Limerick Generating Station

Job Performance Measure

DETERMINATION OF ADEQUATE SHIFT STAFFING

JPM Number: LLOJPM0712

Job Performance Measure (JPM)

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 through 11 below.

_____ 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, or simulator)

_____ 4. Initial setup conditions are identified.

_____ 5. Initiating and terminating cues 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 referenced by this JPM matches the most current revision of that procedure:
Procedure Rev. _____ Date _____

_____ 9. Pilot test the JPM:
a. verify cues both verbal and visual are free of conflict, and
b. ensure performance time is accurate.

_____ 10. If the JPM cannot be performed as written with proper responses, then revise the JPM.

_____ 11. When JPM is revalidated, SME or Instructor sign and date JPM cover page.

Job Performance Measure (JPM)

REVISION RECORD (SUMMARY)

New JPM

SIMULATOR SETUP INSTRUCTIONS:

None

INITIAL CONDITIONS:

- Unit 1 is in OPCON 1
- Unit 2 is in OPCON 4
- Today's date is 12/25
- It is night shift 18:00 – 06:00
- The entire shift has participated in a Christmas meal at @ 0000
- Initial shift staffing consists of: 1 Shift Manager, 3 Senior Reactor Operators, 3 Reactor Operators, and 11 Equipment Operators (5 Equipment Operators are Fire Brigade Qualified)

INITIATING CUES:

At 0130, the Unit 2 Reactor Operator and a Fire Brigade Qualified Equipment Operator complain of severe stomach pain/headache and are unable to perform operator duties.

Determine if staffing requirements for current operating modes are met.

- Include any immediate and long term (greater than 2 hours) corrective actions that are required to ensure adequate shift staffing is met.

TASK STANDARD:

Determine that shift is below minimum staffing requirements and take appropriate corrective action

Job Performance Measure (JPM)

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

* Denotes CRITICAL steps.

Number any comments in the "Comment Number" column. 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 and to document unsatisfactory performance relating to management expectations.

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.

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: ☐ NLO ☐ RO ☐ SRO ☐ STA ☐ SRO Cert

JPM Title: Determination of Adequate Shift Staffing

JPM Number: LLOJPM0712 **Revision Number:** 000

K/A Number and Importance: Generic 2.1.10 2.7 / 3.9

Suggested Testing Environment: Classroom

Actual Testing Environment: Classroom

Testing Method: Simulate **Faulted:** No

Alternate Path: No

Time Critical: No

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

References: OP-LG-101-111, SHIFT STAFFING REQUIREMENTS
TECHNICAL SPECIFICATIONS
Technical Specifications and TRM Section 6.2.2 for Unit 1 and Unit 2

EVALUATION SUMMARY:
Were all the Critical Elements performed satisfactorily? ☐ **Yes** ☐ **No**

The operator's performance was evaluated against the standards contained in this JPM, and has been determined to be: ☐ **Satisfactory** ☐ **Unsatisfactory**

Comments: _____
_____
_____
_____
_____
_____

Evaluator's Name: _____(Print)

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

JPM Start Time: _____

ELEMENT	STANDARD	SAT	UNSAT	Comment Number
1. Obtain OP-LG-101-111, and/or Tech Specs to determine shift staffing requirements (Cue: If requested, provide copy of OP-LG-101-111 AND/OR candidate may also use Tech Specs to determine minimum shift staffing requirements)	OP-LG-101-111 or Tech Specs are obtained			
2. Determine that shift staffing is in violation of minimum shift staffing requirements per OP-LG-101-111 and Tech Specs.	N/A			
*2a. **RO** position is not adequately filled, additionally Unit 2 must be staffed with an RO	Determination made that: RO staffing is not adequately filled per OP-LG-101-111 and Tech Spec (Minimum required staffing is 3) RO is required at the Unit 2 Controls			
*2b. **Fire Brigade** position is not adequately filled	Determination made that Fire Brigade position is not adequately filled per OP-LG-101-111 and TRM (Minimum required staffing is 5)			
3. Determine action necessary IAW current shift manning.	N/A			
*3a. OP-LG-101-111 Step 4.1.1.4 states except for Shift Manager, shift crew composition may be one less than minimum requirements for up to 2 hours. With 1 RO unable to perform duties, the shift is below minimum requirements, and Unit 2 must be staffed with an RO	Determination made that action must be taken to restore the crew composition for the RO position within 2 hours			

ELEMENT	STANDARD	SAT	UNSAT	Comment Number
*3a. OP-LG-101-111 Step 4.1.2.3 states the fire brigades may be less than the minimum requirements for a period not to exceed 2 hrs With 1 Fire Brigade qualified EO unable to perform duties the shift is below minimum requirements	Determination made that action must be taken to restore the crew composition for the Fire Brigade within 2 hours			
4. Take action to restore minimum shift staffing				
*4a.Take action to restore minimum shift staffing for RO	Perform operator call-in to get RO position manned within 2 hours Have PRO replace Unit 2 RO until replacement arrives			
*4b.Take action to restore minimum shift staffing for Fire Brigade	Perform operator call-in to get Fire Brigade qualified EO manned within 2 hours			
5. Record shift staffing position changes in Operator Log, per OP-AA-111-101	Changes in shift staffing recorded in Operator Logs			
6. Deviations from Administrative Controls per Tech Specs, for shift staffing must be reported to Shift Manager (CUE: "You may stop here, you have met the termination criteria for this JPM")	Shift Manager or higher notified that shift is below minimum shift staffing level			

JPM Stop Time: _____

INITIAL CONDITIONS:

- Unit 1 is in OPCON 1
- Unit 2 is in OPCON 4
- Today's date is 12/25
- It is night shift 18:00 – 06:00
- The entire shift has participated in a Christmas meal at @ 0000
- Initial shift staffing consists of: 1 Shift Manager, 3 Senior Reactor Operators, 3 Reactor Operators, and 11 Equipment Operators (5 Equipment Operators are Fire Brigade Qualified)

INITIATING CUES:

At 0130, the Unit 2 Reactor Operator and a Fire Brigade Qualified Equipment Operator complain of severe stomach pain/headache and are unable to perform operator duties.

