>	<u>Qual</u>	<u>Position</u>	<u>Name</u>	<u>Qual</u>	<u>Position</u>
Joe		SRO/SM	Sam		NSO	Mary	FB	EO
Bill	FC	SRO	Dave		NSO	Ted		EO
Tom	FC	SRO	Ron	FB	EO	Bob		RP
Andy		SRO	Alan	FB	EO	Terry		Chem
Arnie		SRO/STA	Sally	FB	EO	Karla		Chem
			Tim		EO			

FC: Fire Chief qualified **FB: Fire Brigade qualified**

INITIATING CUES:

Determine if the crew meets the desired staffing levels per BAP 320-1, and if not, how many people in any given position would be needed to fill the desired staffing levels.

All Work Hour Rules have been determined to be in compliance.

Exelon Nuclear

Job Performance Measure

Perform Shutdown Margin Calculations

JPM Number: SA 2 / RA 2

Revision Number: 0

Date: 7/16/2010

Revised By: _____
Instructor Date

Validated By: _____
SME or Instructor Date

Reviewed By: _____
Operations Representative Date

Approved By: _____
Training Department Date

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

NOTE: All steps of this checklist should be performed upon initial validation.
Prior to JPM usage, revalidate JPM using steps **8** and **12** below.

See File Copy

1. Task description and number, JPM description and number are identified.
2. Knowledge and Abilities (K/A) references are included.
3. Performance location specified. (in-plant, control room, simulator, or other)
4. Initial setup conditions are identified.
5. Initiating cue (and terminating cue if required) are properly identified.
6. Task standards identified and verified by SME review.
7. Critical steps meet the criteria for critical steps and are identified with an asterisk (*).
8. Verify the procedure(s) referenced by this JPM reflects the current revision:
Procedure 1BOSR 1.1.1-1, Shutdown Margin Surveillance Rev: 10
Procedure BCB-1 Table 1-1a Rev: 6
Procedure 1BGP 100-7T1 Rev: 8
9. Verify cues both verbal and visual are free of conflict.
10. Verify performance time is accurate
11. If the JPM cannot be performed as written with proper responses, then revise the JPM.
12. When JPM is initially validated, sign and date JPM cover page. Subsequent validations, sign and date below:

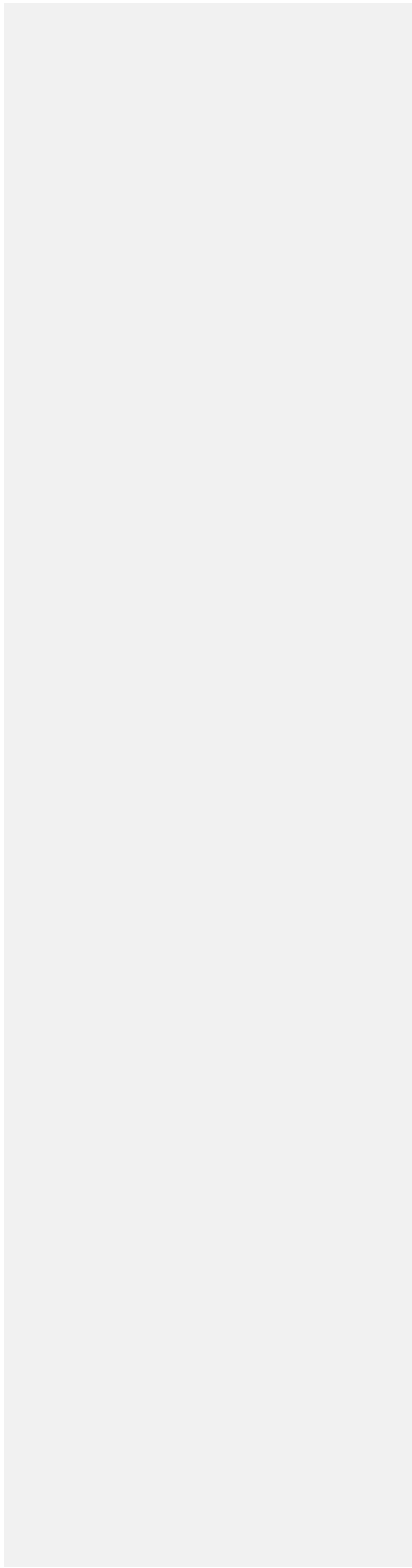
Deleted: 1.e-2
Deleted: during Operation

_____	_____
SME / Instructor	Date
_____	_____
SME / Instructor	Date
_____	_____
SME / Instructor	Date

Revision Record (Summary)

Revision 0

- JPM modified from Byron 2006 NRC ILT JPM



INITIAL CONDITIONS

1. You are an extra NSO.
2. Unit 1 tripped 5 minutes ago from 100% power. The unit had been at 100% for 2 weeks.
3. Before the trip, Control Bank D was at 220 steps with all rods in proper alignment, bank overlap and sequence.
4. All RCPs are running.
5. All Rod At Bottom lights are lit.
6. Boron concentration is 700 ppm per sample 3 hours ago. No changes to boron concentration have been made.
7. Tave is 557°F, maintained on the steam dumps
8. Reactor average burn-up is 6500_EFPH, MOL.

Deleted: C

Deleted: 1400

INITIATING CUE

1. The plant is to be cooled to 500°F.
2. The Unit Supervisor instructs you to perform 1BOSR 1.1.1-1, Shutdown Margin Surveillance, and determine if Shutdown Margin is met for post-trip conditions, AND for the proposed cooldown.
3. The examiner will provide approval signatures when required.

Deleted: .1.e

Deleted: 2

Deleted: During Operation

This JPM is TIME CRITICAL.

Fill in the JPM Start Time when the student acknowledges the Initiating Cue.
.....

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

* Denotes critical steps.

Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section. The comment section should be used to document: the reason that a step is marked as unsatisfactory, marginal performance relating to management expectations, or problems the examinee had while performing the JPM. Comments relating to procedural or equipment issues should be entered and tracked using the site's appropriate tracking system.

Some operations that are performed from outside of the control room may require multiple steps. These items may be listed as individual steps in this JPM. It is acceptable for the candidate to direct the local operator to perform groups of procedure steps instead of calling for each individual item to be performed.

The timeclock starts when the candidate acknowledges the initiating cue.
.....

RECORD START TIME: _____

<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
<p>NOTE: Provide the examinee with 1BOSR 1.1.1-1, 1BGP-7T1, and BCB-1, Table 1-1a</p>				
<p>CUE: The reactor tripped at _____. (NOTE to Evaluator: Fill in the time as 5 minutes before the JPM start time.)</p>				
<p>1. Refer to 1BOSR 1.1.1-1, Shutdown Margin Surveillance</p>	<ul style="list-style-type: none"> • OPEN 1BOSR 1.1.1-1 • Go to step F.1 			
<p>*2. Post Reactor Trip Assessment</p> <p>Evaluator Note: Sign step F.1.k as the SRO. Record time step F.1.k is requested to be signed.</p> <p>Time signed: _____:_____</p> <p>Critical Time: Is the Start time – Time signed ≤ 55 minutes?</p> <p>*YES / NO</p>	<ul style="list-style-type: none"> • Circle Yes in the following steps: • F.1.a - h: Yes • F.1.i: record the time 5 minutes ago • F.1.j: record the time 12 hours from the trip time. • F.1.k: Sign that SDM is acceptable 			

