

Exelon Nuclear

Job Performance Measure

HANDLING PERSONNEL INJURIES

JPM Number: A-RO-COP -1

Revision Number: 00

Date: 05/10/2010

Developed By: _____
Facility Author Date

Approved By: _____
Facility Representative Date

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 and 12 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, 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 _____ Rev: _____
 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

Job Performance Measure (JPM)

Revision Record (Summary)

1. **Revision 00,** New JPM for ILT 02-01 exam.
2. **Revision 01,** Revised LAP-950-3 rev number to (1) and changed task number to reflect current task list (722.020 to 722.010).
3. **Revision 02** Updated to current revision of LAP-950-3.
4. **Revision 03** Updated to current revision of LAP-950-3. Updated K/A reference. Updated Task reference.
5. **Rev. 00** Developed from rev. 3 for ILT NRC exam 09-1.

Job Performance Measure (JPM)

SIMULATOR SETUP INSTRUCTIONS

1. No setup required for this JPM.

MATERIALS

- a. The following material is required to be provided to examinee: (copies are available at the emergency phone in the simulator and in the plant)
 - LAP-950-3 – Handling Personnel Injuries

Job Performance Measure (JPM)

INITIAL CONDITIONS

- U-1 and U-2 have both scrambled. The Shift Manager and both Unit Supervisors are not available due to implementation of LGA's.

INITIATING CUE

- As the Extra NSO you have received a call at Ext. 2211, the LaSalle Station Emergency Telephone Extension. The following information is reported:
 - A contractor reports that, Bill Smith, a contractor, has slipped in the Service Building Trackway and his ankle is broken.
 - He is not contaminated.
 - I am calling from Ext. 4444.
- The Shift Manager has directed you to perform the actions to handle the injury IAW LAP-950-3, "Handling Personnel Injuries".
- Inform the Shift Manager after the Nursing Supervisor at the hospital has been informed.

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 at the bottom of the page. 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)

JPM Start Time: _____

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
1.	Obtain a copy of LAP-950-3 "Handling Personnel Injuries"	Examinee identifies where LAP's can be obtained	___	___	___
CUE	After examinee identifies where LAPs can be obtained, provide examinee with copy of LAP-950-3.				
Note/ Cue:	Inform the examinee that phone calls will be simulated. You, as the evaluator, will respond as needed.				
*2.	NOTIFIES the Nurse at 4204 for first aid.	Examinee notifies the Nurse.	___	___	___
*3	NOTIFIES Rad Protection at 2241 for radiological assistance.	Examinee notifies Rad Protection.			
CUE	As Rad Prot and the nurse, report that you will report to the Service Building Trackway for assistance.				
*4.	Designates individual to assume command and control at the scene. (Such as the Field Supervisor or Work Execution Center SRO)	Individual notified to assume command and control at the scene.	___	___	___
CUE	As designated individual, report you are at the scene.				
*5.	Notifies the Seneca Emergency Services at (815) 357-6442 to send an ambulance.	Seneca Emergency Services notified.	___	___	___
CUE	As Seneca Emergency Services, inform examinee that someone is available and the ambulance will				

Job Performance Measure (JPM)

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
	be there ASAP. Also, inform him to assume that 5 minutes have elapsed and you've phoned back as the Seneca Emergency Services.				
*6.	Notify Security at 2940 that an ambulance has been called to respond to the station.	Security notified.	___	___	___
7.	VERIFY status of the victim from the Field Supervisor, Nurse or Rad Protection at the scene.	Status received.	___	___	___
CUE	As the designated individual at the scene, report that he appears to have a broken ankle and is not contaminated. He is in a great deal of pain, but the injury is not life threatening.				
*8.	Determines St. Mary's Hospital is appropriate Hospital and Notifies St. Marys Hospital at (815) 673-4521 or (815) 673-2311.	St. Mary's Hospital notified and Nursing Supervisor informed of the extent of the injury (broken ankle) and that he is not contaminated.	___	___	___
Terminating Cue	As the Nursing Supervisor, state you understand that an injured person with a broken ankle is heading to St. Mary's hospital, and he is not contaminated. When the Nursing Supervisor has been notified, inform the examinee the JPM is complete.				

JPM Stop Time: _____

Job Performance Measure (JPM)

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

JPM Title: HANDLING PERSONNEL INJURIES

JPM Number: A-RO-COP-1 Revision Number: 00

Task Number and Title:

722.010 Given a postulated personnel injury, complete the required administrative sections related to personnel injury IAW station procedures.

K/A Number, Description, Importance:

2.1.2_ Knowledge of operator responsibilities during all modes of plant operation.

4.1/4.4

Suggested Testing Environment: Simulator

Actual Testing Environment: Simulator Plant Control Room

Testing Method: Simulate Perform **Faulted:** Yes No **Alternate Path:** Yes No

Time Critical: Yes No **SRO Only:** Yes No

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

References: LAP-950-3 Rev. 5

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)

INITIAL CONDITIONS

- U-1 and U-2 have both scrambled. The Shift Manager and both Unit Supervisors are not available due to implementation of LGA's.

INITIATING CUE

- As the Extra NSO you have received a call at Ext. 2211, the LaSalle Station Emergency Telephone Extension. The following information is reported:
 - A contractor reports that, Bill Smith, a contractor, has slipped in the Service Building Trackway and his ankle is broken.
 - He is not contaminated.
 - I am calling from Ext. 4444.
 - The Shift Manager has directed you to perform the actions to handle the injury IAW LAP-950-3, "Handling Personnel Injuries".
 - Inform the Shift Manager after the Nursing Supervisor at the hospital has been informed.
-

Exelon Nuclear

Job Performance Measure

Reactivation of an SRO License

JPM Number: A-SRO-COP-1

Revision Number: 00

Date: 05/10/2010

Developed By: _____
Facility Author **Date**

Approved By: _____
Facility Representative **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.

- _____ 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 _____ Rev: _____
 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 00, JPM developed for ILT NRC 09-1 exam.

SIMULATOR SETUP INSTRUCTIONS

1. N/A
2. Provide copy of OP-AA-105-102 and marked up copy of Att. 2 for review.

INITIAL CONDITIONS

You are the Shift Manager

An SRO is in the process of license reactivation.

OP-AA-105-102, Attachment 2, Reactivation of License Log, is filled out up to the point of Shift Manager review for the licensee.

INITIATING CUE

The Shift Operation Superintendent directs you to “perform the Shift Manager review of OP-AA-105-102, Attachment 2 for the licensee and return it to me”.

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.

JPM Start Time: _____

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
NOTE: Provide the Examinee the provided marked up copy of OP-AA-105-102.					
1.	Review OP-AA-105-102, Attachment 2.	Reviews OP-AA-105-102, Attachment 2.	—	—	—
2.	Check that Hours on Shift are applicable for license reactivation.	Notes that 8 hours listed in the Hours on Shift are for WEC Supervisor which does not count toward the 40 hours required.	—	—	—
3.	Check that the licensee has the required 40 hours.	Determines that licensee does NOT have adequate hours to meet the 40 hour requirement.	—	—	—
*4.	Report the results of the review to the Shift Operations Superintendent (SOS).	Returns without signing OP-AA-105-102, Attachment 2 to the SOS. Informs the SOS that the licensee's license CANNOT be reactivated due to insufficient hours on shift.	—	—	—
CUE	As the SOS, acknowledge the report and inform the examinee that the JPM is complete.				

JPM Stop Time: _____

JPM SUMMARY

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

JPM Title: Reactivation of an SRO License

JPM Number: A-SRO-COP-1 Revision Number: 00

Task Number and Title: 785.010, Apply the administrative requirements for NRC license requirements.

K/A Number and Importance: Generic, 2.1.4, 3.3/3.8

Suggested Testing Environment: Simulator

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

Reference(s): OP-AA-105-102, rev. 09.

Actual Testing Environment: Simulator Control Room In-Plant Other

Testing Method: Simulate Perform

Estimated Time to Complete: 00 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

You are the Shift Manager

An SRO is in the process of license reactivation.

OP-AA-105-102, Attachment 2, Reactivation of License Log, is filled out up to the point of Shift Manager review for the licensee.

INITIATING CUE

The Shift Operation Superintendent directs you to “perform the Shift Manager review of OP-AA-105-102, Attachment 2 for the licensee and return it to me”.

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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- _____ 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 _____ Rev: _____
 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 00, Developed for ILT NRC 09-1 exam.

SIMULATOR SETUP INSTRUCTIONS

1. N/A
2. Copy of LS-AA-119 available.

INITIAL CONDITIONS

You are the U-1 US.

Both units are at rated power.

It is Tuesday, 7/13/2010 at 0600.

The on-coming U-1 NSO calls in to report he will not be able to come in for shift 2 due to an illness.

Another NSO will not be able to come in until 1200.

No other Licensed individual is available to fill the Safety Related position.

He was on a 7 day vacation, prior to working the following work hours and shifts that count towards 10CFR26 Work Hour Limits, so far this week.

Shift	Wed 7/7/10	Thu 7/8/10	Fri 7/9/10	Sat 7/10/10	Sun 7/11/10	Mon 7/12/10	Tue 7/13/10
1 (2300-0700)	8	8	8	8	8	8	8
2 (0700-1500)	4			4		4	
3 (1500-2300)							

INITIATING CUE

Determine if he will be able to work until another NSO will relieve you at 1200.

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.

JPM Start Time: _____

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
NOTE: Provide the examinee with a copy of LS-AA-119.					
*1	Reviews procedure to determine what limits may be exceeded.	Determines that overtime would exceed 72 hrs. in any 7 days.	—	—	—
CUE	When notified that overtime would exceed 72 hours in 7 days, ask the examinee, what, if any, hours could be worked without requiring additional approval.				
*2	Reviews procedure to determine if limits may be exceeded, and requirements to allow.	Determines that 4 hours could be worked (0700 – 1100 on 7/9/10) without Att1 of LAS-AA-119 required.	—	—	—
CUE	When determination of 4 hours allowance on 7/9/10 determined, inform the examinee that JPM is complete.				

JPM Stop Time: _____

JPM SUMMARY

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

JPM Title: Determine availability to assume shift work hour rules application

JPM Number: A-RORO-COP-2 Revision Number: 00

Task Number and Title: 790.020, Determine overtime guidelines IAW overtime controls.