Determine if staffing requirements for current operating modes are met.

- Include any immediate and long term (greater than 2 hours) corrective actions that are required to ensure adequate shift staffing is met.

Limerick Generating Station

Job Performance Measure

Administrative Actions on a Thermal Limit Violation

JPM Number: LLOJPM0714

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 through 11 below.

_____ 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, or simulator)

_____ 4. Initial setup conditions are identified.

_____ 5. Initiating and terminating cues 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 referenced by this JPM matches the most current revision of that procedure:
Procedure Rev. _____ Date _____

_____ 9. Pilot test the JPM:
a. verify cues both verbal and visual are free of conflict, and
b. ensure performance time is accurate.

_____ 10. If the JPM cannot be performed as written with proper responses, then revise the JPM.

_____ 11. When JPM is revalidated, SME or Instructor sign and date JPM cover page.

REVISION RECORD (Summary):

None

CLASSROOM SETUP INSTRUCTIONS:

This JPM should be conducted in a Station Library, with the following resources available:

- General Plant Procedures
- ON/OTs
- Unit 1 Technical Specifications

TASK STANDARD:

Satisfactory task completion is indicated:

- The candidate identifies the need for a power reduction using control rods only, in accordance with the approved procedure, until FLLLP is less than 1.0

TASK CONDITIONS:

1. Reactor power is currently stable at 99.7%.

2. During the previous shift, Reactor Engineering and Ops Management had authorized a Reactor power ascension using control rods and recirc flow.

3. Reactor power was raised from 90% following a slight rod pattern adjustment.

4. Shift turnover has been completed, all required log entries have been completed and you have assumed shift duties.

5. The official 3D Monicore Periodic Log (P1) is being run at this time to assess the recently completed Reactor power ascension.

   a. The Plant Monitoring System (PMS) is operable.

   b. 3D Monicore (3DM) is OPERABLE.

   c. **No** PMS **OR** software testing is in progress.

   d. The P-1 edit is **not** known to be invalid.

INITIATING CUE

You are directed to review the official 3D Monicore Periodic Log (P1),to perform the following:

- Ensure Reactor core limits have been controlled during the recent power ascension
- IF any Reactor core limit is not in compliance:
  - Identify and enter the appropriate procedure(s)
  - Perform the required actions for the entered procedure(s)

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

* Denotes CRITICAL steps.

Number any comments in the "Comment Number" column. 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 and to document unsatisfactory performance relating to management expectations.

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.

Operator's Name: _____
Job Title: ☐ NLO ☐ RO ☐ SRO ☐ STA ☐ SRO Cert

JPM Title: Administrative Actions on a Thermal Limit Violation

JPM Number: LLOJPM0714 **Revision Number:** 000

K/A Number and Importance: 295014 AA2.04 4.1 / 4.4

Suggested Testing Environment: Classroom

Actual Testing Environment: Classroom

Testing Method: Simulate **Faulted:** No

Alternate Path: No

Time Critical: No

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

References: GP-5, STEADY STATE OPERATIONS
GP-14, RESOLUTION OF THERMAL LIMITS VIOLATION

EVALUATION SUMMARY:

Were all the Critical Elements performed satisfactorily? ☐ Yes ☐ No

The operator's performance was evaluated against the standards contained in this JPM, and has been determined to be: ☐ **Satisfactory** ☐ **Unsatisfactory**

Comments:_____
_____
_____
_____
_____
_____

Note: Any grade of UNSAT requires a comment.

Evaluator's Name: _____(Print)

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

JOB PERFORMANCE MEASURE (JPM)

NOTE: Critical Element(s) indicated by * in Performance Checklist.

PERFORMANCE CHECKLIST:

JPM Start Time _____

ELEMENT	STANDARD	SAT	UNSAT	Comment Number
CUE: P rovide the student with a 3D Monicore Periodic Log (P1).	N/A			
Note The out of limit parameter for this JPM is the Fraction of Limiting Load Line Power (FLLLP). Please note that this is **NOT** a Thermal Limit as specified in Technical Specifications. However, per GP-14, Resolution of Thermal Limit Violations, FLLLP is to be treated as a Thermal Limit.				
*1. Review the official 3D Monicore Periodic Log (P1) to ensure core Thermal Limits and FLLLP are acceptable.	Observe core FLLLP has exceeded the specified limit, and all other core parameters are within their specified limits.			

JOB PERFORMANCE MEASURE (JPM)

ELEMENT	STANDARD	SAT	UNSAT	Comment Number
*2. Communicate the condition of the core as indicated on the 3D Monicore Periodic Log (P1). **CUE:** provide repeat back of identified conditions.	States the following concerning the condition of the core: • The core FLLLP has exceeded the specified limit. • All other core parameters are within their specified limits.			
*3. Determine GP-14 must be entered and obtain a copy and enter GP-14.	Reviews GP-14 prerequisites. Reviews procedure **"NOTE"** prior to step 3.1 of GP-14.			
4. Make immediate notification of core conditions. **CUE:** Provide repeat back of information	Immediately inform the following of the FLLLP violation: • Shift Management • Reactor Engineers			
*5. Determine a Reactor power reduction using <u>control rods only</u> AND RMSI is required until FLLLP is less than 1.000 **CUE:** Provide repeat back of information **CUE:** You have met the termination point for this JPM.	Inform Shift Management: • Reactor power reduction using <u>control rods only</u> AND RMSI is required until FLLLP is less than 1.000			

JPM Stop Time _____

ASK CONDITIONS:

1. Reactor power is currently stable at 99.7%.

2. During the previous shift, Reactor Engineering and Ops Management had authorized a Reactor power ascension using control rods and recirc flow.

3. Reactor power was raised from 90% following a slight rod pattern adjustment.

4. Shift turnover has been completed, all required log entries have been completed and you have assumed shift duties.

6. The official 3D Monicore Periodic Log (P1) is being run at this time to assess the recently completed Reactor power ascension.

   a. The Plant Monitoring System (PMS) is operable.

   b. 3D Monicore (3DM) is OPERABLE.

   c. **No** PMS **OR** software testing is in progress.

   d. The P-1 edit is **not** known to be invalid.