<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
<p>*3 Assess SDM for Cooldown</p> <p>CUE: The boration has been completed.</p> <p>CUE: The next step exhibits time compression: Chemistry reports U-1 RCS is at (+10 PPM above the determined boron concentration).</p> <p>Evaluator Note: Sign step F.3.g as the SRO.</p>	<ul style="list-style-type: none"> • F.1.I: Continue at step F.3 for cooldown • F.3.a: Record 700 ppm and date and time of 3 hours ago. • F.3.b: Record 500°F • F.3.c: Using BCB-1, Table 1-1a, 500°F and 700 ppm, determine minimum boron concentration to be 838 ppm. • F.3.d: Request or notify the SRO that the RCS must be borated to at least 838 ppm. • F.3.e: Verify minimum boron concentration has been obtained. When cued, record it as (AS CUED) PPM. • F.3.f: Record expiration time as 12 hours after the trip time. • F.3.g: Sign that SDM is acceptable 			
<p>CUE: The JPM is complete.</p>				

RECORD STOP TIME: _____



JPM SUMMARY

Operator's Name: _____ **Job Title:** EO RO SRO FS
 STA/IA SRO Cert

JPM Title: Perform Shutdown Margin Calculations

JPM Number: SA 2 Revision Number: 0

Task Number and Title: R-AM-012 Apply Technical Specification Requirements

K/A Number and Importance: 2.1.37 4.3/4.6

Suggested Testing Environment: Classroom

Alternate Path: Yes No SRO Only: Yes No Time Critical: Yes No

Reference(s):

- 1BOSR 1.1.1-1, Shutdown Margin Surveillance, (Rev. 10)
- 1BGP 100-7TI, Reference Reactivity Data Worksheet (Rev.8)
- BCB-1, Byron Unit 1 Cycle 17 Curve Book, Fig 8B, Table 1-1a (Rev. 6)

- Deleted: 1. .
- Deleted: .1.e-2
- Deleted: during Operation
- Deleted: 2. .
- Deleted: 1

CRITICAL STEPS (*) 2 & 3

Actual Testing Environment: Simulator Control Room In-Plant Other

Testing Method: Simulate Perform

Estimated Time to Complete: 30 minutes

Actual Time Used: _____ minutes

EVALUATION SUMMARY:

Were all the Critical Elements performed satisfactorily? Yes No

The operator's performance was evaluated against standards contained within this JPM and has been determined to be: Satisfactory Unsatisfactory

Comments: _____

Evaluator's Name: _____ (Print)
Evaluator's Signature: _____ **Date:** _____

INITIAL CONDITIONS

1. You are an extra NSO.
2. Unit 1 tripped 5 minutes ago from 100% power. The unit had been at 100% for 2 weeks.
3. Before the trip, Control Bank D was at 220 steps with all rods in proper alignment, bank overlap and sequence.
4. All RCPs are running.
5. All Rod At Bottom lights are lit.
6. Boron concentration is 700 ppm per sample 3 hours ago. No changes to boron concentration have been made.
7. Tave is 557°F, maintained on the steam dumps
8. Reactor average burn-up is 6500_EFPH, MOL.

Deleted: C

Deleted: 1400

INITIATING CUE

1. The plant is to be cooled to 500°F.
2. The Unit Supervisor instructs you to perform 1BOSR 1.1.1-1, Shutdown Margin Surveillance, and determine if Shutdown Margin is met for post-trip conditions, AND for the proposed cooldown.
3. The examiner will provide approval signatures when required.

Deleted: .1.e

Deleted: 2

Deleted: During Operation

This JPM is TIME CRITICAL.

Exelon Nuclear

Job Performance Measure

Respond to GDT High Activity

JPM Number: RA 3

Revision Number: 1

Date: 7/16/2010

Revised By: _____
Instructor Date

Validated By: _____
SME or Instructor Date

Reviewed By: _____
Operations Representative Date

Approved By: _____
Training Department Date

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

NOTE: All steps of this checklist should be performed upon initial validation.
 Prior to JPM usage, revalidate JPM using steps 8 and 12 below.

See File Copy

1. Task description and number, JPM description and number are identified.
2. Knowledge and Abilities (K/A) references are included.
3. Performance location specified. (in-plant, control room, simulator, or other)
4. Initial setup conditions are identified.
5. Initiating cue (and terminating cue if required) are properly identified.
6. Task standards identified and verified by SME review.
7. Critical steps meet the criteria for critical steps and are identified with an asterisk (*).
8. Verify the procedure(s) referenced by this JPM reflects the current revision:
 Procedure 0BOA RAD-3, Decay Tank High Activity Rev: 100
 Procedure _____ Rev: _____
 Procedure _____ Rev: _____
9. Verify cues both verbal and visual are free of conflict.
10. Verify performance time is accurate
11. If the JPM cannot be performed as written with proper responses, then revise the JPM.
12. When JPM is initially validated, sign and date JPM cover page. Subsequent validations, sign and date below:

SME / Instructor	Date
SME / Instructor	Date
SME / Instructor	Date

Revision Record (Summary)

Revision 1

Revised to current format

INITIAL CONDITIONS

1. You are an Assist NSO.
2. Both Units are in Mode 1, Steady State Power.
3. Chemistry Department has informed the Control Room that the activity in the 0A gas decay tank (GDT) has been measured at 8.68×10^4 curies.
4. 0A GDT is isolated pending completion of a release package.

INITIATING CUES

The Unit Supervisor directs you to take action to reduce activity level in the 0A GDT per 0BOA RAD-3, DECAY TANK HIGH ACTIVITY, while the Shift Manager evaluates for Emergency Action Levels.

Fill in the JPM Start Time when the student acknowledges the Initiating Cue.

.....
Information For Evaluator’s Use:

UNSAT requires written comments on respective step.

* Denotes critical steps

Number any comments in the “Comment Number” column on the following pages. Then annotate that comment in the “Comments” section. The comment section should be used to document: the reason that a step is marked as unsatisfactory, marginal performance relating to management expectations, or problems the examinee had while performing the JPM. Comments relating to procedural or equipment issues should be entered and tracked using the site’s appropriate tracking system.

Some operations that are performed from outside of the control room may require multiple steps. These items may be listed as individual steps in this JPM. It is acceptable for the candidate to direct the local operator to perform groups of procedure steps instead of calling for each individual item to be performed.

The timeclock starts when the candidate acknowledges the initiating cue.

RECORD START TIME: _____

<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
1. Refer to 0BOA RAD-3 for direction Note: Provide copy of BOA RAD-3 and a calculator.	Locate a copy of 0BOA RAD-3, Decay Tank High Activity.			
2. Suspend radioactive additions to the OA GDT. Cue: 0A GDT is isolated. Cue: (if asked) 0D GDT is in service.	Suspend radioactive additions to the OA GDT by contacting RWP operator: <ul style="list-style-type: none"> • Determine status of 0A GDT <input type="checkbox"/> 			
*3. Calculate pressure at which OA GDT activity levels will be acceptable. CUE: 0A tank pressure is currently 88 psig Cue: 0D GDT is now in service.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Determines required pressure, per Attachment A of 0BOA RAD-3, to be ≤ 44.33 PSIG. 1) Value calculated: _____			
*4. Transfers 0A GDT contents to reduce pressure to within calculated limit. CUE: RWP operator notified. Some of 0A GDT contents have been transferred to the 0C GDT. 0A tank pressure now indicates (40 psig).	Directs RWP operator to transfer 0A GDT to another GDT IAW BOP GW-7 until pressure is less than (calculated value) psig.			
*5. Determine GDT activity is acceptable. Cue: 0A and 0C GDTs have been sampled and activity in each is: <ul style="list-style-type: none"> • OA GDT is 4×10^4 CURIES • OC GDT is 4×10^4 CURIES 	Requests 0A and 0C GDT samples <ul style="list-style-type: none"> • OA GDT is $< 5 \times 10^4$ CURIES. • OC GDT is $< 5 \times 10^4$ CURIES. 			