K/A Number and Importance: Generic, 2.1.5 2.9/3.9

Suggested Testing Environment: Simulator

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

Reference(s): LS-AA-119, Rev. 8.

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

You are the U-1 US.

Both units are at rated power.

It is Tuesday, 7/13/2010 at 0600.

The on-coming U-1 NSO calls in to report he will not be able to come in for shift 2 due to an illness.

Another NSO will not be able to come in until 1200.

No other Licensed individual is available to fill the Safety Related position.

He was on a 7 day vacation, prior to working the following work hours and shifts that count towards 10CFR26 Work Hour Limits, so far this week.

Shift	Wed 7/7/10	Thu 7/8/10	Fri 7/9/10	Sat 7/10/10	Sun 7/11/10	Mon 7/12/10	Tue 7/13/10
1 (2300-0700)	8	8	8	8	8	8	8
2 (0700-1500)	4			4		4	
3 (1500-2300)							

INITIATING CUE

Determine if he will be able to work until another NSO will relieve you at 1200.

Exelon Nuclear

Job Performance Measure

Determine availability to assume shift work hour rules application

JPM Number: A-SRO-COP-2

Revision Number: 00

Date: 05/10/2010

Developed By:

Facility Author

Date

Approved By:

Facility Representative

Date

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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Prior to JPM usage, revalidate JPM using steps 8 and 12 below.

- _____ 1. Task description and number, JPM description and number are identified.
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- _____ 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 _____ Rev: _____
 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 00, Developed for ILT NRC 09-1 exam.

SIMULATOR SETUP INSTRUCTIONS

1. N/A
2. Copy of LS-AA-119 available.

INITIAL CONDITIONS

You are the U-2 NSO.

Both units are at rated power.

It is Tuesday, 7/9/2010 at 0600.

The on-coming U-2 NSO calls in to report he will not be able to come in for shift 2 due to an illness.

Another NSO will not be able to come in until 1200.

No other Licensed individual is available to fill the Safety Related position.

You were on a 7 day vacation, prior to working the following work hours and shifts that count towards 10CFR26 Work Hour Limits, so far this week.

Shift	Wed 7/3/10	Thu 7/4/10	Fri 7/5/10	Sat 7/6/10	Sun 7/7/10	Mon 7/8/10	Tue 7/9/10
1 (2300-0700)	8	8	8	8	8	8	8
2 (0700-1500)	4			4		4	
3 (1500-2300)							

INITIATING CUE

Determine if you will be able to work until another NSO will relieve you at 1200.

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.

JPM Start Time: _____

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
NOTE: Provide the examinee with a copy of LS-AA-119.					
*1	Reviews procedure to determine what limits may be exceeded.	Determines that overtime would exceed 72 hrs. in any 7 days.	—	—	—
CUE	When notified that overtime would exceed 72 hours in 7 days, ask the examinee, what, if any, actions could be taken to allow them to work to 1200.				
*2	Reviews procedure to determine if limits may be exceeded, and requirements to allow.	Determines that hours could be worked if Att. 1 of LS-AA-119 performed and approved.	—	—	—
CUE	When determination of allowance per LS-AA-119, inform the examinee that JPM is complete.				

JPM Stop Time: _____

JPM SUMMARY

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

JPM Title: Determine availability to assume shift work hour rules application

JPM Number: A-SRORO-COP-2 Revision Number: 00

Task Number and Title: 790.020, Determine overtime guidelines IAW overtime controls.

K/A Number and Importance: Generic, 2.1.5 2.9/3.9

Suggested Testing Environment: Simulator

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

Reference(s): LS-AA-119, Rev. 8.

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

You are the U-2 NSO.

Both units are at rated power.

It is Tuesday, 7/9/2010 at 0600.

The on-coming U-2 NSO calls in to report he will not be able to come in for shift 2 due to an illness.

Another NSO will not be able to come in until 1200.

No other Licensed individual is available to fill the Safety Related position.

You were on a 7 day vacation, prior to working the following work hours and shifts that count towards 10CFR26 Work Hour Limits, so far this week.

Shift	Wed 7/3/10	Thu 7/4/10	Fri 7/5/10	Sat 7/6/10	Sun 7/7/10	Mon 7/8/10	Tue 7/9/10
1 (2300-0700)	8	8	8	8	8	8	8
2 (0700-1500)	4			4		4	
3 (1500-2300)							

INITIATING CUE

Determine if you will be able to work until another NSO will relieve you at 1200.

Exelon Nuclear

Job Performance Measure

Determine Isolation Points for a Clearance Order

JPM Number: A-RO-EC-1

Revision Number: 00

Date: 05/10/2010

Developed By: _____
Facility Author Date

Approved By: _____
Facility Representative Date

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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 Prior to JPM usage, revalidate JPM using steps 8 and 12 below.

- _____ 1. Task description and number, JPM description and number are identified.
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 Procedure _____ Rev: _____
 Procedure _____ Rev: _____
 Procedure _____ Rev: _____
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- _____ 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)

1. **Revision 00,** JPM developed for ILT NRC 09-1 exam.

SIMULATOR SETUP INSTRUCTIONS

1. None. This JPM may be completed at any location, provided that the appropriate reference material is available.
2. Ensure the following references are available:
 - P&ID M-71 Sh. 1 and 2
 - TRM's
 - Attached form to document isolation points.

INITIAL CONDITIONS

An EO, while on rounds at the Lake Screen House, discovered a fire house supply (FB 233) leaking. He was directed to isolate the leak by closing 0FP069, but was unable to close the valve.

INITIATING CUE

Because of computer problems, PASSPORT IS NOT AVAILABLE, but is expected back later on your shift. Another NSO located the drawings that may be required to write the Clearance, but was called away to assist on the other unit. The Unit Supervisor has directed you to “be ready” to write a C/O as soon as PASSPORT becomes available, later in the shift.

DETERMINE the isolation points, which will be required for the preparation of a Clearance Order that will adequately protect Operators and equipment.

On the attached worksheet, RECORD the ISOLATION POINT(S), and the required HANG POSITION.

Give the worksheet to the Unit Supervisor when complete.

Provide examinee with: Attached form to document isolation points on.

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.
- Denotes critical elements of a critical step.

Number any comments in the “Comment Number” column on the following pages. Then annotate that comment in the “Comments” section at the bottom of the page. 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.

JPM Start Time: _____

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	<u>SAT</u>	<u>UNSAT</u>	<u>Comment Number</u>
1	Refer to the provided prints.	Examinee locates and refers to the following drawings: <ul style="list-style-type: none"> • M-71-1 and 2 	—	—	—
*2	Determine mechanical isolation points for Fire Hose Station FB 233.	Examinee determines the following valves must be taken OOS in the closed position: <ul style="list-style-type: none"> • * 0FP080 • * 2FP058 • * 0FP174B • * 0FP002B • * 0FP191B • 0FP091 (not crit. – not a supply source) 	—	—	—
3	Inform Unit Supervisor of components and positions.	Examinee informs Unit Supervisor of components identified and position required.	—	—	—

JPM Stop Time: _____

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

JPM Title: Determine Isolation Points for a Clearance Order

JPM Number: A-RO-EC-1 Revision Number:00

Task Number and Title: 801.000 Given a Clearance Order Request, process the request, create a Clearance Order Checklist and perform request, IAW station procedures.

K/A Number, Description, Importance:

2.2.41 Ability to obtain and interpret station electrical and mechanical drawings. 3.5

Suggested Testing Environment: Simulator

Actual Testing Environment: Simulator Control Room In-Plant

Testing Method: Simulate Perform
Alternate Path: Yes No
SRO Only: Yes No

Time Critical: Yes No

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

References: OP-AA-109-101, Clearance and Tagging,

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: _____

INITIAL CONDITIONS

An EO, while on rounds at the Lake Screen House, discovered a fire house supply (FB 233) leaking. He was directed to isolate the leak by closing OFP069, but was unable to close the valve.

INITIATING CUE

Because of computer problems, PASSPORT IS NOT AVAILABLE, but is expected back later on your shift. Another NSO located the drawings that may be required to write the Clearance, but was called away to assist on the other unit. The Unit Supervisor has directed you to “be ready” to write a C/O as soon as PASSPORT becomes available, later in the shift.

DETERMINE the isolation points, which will be required for the preparation of a Clearance Order that will adequately protect Operators and equipment.

On the attached worksheet, RECORD the ISOLATION POINT(S), and the required HANG POSITION.

Give the worksheet to the Unit Supervisor when complete.

Exelon Nuclear

Job Performance Measure

Determine Isolation Points for a Clearance Order

JPM Number: A-SRO-EC-1

Revision Number: 00

Date: 05/10/2010

Developed By: _____
Facility Author Date

Approved By: _____
Facility Representative 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.

- _____ 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 _____ Rev: _____
 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)

1. **Revision 00,** JPM developed for ILT NRC 09-1 exam.

SIMULATOR SETUP INSTRUCTIONS

1. None. This JPM may be completed at any location, provided that the appropriate reference material is available.
2. Ensure the following references are available:
 - P&ID M-71 Sh. 1 and 2
 - TRM's
 - Attached form to document isolation points.

INITIAL CONDITIONS

An EO, while on rounds at the Lake Screen House, discovered a fire house supply (FB 233) leaking. He was directed to isolate the leak by closing 0FP069, but was unable to close the valve.

INITIATING CUE

Because of computer problems, PASSPORT IS NOT AVAILABLE, but is expected back later on your shift. Another NSO located the drawings and listed the isolation points.

VERIFY the isolation points, which will be required for the preparation of a Clearance Order that will adequately protect Operators and equipment.

On the attached worksheet, RECORD the ISOLATION POINT(S), and the required HANG POSITION.

Determine T.S. implications, if any.

Give the worksheet to the Unit Supervisor when complete.

Provide examinee with: Attached form to document isolation points on.

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.
- Denotes critical elements of a critical step.

Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section at the bottom of the page. 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.