INITIATING CUE

You are directed to review the official 3D Monicore Periodic Log (P1),to perform the following:

- Ensure Reactor core limits have been controlled during the recent power ascension
- IF any Reactor core limit is not in compliance:
  - Identify and enter the appropriate procedure(s)
  - Perform the required actions for the entered procedure(s)

Limerick Generating Station

Job Performance Measure

REVIEW / CONTINUE PERFORMANCE OF MAIN TURBINE BYPASS VALVE EXERCISING SURVEILLANCE TEST

JPM Number: LLOJPM0713

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 through 11 below.

_____ 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, or simulator)

_____ 4. Initial setup conditions are identified.

_____ 5. Initiating and terminating cues 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 referenced by this JPM matches the most current revision of that procedure:
Procedure Rev. _____ Date _____

_____ 9. Pilot test the JPM:
a. verify cues both verbal and visual are free of conflict, and
b. ensure performance time is accurate.

_____ 10. If the JPM cannot be performed as written with proper responses, then revise the JPM.

_____ 11. When JPM is revalidated, SME or Instructor sign and date JPM cover page.

Revision Record (Summary):

1. New JPM.

SIMULATOR SETUP INSTRUCTIONS:

None

TASK STANDARD:

1. Determine that Reactor power must be reduced to raise MCPR above the limit with Main Turbine BPV's inoperable.
2. SRO's determine that operation may continue at reduced power per the action of Tech Spec 3.2.3.b.

TASK CONDITIONS:

1. Unit 1 is at 100% power.
2. All required equipment is OPERABLE.
3. ST-6-001-761-1, Main Turbine Bypass Valve Exercising ST was started but not completed on the previous shift.
4. ST-6-001-761-1 is partially complete to step 4.3.4 and is to be completed on the current shift.
5. Current Cycle Exposure is < EOR - 4829 MWd/ST as directed by Reactor Engineering
6. Tech Spec 3.2.2 statement C has NOT been satisfied

INITIATING CUE:

You are directed to review and continue with the performance of ST-6-001-761-1 at step 4.3.5. up to completion of section 4.3.

ROs are not responsible to complete steps labeled 'SSV"

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

* Denotes CRITICAL steps.

Number any comments in the "Comment Number" column. 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 and to document unsatisfactory performance relating to management expectations.

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.

Operator's Name: _____
Job Title: ☐ NLO ☐ RO ☐ SRO ☐ STA ☐ SRO Cert

JPM Title: REVIEW / CONTINUE PERFORMANCE OF MAIN TURBINE BYPASS VALVE EXERCISING SURVEILLANCE TEST

JPM Number: LLOJPM0713 **Revision Number:** 000

K/A Number and Importance: Generic 2.2.12 3.0 / 3.4

Suggested Testing Environment: Classroom

Actual Testing Environment: Classroom

Testing Method: Simulate **Faulted:** No

Alternate Path: No

Time Critical: No

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

References: ST-6-001-761-1, MAIN TURBINE BYPASS VALVE EXERCISING

EVALUATION SUMMARY:
Were all the Critical Elements performed satisfactorily? ☐ Yes ☐ No

The operator's performance was evaluated against the standards contained in this JPM, and has been determined to be: ☐ **Satisfactory** ☐ **Unsatisfactory**

Comments:_____
_____
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_____

Note: Any grade of UNSAT requires a comment.

Evaluator's Name: _____(Print)

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

JOB PERFORMANCE MEASURE (JPM)

NOTE: Critical Element(s) indicated by * in Performance Checklist.

PERFORMANCE CHECKLIST:

JPM Start Time _____

	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
1.	**PROVIDE** candidate a marked up copy of ST-6-001-761-1.	N/A			
2.	**ELVALUATE** number of BPV's that are inoperable.	3 of the BPV's did not open fully and are determined to be inoperable.			
*3.	**DETERMINE** that the number of OPERABLE BPV's is less than the number required by COLR Table 7-2.	Determine that **6 OPERABLE BPV's** is less than **COLR Table 7-2** requirement of **7**			
4.	**COMPLETE** Attachment 2 to determine the applicable OLMCPR	Attachment 2 completed			
4a.	**RECORD** number of reactor recirculation pumps loops currently in operation	Number of Recirc loops currently in operation = 2 recorded			
4b.	**RECORD** value of τ	τ = 1 (conservative) recorded			
4c.	**VERIFY RPT** breakers are operational	RPT verified operational (information provided in Initiating Cue)			
4c.	**CHECK** appropriate box for EOR	Box for <EOR – 4829 MWd/ST checked (information provided in Initiating Cue)			
*4d.	**DETERMINE** the applicable OLMCPR.	The applicable OLMCPR is determined to be **1.33**			

ELEMENT	STANDARD	SAT	UNSAT	Comment Number
*5. **RECORD** the applicable OLMCPR limit as determined in step 1.e of Attachment 2.	The **OLMCPR limit = 1.33** is recorded.			
6. **REQUEST** a P-1. **CUE:** If asked, provide a copy of a P-1 printout to the candidate	P-1 is requested.			
*7. **RECORD** current value of "CORRECTION FACTOR: MFLCPR" from P-1 requested.	**CORRECTION FACTOR: MFLCPR =1.000** from P-1 is recorded.			
*8. **RECORD** current value of MCPR from P-1 requested.	**MCPR = 1.29** from P-1 is recorded.			
9. **DETERMINE** current value of MCPR LIMIT per step 4.3.5.6	**MCPR LIMIT = 1.33** per step 4.3.5.6 recorded			
*10. **IF** MCPR recorded in step 4.3.5.5 is less than or equal to MCPR LIMIT recorded in step 4.3.5.6, **THEN REDUCE** Rx power in accordance with RMSI **AND** GP-5 Appendix 2, Section 3.1 to achieve a MCPR greater than the MCPR LIMIT.	A determination is made that **MCPR value of 1.29 is less than MCPT LIMIT of 1.33** and that a reduction in Rx power is required until MCPR is greater than the MCPR LIMIT.			
11. Immediately **NOTIFY** Reactor Engineering to change the MCPR limit in the process computer based on inoperable main turbine bypass valves.	Reactor Engineering is notified to change MCPR limit in process computer to **1.33**			