<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
6. Affected GDTs placed in storage. <i>CUE: RWP panel operator informed and acknowledges direction.</i>	Directs RWP operator to place OA (and OC) GDTs in storage per BOP GW-6.			
7. Refer to Tech Specs <i>Cue: The Unit Supervisor will perform Tech Spec evaluation.</i>	Refers to Tech Specs			
<i>Note: Once candidate determines 'returning to procedure and step in effect' is applicable: Cue: This JPM is completed.</i>				

RECORD STOP TIME: _____



JPM SUMMARY

Operator's Name: _____ **Job Title:** EO RO SRO FS
 STA/IA SRO Cert

JPM Title: Respond to GDT High Activity

JPM Number: RA 2 Revision Number: 1

Task Number and Title: R-GW-001 Perform gaseous release

K/A Number and Importance: 2.3.13 3.4

Suggested Testing Environment: Classroom

Alternate Path: Yes No SRO Only: Yes No Time Critical: Yes No

Reference(s):

0BOA RAD-3, Decay Tank High Activity, Rev 100

CRITICAL STEPS (*) 3, 4 & 5

Actual Testing Environment: Simulator Control Room In-Plant Other

Testing Method: Simulate Perform

Estimated Time to Complete: 10 minutes **Actual Time Used:** _____ minutes

EVALUATION SUMMARY:

Were all the Critical Elements performed satisfactorily? Yes No

The operator's performance was evaluated against standards contained within this JPM and has been determined to be: Satisfactory Unsatisfactory

Comments: _____

Evaluator's Name: _____ (Print)

Evaluator's Signature: _____ **Date:** _____

INITIAL CONDITIONS

1. You are an Assist NSO.
2. Both Units are in Mode 1, Steady State Power.
3. Chemistry Department has informed the Control Room that the activity in the 0A gas decay tank (GDT) has been measured at 8.68×10^4 curies.
4. 0A GDT is isolated pending completion of a release package.

INITIATING CUES

The Unit Supervisor directs you to take action to reduce activity level in the 0A GDT per 0BOA RAD-3, DECAY TANK HIGH ACTIVITY, while the Shift Manager evaluates for Emergency Action Levels.

Exelon Nuclear

Job Performance Measure

Initiate a LCOAR

JPM Number: SA 3 (S009)

Revision Number: 0

Date: 8/4/2010

Revised By: _____
Instructor Date

Validated By: _____
SME or Instructor Date

Reviewed By: _____
Operations Representative Date

Approved By: _____
Training Department Date

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

NOTE: All steps of this checklist should be performed upon initial validation.
Prior to JPM usage, revalidate JPM using steps **8** and **12** below.

See File Copy

1. Task description and number, JPM description and number are identified.
2. Knowledge and Abilities (K/A) references are included.
3. Performance location specified. (in-plant, control room, simulator, or other)
4. Initial setup conditions are identified.
5. Initiating cue (and terminating cue if required) are properly identified.
6. Task standards identified and verified by SME review.
7. Critical steps meet the criteria for critical steps and are identified with an asterisk (*).
8. Verify the procedure(s) referenced by this JPM reflects the current revision:
 Procedure BAP 1400-6 Rev: 28
 Procedure 1BOL 7.5 Rev: 6
9. Verify cues both verbal and visual are free of conflict.
10. Verify performance time is accurate
11. If the JPM cannot be performed as written with proper responses, then revise the JPM.
12. When JPM is initially validated, sign and date JPM cover page. Subsequent validations, sign and date below:

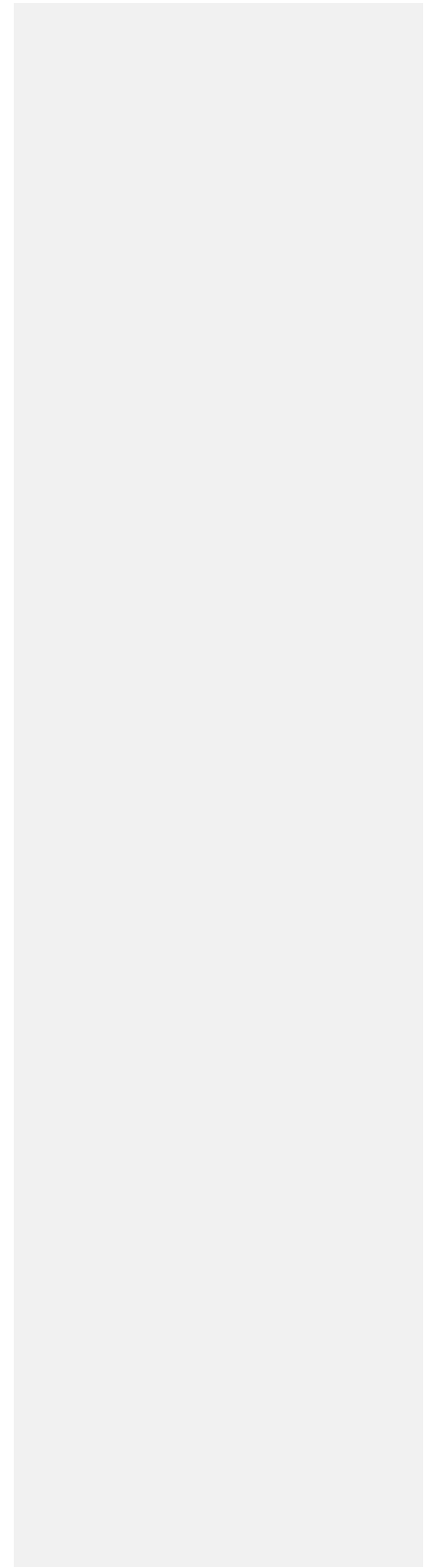
_____	_____
SME / Instructor	Date
_____	_____
SME / Instructor	Date
_____	_____
SME / Instructor	Date

SA 3- rev 0

Revision Record (Summary)

Revision 0

- Modified S009 Rev. 6



INITIAL CONDITIONS

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

INITIATING CUE

1. The Shift Manager notifies you 5 minutes ago, the 1B Auxiliary Feedwater Pump was taken out of service for 6 hours for battery terminal cleaning.
2. The Shift Manager directs that it is NOT necessary to update the DEL per LCO 3.0.6 for this short duration LCO.
3. The Clearance Order number is 48763.
4. Initiate the LCOAR.

Fill in the JPM Start Time when the student acknowledges the Initiating Cue.

.....
Information For Evaluator's Use:

UNSAT requires written comments on respective step.

* Denotes critical steps.

Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section. The comment section should be used to document: the reason that a step is marked as unsatisfactory, marginal performance relating to management expectations, or problems the examinee had while performing the JPM. Comments relating to procedural or equipment issues should be entered and tracked using the site's appropriate tracking system.