JPM Start Time: _____

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	<u>SAT</u>	<u>UNSAT</u>	<u>Comment Number</u>
1	Refer to the provided prints.	Examinee locates and refers to the following drawings: <ul style="list-style-type: none"> • M-71-1 and 2 • 	—	—	—
*2	Determine additional mechanical isolation points for Fire Hose Station FB 233.	Examinee determines the following valves must be taken OOS in the closed position: <ul style="list-style-type: none"> • * 0FP080 • * 2FP058 	—	—	—
*3	Determines Required Actions with “B” DFP OOS.	Applies TRM 3.7.j, RA A.1 (restore operable in 7 days) or A.2 (prepare corrective action program in 7 days)	—	—	—
4	Inform Unit Supervisor of components and positions.	Examinee informs Unit Supervisor of components identified and position required.	—	—	—

JPM Stop Time: _____

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

JPM Title: Determine Isolation Points for a Clearance Order

JPM Number: A-SRO-EC-1 Revision Number:00

Task Number and Title: 801.000 Given a Clearance Order Request, process the request, create a Clearance Order Checklist and perform request, IAW station procedures.

K/A Number, Description, Importance:

2.2.41 Ability to obtain and interpret station electrical and mechanical drawings.3.9

Suggested Testing Environment: Simulator

Actual Testing Environment: Simulator Control Room In-Plant

Testing Method: Simulate Perform
Alternate Path: Yes No
SRO Only: Yes No

Time Critical: Yes No

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

References: OP-AA-109-101, Clearance and Tagging, P&ID M-71, Sh.1 and 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: _____

INITIAL CONDITIONS

An EO, while on rounds at the Lake Screen House, discovered a fire house supply (FB 233) leaking. He was directed to isolate the leak by closing OFP069, but was unable to close the valve.

INITIATING CUE

Because of computer problems, PASSPORT IS NOT AVAILABLE, but is expected back later on your shift. Another NSO located the drawings and listed the isolation points.

VERIFY the isolation points, which will be required for the preparation of a Clearance Order that will adequately protect Operators and equipment.

On the attached worksheet, RECORD the ISOLATION POINT(S), and the required HANG POSITION.

Determine T.S. implications, if any.

Give the worksheet to the Unit Supervisor when complete.

**Clearance Order Worksheet:
FOR EXAMINATION PURPOSES ONLY**

Attach additional sheets as necessary.

Component Name <u>or</u> EPN	HANG position:
0FP174B	closed
0FP002B	closed
0FP191B	closed
0FP091	closed

Nuclear Generation Group

Job Performance Measure

Determine Brief and Protective Clothing Requirements

JPM Number: A-SRORO-RC-1

Revision Number: 00

Date: 05/10/2010

Developed By: _____
Facility Author Date

Approved By: _____
Facility Representative Date

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 and 12 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, 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 _____ Rev: _____
 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

Job Performance Measure (JPM)

Revision Record (Summary)

- 1. Revision 00,** This JPM was created for use during the ILT Class 01-1 NRC Exam.
- 2. Rev. 00** JPM for ILT Class 09-1 NRC exam.

Job Performance Measure (JPM)

3. MATERIALS

1. Copy of RP-AA-460.
2. Copy of Survey Map for Unit 1 Reactor Building, El 761' General Area.
3. Copy of Survey Map for Unit 1 Reactor Building, El. 761' RWCU Pumphoom.
4. RWP 10010996.

Job Performance Measure (JPM)

INITIAL CONDITIONS

Following maintenance, it was reported that valve 1G33-F043A, A RWCU pump suction header upstream stop valve appeared to have packing leakage.

The Shift Manager is unable to obtain any more information regarding the packing leakage.

You are the Unit 1 Field Supervisor.

INITIATING CUE

The Shift Manager has informed you to determine what clothing and briefing requirements are needed to send an EO to assess the packing leak.

He directs you to:

1. Determine the protective clothing requirements for the area of valve 1G33-F043A, located in the “A” RWCU pp. room..
2. Determine what type of briefing is required to enter “A” RWCU pp. room.

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 at the bottom of the page. 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)

JPM Start Time: _____

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
Note:	<p>WHEN the examinee asks RP for the survey map of the area, THEN provide the map attached to this JPM.</p> <p>WHEN the examinee asks RP for the RWPs for the job THEN provide RWP 10010996 attached to this JPM.</p> <p>If the student asks for the procedure for Control of High and Very High Radiation Areas, RP-AA-460, provide them with a copy.</p>				
Note:	Steps 3 and 4 may be performed in any order.				

Job Performance Measure (JPM)

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
*1.	Examinee reviews RWPs and survey maps and determines proper protective clothing requirements.	Determines following protective clothing requirements: <ul style="list-style-type: none"> • Modesty Garments • Double Coveralls • Rubber shoe covers and reusable or disposable booties • Waterproof Boots or Hi Top Rubber Shoe Covers • Cotton Liners • 2 pair rubber gloves with cuffs • Full hood • Personal Hardhat with a Hardhat Cover 	—	—	—
*2.	States briefing requirements to enter a Locked High Rad Area (in accordance with RP-AA-460, step 4.7.1)	Determines a briefing from Radiation Protection is required.	—	—	—
5	Informs Shift Manager of clothing and briefing requirements.	Informs shift manager of information from steps 1 and 2.			
CUE:	The JPM is considered complete at this time.				

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: EO RO SRO FS STA/IA SRO Cert

JPM Title: Determine brief and protective clothing requirements

JPM Number: A-SRORO-RC-1 **Revision Number:** 00

Task Number and Title: 638.010, Demonstrate on-shift licensed operator responsibilities

K/A Number and Importance: 2.3.7; 3.5/3.6

Suggested Testing Environment: Simulator

Alternate Path: Yes No **SRO Only:** Yes No

Time Critical: Yes No

Reference(s): RP-AA-460 Rev. 19.

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:** _____

Job Performance Measure (JPM)

INITIAL CONDITIONS

Following maintenance, it was reported that valve 1G33-F043A, A RWCU pump suction header upstream stop valve appeared to have packing leakage.

The Shift Manager is unable to obtain any more information regarding the packing leakage.

You are the Unit 1 Field Supervisor.

INITIATING CUE

The Shift Manager has informed you to determine what clothing and briefing requirements are needed to send an EO to assess the packing leak.

He directs you to:

1. Determine the protective clothing requirements for the area of valve 1G33-F043A, located in the "A" RWCU pp. room..
2. Determine what type of briefing is required to enter "A" RWCU pp. room.

Exelon Nuclear

Job Performance Measure

Classify a Security Event IAW EP-AA-1005

JPM Number: A-SRO-EP

Revision Number: 00

Date: 05/10/2010

Developed By: _____
Facility Author Date

Approved By: _____
Facility Representative 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.

- _____ 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 _____ Rev: _____
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)

1. **Revision 00,** JPM written for ILT NRC 09-1 exam.

Materials

1. The following material is required to be provided to the Examinee.
 - EP-AA-111, EP-MW-114-100, EP-AA-112-100-F-01, and LaSalle EALs

INITIAL CONDITIONS

You are the Shift Manger.

Unit 1 and Unit 2 are at 100 % Power.

The following has occurred :

- A large explosion has occurred by waste water treatment.
- Security reports six armed intruders are now in the owner controlled area.
- Security Officers in Bullet Resistant Enclosures kill four intruders.

- Computer average wind speed is 10 mph from 200°
- Stack radiation release levels have been constant for the last several hours.
- Dose projections are not available.

INITIATING CUE:

As the Shift Manager classify the event and fill out the NARS form for transmittal.

THIS IS A TIME CRITICAL JPM.

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 at the bottom of the page. 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.

JPM Start Time (T1): _____

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
1.	Obtain copies of EP-AA-111, EP-MW-114-100, EP-AA-112-100-F-01, and LaSalle EALs (as necessary)	Examinee demonstrates where copies EP-AA-111, EP-MW-114-100, EP-AA-112-100-F-01, and LaSalle EALs can be obtained (as necessary).	—	—	—
CUE					
After examinee demonstrates where corporate procedures can be obtained, provide examinee with copies of EP-AA-111, EP-MW-114-100, EP-AA-112-100-F-01, and LaSalle EALs (as necessary)					
2.	Obtain blank NARS form.	Examinee demonstrates where NARS forms can be obtained.	—	—	—
CUE					
After examinee demonstrates where NARS forms can be obtained, provide examinee with a NARS form.					
NOTE					
Accident classification must be completed within 15 minutes of JPM start time.					
3.	In Utility Message block write 1.	Examinee writes the number 1 in Utility Message block	—	—	—
4.	In State Message block write N/A	Examinee writes the number N/A in State Message block	—	—	—
5.	In Item 1, marks A or B.	Examinee marks Item 1 A or B	—	—	—
*6.	In Item 2, marks E.	Examinee marks Item 2 E	—	—	—
*7.	In Item 3, marks B	Examinee marks Item 3 B	—	—	—
*8.	In Item 4, write (time & date) and EAL HA1	Examinee writes (0800, today) and HA1 in Item 4	—	—	—

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
<p>CUE: After five minutes, inform the examinee as a security officer: “the two remaining intruders used an explosive device to destroy the security diesel generator building.” Record time as T2 start time T2 - _____</p> <p style="text-align: center;">NOTE</p> <p>The examinee must complete the initial HA1 NOTIFICATION within 15 minutes of the original start time (T1) or upgrade the classification and complete the notification within the original start time (T1). Steps <u>9</u> through <u>17</u> are N/A if the examinee upgrades to HS1 and does not make the HA1 the first utility message.</p>					
9.	In ACCIDENT TERMINATED section write N/A in each blank	Examinee writes N/A in each blank of ACCIDENT TERMINATED section	___	___	___
10.	In Item 5, marks A.	Examinee marks Item 5 A	___	___	___
11.	In Item 6, marks A.	Examinee marks Item 6 A	___	___	___
12.	In Item 7, write 200.	Examinee writes 200 in Item 7	___	___	___
13.	In Item 8 B, write 10.	Examinee marks and writes 10 in Item 8 B	___	___	___
14.	In Item 9, mark A.	Examinee marks Item 9 A.	___	___	___
15.	In Item 10, write “none”	Examinee writes none.	___	___	___
16.	Leave Items 11 and 12 blank.	Examinee leaves Items 11 and 12 blank.	___	___	___
*17.	Informs examiner that the NARs form is ready to communicate to the state/local authorities.	Examinee informs the examiner that the completed NARs form is ready for communicating to state/local. Time NARs is Ready: _____(T3) T3 must be within 14 minutes of time T1.	___	___	___
Start here for upgrade to HS1					
18.	Obtain blank NARS form.	Examinee demonstrates where NARS forms can be obtained.	___	___	___
19.	In Utility Message block write 1 (2 if HA1 message made).	Examinee writes the number 1 (2 if HA1 message made)in Utility Message block	___	___	___