ELEMENT	STANDARD	SAT	UNSAT	Comment Number
NOTE: This is the termination point for RO's. The remaining portion of this JPM is "SRO ONLY". CUE: You have reached the termination point for the JPM.				
*12. **IF** less than 4 BPV's are operable, **THEN CONTACT** Reactor Engineering immediately. Otherwise **ENTER** N/A for this step.	6 BPV's are determined to be OPERABLE. N/A is entered.			
*13. **IF** the EOC-RPT trip system is inoperable per Tech Spec 3.3.4.2 **AND** the main turbine bypass system is inoperable per Tech Spec 3.7.8 **AND** reactor power is ≥25%, **THEN** MCPR is UNANALYZED **AND** the Tech Spec actions required by Tech Spec 3.2.3.b must be followed. Otherwise **ENTER** N/A for this step. CUE: You have reached the termination point for the JPM.	The EOC-RPT trip system is OPERABLE. N/A is entered. Operation may continue at a reduced power level.			

JPM Stop Time _____

TASK CONDITIONS:

1. Unit 1 is at 100% power.
2. All required equipment is OPERABLE.
3. ST-6-001-761-1, Main Turbine Bypass Valve Exercising ST was started but not completed on the previous shift.
4. ST-6-001-761-1 is partially complete to step 4.3.4 and is to be completed on the current shift.
5. Current Cycle Exposure is < EOR - 4829 MWd/ST as directed by Reactor Engineering
6. Tech Spec 3.2.2 statement C has NOT been satisfied

INITIATING CUE:

You are directed to review and continue with the performance of ST-6-001-761-1 at step 4.3.5. up to completion of section 4.3

ROs are not responsible to complete steps labeled 'SSV"

Limerick Generating Station

Job Performance Measure

CALCULATE STAY TIME

JPM Number: LLOJPM0716

Job Performance Measure (JPM)

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 through 11 below.

_____ 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, or simulator)

_____ 4. Initial setup conditions are identified.

_____ 5. Initiating and terminating cues 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 referenced by this JPM matches the most current revision of that procedure:
Procedure Rev. _____ Date _____

_____ 9. Pilot test the JPM:
a. verify cues both verbal and visual are free of conflict, and
b. ensure performance time is accurate.

_____ 10. If the JPM cannot be performed as written with proper responses, then revise the JPM.

_____ 11. When JPM is revalidated, SME or Instructor sign and date JPM cover page.

Job Performance Measure (JPM)

REVISION RECORD (SUMMARY)

New JPM

SIMULATOR SETUP INSTRUCTIONS:

None

INITIAL CONDITIONS:

- Unit 1 is in OPCON 1
- Work is being performed in the Unit 1 Main Steam Chase
- Two workers are performing the work
- During the initial entry the workers Maximum Stay Time was reached and the electronic dosimeter accumulated dose set point was **not** reached
- Additional high radiation exposure controls are required
- Workers have been removed from the Radiation Area until new stay times have been calculated
- The Effective Dose Rate for the entry was determined to be 400 mrem/hr per RP-AA-460-1001 step 4.4.4.B
- Job conditions and information are as follows:
    - Dose Rate Alarms on their Electronic Dosimeter for both workers: 600 mrem/hr
    - Accumulated Dose Alarms on their Electronic Dosimeter for both workers: 1200 mrem
    - RWP Approval Dose Alarm for both workers: 1200 mrem
    - Stop Work Dose Rate for both workers: 600 mrem/hr
    - Worker 1 has 900 mrem accumulated dose on his Electronic Dosimeter from his first entry
    - Worker 2 has 600 mrem accumulated dose on his Electronic Dosimeter from his first entry
    - 1.5 man-hrs are required to finish the work
    - Time required to enter: 5 minutes
    - Time required to exit: 5 minutes
    - Work is to be performed in the Unit 1 Main Steam Chase against the Containment Wall

INITIATING CUES:

Use RP-AA-460-1001, "Additional High Radiation Exposure Controls and survey map to determine:

1. New Maximum Stay Times (Worst Case) to reach the Electronic Dosimeter accumulated dose alarms for worker 1 and worker 2.
2. If the workers can finish the work without receiving accumulated dose alarms.

TASK STANDARD:

Calculate stay time for workers 1 and 2 until electronic dosimeter accumulated dose alarms set point is reached, and that work can be finished in the allotted time.

Job Performance Measure (JPM)

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

* Denotes CRITICAL steps.

Number any comments in the "Comment Number" column. 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 and to document unsatisfactory performance relating to management expectations.

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.

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: ☐ NLO ☐ RO ☐ SRO ☐ STA ☐ SRO Cert

JPM Title: Calculate Stay Time

JPM Number: LLOJPM0716 Revision Number: 000

K/A Number and Importance: Generic 2.3.10

Suggested Testing Environment: Simulator

Actual Testing Environment: Simulator

Testing Method: Simulate **Faulted:** No

Alternate Path: No

Time Critical: No

Estimated Time to Complete: 30 minutes **Actual Time Used:** ____minutes

References:

EVALUATION SUMMARY:

Were all the Critical Elements performed satisfactorily? ☐ Yes ☐ No

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

Comments:_____

_____

_____

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_____

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_____

Evaluator's Name: _____(Print)

Evaluator's Signature: _____ Date: _____

Job Performance Measure (JPM)

JPM Start Time: _____

ELEMENT	STANDARD	SAT	UNSAT	Comment Number
(Cue: Provide copy of RP-AA-460-1001 and survey map)	N/A			
1. Determine new Maximum Stay Time for the required entry	N/A			
2. For worker 1:				
*2.a Determine remaining margin to the electronic dosimeter accumulated does alarm setpoint by subtracting accumulated dose of 900 mr from accumulated dose alarm of 1200 mr to get remaining dose until alarm	Accum - Accum = Remain Dose Dose Dose Alarm Alarm 1200 mr – 900 mr = 300 mr			
*2.b Divide remaining margin to alarm by the effective Dose Rate in work area to get Maximum Stay Time (Worst Case)	Remain / Effective = Max Margin Dose Stay Alarm Rate Time 300mr / 400 mr/hr = .75 hrs			
2.c Subtract entry and exit time of 10 minutes (5 minutes+5 minutes) from the Maximum Stay Time	Max - Entry = Max Stay Exit Allow Time Time Time 45 min - 10 min = 35 min			
3. For worker 2:				
*3.a Determine remaining margin to the electronic dosimeter accumulated does alarm setpoint Subtract accumulated dose of 600 mr from accumulated dose alarm of 1200 mr to get remaining dose until alarm	Accum - Accum = Remain Dose Dose Dose Alarm Alarm 1200 mr – 600 mr = 600 mr			
*3.b Divide remaining margin to alarm by the effective Dose Rate in work area to get Maximum Stay Time (Worst Case)	Remain / Effective = Max Margin Dose Stay Alarm Rate Time 600mr / 400 mr/hr = 1.5 hrs			