Some operations that are performed from outside of the control room may require multiple steps. These items may be listed as individual steps in this JPM. It is acceptable for the candidate to direct the local operator to perform groups of procedure steps instead of calling for each individual item to be performed.

The timeclock starts when the candidate acknowledges the initiating cue.
.....

RECORD START TIME: _____

<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
<p>NOTE</p> <p><u>Once the student demonstrates the ability to locate referenced procedure provide the student with a copy of the procedure.</u></p> <p>Step 1 of this JPM is optional</p>				
1. Refer to BAP 1400-6, Technical Specification Limiting Conditions for Operation Action Requirements (LCOAR)	◦ LOCATE and OPEN BAP 1400-6	_____	_____	_____
2. Refer to 1BOL 7.5, LCOAR Auxiliary Feedwater System – Tech Spec LCO 3.7.5	◦ LOCATE and OPEN 1BOL 7.5	_____	_____	_____
<p>*3. Section A of 1 BOL 7.5</p> <p>Cue: Notification occurred 5 minutes ago</p>	<p>ENTER into Section A:</p> <ul style="list-style-type: none"> • Time/Date ◦ By ◦ Title • Present mode • Initiating event • Condition 	_____	_____	_____
<p>*4. Safety function determination</p> <p>Cue: There is no other inoperable or degraded support or supported equipment on the A train</p>	<ul style="list-style-type: none"> • PERFORM SFD • Indicate No in Section C 	_____	_____	_____
5. Update DEL	• Check “N/A” box	_____	_____	_____
6. Fill in Related Clearance Orders	• “48673” from initial conditions	_____	_____	_____
7. Was an IR written?	• Check “No” box and write “planned work” or similar	_____	_____	_____

Formatted: Centered, Indent: Left: 0.4", Hanging: 0.4", No bullets or numbering, Don't adjust space between Latin and Asian text

Formatted: Font: Helvetica, Bold

Formatted: Font: Helvetica

<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
*8. LCOAR TABLE of 1 BOL 7.5	COMPLETE LCOAR Table: <ul style="list-style-type: none"> ◦ CIRCLE Condition A • ENTER notification Time/Date <u>AND</u> sign Condition A 	_____	_____	_____
9. Peer check prior to SM signing <i>Cue: A second SRO has peer check the package and has signed and dated the margin of the cover sheet</i>	<ul style="list-style-type: none"> ◦ BAP 1400-6 for Peer check ◦ Get an additional SRO to Peer check the BOL package 	_____	_____	_____
10. Signed by Shift Manager <i>Cue: The shift manager has reviewed the LCOAR</i>	<ul style="list-style-type: none"> ◦ NOTIFY SM 	_____	_____	_____

RECORD STOP TIME: _____



JPM SUMMARY

Operator's Name: _____ **Job Title:** EO RO SRO FS
 STA/IA SRO Cert

JPM Title: Initiate a LCOAR. (SRO)

JPM Number: SA 3(S009) Revision Number: 0

Task Number and Title: 8E.TS-007 ENSURE compliance with all applicable Tech Spec Action Statements.

K/A Number and Importance: 2.2.23 4.6

Suggested Testing Environment: Simulator

Alternate Path: Yes No SRO Only: Yes No Time Critical: Yes No

Reference(s):

BAP 1400-6, Technical Specification Limiting Conditions for Operation Action Requirements (LCOAR) (Rev 28)

1BOL 7.5, LCOAR Auxiliary Feedwater – Operating Tech Spec LCO 3.7.5 (Rev 6)

CRITICAL STEPS (*) 3, 4 & 8

Actual Testing Environment: Simulator Control Room In-Plant Other

Testing Method: Simulate Perform

Estimated Time to Complete: 10 minutes **Actual Time Used:** _____ minutes

EVALUATION SUMMARY:

Were all the Critical Elements performed satisfactorily? Yes No

The operator's performance was evaluated against standards contained within this JPM and has been determined to be: Satisfactory Unsatisfactory

Comments: _____

Evaluator's Name: _____ (Print)

Evaluator's Signature: _____ **Date:** _____

Formatted: Font: (Default) Helvetica, Underline, Font color: Auto, Not Strikethrough

INITIAL CONDITIONS

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

INITIATING CUE

1. The Shift Manager notifies you 5 minutes ago, the 1B Auxiliary Feedwater Pump was taken out of service for 6 hours for battery terminal cleaning.
2. The Shift Manager directs that it is NOT necessary to update the DEL per LCO 3.0.6 for this short duration LCO.
3. The Clearance Order number is 48763.
4. Initiate the LCOAR.

Exelon Nuclear

Job Performance Measure

Respond to a Bomb Threat

JPM Number: RA 4

Revision Number: 0

Date: 7/15/2010

Revised By: _____
Instructor Date

Validated By: _____
SME or Instructor Date

Reviewed By: _____
Operations Representative Date

Approved By: _____
Training Department Date

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

NOTE: All steps of this checklist should be performed upon initial validation.
 Prior to JPM usage, revalidate JPM using steps 8 and 12 below.

See File Copy

1. Task description and number, JPM description and number are identified.
2. Knowledge and Abilities (K/A) references are included.
3. Performance location specified. (in-plant, control room, simulator, or other)
4. Initial setup conditions are identified.
5. Initiating cue (and terminating cue if required) are properly identified.
6. Task standards identified and verified by SME review.
7. Critical steps meet the criteria for critical steps and are identified with an asterisk (*).
8. Verify the procedure(s) referenced by this JPM reflects the current revision:
 Procedure SY-AA-101-130 Rev: 12
 Procedure Operating Policy 600-04 Rev: _____
 Procedure Operating Emergency Report Sheet Rev: 092208
9. Verify cues both verbal and visual are free of conflict.
10. Verify performance time is accurate
11. If the JPM cannot be performed as written with proper responses, then revise the JPM.
12. When JPM is initially validated, sign and date JPM cover page. Subsequent validations, sign and date below:

SME / Instructor	Date
SME / Instructor	Date
SME / Instructor	Date

Revision Record (Summary)

Revision 0

New JPM

INITIAL CONDITIONS

1. You are the Unit 1 Assist NSO.
2. Both Units are at 100% power with all systems in normal alignment

INITIATING CUES

Line 2211 rings with an outside call ring pattern.

Fill in the JPM Start Time when the student acknowledges the Initiating Cue.

.....
Information For Evaluator's Use:

UNSAT requires written comments on respective step.

* Denotes critical steps

Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section. The comment section should be used to document: the reason that a step is marked as unsatisfactory, marginal performance relating to management expectations, or problems the examinee had while performing the JPM. Comments relating to procedural or equipment issues should be entered and tracked using the site's appropriate tracking system.

Some operations that are performed from outside of the control room may require multiple steps. These items may be listed as individual steps in this JPM. It is acceptable for the candidate to direct the local operator to perform groups of procedure steps instead of calling for each individual item to be performed.

The timeclock starts when the candidate acknowledges the initiating cue.
.....