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
20.	In State Message block write N/A	Examinee writes the number N/A in State Message block	___	___	___
21.	In Item 1, marks B.	Examinee marks Item B	___	___	___
*22.	In Item 2, marks E.	Examinee marks Item 2 E	___	___	___
*23.	In Item 3, marks C	Examinee marks Item 3 C	___	___	___
*24.	In Item 4, write (time & date) and EAL HS1	Examinee writes (time (T2) & today) and HS1 in Item 4	___	___	___
25.	In ACCIDENT TERMINATED section write N/A in each blank	Examinee writes N/A in each blank of ACCIDENT TERMINATED section	___	___	___
26.	In Item 5, marks A.	Examinee marks Item 5 A	___	___	___
27.	In Item 6, marks A.	Examinee marks Item 6 A	___	___	___
28.	In Item 7, write 200.	Examinee writes 200 in Item 7	___	___	___
29.	In Item 8 B, write 10.	Examinee marks and writes 10 in Item 8 B	___	___	___
30.	In Item 9, mark A.	Examinee marks Item 9 A.	___	___	___
31.	In Item 10, write "none"	Examinee writes none.	___	___	___
32.	Leave Items 11 and 12 blank.	Examinee leaves Items 11 and 12 blank.	___	___	___
*33.	Informs the examiner that the NARs form is ready for fax to state/local	Examinee informs the examiner that the completed NARs form is ready for fax to state/local. Time NARs is Ready: _____ (T4) T4 must be within 14 minutes of T2.	___	___	___
NOTE					
NARs form must be completed within 14 minutes of Classification time.					
TERMINATING CUE					
Acknowledge Report and accept NARs form from Examinee.					

JPM Stop Time: _____

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

JPM Title: Classify a Security Event IAW EP-AA-1005
JPM Number:A-SRO-EP
Task Number and Title:715.010, Fill out a NARS Form

Revision Number: 00

K/A Number and Importance: 2.4.29 4.4

Suggested Testing Environment: Simulator

Actual Testing Environment: Simulator Plant Control Room

Testing Method: Simulate Perform
Alternate Path: Yes No
SRO Only: Yes No

Time Critical: Yes No

Estimated Time to Complete: 14 min for NARs **Time for NARs:** _____min
References: EP-AA-111; EP-MW-114-100; EP-AA-112-100-F1, LaSalle EALs

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: _____

INITIAL CONDITIONS

You are the Shift Manager.

Unit 1 and Unit 2 are at 100 % Power.

The following has occurred :

- A large explosion has occurred by waste water treatment.
- Security reports six armed intruders are now in the owner controlled area.
- Security Officers in Bullet Resistant Enclosures kill four intruders.
- Computer average wind speed is 10 mph from 200°
- Stack radiation release levels have been constant for the last several hours.
- Dose projections are not available.

INITIATING CUE:

As the Shift Manager classify the event and fill out the NARS form for transmittal.

THIS IS A TIME CRITICAL JPM.

If not, then determine any other required NRC notification.

**Exelon Nuclear
Job Performance Measure**

. Downshift RR Pumps /Failure of one RR pump to downshift

JPM Number: SRO/RO - a

Revision Number: 00

Date: 05/05/2010

Developed By: _____
Facility Author **Date**

Approved By: _____
Facility Representative **Date**

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)

1. **Revision 06,** Reformatted, revised to current procedure
2. **Revision 07,** Revised format IAW NTAFT JLOR03 Rev. 2. Revised to include new Task number and title. Revised IAW with LOP-RR-08, Rev. 23.
3. **Revision 08,** Added steps for digital RR modification. Updated Procedure revisions for current procedure.
4. **Revision 09,** Deleted LOA-RR-101 sub-steps for Tech Spec 3.4.1.
5. **Revision 10,** Revised for formatting and procedure revision.
6. **Revision 0** Rev. 0 based on Rev. 10, for ILT NRC 09-1 exam.

Job Performance Measure (JPM)

SIMULATOR SETUP

1. Reset the simulator to IC 34 or similar setup (where conditions are met to downshift the RR pumps).

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. Input the “B” RR Pump fails to downshift, trips to zero malfunction (MRC015) is present on the malfunction summary.
3. Verify FCL is <66.7% FCL.
4. Ensure the performance of this JPM does not interfere with the performance of any other JPMs.
5. When the above steps are completed for this and other JPMs to be run concurrently, then validate the concurrently run JPMs using the noted steps on the Job Performance Measure Validation Checklist.
6. This completes the setup for this JPM.

Job Performance Measure (JPM)**INITIAL CONDITIONS**

- A reactor shutdown is in progress.
- LGP 2-1 is complete up to step E.1.7.
- A & B Reactor Recirc LFMG set prestarts have been completed.

INITIATING CUE

The Unit Supervisor has directed you to downshift the Reactor Recirc Pumps IAW LOP-RR-08.

You are to inform the Unit Supervisor when both Reactor Recirc Pumps are downshifted.

Fill in the JPM Start Time when the examinee 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 at the bottom of the page. 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)

JPM Start Time: _____

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
Note	All steps of this JPM are to be completed at control room panel H13-P602 unless otherwise noted.				
1.	VERIFY the bottom head drain valve, 1G33-F101, is OPEN to insure greater than 25 gpm bottom head drain flow for correct bottom head temperature indication.	Examinee verifies the bottom head drain valve, 1G33-F101, is open.	_____	_____	_____
Note	Having this valve open helps to eliminate thermal stratification of the water in the bottom head.				
2.	At the 1DS001 Operator Station RRFCC Process Review Screen, for A AND B RR Loops, Check the "Accumulated Time for Delta Temp Low"	Examinee checks at 1DS001 that "Accumulated Time for Delta Temp Low " is 0. NOTE: May not be "0". If not, log per step 3.	_____	_____	_____
3.	If the "Accumulated Time for Delta Temp Low" is not zero log in the Unit log and notify System Engineer	Examinee notifies Unit NSO to record accumulated time in Unit log and notifies System Engineer.	_____	_____	_____
CUE	As the System Engineer/ Unit NSO, acknowledge the "Accumulated Time for Delta Temp Low" value.				
*4.	CLOSE MG Set Motor Feed Breakers 1A and 1B.	Examinee closes MG Set Motor Feed Breakers 1A and 1B.	_____	_____	_____
5.	VERIFY LFMG output voltage increases to 600 volts in <30 seconds.	Examinee verifies LFMG output voltage increases to 600 volts in <30 seconds.	_____	_____	_____
6.	VERIFY FCL is < 66.7%, or value determined by QNE.	Examinee verifies FCL <66.7% by the use of any one of the following:			
		<input type="checkbox"/> Reactor power and flow indications on the P/F Map	_____	_____	_____
		<u>OR</u>			
		<input type="checkbox"/> OD-3.	_____	_____	_____

Job Performance Measure (JPM)

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	<u>SAT</u>	<u>UNSAT</u>	<u>Comment Number</u>
CUE	If requested, as the QNE state the FCL is acceptable if less than 66.7% FCL (ensure <66.7%).				
Note Sim Op	The B RR pump will downshift to zero in the following step. ENSURE the malfunction is INSERTED to trip B RR pump to OFF. (MRC015)				
*7.	TURN Motor Control Breaker 3 Control Switches for BOTH A and B Reactor Recirc Pumps to the TRANSFER-MG position.	Examinee turns BOTH Motor Control Breaker 3 Control Switches for A and B Reactor Recirc Pumps to the TRANSFER-MG position.	_____	_____	_____
8.	OBSERVE the 3A and 3B breakers OPEN.	Examinee observes that Breakers 3A and 3B open	_____	_____	_____
9.	OBSERVE A and B Pump Speed decreases to between 350 and 480 RPM as observed on speed indicator 1B33-R651.	Examinee observes A and B Pump Speed decreases to between 350 and 480 RPM as observed on speed indicator 1B33-R651.	_____	_____	_____
Note	Steps 10 -13 apply only to the A RR pump.				
10.	OBSERVE the MG Set Generator Output Breakers 2A and 2B CLOSE.	Examinee observes the MG Set Generator Output Breaker 2A closes.	_____	_____	_____
11.	OBSERVE A and B Pump speed stabilizes at approximately 445 RPM.	Examinee observes A Pump speed stabilizes at approximately 445 RPM.	_____	_____	_____
12.	OBSERVE A and B Pump differential pressure stabilizes at approximately 30 psid.	Examinee observes A differential pressure stabilizes at approximately 30 psid.	_____	_____	_____
13.	OBSERVE A and B MG set amps stabilize at approximately 60 amps.	Examinee observes A MG set amps stabilize at approximately 60 amps.	_____	_____	_____
Note	Values listed above are from LOP-RR-08 and are for two-loop operation, they may be slightly different for single loop ops.				
Note	Steps 10 - 13 may not be performed by the Examinee until after taking actions per LOA-RR-101 or may be marked N/A.				
CUE	Inform the Examinee that core instability will be verified IAW LOS-RR-SR1 by another operator.				