Job Performance Measure (JPM)

ELEMENT	STANDARD	SAT	UNSAT	Comment Number
3.c Subtract entry and exit time of 10 minutes (5 minutes+5 minutes) from the Maximum Stay Time	Max - Entry = Max Stay Exit Allow Time Time Time 90 min - 10 min = 80 min			
4. Calculate if man-hrs are exceeded:				
4.a Add worker 1 Maximum Stay Time of 35 minutes to worker 2 Maximum Stay Time of 80 minutes	Worker + Worker = Total 1 Stay 2 Stay Stay Time Time Time 35 min + 80 min = 115 min			
*4.b Determine work can be competed due to combined stay time greater than the required 1.5 man-hrs	Determine work can be completed			
(CUE: "You may stop here, you have met the termination criteria for this JPM")	N/A			

JPM Stop Time: _____

INITIAL CONDITIONS:

- Unit 1 is in OPCON 1
- Work is being performed in the Unit 1 Main Steam Chase
- Two workers are performing the work
- During the initial entry the workers Maximum Stay Time was reached and the electronic dosimeter accumulated dose set point was **not** reached
- Additional high radiation exposure controls are required
- Workers have been removed from the Radiation Area until new stay times have been calculated
- The Effective Dose Rate for the entry was determined to be 400 mrem/hr per RP-AA-460-1001 step 4.4.4.B
- Job conditions and information are as follows:

    - Dose Rate Alarms on their Electronic Dosimeter for both workers: 600 mrem/hr
    - Accumulated Dose Alarms on their Electronic Dosimeter for both workers: 1200 mrem
    - RWP Approval Dose Alarm for both workers: 1200 mrem
    - Stop Work Dose Rate for both workers: 600 mrem/hr
    - Worker 1 has 900 mrem accumulated dose on his Electronic Dosimeter from his first entry
    - Worker 2 has 600 mrem accumulated dose on his Electronic Dosimeter from his first entry
    - 1.5 man-hrs are required to finish the work
    - Time required to enter: 5 minutes
    - Time required to exit: 5 minutes
    - Work is to be performed in the Unit 1 Main Steam Chase against the Containment Wall

INITIATING CUES:

Use RP-AA-460-1001, "Additional High Radiation Exposure Controls and survey map to determine:

3. New Maximum Stay Times (Worst Case) to reach the Electronic Dosimeter accumulated dose alarms for worker 1 and worker 2.
4. If the workers can finish the work without receiving accumulated dose alarms.

ARW SURVEY FORM

PBAPS (LGS) OTHER (circle one) Page 1 of 1

RWP NO. 04-52 DATE: 12/24/04 TIME: 0900 SURVEY NO: 04-258

LOCATION: UNIT # 1 BLDG. RX ELEV. 279 AREA/LOCATION Main Steam Chase
(i.e. room name/number)

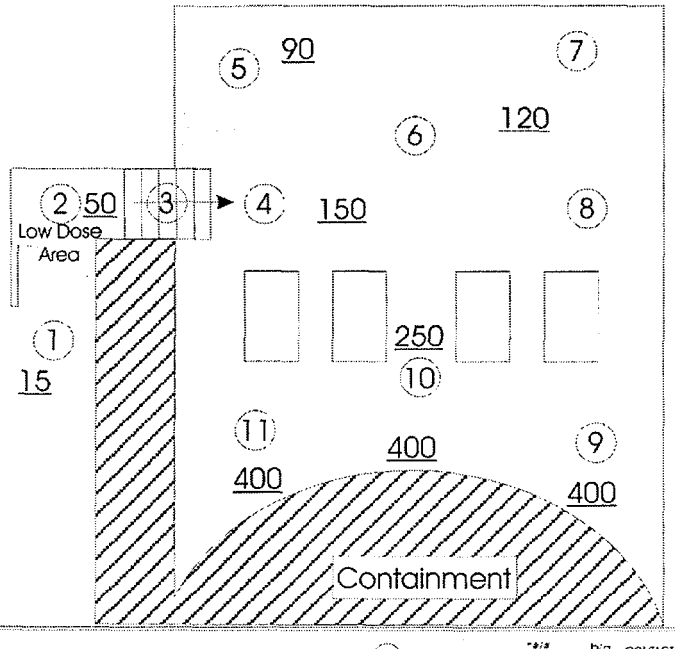
WORK DESCRIPTION: Valve work in Main Steam Chase
(Task being performed, work order #, etc.)

SURVEYED BY: Joe Tech / JBT (Print Name / Initials) ARW SUPERVISOR: Art Star (Supv of arw performing survey) HP NOTIFIED: Phil Heart (Name)

INSTRUMENT	SERIAL NO.	CAL DUE VALID YES	CAL DUE VALID NO	INSTRUMENT	SERIAL NO.	CAL DUE VALID YES	CAL DUE VALID NO
RO2A	33-3333	X		RM-14	33-4444	X	

RADIATION

ITEM/LOCATION	BETA mrad/hr	GAMMA mr/hr	DISTANCE (circle one)
Work Area	N/A	400	Cont. / 30 cm / GA.
Low Dose Area	N/A	50	Cont. / 30 cm / GA.
			Cont. / 30 cm / GA.
			Cont. / 30 cm / GA.
			Cont. / 30 cm / GA.
			Cont. / 30 cm / GA.
			Cont. / 30 cm / GA.