RECORD START TIME: _____

<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
<p>EVALUATORS NOTE: The response form for a bomb threat is in SY-AA-101-130, Security Responsibilities for Station Personnel. This form is referenced and included in Operating Policy 600-04, Operational Contingency Action Guidelines for Dealing with a Security Threat in Attachment E, Miscellaneous Actions. Operating Department has created an Operator Aid that is kept at Center Desk that includes this form in the Byron Station Operating Emergency Report Sheet.</p> <p>It is anticipated the examinee would use the Operator Aid, but the use of any of the 3 forms is acceptable, because they are the same, derived from SY-AA-101-130. All 3 versions of the form are included and the requested form should be supplied to the examinee.</p>				
<p>1. Answer telephone and asks the nature of the emergency.</p> <p>CUE: “This is the American Anti-Nuclear Society. We have placed a bomb in the power plant.”</p>	<ul style="list-style-type: none"> ○ Notify caller this is the Byron Station Emergency Line 			
<p>2. Utilizes a bomb threat response form</p> <p>CUE: Provide the examinee with the requested response form.</p>	<ul style="list-style-type: none"> ● Selects one of the approved bomb threat forms: <ul style="list-style-type: none"> ○ Form SY-AA-101-130-F-03 ○ Operating Policy 600-04, Att E, Miscellaneous Actions ○ Byron Station Operating Emergency Report Sheet, Att 4 			
<p>EVALUATORS NOTE: Step 3 below is from page 1 of the Operating Emergency Report Sheet, and will not be used if the examinee uses the other versions of the form, or turns directly to Attachment 4 of the operator aid.</p>				

<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
<p>3. Utilize Operating Emergency Report Sheet</p> <p>CUE: “This is the American Anti-Nuclear Society. We have placed a bomb in the power plant.”</p> <p>CUE: “It’s in the Spent Fuel Pool.”</p> <p>CUE: “This is the American Anti-Nuclear Society.”</p> <p>CUE: Repeat “This is the American Anti-Nuclear Society. We have placed a bomb in the power plant.”</p>	<ul style="list-style-type: none"> • States “Stay calm. Do not hang up until I tell you to.” • Asks “What is the emergency?” • Asks “Where is the emergency?” • Asks “What is your name?” • Asks “What is your phone number?” 			
<p>4. Notify nearest co-worker that a bomb threat is being received.</p> <p>CUE: The U-2 Assist NSO is sitting near you at center desk and acknowledges your message.</p>	<ul style="list-style-type: none"> • Inform co-worker of bomb threat. 			

<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
<p>*5. Ask the caller the questions on the form.</p> <p>CUE: “The bomb will explode in 2 hours.”</p> <p>CUE: “It’s in the Spent Fuel Pool.”</p> <p>CUE: “A large amount of C-4 explosive.”</p> <p>CUE: “Any disturbance or attempt to move it will explode it.”</p> <p>CUE: “It is in a box in a fuel rack.”</p> <p>CUE: “Goodbye” (and hangs up)</p>	<p>Ask the following questions:</p> <ul style="list-style-type: none"> • When will it explode? • Where is the bomb now? • What kind of bomb is it? • What will cause the bomb to explode? • What does it look like? ○ How much explosive is there? ○ Did you place the bomb? ○ Why? ○ What is your address? ○ What is your name? 			
<p>*6. Write down the words used by the caller</p>	<p>Notes the important details:</p> <ul style="list-style-type: none"> • will explode in 2 hours • in the Spent Fuel Pool • large amount of C-4 explosive • Any disturbance or attempt to move it will explode it • A box in a fuel rack 			
<p>7. Record the time the call was received</p>	<ul style="list-style-type: none"> • Record the time the call started. 			
<p>EVALUATORS NOTE: The examinee will circle the speech characteristics that you exhibited and should be graded accordingly.</p>				
<p>8. Record the speech characteristic, accent and background sounds.</p>	<ul style="list-style-type: none"> • Circle the appropriate speech characteristics the caller exhibited, accent and background sounds. 			

<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
9. Record the time the caller hung up.	<ul style="list-style-type: none"> Record when the caller hung up. 			
10. Write down name and today's date.	<ul style="list-style-type: none"> Examinee's name Today's date 			
11. Notify US of phone call.	<ul style="list-style-type: none"> Notify US of phone call. 			
Cue: This JPM is completed.				

RECORD STOP TIME: _____



JPM SUMMARY

Operator's Name: _____ **Job Title:** EO RO SRO FS
 STA/IA SRO Cert

JPM Title: Respond to a Bomb Threat

JPM Number: RA 4 Revision Number: 0

Task Number and Title: R-AM-053 Respond to a telephone bomb/sabotage threat

K/A Number and Importance: 2.4.28 3.2

Suggested Testing Environment: Classroom

Alternate Path: Yes No SRO Only: Yes No Time Critical: Yes No

Reference(s):

SY-AA-101-130, Rev: 12

Operating Policy 600-04, Rev: 20

Operating Emergency Report Sheet, Rev: 092208

CRITICAL STEPS (*) 5 & 6

Actual Testing Environment: Simulator Control Room In-Plant Other

Testing Method: Simulate Perform

Estimated Time to Complete: 10 minutes

Actual Time Used: _____ minutes

EVALUATION SUMMARY:

Were all the Critical Elements performed satisfactorily? Yes No

The operator's performance was evaluated against standards contained within this JPM and has been determined to be: Satisfactory Unsatisfactory

Comments: _____

Evaluator's Name: _____ (Print)

Evaluator's Signature: _____ **Date:** _____

INITIAL CONDITIONS

1. You are the Unit 1 Assist NSO.
2. Both Units are at 100% power with all systems in normal alignment

INITIATING CUES

Line 2211 rings with an outside call ring pattern.

Exelon Nuclear

Job Performance Measure

Accessing Containment at Power

JPM Number: SA 4

Revision Number: 4

Date: 7/20/2010

Revised By: _____
Instructor Date

Validated By: _____
SME or Instructor Date

Reviewed By: _____
Operations Representative Date

Approved By: _____
Training Department Date

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

NOTE: All steps of this checklist should be performed upon initial validation.
 Prior to JPM usage, revalidate JPM using steps 8 and 12 below.

See File Copy

1. Task description and number, JPM description and number are identified.
2. Knowledge and Abilities (K/A) references are included.
3. Performance location specified. (in-plant, control room, simulator, or other)
4. Initial setup conditions are identified.
5. Initiating cue (and terminating cue if required) are properly identified.
6. Task standards identified and verified by SME review.
7. Critical steps meet the criteria for critical steps and are identified with an asterisk (*).
8. Verify the procedure(s) referenced by this JPM reflects the current revision:
 Procedure BAP 1450-1, Access to Containment Rev: 39
 Procedure BAP 1450-T2, Containment Entry Checklist Rev: 35
 Procedure _____ Rev: _____
9. Verify cues both verbal and visual are free of conflict.
10. Verify performance time is accurate
11. If the JPM cannot be performed as written with proper responses, then revise the JPM.
12. When JPM is initially validated, sign and date JPM cover page. Subsequent validations, sign and date below:

SME / Instructor	Date
SME / Instructor	Date
SME / Instructor	Date

Revision Record (Summary)

Revision 4

- Changed to current format

INITIAL CONDITIONS

1. You are the WEC Supervisor.
2. Unit 1 has just failed 1BOSR 4.13.1-1, Reactor Coolant System Water Inventory Balance 72 Hour Surveillance, due to unidentified leakage of 2.2 gpm.
3. Reactor power is 100%, steady state.

INITIATING CUES

1. Two EO's (Jay Eby, Greg Ryan) and one RP Technician (Bob Ward) will be entering Unit 1 Containment to search for an RCS leak outside the missile barrier.
2. Jay Eby, ext 2473, is originating the Containment Entry Checklist, BAP 1450-T2.
3. The access control guard will be Steve Smith, a security guard.
4. They will spend up to 2 hours searching for the leak.
5. RP directs entry through the emergency hatch.
6. Complete the required form for the containment entry through the WEC Supervisor responsibilities.