Job Performance Measure (JPM)

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
14.	NOTIFY the Unit Supervisor that the "B" Reactor Recirc Pump tripped to zero.	Examinee notifies the Unit Supervisor that the "B" Reactor Recirc Pump tripped to zero.	_____	_____	_____
CUE	As Unit Supervisor, acknowledge the report. Direct the Examinee to perform the actions of LOA-RR-101. "Inform me (US) when the actions are complete."				
	ALTERNATE PATH BEGINS HERE				
15.	Enter LOA-RR-101.	Examinee enters and performs the actions of LOA-RR-101.	_____	_____	_____
16.	CHECK at least one Recirc pump operating.	Examinee verifies at least one running RR pump.	_____	_____	_____
17.	CHECK that 1H13-P603-A109, OPRM Hi Alarm is CLEAR	Examinee verifies 1H13-P603-A109, OPRM Hi Alarm is CLEAR			
CUE	Inform the Examinee that another operator will perform section B.1, Core Instabilities.				
18.	VERIFY both RR Loop M/A stations are in MANUAL	Examinee verifies that both RR Loop M/A stations are in MANUAL	_____	_____	_____
19.	CHECK operating Recirc Pump in HIGH SPEED.	Examinee checks to see if the running RR pump is in HIGH SPEED.	_____	_____	_____
*20.	OPEN FCV on LOW SPEED Recirc pump.	Examinee opens the FCV on the low speed recirc pump.	_____	_____	_____
21.	INITIATE required actions of Tech Spec 3.4.1 for Single Loop Operation.	Examinee initiates actions for SLO by notifying the Unit Supervisor of procedural requirements.	_____	_____	_____
CUE	As the Unit Supervisor, acknowledge the report. Inform the Examinee that the actions will be taken.				
22.	NOTIFY IMD to perform LIS-NR-107, Unit 1 APRM/RBM Flow Converter to Total Core Flow Adjustment.	Examinee informs the Unit Supervisor of the need to contact IMD to perform LIS-NR-107.	_____	_____	_____

Job Performance Measure (JPM)

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
CUE	As Unit Supervisor, acknowledge the request. Inform the Examinee that the actions will be taken.				
*23.	DECREASE FCV position to minimum (~ 20%)for tripped Recirc pump.	Examinee decreases FCV position to minimum for tripped 1B Recirc pump.	_____	_____	_____
*24.	When <350 rpm, PLACE all breakers for tripped RECIRC pump in PTL.	Examinee places all breakers for tripped RECIRC pump (1B,2B,3B and 4B) in PTL when speed is <350 rpm.	_____	_____	_____
25.	Inform the Unit Supervisor that the 1B RR breakers are in PTL.	Examinee informs the Unit Supervisor that the 1B RR breakers are in PTL.	_____	_____	_____

<p>Terminating Cue Acknowledge the report. The JPM is complete at this time.</p>

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: NLO RO SRO STA SRO Cert

JPM Title: Downshift Reactor Recirc Pumps IAW LOP-RR-08 with a Failure of One Pump to Off

JPM Number: S-RR-08 Revision Number: 00

Task Number and Title: 22.004 Given Unit Supervisor authorization, Transfer Reactor Recirc Pumps from Fast to Slow Speed, IAW station procedures.

K/A Number and Importance: 202001, A4.01, 3.7/3.7

Suggested Testing Environment: Simulator

Actual Testing Environment: Simulator Plant Control Room

Testing Method: Simulate Perform **Alternate Path:** Yes No **SRO Only:** Yes No

Time Critical: Yes No

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

References: LOP-RR-08 (rev 34); LOA-RR-101 (rev 28) ; LGP 2-1 (rev 84)

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)

INITIAL CONDITIONS

- A reactor shutdown is in progress.
- LGP 2-1 is complete up to step E.1.7.
- A & B Reactor Recirc LFMG set prestarts have been completed.

INITIATING CUE

The Unit Supervisor has directed you to downshift the Reactor Recirc Pumps IAW LOP-RR-08.

You are to inform the Unit Supervisor when both Reactor Recirc Pumps are downshifted.

Exelon Nuclear

Job Performance Measure

Loss of TDRFP speed feedback signal/restore to Auto

JPM Number: SRO/RO – b.

Revision Number: 00

Date: 05/05 /10

Developed By: _____
Facility Author Date

Approved By: _____
Facility Representative 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.

- _____ 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 _____ Rev: _____
 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 00, New JPM developed for 09-1 NRC Exam.

SIMULATOR SETUP INSTRUCTIONS

1. Reset the simulator to a full power IC.

<p>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.</p>

2. Run S:/OPENSIM/CAEP/ILT/Abnormal Ops/TDRFPA Speed Demand.cae and Trigger 1.
3. Take the “A” TDRFP Manual /Backup station Mode Selector to “Manual”
4. Trigger 2.
5. 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.
6. This completes the setup for this JPM.

INITIAL CONDITIONS

Unit 1 is at 100% power. A loss of speed feedback signal occurred on the 1A TDRFP.

INITIATING CUE

Immediate operator actions per LOA-FW-101 step B.2.1 and B.2.2 have been taken. The Unit Supervisor has directed you to continue with the 1A TDRFP feedback signal loss IAW LOA-FW-101 section B.2. 3.

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.

JPM Start Time: _____

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
*01	At the Manual Backup Station, Depress the Alarm Reset Pushbutton.	Examinee depresses the Alarm Reset Pushbutton.	—	—	—
02	CHECK loss of speed demand alarm clear.	Verifies speed demand alarm clear.	—	—	—
*03	Verify TDRFP Manual Backup Station Mode Selector switch is in Manual.	Verifies TDRFP Manual Backup Station Mode Selector switch is in Manual.	—	—	—
*04	PLACE TDRFP Manual Backup Station Mode Selector switch in AUTO.	TDRFP Manual Backup Station Mode Selector switch placed in AUTO.	—	—	—
05	CHECK TDRFP Manual Backup Station Auto Enabled Light Illuminated.	Checks TDRFP Manual Backup Station Auto Enabled Light Illuminated.	—	—	—
	Per LOP-RL-01, VERIFY for component to be placed in AUTO:	N/A	N/A	N/A	N/A
06	No signal failures which will affect operation of the component to be placed in auto	Verifies no signal failures present.	—	—	—
07	No Lockout actuation which will affect operation of the component to be placed in auto.	N/A - No Lockout on the 1A TDRFP verified.	N/A	N/A	N/A
8	If the component is a TDRFP, it has been readied for operation per LOP-FW-04.	N/A, 1A TDRFP in operation.	N/A	N/A	N/A
9	The associated component's Min Flow M/A Station must be in AUTO or the min flow valve must be opened manually enough to protect the pump.	Examinee checks 1A TDRFP Min Flow Valve in Manual.	—	—	—

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
10	No Level Signal Failure (No failure of 3 out of 4 level channels).	Examinee verifies no level signal failures.	—	—	—
*11	DEPRESS AUTO Pushbutton on the associated components M/A station and VERIFY level control is stable.	Examinee depresses AUTO on the 1A TDRFP M/A station and monitors for stable Reactor Water Level.	—	—	—
12	Informs Unit Supervisor that 1A TDRFP is in Auto control per LOP-RL-01	Unit Supervisor informed.	—	—	—
CUE	Inform examinee JPM is complete..				

JPM Stop Time: _____

JPM SUMMARY

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

JPM Title: Respond to a failure of the 1A TDRFP speed demand signal.

JPM Number: SRO/RO – b.

K/A Number and Importance: 259002, A4.03 3.8.

Suggested Testing Environment: Simulator

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

Reference(s): LOA-FW-101 Rev. 9, Reactor Level Feedwater Pump Control Trouble, LOP-RL-01, Rev. 20, Operation of Reactor Level Control System

Actual Testing Environment: Simulator Control Room In-Plant Other

Testing Method: Simulate Perform

Estimated Time to Complete: 25 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

Unit 1 is at 100% power. A loss of speed feedback signal occurred on the 1A TDRFP.

INITIATING CUE

Immediate operator actions per LOA-FW-101 step B.2.1 and B.2.2 have been taken. The Unit Supervisor has directed you to continue with the 1A TDRFP feedback signal loss IAW LOA-FW-101 section B.2. 3.

Exelon Nuclear

Job Performance Measure

RPV Depressurization via RT per LGA-RT-102/ Subsequent leak

JPM Number: SRO/RO – c.

Revision Number: 00

Date: 05/05/10

Developed By: _____
Facility Author Date

Approved By: _____
Facility Representative 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.

- _____ 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 _____ Rev: _____
 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 00, New JPM written for 09-1 ILT NRC Exam.

SIMULATOR SETUP INSTRUCTIONS

1. Reset the simulator to an “at pressure” IC, following a scram.

<p>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.</p>

2. Lineup RT with the RT F/D's bypassed IAW LGA-RT-102, ready to start RPV depressurization per step E.5
3. Throttle the 1G33-F354 open while throttling the 2G33-F042 closed to set flow at approximately 180 gpm.
4. Run cae SRO-RO-C.(installs RT isolation jumpers and a trigger to initiate leak following throttling of the 1G33-F042).
5. Provide marked up copy of LGA-RT-102.
6. 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.
7. This completes the setup for this JPM.

INITIAL CONDITIONS

LGA-001 has been entered and LGA-RT-102, RPV Depressurization Using RWCU in Recirculation Mode, has been performed up to step E.5, ready to start RPV depressurization.

INITIATING CUE

The Unit Supervisor has directed you to review the already performed steps of LGA-RT-102 then commence RPV depressurization per step E.5 of LGA-RT-102. Monitor RPV pressure and inform the Unit Supervisor of every 50 psig reduction in RPV pressure.

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.

JPM Start Time: _____

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
CUE	If requested as US, direct the examinee to throttle open the 1G33-F042, for 2 seconds to determine effects on depressurization.				
*01	THROTTLE 1G33-F042, RWCU Return Upstream Isolation Valve to maintain adequate flow, <u>NOT</u> to exceed 360 gpm, as read on RWCU System Flow, 1G33-R609, and to control RPV depressurization rate.	THROTTLES 1G33-F042, RWCU Return Isolation Valve to maintain adequate flow, <u>NOT</u> to exceed 360 gpm, as read on RWCU System Flow, 1G33-R609,.	—	—	—
NOTE	Forty five (45) seconds after the 1G33-F042, RWCU Return Isolation Valve is throttled, a RWCU leak will occur.(1H13-P601-B507 and C511, Div 1 and 2 Hi Delta Flow) The examinee should notify the Unit Supervisor and take actions per step E.1.a.				
CUE	If requested, RWCU not required for depressurization.				
NOTE	Alternate path starts here.				
*02	Stop the running RWCU pump	Examinee stops the running pump.	—	—	—
NOTE	One (1) of the step 3 and 4 valves are critical, not both. As long as one of the valves is isolated, the critical step is met.				
*03	CLOSE 1G33-F001, RWCU Suct. Inbd. Isol. Vlv.	CLOSES 1G33-F001, RWCU Suct. Inbd. Isol. Vlv.	—	—	—
*04	CLOSE 1G33-F004, RWCU Suct Otbd. Isol. Vlv.	CLOSES 1G33-F004, RWCU Suct Otbd. Isol. Vlv.	—	—	—
NOTE	One (1) of the step 5 and 6 valves are critical, not both. As long as one of the valves is isolated, the critical step is met.				
*05	CLOSE 1G33-F040, RWCU Return Dwnst. Isol. Vlv.	CLOSES 1G33-F040, RWCU Return Dwnst. Isol. Vlv.	—	—	—
*06	CLOSE 1G33-F042, RWCU Return Upstrm. Isol. Vlv.	CLOSE 1G33-F042, RWCU Return Upstrm. Isol. Vlv.	—	—	—
*07	Locally close CRD purge valve 1C11-F450A	Directs EO to locally close CRD purge valve 1C11-F450A	—	—	—

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
*08	Locally close CRD purge valve 1C11-F450B	Directs EO to locally close CRD purge valve 1C11-F450B	—	—	—
09	Notifies Unit Supervisor that the RT system has been isolated per LGA-RT-102.	Notifies Unit Supervisor that the RT system has been isolated per LGA-RT-102.	—	—	—
CUE: JPM is complete.					