Contamination

SMEAR#	ITEM/LOCATION	DPM/100CM²
1	Floor	<1k
2	Floor	<1k
3	Steps	<1k
4	Floor	<1k
5	Floor	<1k
6	Floor	<1k
7	Floor	<1k
8	Floor	<1k
9	Floor	<1k
10	Floor	<1k
11	Floor	<1k
12		
13		
14		
15		

1. X-X-X=TAPE AND ROPE 2. XXXXX=ROPED AREA 3. (#) = SMEAR 4. "#/# b/g CONTACT #/# b/g @ 30 cm 5. "#/# b/g CONTACT 6. # N = NEUTRON

All dose rates in mr/hr unless otherwise noted

REMARKS: Survey in support of valve work in Main Steam Chase near Containment Wall, Remote Monitoring required for workers.

REVIEWED BY: Joe Joo DATE: 12/24/04

Limerick Generating Station

Job Performance Measure

FIRE ALARM IN INVERTOR ROOM

JPM Number: LLOJPM0715

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 through 11 below.

_____ 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, or simulator)

_____ 4. Initial setup conditions are identified.

_____ 5. Initiating and terminating cues 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 referenced by this JPM matches the most current revision of that procedure:
Procedure Rev. _____ Date _____

_____ 9. Pilot test the JPM:
a. verify cues both verbal and visual are free of conflict, and
b. ensure performance time is accurate.

_____ 10. If the JPM cannot be performed as written with proper responses, then revise the JPM.

_____ 11. When JPM is revalidated, SME or Instructor sign and date JPM cover page.

REVISION RECORD (Summary):

1. New JPM.

SIMULATOR SETUP INSTRUCTIONS:

None

TASK STANDARD:

1. Dispatch the Fire Brigade
2. Evacuate the #1 Inverter Room
3. Identify 1FSSG-3020 as the correct Fire Safe Shutdown Guide

TASK CONDITIONS:

Unit 1 is at 100% power.

INITIATING CUE:

This JPM is to be conducted as a "DRILL".

The following is observed in the MCR:

- Audible Fire Alarm Code 5-2-4 is alarming
- CONT EL 254 INVERT RM I (006 FIRE I-3-L) Annunciator is in alarm

You are directed by Shift Supervision to respond to the above alarm as the PRO

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

* Denotes CRITICAL steps.

Number any comments in the "Comment Number" column. 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 and to document unsatisfactory performance relating to management expectations.

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.

Operator's Name: _____
Job Title: ☐ NLO ☐ RO ☐ SRO ☐ STA ☐ SRO Cert

JPM Title: FIRE ALARM IN INVERTOR ROOM

JPM Number: LLOJPM0715 **Revision Number:** 000

K/A Number and Importance: Generic 2.4.27 3.0 / 3.5

Suggested Testing Environment: Classroom

Actual Testing Environment: Classroom

Testing Method: Simulate **Faulted:** No

Alternate Path: No **Time Critical:** No

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

References: CONT EL 254 INVERT RM I (006 FIRE I-3-L)
SE-8 Fire
SE-24
E" Crew Day Shift People Paper
FSSA-3000 Sheets 1 through 10

EVALUATION SUMMARY:
Were all the Critical Elements performed satisfactorily? ☐ Yes ☐ No

The operator's performance was evaluated against the standards contained in this JPM, and has been determined to be: ☐ **Satisfactory** ☐ **Unsatisfactory**

Comments:_____
_____
_____
_____
_____
_____
Note: Any grade of UNSAT requires a comment.

Evaluator's Name: _____(Print)

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

JOB PERFORMANCE MEASURE (JPM)

NOTE: Critical Element(s) indicated by * in Performance Checklist.

PERFORMANCE CHECKLIST:

JPM Start Time _____

ELEMENT	STANDARD	SAT	UNSAT	Comment Number
NOTE: This JPM is designed to be conducted in a classroom setting. Required documents are provided by the evaluator as scripted or requested by the candidate: • ARC 006 FIRE I-3-L • SE-8 FIRE • SE-24 • SE-24, APP 1 • "E" Crew Day Shift People Paper • FSSA-3000 Sheets 1 through 10 If the JPM is conducted in Simulator setting, student should obtain copies of required documents without assistance.				
1. **OBTAIN** copy of ARC 006 FIRE I-3-L CUE: When requested, provide copy of ARC 006 FIRE I-3-L	Copy of ARC 006 FIRE I-3-L obtained.			
2. **OBTAIN** a copy of the most recent revision of SE-8, FIRE CUE: When requested, provide copy of SE-8, FIRE	Copy of the most recent revision of SE-8 obtained.			
3. **OBTAIN** a copy of the most recent revision of: • SE-24 • SE-24, APP 1 CUE: When requested, provide copy of SE-24 INPLANT EVACUATIONS	Copy of the most recent revision of SE-24, including Appendix 1, obtained.			

JOB PERFORMANCE MEASURE (JPM)

ELEMENT	STANDARD	SAT	UNSAT	Comment Number
*4. **DISPATCH** Fire Brigade Leader to investigate the fire alarm. **CUE:** After Fire Brigade leader is dispatched: REPORT: This is Mark Coleman, Fire Brigade Leader. I am responding to the fire alarm code 5-2-4, Elev. 254 Control Enclosure Inverter Room #I.	The Fire Brigade leader is dispatched to investigate the fire alarm. **NOTE:** SE-8 gives specific direction to dispatch **only** the Fire Brigade **Leader** when the sole indication of the fire is the area fire alarm. The candidate may dispatch the Fire Brigade Leader by radio or plant page separately or as part of the local area evacuation below. The candidate may also dispatch the **entire** Fire Brigade **because** this is directed in the ARC. This would also satisfy the standard.			
*5. **EVACUATE** local area per SE-24 CUE: If candidate requests determination of assembly area: "The CRS directs use of the HP field office." CUE: After the candidate makes the local area evacuation, report back as Mark Coleman, fire brigade leader, "There is a fire in Inverter Room #1. Smoke is coming out from under the door and the door is hot to the touch."	Simulate using plant PA and plant radio to make announcement including the following general information (SE-24 App 1): "This is a drill. Fire alarm code 5-2-4 has been annunciated in Elev. 254 Control Enclosure Inverter Room I. Fire Brigade Leader respond. All personnel evacuate the Elev. 254 Control Enclosure Inverter Room I and assemble at the HP field office. This is a drill"			
*6. **ACTIVATE** the Fire Brigade. CUE: If the Fire Brigade Leader is requested to make a recommendation on activation of the Fire Brigade respond, "Recommend activating the Fire Brigade".	The Fire Brigade is activated.			