Fill in the JPM Start Time when the student acknowledges the Initiating Cue.

.....

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

* Denotes critical steps.

Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section. The comment section should be used to document: the reason that a step is marked as unsatisfactory, marginal performance relating to management expectations, or problems the examinee had while performing the JPM. Comments relating to procedural or equipment issues should be entered and tracked using the site's appropriate tracking system.

Some operations that are performed from outside of the control room may require multiple steps. These items may be listed as individual steps in this JPM. It is acceptable for the candidate to direct the local operator to perform groups of procedure steps instead of calling for each individual item to be performed.

The timeclock starts when the candidate acknowledges the initiating cue.

.....

RECORD START TIME: _____

<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
EVALUATORS NOTE: The order of the steps are slightly different in the procedure and checklist.				
EVALUATORS NOTE: The examinee may elect to notify Radiation Protection of the intent to enter containment first in order to expedite the verification of sampling requirements.				
1. REFER to BAP 1450-1, Access to Containment, and BAP 1450-T2, Containment Entry Checklist Note: Provide the examinee with a copies of BAP 1450-1 and 1450-T2	LOCATE and OPEN: <ul style="list-style-type: none"> ◦ BAP 1450-1 ◦ BAP 1450-T2 			
2. Check Unit to be entered	On BAP 1450-T2: <ul style="list-style-type: none"> • Check Unit 1 			
3. Complete 'Originator' section of BAP 1450-T2 Cue: Two EO's and 1 RPT will enter CNMT. Cue: (From cue sheet) Estimated Duration is two hours	On BAP 1450-T2, ORIGINATOR section: <ul style="list-style-type: none"> • Originator's name (Jay Eby) • Originator's extension (2473) • Date of entry • Estimated entry duration 			
4. Complete 'Originator' section of BAP 1450-T2 - Reason Cue: (from cue sheet) Search for RCS leaks outside the missile barrier	On BAP 1450-T2: <ul style="list-style-type: none"> • Reason for entry 			

<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
<p>5. Have Radiation Protection complete their section of BAP 1450-T2</p> <p>Cue: Rad Protection has determine air samples are satisfactory.</p> <p>Cue: The ALARA brief has been completed and a Rad Tech will accompany the EO's.</p> <p>EVALUATOR'S NOTE: SIGN the approval blank AS Rad Protection</p>	<p>On BAP 1450-T2, RADIATION PROTECTION section:</p> <ul style="list-style-type: none"> • ATTEND ALARA briefing • GET Rad Prot Tech 			
<p>*6. Ensure MCR Turbine and Rx Panel placards are in place</p> <p>Cue: The "Do Not Change Power" placards are in place</p>	<ul style="list-style-type: none"> • Call MCR to PLACE "Do Not Change Power" placards 			
<p>7. Ensure NSO has is notified of Access Control Guard's name</p> <p>Cue: NSO has been told security guard's name.</p>	<ul style="list-style-type: none"> • NSO is notified of name of Access Control Guard 			
<p>*8. MIDs are tagged out</p> <p>Cue: The MIDs are parked at the bottom the vessel and are Tagged Out</p>	<ul style="list-style-type: none"> • MIDS are deenergized per OP-AA-109-101 and form is checked 			
<p>*9. For emergency hatch entry, initiate 1BOL PC-1</p> <p>Cue: 1BOL PC-1 is initiated</p>	<ul style="list-style-type: none"> • 1BOL PC-1 is required 			

<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
10. Turn on lights inside missile barrier if entering inside the missile barrier Cue: (from cue sheet) there will be no entry inside missile barrier	<ul style="list-style-type: none"> No Entry Inside the Missile Barrier (No Lights required) 			
*11. Sign WEC Supervisor Approval	<ul style="list-style-type: none"> Examinee signs WEC approval 			
CUE: The JPM is complete.				

RECORD STOP TIME: _____



JPM SUMMARY

Operator's Name: _____ **Job Title:** EO RO SRO FS
 STA/IA SRO Cert

JPM Title: Accessing Containment At Power

JPM Number: SA 4 (S-12) Revision Number: 4

Task Number and Title: S-AM-128 Authorize Containment Entry

K/A Number and Importance: 2.3.13 3.8

Suggested Testing Environment: Classroom

Alternate Path: Yes No SRO Only: Yes No Time Critical: Yes No

Reference(s):

BAP 1450-1, Access to Containment, Rev. 39

BAP 1450-T2, Containment Entry Checklist, Rev. 35

CRITICAL STEPS (*) 6, 8, 9 & 11

Actual Testing Environment: Simulator Control Room In-Plant Other

Testing Method: Simulate Perform

Estimated Time to Complete: 20 minutes **Actual Time Used:** _____ minutes

EVALUATION SUMMARY:

Were all the Critical Elements performed satisfactorily? Yes No

The operator's performance was evaluated against standards contained within this JPM and has been determined to be: Satisfactory Unsatisfactory

Comments: _____

Evaluator's Name: _____ (Print)

Evaluator's Signature: _____ **Date:** _____

INITIAL CONDITIONS

1. You are the WEC Supervisor.
2. Unit 1 has just failed 1BOSR 4.13.1-1, Reactor Coolant System Water Inventory Balance 72 Hour Surveillance, due to unidentified leakage of 2.2 gpm.
3. Reactor power is 100%, steady state.

INITIATING CUES

1. Two EO's (Jay Eby, Greg Ryan) and one RP Technician (Bob Ward) will be entering Unit 1 Containment to search for an RCS leak outside the missile barrier.
2. Jay Eby, ext 2473, is originating the Containment Entry Checklist, BAP 1450-T2.
3. The access control guard will be Steve Smith, a security guard.
4. They will spend up to 2 hours searching for the leak.
5. RP directs entry through the emergency hatch.
6. Complete the required form for the containment entry through the WEC Supervisor responsibilities.

Exelon Nuclear

Job Performance Measure

Classify Event and Fill Out a NARS Form (Earthquake)

JPM Number: SA 5 (S-19t)

Revision Number: 00

Date: 10/17/2008

Developed By:	<u>L.Sanders</u>	<u>10/17/2008</u>
	Instructor	Date
Validated By:	<u>Stephen Merrell (signature on file)</u>	<u>11/21/2008</u>
	EP Coordinator	Date
Reviewed By:	<u>Steve Godby(signature on file)</u>	<u>11/19/2008</u>
	Operations Representative	Date
Approved By:	<u>Robert N Meyer (signature on file)</u>	<u>11/24/2008</u>
	Training Department	Date

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

NOTE: All steps of this checklist should be performed upon initial validation. Prior to JPM usage, revalidate JPM using steps 8 and 12 below.