JPM Stop Time: _____

JPM SUMMARY

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

JPM Title: RPV Depressurization via RT per LGA-RT-102 / Subsequent Leak

JPM Number: SRO/RO-c. Revision Number: 00

Task Number and Title: 2.2.44 Ability to interpret control room indications to verify the status and operation of a system, and understand how operator actions and directives affect plant and system conditions.

K/A Number and Importance: Emergency, 295025 G.2.2.44, 4.2/4.4

Suggested Testing Environment: Simulator

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

Reference(s): LGA-RT-102, RPV Depressurization using RWCU in Recirculation Mode

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

LGA-001 has been entered and LGA-RT-102, RPV Depressurization Using RWCU in Recirculation Mode, has been performed up to step E.5, ready to start RPV depressurization.

INITIATING CUE

The Unit Supervisor has directed you to review the already performed steps of LGA-RT-102 then commence RPV depressurization per step E.5 of LGA-RT-102. Monitor RPV pressure and inform the Unit Supervisor of every 50 psig reduction in RPV pressure.

Exelon Nuclear

Job Performance Measure

Perform RCIC S/D following spurious init. with failure of the injection valve to close

JPM Number: SRO/RO - d

Revision Number: 00

Date: 05/05/2010

Developed By: _____
Facility Author Date

Approved By: _____
Facility Representative 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.

- _____ 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 _____ Rev: _____
 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)

- 1. Revision 00,** New JPM written for the 2005 NRC Annual Exam by Gordon W. Beale.
- 2. Revision 01,** Revised for formatting and current procedure revision.
- 3. Revision 00** Rev. 0, based on Rev. 1, for ILT NRC 09-1 exam.

SIMULATOR SETUP INSTRUCTIONS

1. Reset the simulator to IC 130, or similar simulator IC conditions.

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. Initiate RCIC by increasing the auto initiation setpoint.
imf MNB080 55
3. Freeze the simulator as soon as 1E51-F045, F013, and F065 are full open. Then set the stroke time [in expert **set vmrj013r=1e8**] to 1e8 seconds.
4. Place the simulator in RUN after the examinee has acknowledged the initiating cue.
5. Ensure the performance of this JPM does not interfere with the performance of any other JPMs.
6. When the above steps are completed for this and other JPMs to be run concurrently, then validate the concurrently run JPMs using the noted steps on the Job Performance Measure Validation Checklist.
7. This completes the setup for this JPM.

THIS JPM IS TIME CRITICAL

INITIAL CONDITIONS

- You are the Unit Assist NSO.
- Unit 1 is at full power.
- The 'RCIC RUNNING' alarm has just been received.

INITIATING CUE

The Unit Supervisor has directed you to respond to the RCIC initiation. Inform the Unit Supervisor when all required actions to shutdown the RCIC system are complete. Do not reset the RCIC turbine.

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.

JPM Start Time: _____

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
01	Refer to LOR-1H13-P601-D406, RCIC Running.	Examinee refers to annunciator procedure.	—	—	—
02	Determine that RCIC injection was inadvertent.	Examinee checks Reactor water level to determine RCIC initiation is inadvertent.	—	—	—
*03	TRIP RCIC Turbine.	Examinee performs the following:			
		Depresses the RCIC Turbine Trip pushbutton.	—	—	—
Note	Examinee should either verbalize that he will check LORs for RCIC turbine trip <u>OR</u> actually check LORs.				
Note	ALTERNATE PATH BEGINS HERE.				
Note	Either action is acceptable when performing Step 4. Mark the other action "N/A".				
04	VERIFY 1E51-F013 and 1E51-F065 are full closed following the RCIC Turbine trip.	Examinee verifies 1E51-F065 is full closed. AND	—	—	—
		Examinee verifies 1E51-F013 is full closed.	—	—	—
Note	1E51-F013 is full open. Examinee will notice this and take actions				
Note	Step 5 must be completed within 4 minutes of the start of the JPM. The time critical portion of this JPM is satisfied when step 5 is performed.				
*05	IF 1E51-F013 and/or 1E51-F065 is NOT full closed following the RCIC Turbine trip, PLACE Feedwater Turbine Trip NORMAL-BYPASS keylock SWITCHES to BYPASS until problem is corrected.	Examinee places BOTH 1E51-F013 Open U1 Main & FW Turb Trip Logic Bypass AND 1E51-F065 Open U1 Main & FW Turb Trip Logic Bypass in BYPASS.	—	—	—

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
06	Examinee Notifies Unit Supervisor of Issue and that RCIC needs to be S/D per LOP-RI-03.	Examinee Informs Unit Supervisor and determines follow-up per LOP-RI-03.	—	—	—
TERMINATING CUE : Acknowledge Report and Inform the Examinee that the JPM is complete.					

JPM Stop Time: _____

JPM SUMMARY

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

JPM Title: Perform RCIC Shutdown Following A Spurious Initiation with a Failure of 1E51-F013 to close

JPM Number: SRO/RO-d Revision Number: 00

Task Number and Title: 32.004 Given Unit Supervisor Authorization, perform Control Room actions to shutdown the RCIC System following operation, IAW Station Procedures.

K/A Number and Importance: 217000 A2.01 3.8/3.7

Suggested Testing Environment: Simulator

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

Reference(s): LOR-1H13-P601-D406, RCIC Running, Rev. 4

Actual Testing Environment: Simulator Control Room In-Plant Other

Testing Method: Simulate Perform

Estimated Time to Complete: 04 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

- You are the Unit Assist NSO.
- Unit 1 is at full power.
- The 'RCIC RUNNING' alarm has just been received.

INITIATING CUE

The Unit Supervisor has directed you to respond to the RCIC initiation. Inform the Unit Supervisor when all required actions to shutdown the RCIC system are complete. Do not reset the RCIC turbine.

THIS JPM IS TIME CRITICAL

Exelon Nuclear

Job Performance Measure

RPIS data fault/ substitute rod position

JPM Number: SRO/RO-e.

Revision Number: 00

Date: 05/05/2010

Developed By: _____
Facility Author **Date**

Approved By: _____
Facility Representative **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.

- _____ 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 _____ Rev: _____
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 00**, This is a New JPM for 2009 Annual Exams based on RCMS modification.
- **Revision 01**, Revised to reflect RCMS installation into Unit 1.
- **Revision 00**, Revised from Rev. 01 for ILT NRC 09-1 exam.

SIMULATOR SETUP INSTRUCTIONS

1. Reset the simulator to a full power IC.

<p>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.</p>

2. Run SRORO-e.cae
 - This cae will create a data fault on rod 42-07 and set a trigger to delete the malfunction on trigger #6 when the insert pushbutton is pushed.
3. Clear any alarms and clear the SER Typer.
4. 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.
5. This completes the setup for this JPM.

INITIAL CONDITIONS

You are the Assist NSO.

Rod 42-07 just lost position information and now shows XX.

There is a DATA FAULT on RCMS.

INITIATING CUE

The Unit Supervisor has directed you to enter LOA-RM-101 Section B.5 for Loss of one or more Control Rod(s) Position Information.

You are to inform the Unit Supervisor when you have completed all actions necessary for this control rod.

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.

JPM Start Time: _____

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
1.	IMMEDIATELY: <ul style="list-style-type: none"> • NOTIFY Shift Manager (SM) • CONTACT QNE • REFER to TS 3.1.3. 	Examinee Notifies Unit Supervisor that the Shift Manager (SM) needs NOTIFIED, the QNE should be CONTACTED and should REFER to TS 3.1.3.	—	—	—
CUE: Acknowledge Report.					
2.	CHECK Control Rod Position – INDICATES “XX” <ul style="list-style-type: none"> ○ SELECT ROD 	Examinee CHECKS Control Rod 42-07 Position INDICATES “XX” and then SELECTS ROD 42-07.	—	—	—
3.	CHECK Control Rod – NOT at position 00/FI prior to indication loss.	Examinee CHECKS Control Rod was NOT at position 00/FI prior to indication loss. (rod 42-07 was full out)	—	—	—
NOTE: If Examinee Reviews a Control Rod Position report, CUE the examinee that the rod was at a full out position.					

*4.	<p>INSERT control rod one notch:</p> <ul style="list-style-type: none"> • PLACE CRD DRIVR FLOW TRIP BYPASS Switch to BYPASS ○ SET RWM Blocks to LPSP ○ Bypass the Rod within RCMS per LOP-RM-02 ○ Bypass RWM, ○ If $\leq 10\%$ RTP, REFER to TS 3.3.2.1 	<p>Examinee PLACES CRD DRIVR FLOW TRIP BYPASS Switch to BYPASS</p> <p>Examinee INSERTS control rod 42-07 one notch by Bypassing the RWM or Bypassing the Rod within the RCMS per LOP-RM-02.</p> <p>Bypasses the RWM by turning the RWM Bypass switch.</p> <ul style="list-style-type: none"> • APPLY one single notch Insert command only, • OBSERVE Drive Flow and INSERT/SETTLE Indicators 	—	—	—
5.	CHECK Control Rod – INDICATES new, valid position.	Examinee CHECKS that Control Rod 42-07 INDICATES new, valid position.	—	—	—
<p>NOTE:</p> <p>Rod 42-07 should indicate position 46 at this point.</p>					
6.	CHECK Sequence – CURRENTLY REQUIRES rod to be withdrawn past the Data Faulted (XX) position.	Examinee CHECKS the Sequence REQUIRES rod to be withdrawn past the bad position.	—	—	—
<p>NOTE:</p> <p>Answer is NO – the rod is INSERTED one notch past its sequence position.</p>					
7.	<p>POSITION Rod per SM/QNE guidance (refer to C.5.6).</p> <ul style="list-style-type: none"> ○ SET Alternate Limit for rod per LOP-RM-02. 	Examinee DETERMINES that he/she needs to LEAVE the ROD at the NEW position and SET an Alternate Limit for rod per LOP-RM-02	—	—	—
<p>NOTE:</p> <p>If the Examinee inquires, provide SM/QNE guidance to leave rod 42-07 at the valid position.</p>					

ALTERNATE PATH APPLIES HERE.**NOTE:**

To enable the Alternate Limits of a Control Rod, PERFORM the following:

CUE:

If asked, no HLA is required.