JOB PERFORMANCE MEASURE (JPM)

ELEMENT	STANDARD	SAT	UNSAT	Comment Number
7. **ACKKNOWLEDGE** fire brigade member reports of response **AND** location. CUE: Call in to the candidate as each of the Fire Brigade members (Mark Coleman - Fire Brigade Leader, Kevin Buckley, Scott Miller, Brian Stratton, and Shawn McAnulty) with the following communication: "This is (Insert Name) responding to the Fire Alarm code. I am on route to the Fire Brigade Locker."	Each Fire Brigade member's report of response and location is acknowledged.			
8. **ADVISE** Fire Brigade Leader of the appropriate Pre Fire Plan to use from information contained in the Annunciator Response Card for the fire alarm. CUE: Respond as Mark Coleman, Fire Brigade Leader, "I understand I am to refer to Pre-Fire Plan F-A-452.	ADVISE Fire Brigade Leader to use Pre-Fire Plan F-A-452.			
*9. **REFER** to Fire Safe Shutdown Area Map FSSA-3000 to determine appropriate Fire Safe Shutdown Guide (FSSG) for both units. CUE: When requested provide copies of FSSA-3000 Sheets 1 through 10. CUE: You may stop here, you have met the termination criteria for this JPM	Identify 1FSSG-3020 FIRE AREA 020 FIRE GUIDE Unit 1 Static Inverter Compartment (El. 254'-0") as the appropriate FSSG.			

JPM Stop Time _____

TASK CONDITIONS:

Unit 1 is at 100% power.

INITIATING CUE:

This JPM is to be conducted as a "DRILL".

The following is observed in the MCR:

- Audible Fire Alarm Code 5-2-4 is alarming
- CONT EL 254 INVERT RM I (006 FIRE I-3-L) Annunciator is in alarm

You are directed by Shift Supervision to respond to the above alarm as the PRO

Limerick Generating Station

Job Performance Measure

ERP CLASSIFICATION AND REPORTING (TIME CRITICAL)

JPM Number: LLOJPM0126

JOB PERFORMANCE MEASURE (JPM)

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 through 11 below.

_____ 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, or simulator)

_____ 4. Initial setup conditions are identified.

_____ 5. Initiating and terminating cues 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 referenced by this JPM matches the most current revision of that procedure:
Procedure Rev. _____ Date _____

_____ 9. Pilot test the JPM:
a. verify cues both verbal and visual are free of conflict, and
b. ensure performance time is accurate.

_____ 10. If the JPM cannot be performed as written with proper responses, then revise the JPM.

_____ 11. When JPM is revalidated, SME or Instructor sign and date JPM cover page.

_____ _____
SME/Instructor Date

_____ _____
SME/Instructor Date

_____ _____
SME/Instructor Date

JOB PERFORMANCE MEASURE (JPM)

REVISION RECORD (Summary)

Revision 000, New JPM

INITIAL CONDITIONS:

1. Unit 1 LOCA signal was received 10 minutes ago
2. D11 and D12 busses have tripped
3. ECCS failures resulted in a Reactor water level of –240 inches for several minutes and Reactor level is now slowly rising.
4. Drywell pressure is steady at 25 psig.
5. Drywell Post-LOCA radiation monitors are reading 2500 R/Hr.

INITIATING CUES: This Task is Time Critical

This JPM will start when you tell the evaluator that you are aware of task conditions and are ready to begin.

Take actions as the Shift Emergency Director in response to the initial conditions listed above. All communications should indicate a drill.

TASK STANDARD:

1. Site Area Emergency is declared within 15 minutes of the candidate beginning the classification.

2. Notification form completed and provided to Shift Communicator within 12 minutes of declaring the Site Area Emergency.

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

* Denotes CRITICAL steps.

Number any comments in the "Comment Number" column. 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 and to document unsatisfactory performance relating to management expectations.

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 time clock starts when the candidate acknowledges the initiating cue.

JOB PERFORMANCE MEASURE (JPM)

Operator's Name: _____

Job Title: NLO RO SRO STA SRO Cert

JPM Title: ERP CLASSIFICATION AND REPORTING (TIME CRITICAL)

JPM Number: LLOJPM0126 Revision Number: 000

K/A Number and Importance: Generic 2.4.41 2.3/4.1

Suggested Testing Environment: Simulator

Actual Testing Environment: Simulator/CLASSROOM

Testing Method: Perform **Faulted:** No

Alternate Path: No

Time Critical: Yes

Estimated Time to Complete: 30 minutes **Actual Time Used:**_____minutes

References: EP-AA-1008, LGS EMERGENCY ACTION LEVEL (EAL) MATRIX
EP-MA-114-100-F-01, STATE/LOCAL EVENT NOTIFICATION FORM

EVALUATION SUMMARY:

Were all the Critical Elements performed satisfactorily? Yes No

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

Comments:_____

_____

_____

_____

_____

_____

_____

Evaluator's Name: _____(Print)

Evaluator's Signature: _____ Date: _____

JOB PERFORMANCE MEASURE (JPM)

JPM Start Time: _____

ELEMENT	STANDARD	SAT	UNSAT	Comment Number
NOTE TO EVALUATOR//DRIVER: **IF JPM is conducted in Simulator: Change Meteorological Data to match values noted in JPM** **IF JPM is NOT conducted in Simulator: Provide a copy of " Meteorological 15 Minute Average Point Data**				
1. When an abnormal condition is being evaluated, REFER to the appropriate LGS EAL Matrix and PERFORM the following:	N/A			
2. Identify the operating MODE for the affected Unit(s) prior to the abnormal condition.	N/A			
3. Review the initiating conditions applicable to the operating MODE.	Use EAL Matrix to classify event			
*4. IF the EAL Threshold Values have been met or exceeded, then	Determine Site Area Emergency initiating conditions have been exceeded			
5. NOTE the EAL number associated with the IC	"FS1" identified			
*6. DECLARE the event	Declare a Site Area Emergency within 15 minutes of the START TIME in Step 1 DECLARATION TIME: _____			
7. Return to the appropriate EP-AA-112 ERO position checklist and immediately begin notifications	N/A			