See File Copy

1. Task description and number, JPM description and number are identified.
2. Knowledge and Abilities (K/A) references are included.
3. Performance location specified. (in-plant, control room, simulator, or other)
4. Initial setup conditions are identified.
5. Initiating cue (and terminating cue if required) are properly identified.
6. Task standards identified and verified by SME review.
7. Critical steps meet the criteria for critical steps and are identified with an asterisk (*).
8. Verify the procedure(s) referenced by this JPM reflects the current revision:
 - EP-MW-114-100 (Rev 9), Midwest Region Offsite Notifications
 - EP-MW-114-100-F-01 (Rev. E) Nuclear Accident Reporting System (NARS) Form
 - EP-AA-1002 (Rev 26) Exelon Nuclear Radiological Emergency Plan Annex for Byron Station
9. Verify cues both verbal and visual are free of conflict.
10. Verify performance time is accurate
11. If the JPM cannot be performed as written with proper responses, then revise the JPM.
12. When JPM is initially validated, sign and date JPM cover page. Subsequent validations, sign and date below:

<u>See File Copy</u>	_____	_____
	SME / Instructor	Date
<u>Brian Clark</u>	_____	<u>10/18/08</u>
	SME / Instructor	Date
<u>Robert Peterson</u>	_____	<u>07/22/2010</u>
	SME / Instructor	Date

Revision Record (Summary)

Revision 00

- New JPM
- Validated by Clark/Sanders on 10/17/08.

SA 5 - rev 00

SIMULATOR SETUP INSTRUCTIONS

Applies only if this JPM is to be performed in the simulator.

1. Reset to IC-22

NOTE: It is okay to use a similar IC to the IC listed above, provided the IC actually used is verified to be compatible with this and other JPMs that are scheduled to be run concurrently.

2. imf pn1067 on
3. When the above steps are completed for this and other JPMs to be run concurrently then validate, if not previously validated, the concurrently run JPMs using the JPM Validation Checklist
4. This completes the setup for this JPM

INITIAL CONDITIONS

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

Deleted: 1

Deleted: 1

INITIATING CUE

1. Perform an Emergency Plan evaluation and fill out the NARS form for transmittal for the plant conditions provided
2. **This is a time critical JPM.**

PLANT CONDITIONS:

1. Unit 1 is at 100% power. Unit 2 is performing a Tech Spec Shutdown per 3.4.16 Action C.
2. [An Earthquake has occurred near the plant.](#)
3. [This has resulted in a loss of off-site power for both Units.](#)
4. [Annunciator 0-38-E5, "Accelerograph Accel High" is in alarm](#)
5. The National Earthquake Center reports it as a 0.3g seismic event.
6. [All of the Emergency Diesel Generators have started and are supplying their respective ESF 4kV buses.](#)
7. Dose Equivalent Iodine 131 activity is 250uci/gm.
8. OBE light is LIT.
9. 1AR020/21 indicate 5 R/hour.
10. No damage to SFP and level is normal.

Fill in the JPM Start Time when the student acknowledges the Initiating Cue.

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

* Denotes critical steps.

Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section. The comment section should be used to document: the reason that a step is marked as unsatisfactory, marginal performance relating to management expectations, or problems the examinee had while performing the JPM. Comments relating to procedural or equipment issues should be entered and tracked using the site's appropriate tracking system.

Some operations that are performed from outside of the control room may require multiple steps. These items may be listed as individual steps in this JPM. It is acceptable for the candidate to direct the local operator to perform groups of procedure steps instead of calling for each individual item to be performed.

The timeclock starts when the candidate acknowledges the initiating cue.

RECORD START TIME: _____

<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
<p><u>NOTE</u> The completion of Step 2 fulfills the critical time portion of this JPM. Provide <u>underlined cues</u> if JPM is not performed in the simulator.</p>				
<p>1. Refer to Exelon Nuclear – Radiological Emergency Plan Annex for Byron Station. Note: This step may be performed at any time</p>	<p>o Locate and Open, EP-AA-1002 Section 3, Classification of Emergencies</p>	_____	_____	_____
<p>*2. Classify the Event utilizing Section 3, Classification of Emergencies. Critical portion stop time _____</p>	<p>• Classify event as ALERT, from HA5 Seismic event > OBE and Confirmed</p>	_____	_____	_____
<p>Time from start to Classification = _____ minutes</p>	<p>$\phi \leq 15$ minutes</p>	_____	_____	_____
<p>3. Obtain NARS form, EP-MW-114-100-F-01, Nuclear Accident Reporting System (NARS). Note: Step 3 may be performed at any time</p>	<p>o Obtain NARS form.</p>	_____	_____	_____
<p><u>NOTE</u> Provide the examinee with a copy of the NARS form.</p>				

<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
4. Refer to EP-MW-114-100, MWROG Offsite Notifications, to complete NARS form. Note: Step 4 may be performed at any time	<ul style="list-style-type: none"> ◦ Locate and Open, EP-MW-114-100, MWROG Offsite Notifications, Section 4.1, to complete NARS form. 	_____	_____	_____
<p><u>NOTE</u></p> <p><u>Provide the examinee with Wind Speed and Wind Direction cues after examinee has demonstrated the ability to obtain the information from the computer or from the main control board.</u></p>				
*5. Fill out NARS form according to instructions, EP-MW-114-100, Section 4.1, Completing the NARS Form. Cue: <u>The wind direction on AM004 is 286°.</u> Cue: <u>The wind speed on AM001 is 16 meters/sec.</u> Cue: An SRO has provided a peer check and signed the "Verified With:" section.	<ul style="list-style-type: none"> • Fill out NARS form according to instructions, EP-MW-114-100, Section 4.1 Completing the NARS Form. • BLOCKS 2 thru 9 must be filled correctly to meet the critical portion of filling out the NARS form. (See attached KEY). ◦ Block 10 should be filled in "None" ◦ Verified with another SRO peer check 	_____	_____	_____
<p>CUE: The JPM is complete.</p>				

RECORD STOP TIME: _____



JPM SUMMARY

Operator's Name: _____ **Job Title:** EO RO SRO FS
 STA/IA SRO Cert

JPM Title: Classify Event and Fill Out a NARS Form Earthquake

JPM Number: S-19 Revision Number: 00

Task Number and Title: 8F.ZP-008 CLASSIFY/RECLASSIFY Emergency Action Levels

K/A Number and Importance: 2.4.41 4.6

Suggested Testing Environment: Simulator

Alternate Path: Yes No SRO Only: Yes No Time Critical: Yes No

Reference(s):

- EP-MW-114-100 (Rev 9), Midwest Region Offsite Notifications
- EP-MW-114-100-F-01 (Rev. E) Nuclear Accident Reporting System (NARS) Form
- EP-AA-1002 (Rev 26) Exelon Nuclear Radiological Emergency Plan Annex for Byron Station

CRITICAL STEPS (*) 2 & 5

Actual Testing Environment: Simulator Control Room In-Plant Other

Testing Method: Simulate Perform

Estimated Time to Complete: 20 minutes **Actual Time Used:** _____ minutes

EVALUATION SUMMARY:

Were all the Critical Elements performed satisfactorily? Yes No

The operator's performance was evaluated against standards contained within this JPM and has been determined to be: Satisfactory Unsatisfactory

Comments: _____

Evaluator's Name: _____ (Print)

Evaluator's Signature: _____ **Date:** _____

Nuclear Accident Reporting System (NARS) Form

UTILITY MESSAGE NO. 1 STATE MESSAGE NO. N/A

- 1. STATUS** **2. STATION**
- [A] ACTUAL [A] BRAIDWOOD [C] CLINTON [E] LASALLE [G] ZION
 [X] DRILL/EXERCISE [X] BYRON [D] DRESDEN [F] QUAD CITIES
- 3. ONSITE CONDITION** **4. ACCIDENT CLASSIFIED** **ACCIDENT TERMINATED**
- [A] UNUSUAL EVENT TIME (3[A-E]): NOW TIME (3[F]): N/A
 [X] ALERT DATE (3[A-E]): TODAY DATE (3[F]): N/A
 [C] SITE AREA EMERGENCY EAL#: HA5
 [D] GENERAL EMERGENCY
 [E] RECOVERY
 [F] TERMINATED
- 5. RELEASE STATUS** **6. TYPE OF RELEASE** **7. WIND DIR** **8. WIND SPEED**
- [X] NONE ← → [X] NOT APPLICABLE 286 [A] METERS/SEC.: 16
 [B] OCCURRING ← → [B] GASEOUS (DEGREES FROM) [B] MILES/HR.: N/A
 [C] TERMINATED ← → [C] LIQUID