*8.	DETERMINE desired rod to which Alternate Limits are to be set.	Examinee DETERMINES desired rod to which Alternate Limits are to be set. (Control Rod 42-07)	—	—	—
*9.	SELECT 'SET PARAMETERS' on the ROD SELECT Display or the STATUS Display, whichever is in the CONTROL mode.	Examinee SELECTS 'SET PARAMETERS' on the ROD SELECT Display or the STATUS Display, whichever is in the CONTROL mode.	—	—	—
*10.	SELECT 'SET/RESTORE ALTERNATE LIMITS' on the SET HCU/ROD screen.	Examinee SELECTS 'SET/RESTORE ALTERNATE LIMITS' on the SET HCU/ROD screen.	—	—	—
11.	SELECT the control rod(s) to be provided Alternate Limits.	Examinee SELECTS the control rod (42-07) to be provided Alternate Limits.	—	—	—
NOTE:					
Control Rod 42-07 MAY already be selected – this step may be Conditions Met or N/A.					
*12.	PRESS 'ACCEPT' to change the desired control rod(s) Alternate Limit.	Examinee PRESSES 'ACCEPT' to change the desired control rod (42-07) Alternate Limit of position 46.	—	—	—
13.	ACKNOWLEDGE the popup message "This operation will modify system data. Are you sure you want to proceed?"	Examinee ACKNOWLEDGES the popup message.	—	—	—
NOTE:					
The control rods with alternate limits set will appear in white text on semidark gray background with an orange border.					

15	RETURN to the SELECT screen, if desired, when all alternate limit operations are completed.	Examinee will RETURN to the SELECT screen, if desired, when all alternate limit operations are completed.	—	—	—
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TERMINATING CUE:
 INFORM Examinee that the JPM is complete when the Alternate Limits are Set per LOP-RM-02.

JPM Stop Time: _____

JPM SUMMARY

Operator's Name: _____

Job Title: EO RO SRO FS STA/IA SRO Cert

JPM Title: . Rod Position Indication System/RPIS data fault/ substitute rod position

JPM Number: S-RM-01 Revision Number: 00

Task Number and Title: 47.012 Provided initial indications, perform the Main Control Room actions for a Loss of Control Rod Position Information System

48.002 Given Unit Supervisor authorization, perform actions to substitute rod position in the RWM

K/A Number and Importance: 214000 Rod Position Information System A4.02 Ability to manually operate and/or monitor Control rod position in the control room: (3.8/3.8)

Suggested Testing Environment: Simulator

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

Reference(s): _____ LOA-RM-101, LOP-RM-02 _____

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

You are the Assist NSO.

Rod 42-07 just lost position information and now shows XX.

There is a DATA FAULT on RCMS.

INITIATING CUE

The Unit Supervisor has directed you to enter LOA-RM-101 Section B.5 for Loss of one or more Control Rod(s) Position Information.

You are to inform the Unit Supervisor when you have completed all actions necessary for this control rod.

Exelon Nuclear

Job Performance Measure

Manually Initiate SBTG in response to irradiated fuel assembly damage

JPM Number: SRO/RO-f.

Revision Number: 00

Date: 05/05/10

Developed By: _____
Facility Author _____
Date

Approved By: _____
Facility Representative _____
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.

- _____ 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 _____ Rev: _____
 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 00, New JPM for ILT 09-1 NRC Exam.

SIMULATOR SETUP INSTRUCTIONS

1. Reset the simulator to a post scram condition with level and pressure stable.

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. Run SRO-RO-f cae to insert a high rad condition that causes VR and VP to isolate but SBGTS fails to auto initiate. Also disables the initiation P.B.
3. This completes the setup for this JPM.

INITIAL CONDITIONS

You are the U-1 assist NSO. A dropped fuel bundle during fuel shuffles has caused increased radiation conditions in the Secondary Containment. LGA-002 has been entered. U-2 SBT system is OOS.

INITIATING CUE

The Unit Supervisor has directed you to perform LOA-FH-001, irradiated fuel damage.

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.

JPM Start Time: _____

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
01	CHECK Reactor Building Exhaust Radiation – LESS THAN 10mr/hr.	Examinee discovers radiation levels > 10mr/hr.	—	—	—
02	VERIFY Reactor Building Ventilation System isolated.	Examinee verifies VR fans off and VR isolation dampers closed.	—	—	—
03	VERIFY Primary Containment Ventilation and Purge system isolated.	Examinee verifies Primary Containment Ventilation and Purge system isolated.	—	—	—
04	VERIFY SGBT system started. (May try to initiate via arm and depress P.B. Pushbutton will not work)	Examinee determines SGBT system failed to start and notifies Unit Supervisor.	—	—	—
CUE	Unit supervisor directs examinee to start U-1 SGBT IAW LGA-VG-101 and inform him when it is running.				
CUE	If requested at any time, both WRGM's operating properly.				
*05	VERIFY 1VG001 U1 SGBT Inlet Isol. Vlv., open.	OPENS 1VG001 U1 SGBT Inlet Isol. Vlv., open.	—	—	—
*06	VERIFY U1 SGBT Primary Fan, 1VG01C, on.	STARTS U1 SGBT Primary Fan, 1VG01C, on.	—	—	—
07	VERIFY 1VG003, U1 SGBT Dsch. Vlv. Open.	VERIFIES 1VG003, U1 SGBT Dsch. Vlv. Open.	—	—	—
08	VERIFY U1 SGBT Elec Heating Coil, 1VG01A, on.	Verifies U1 SGBT Elec Heating Coil, 1VG01A, on.	—	—	—
09	VERIFY U1 SGBT Cooling Fan, 1VG02C, off.	Verifies U1 SGBT Cooling Fan, 1VG02C, off.	—	—	—
10	VERIFY SGBT flow 3,600 to 4,400 CFM on U1 SGBT Outlet Flow, 1FR-VG009.	Verifies SGBT flow 3,600 to 4,400 CFM on U1 SGBT Outlet Flow, 1FR-VG009.	—	—	—

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
11	VERIFY SBGT flow 3,600 to 4,400 CFM on U1 SBGT Inlet Flow, 1FI-VG003.	Verifies SBGT flow 3,600 to 4,400 CFM on U1 SBGT Inlet Flow, 1FI-VG003.	—	—	—
TERMINATING CUE – Inform examinee JPM is complete when US notified that SBGT is in operation.					

JPM Stop Time: _____

JPM SUMMARY

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

JPM Title: Manually Initiate SBGT in response to irradiated fuel assembly damage

JPM Number: SRO/RO-f_ Revision Number: 00

Task Number and Title: A2.12, High Fuel Pool Vent Rad

K/A Number and Importance: SBGT, A2.12, 3.2/3.4

Suggested Testing Environment: Simulator

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

Reference(s): LGA-VG-101, Rev. 2, Secondary Containment Pressure Control, LOA-FH-001, Rev.2, Irradiated Fuel Assembly Damage.

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

You are the U-1 assist NSO. A dropped fuel bundle during fuel shuffles has caused increased radiation conditions in the Secondary Containment. LGA-002 has been entered. U-2 SBT system is OOS.

INITIATING CUE

The Unit Supervisor has directed you to perform LOA-FH-001, irradiated fuel damage.

Exelon Nuclear

Job Performance Measure

Installation of Control Rod Block IAW LFP-100-1

JPM Number: SRO/RO-g.

Revision Number: 00

Date: 05/05/10

Developed By: _____
Facility Author _____
Date

Approved By: _____
Facility Representative _____
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.

- _____ 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 _____ Rev: _____
 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 00, New JPM developed for 09-1 ILT NRC exam.

SIMULATOR SETUP INSTRUCTIONS

1. N/A – performed in control room.
2. Have a copy of LFP-100-1 with the top of Att. D filled out, ready to provide the examinee for the lifted lead task.

INITIAL CONDITIONS

U-1 is in REFUEL. Rod shuffles are about to commence. An extra NSO is available to assist you.

INITIATING CUE

The Shift Manager has decided to provide criticality protection by electrically preventing control rod withdrawal per LFP-100-1 step E.3.3. The Unit Supervisor has provided you with two lifted lead tags (LL1 And LL2) and has directed you to perform Attachment D of LFP-100-1 per step E.3.3. Inform the Unit Supervisor when Att. D actions are ready to be entered in the Degraded Equipment log.

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.