JOB PERFORMANCE MEASURE (JPM)

ELEMENT	STANDARD	SAT	UNSAT	Comment Number
EP-AA-112-100-F-01, SHIFT EMERGENCY DIRECTOR CHECKLIST				
8. Announce the event classification to the Control Room Staff, and over the Public Address (PA) system based on pre-scripted message guidelines in EP-AA-112-100-F-09	Make announcement per scripted message			
*9. PERFORM EP-AA-112-100-F-07 ERO Notification of Augmentation	Contact Shift Communicator to initiate ERO augmentation.			
*10. INITIATE required State/Local notification within 15 minutes of the event classification as required per EP-MA-114-100-F-01.	Shift Communicator notified to make notifications within 12 minutes of DECLARATION TIME. (15 minutes minus time for Equipment Operator to make notifications) Note: This step is graded after the next section.			
EP-MA-114-100-F-01, STATE/LOCAL EVENT NOTIFICATION FORM				
11. UTILITY MESSAGE NO.	"1" or equivalent entered			
12. EMERGENCY DIRECTOR APPROVAL	Signature entered			
*13. CALL STATUS	THIS IS A DRILL marked			
*14. EMERGENCY CLASSIFICATION	"SITE AREA EMERGENCY" checked			
15. AFFECTED UNIT	"ONE" checked			
*16. DECLARED AT	Time and Date entered			
17. THIS REPRESENTS A/AN	"INITIAL DECLARATION" checked			
*18. EMERGENCY ACTION LEVEL (EAL) NO.	"FS1" entered			

JOB PERFORMANCE MEASURE (JPM)

ELEMENT	STANDARD	SAT	UNSAT	Comment Number
*19. A BRIEF NON-TECHNICAL DESCRIPTION OF THE EVENT	"Loss or potential loss of 2 or 3 fission product barriers" or other reasonable description. (Critical only that something is entered that identifies the event)			
* 20. NON-ROUTINE RADIALOGICAL RELEASE STATUS	"NO non-routine radiological release in progress" checked			
21. UTILITY PAR	N/A			
*22. METEOROLOGY	Values match displayed Tower 1 175' or Tower 2 159' PMS data (209°/5.9 MPH)			
23. CONCLUSION	"This is a DRILL" checked			
Cue: When form has been completed and Shift Communicator informed to process form: "You have met the termination criteria for this JPM"				

JPM Stop Time: _____

INITIAL CONDITIONS:

1. Unit 1 LOCA signal was received 10 minutes ago
2. D11 and D12 busses have tripped
3. ECCS failures resulted in a Reactor water level of –240 inches for several minutes and Reactor level is now slowly rising.
4. Drywell pressure is steady at 25 psig.
5. Drywell Post-LOCA radiation monitors are reading 2500 R/Hr.

INITIATING CUES: <u>This Task is Time Critical</u>

This JPM will start when you tell the evaluator that you are aware of task conditions and are ready to begin.

Take actions as the Station Emergency Director in response to the initial conditions listed above. All communications should indicate a drill.

971 METEOROLOGICAL 15 MINUTE AVERAGE POINT DATA

	PID	SENSOR	DESCRIPTION	VALUE	EU
TOWER 1	T1SPUFA	T1.SP.U	TOWER 1 270 FT WIND SPEED	6.1	MPH
	T1SPIFA	T1.SP.I	TOWER 1 175 FT WIND SPEED	5.9	MPH
	T1SPLFA	T1.SP.L	TOWER 1 30 FT WIND SPEED	5.8	MPH
	T1DRUFA	T1.DR.U	TOWER 1 270 FT WIND DIRECTION	210.4	DEG AZ
	T1DRIFA	T1.DR.I	TOWER 1 175 FT WIND DIRECTION	209.0	DEG AZ
	T1DRLFA	T1.DR.L	TOWER 1 30 FT WIND DIRECTION	208.5	DEG AZ
	T1DTULFA	T1.DT.U-L	TOWER 1 266 - 26 FT DELTA TEMP	-0.3	DEG F
	T1DTILFA	T1.DT.I-L	TOWER 1 171 - 26 FT DELTA TEMP	0.4	DEG F
	T1ATLFA	T1.AT.L	TOWER 1 26 FT AMBIENT TEMP	85.2	DEG F
	T1DPLFA	T1.DP.L	TOWER 1 26 FT DEW POINT	45.00	DEG F
	T1RNFA	T1.RN	TOWER 1 PRECIPITATION	0.1	INCHES
TOWER 2	T2SPUFA	T2.SP.U	TOWER 2 304 FT WIND SPEED	6.2	MPH
	T2SPIFA	T2.SP.I	TOWER 2 159 FT WIND SPEED	6.0	MPH
	T2SPLFA	T2.SP.L	TOWER 2 30 FT WIND SPEED	5.7	MPH
	T2DRUFA	T2.DR.U	TOWER 2 304 FT WIND DIRECTION	210.7	DEG AZ
	T2DRIFA	T2.DR.I	TOWER 2 159 FT WIND DIRECTION	209.5	DEG AZ
	T2DRLFA	T2.DR.L	TOWER 2 30 FT WIND DIRECTION	206.6	DEG AZ
	T2DTULFA	T2.DT.U-L	TOWER 2 300 - 26 FT DELTA TEMP	-0.4	DEG F
	T2DTILFA	T2.DT.I-L	TOWER 2 155 - 26 FT DELTA TEMP	0.6	DEG F
	T2ATLFA	T2.AT.L	TOWER 2 26 FT AMBIENT TEMP	85.0	DEG F
	T2DPLFA	T2.DP.L	TOWER 2 26 FT DEW POINT	44.81	DEG F

ODCM POINTS IDENTIFIED IN YELLOW