- 9. RECOMMENDED ACTIONS**
- UTILITY RECOMMENDATION**
- [X] NONE (UE, Alert and SAE Only) _____ (GE Only) _____
- [B] SHELTER ILLINOIS SUB-AREAS: _____
 AND ADVISE REMAINDER OF THE EPZ TO MONITOR LOCAL RADIO STATIONS
- [C] SHELTER IOWA SUB-AREAS: _____
 AND ADVISE REMAINDER OF THE EPZ TO MONITOR LOCAL RADIO STATIONS
- [D] EVACUATE ILLINOIS SUB-AREAS: _____
 AND ADVISE REMAINDER OF THE EPZ TO MONITOR LOCAL RADIO STATIONS
- [E] EVACUATE IOWA SUB-AREAS: _____
 AND ADVISE REMAINDER OF THE EPZ TO MONITOR LOCAL RADIO STATIONS
- STATE RECOMMENDATION**
- [F] NONE _____
- [G] SHELTER SUB-AREAS: _____
- [H] EVACUATE SUB-AREAS: _____
- [I] RECOMMEND POTASSIUM IODIDE (KI) PER PROCEDURES _____
- [J] COMMENCE RETURN OF PUBLIC _____
- [K] OTHER _____

10. ADDITIONAL INFORMATION NONE

Verified With: <u>PEER CHECK</u>	Approved By: <u>NAME</u>
----------------------------------	--------------------------

- 11. TRANSMITTED BY:** NAME PHONE NUMBER TIME/DATE
- [A] EXELON: _____
- [B] STATE: _____
- [C] COUNTY: _____
- 12. RECEIVED BY:** NAME ORGANIZATION TIME/DATE

Braidwood
(UE, Alert, SAE, escalated GE(s),
Termination and Recovery)
NARS Code 20

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	Illinois REAC	<input type="checkbox"/>

(Only if NARS #1 is a GE)
NARS Code 38

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	# Grundy Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	# Kankakee Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	# Will County Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	Illinois REAC	<input type="checkbox"/>
<input type="checkbox"/>	Grundy Co. EMA	<input type="checkbox"/>
<input type="checkbox"/>	Kankakee Co. EOC	<input type="checkbox"/>
<input type="checkbox"/>	Will Co. EOC	<input type="checkbox"/>

ROLL CALL
Initial Roll Call Complete:

(time / date)

Clinton
(UE, Alert, Site Area and escalated
General Emergencies)
NARS Code 98

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	Illinois REAC	<input type="checkbox"/>

(Only if NARS #1 is a GE)
NARS Code 36

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	# DeWitt Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	Illinois REAC	<input type="checkbox"/>
<input type="checkbox"/>	DeWitt Co. EOC	<input type="checkbox"/>

LaSalle
(UE, Alert, SAE, escalated GE(s),
Termination and Recovery)
NARS Code 20

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	Illinois REAC	<input type="checkbox"/>

(Only if NARS #1 is a GE)
NARS Code 25

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	# Grundy Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	# LaSalle Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	Illinois REAC	<input type="checkbox"/>
<input type="checkbox"/>	Grundy Co. EMA	<input type="checkbox"/>
<input type="checkbox"/>	LaSalle Co. ESDA	<input type="checkbox"/>

Byron
(UE, Alert, SAE, escalated GE(s),
Termination and Recovery)
NARS Code 20

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	Illinois REAC	<input type="checkbox"/>

(Only if NARS #1 is a GE)
NARS Code 37

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	#-1 Ogle Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	#-1 Rochelle Police	<input type="checkbox"/>
<input type="checkbox"/>	Illinois REAC	<input type="checkbox"/>
<input type="checkbox"/>	Ogle Co. ESDA	<input type="checkbox"/>
<input type="checkbox"/>	Ogle Co. EOC	<input type="checkbox"/>

Dresden
(UE, Alert, SAE, escalated GE(s),
Termination and Recovery)
NARS Code 20

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	Illinois REAC	<input type="checkbox"/>

(Only if NARS #1 is a GE)
NARS Code 22

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	# Grundy Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	# Kendall Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	# Will County Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	Illinois REAC	<input type="checkbox"/>
<input type="checkbox"/>	Grundy Co. EMA	<input type="checkbox"/>
<input type="checkbox"/>	Kendall Co. EOC	<input type="checkbox"/>
<input type="checkbox"/>	Will Co. EOC	<input type="checkbox"/>

Quad Cities
(UE, Alert, SAE, escalated GE(s),
Termination and Recovery)
NARS Code 43

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	# Iowa EMD	<input type="checkbox"/>
<input type="checkbox"/>	Illinois REAC	<input type="checkbox"/>
<input type="checkbox"/>	Scott Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	Clinton Co. EOC	<input type="checkbox"/>
<input type="checkbox"/>	Scott Co. EOC	<input type="checkbox"/>

(Only if NARS #1 is a GE)
NARS Code 23

<u>Initial</u>		<u>Final</u>
<input type="checkbox"/>	# Illinois EMA	<input type="checkbox"/>
<input type="checkbox"/>	# Iowa EMD	<input type="checkbox"/>
<input type="checkbox"/>	# Clinton Co. EOC	<input type="checkbox"/>
<input type="checkbox"/>	# Rock Island Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	# Whiteside Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	# Scott Co. Sheriff	<input type="checkbox"/>
<input type="checkbox"/>	# Scott Co. EOC	<input type="checkbox"/>
<input type="checkbox"/>	Whiteside Co. ESDA	<input type="checkbox"/>
<input type="checkbox"/>	Rock Island ESDA	<input type="checkbox"/>
<input type="checkbox"/>	Illinois REAC	<input type="checkbox"/>

Commercial numbers:
IEMA 217-782-7860
(QC only)
Iowa EMD 515-281-3231

INITIAL CONDITIONS

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

Deleted: 1
Deleted: 1

INITIATING CUE

- 1. Perform an Emergency Plan evaluation and fill out the NARS form for transmittal for the plant conditions provided
- 2. **This is a time critical JPM.**

PLANT CONDITIONS:

- 1. Unit 1 is at 100% power. Unit 2 is performing a Tech Spec Shutdown per 3.4.16 Action C.
- 2. [An Earthquake has occurred near the plant.](#)
- 3. [This has resulted in a loss of off-site power for both Units.](#)
- 4. [Annunciator 0-38-E5, "Accelerograph Accel High" is in alarm](#)
- 5. The National Earthquake Center reports it as a 0.3g seismic event.
- 6. [All of the Emergency Diesel Generators have started and are supplying their respective ESF 4kV buses.](#)
- 7. Dose Equivalent Iodine 131 activity is 250uci/gm.
- 8. OBE light is LIT.
- 9. 1AR020/21 indicate 5 R/hour.
- 10. No damage to SFP and level is normal.