JPM Start Time: _____

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	<u>SAT</u>	<u>UNSAT</u>	<u>Comment Number</u>
NOTE: Provide the examinee with a marked copy of Att. D of LFP-100-1, electrical print 1E-1-4206AK/AL, 1E-1-4606AB/AD, and two (2) numbered lifted lead tags (simulated).					
01	Examinee describes where to obtain appropriate personnel protective equipment and a screwdriver, required to lift the leads.	Examinee should indicate Class 00 gloves and eye protection are required.	—	—	— — —
CUE : you have the proper protective equipment and a screwdriver.					
*02	Examinee locates 1H13-P608 TB21-5, and lifts lead.	1H13-P608 TB21-5 lead lifted.	—	—	— — —
CUE	The lead you indicated is lifted.				
*03	Examinee locates 1H13-P608 TB21-5, and tags lead.	1H13-P608 TB21-5 tagged.	—	—	— — —
CUE	The lead you indicated is tagged.				
*04	Examinee locates 1H13-P608 TB42-5, and lifts lead.	1H13-P608 TB42-5 lead lifted.	—	—	— — —
CUE	The lead you indicated is lifted.				
*05	Examinee locates 1H13-P608 TB42-5, and tags lead.	1H13-P608 TB42-5 tagged.	—	—	— — —
CUE	The lead you indicated is tagged.				
06	Examinee signs/dates Att. D for both lifted leads.	Att. D, signed/dated.	—	—	— — —

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	<u>SAT</u>	<u>UNSAT</u>	<u>Comment Number</u>
07	Examinee states the need to place an Equipment Status Tag on 1H13-P603 W/D block light.	Examinee states need for Equipment Status Tag on 1H13-P603 W/D block light.	—	—	— — —
CUE: Acknowledge the W/D (withdraw) block light does not exist and that you will address the PCR change,					
08	Examinee informs Unit Supervisor that Att. D of LFP-100-1 is complete and ready for DEL entry.	Unit Supervisor informed that Att. D of LFP-100-1 is complete and ready for DEL entry.	—	—	— — —
TERMINATING CUE - When Unit Supervisor informed of Att. D. completion and ready for DEL entry, inform the examinee JPM is complete.					

JPM Stop Time: _____

JPM SUMMARY

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

JPM Title: Installation of Control Rod Block IAW LFP-100-1

JPM Number: SRORO-g. Revision Number: 00

Task Number and Title: 605.020, Apply admin requirements of a temp. mod

K/A Number and Importance: Fuel Handling, 234000, A4.02, 3.4/3.7

Suggested Testing Environment: Simulator

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

Reference(s): LFP-100-1 Rev. 47, Master Refuel Procedure

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

U-1 is in REFUEL. Rod shuffles are about to commence. An extra NSO is available to assist you.

INITIATING CUE

The Shift Manager has decided to provide criticality protection by electrically preventing control rod withdrawal per LFP-100-1 step E.3.3. The Unit Supervisor has provided you with two lifted lead tags (LL1 And LL2) and has directed you to perform Attachment D of LFP-100-1 per step E.3.3. Inform the Unit Supervisor when Att. D actions are ready to be entered in the Degraded Equipment log.

Exelon Nuclear

Job Performance Measure

Perform Loss of Bus 141Y Hard Card – Failure to Bus Tie

JPM Number: RO-h.

Revision Number: 00

Date: 05/05/2010

Developed By: _____
Facility Author Date

Approved By: _____
Facility Representative 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.

- _____ 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 _____ Rev: _____
 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)

1. Revision: New JPM written for the 2007 NRC Annual Exam by G.W. Beale
2. Revision 02 Revised for current procedure revision and JPM template.
3. Revision 00 Revised to 00 from 02 for ILT NRC 09-1 exam.

SIMULATOR SETUP INSTRUCTIONS

1. Reset the simulator to IC 65.
2. Go to RUN.
3. Run JPM RO-h.cae
4. Silence and acknowledge annunciators. Freeze the simulator until the first Candidate enters
5. When the above steps are completed for this and other JPMs to be run concurrently, then validate the concurrently run JPMs using the noted steps on the Job Performance Measure Validation Checklist.
6. This completes the setup for this JPM.

INITIAL CONDITIONS

1. You are an assist NSO.
2. Unit 1 has had a Loss of 141Y due to a Breaker 1412 opening.
3. 0 DG did not start and LOA-DG-101 is in progress.
4. Unit 2 is at 100% Power with a normal electric plant lineup.
5. 0 WR Pump is lined up to Unit 2.
6. Operators are standing by to assist you.

INITIATING CUE

The Unit 1 Supervisor has directed you to perform Loss of 141Y Hard Card.

You are to inform the Unit 1 Supervisor when the Loss of 141Y Hard Card is complete.

Another NSO will perform RPS Quick Swap Hard Card.

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.

JPM Start Time: _____

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
01	Verify one WR Pump is running.	Examinee starts 1B WR Pump.	___	___	___
CUE	Another NSO will follow up with LOP-WR-02.				
02	Verify CRD Charging Header Pressure is >500 psig.	Examinee verifies CRD Charging Header Pressure is >500psig.	___	___	___
*03	START standby CRD Pump by HOLDING Control Switch to START position for at least 5 seconds, and then release.	Examinee starts 1B CRD Pump by HOLDING Control Switch to START position for at least 5 seconds, and then releases the switch.	___	___	___
CUE: Another NSO will follow up with LOP-RD-01.					
NOTE: As stated in the cue, another NSO will perform the RPS Quick Swap.					
NOTE: Step 4 is on the IA to IN Cross-Tie Hard Card					
04	Check IN Supplying drywell loads.	Examinee verifies that IN is <u>NOT</u> supplying drywell loads	___	___	___
*05	OPEN 1IN059 and 1IN060, Instrument Air to Drywell Pneumatics Crosstie Valves.	Examinee opens 1IN059 and 1IN060, Instrument Air to Drywell Pneumatics Crosstie Valves.	___	___	___
06	OPEN 1IN017, Drywell Pneumatics 100 lb. Header Isolation Valve.	Examinee verifies open 1IN017, Drywell Pneumatics 100 lb. Header Isolation Valve.	___	___	___
07	At Panel 1PM01J, CHECK A214 CLEAR.	Examinee checks Panel 1PM01J A214 CLEAR.			
08	Verify all three phase voltages are approximately equal using the 141X/Y Voltmeter switch.	Examinee verifies all three phases of voltages equal using the 141X/Y Voltmeter switch.			
*09	If 141X is energized, synchronize and close ACB 1415.	Examinee places Synchroscope Select Switch to ON for breaker 1415			

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
		Examinee attempts to close ACB 1415 and determines it will not close			
NOTE : Alternate Path must apply.					
CUE: If required, the Examiner should state that the Unit Supervisor has determined it is desirable to align 141Y to 241Y.					
*10	CHECK BUS 241Y powered from SAT 242/UAT 241.	The Examinee checks that Bus 241Y is powered from the SAT/UAT.			
CUE : Bus 241Y is powered from the Unit 2 SAT 242 as provided in initial conditions.					
*11	CHECK ACB 2415 - OPEN	The Examinee checks that ACB 2415 is open.			
CUE: Unit 2 NSO reports that ACB 2415 is open.					
NOTE: ACB 2414 was closed in the initial setup for the JPM.					
*12	SYNCHRONIZE and CLOSE ACB 2414.	The Examinee requests that Unit 2 close ACB 2414.			
CUE	Unit 2 NSO reports ACB 2414 is closed.				
*13	SYNCHRONIZE and CLOSE ACB 1414.	Examinee places Synchroscope Select Switch to ON for breaker 1414			
		Examinee closes ACB 1414			
NOTE: Power is restored to Bus 141Y					
14	INFORM the Unit Supervisor.	The Examinee informs the Unit 1 Supervisor that Bus 141Y is energized.			
NOTE: The JPM is complete Bus 141Y is energized and the Unit 1 Supervisor is notified.					

JPM Stop Time: _____

JPM SUMMARY

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

JPM Title: Perform Loss of Bus 141Y Hard Card – Failure to Bus Tie

JPM Number: RO-h Revision Number: 00

Task Number and Title: 5.008, Provided initial conditions respond to a loss of 4Kv ESS bus

K/A Number and Importance: 295003, AA1.01, 3.7/3.8

Suggested Testing Environment: Simulator

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

Reference(s): Loss of 141Y Hard Card Rev 29

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 assist NSO.
6. Unit 1 has had a Loss of 141Y due to a Breaker 1412 opening.
7. 0 DG did not start and LOA-DG-101 is in progress.
8. Unit 2 is at 100% Power with a normal electric plant lineup.
9. 0 WR Pump is lined up to Unit 2.
6. Operators are standing by to assist you.

INITIATING CUE

The Unit 1 Supervisor has directed you to perform Loss of 141Y Hard Card.

You are to inform the Unit 1 Supervisor when the Loss of 141Y Hard Card is complete.

Another NSO will perform RPS Quick Swap Hard Card.

Exelon Nuclear

Job Performance Measure

DC Load Shed after Station Blackout

JPM Number: SRO/RO-i.

Revision Number: 00

Date: 05/05/2010

Developed By: _____
Facility Author Date

Approved By: _____
Facility Representative 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.

- _____ 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 _____ Rev: _____
Procedure _____ Rev: _____
Procedure _____ Rev: _____
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- _____ 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)

1. **Revision 00:** This JPM was written by G.W. Beale for the 2007 NRC Annual Examination.
2. **Revision 01:** This revision was for procedure and JPM template changes.
3. **Revision 00** Revised from rev. 1 for ILT NRC exam.

Materials

1. The following material is required to be provided to examinee:
 - a. One copy of Attachment N of LOA-AP-201
 - b. One laser pointer.

NOTE

This JPM is to be started just inside the 4 line in the RCA on the 710'TB for uniformity of time taken.

NOTE

After the examinee acknowledges the cue, **provide** examinee with copy of LOA-AP-201, Attachment N.

INITIAL CONDITIONS

You are an extra NSO

- A switchyard fault has caused both Units to Scram due to a loss of Offsite Power.
- DGs 1A, 2A and 0 have failed to start.

INITIATING CUE

The Unit Supervisor has directed you perform Step 1 of Attachment N of LOA-AP-201.

You are to inform the Unit Supervisor when Step 1 is complete.

This is a time critical JPM.

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.
- Denotes critical elements of a critical step.

Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section at the bottom of the page. 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.

JPM Start Time: _____

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	<u>SAT</u>	<u>UN</u>	<u>SAT</u>	<u>ent</u>	<u>Nu</u>
NOTE							
This JPM has a critical time of 30 minutes							
NOTE							
This JPM is to be started just inside the 4 line in the RCA on the 710'TB for uniformity of time taken.							
NOTE							
After the examinee acknowledges the cue, provide examinee with copy of LOA-AP-201, Attachment N.							
NOTE							
The following Breakers are on 211X (2DC10E) AB710. They may be opened in any order							
*1.	CB2 FEED WATER PUMP TURB 2A CONTROL	Examinee simulates opening CB2	—	—	—		
CUE							
The breaker you have indicated is in the position you describe.							
*2.	CB12 TURB BLDG LIGHTING CAB #241	Examinee simulates opening CB12	—	—	—		
CUE							
The breaker you have indicated is In the position you describe.							
NOTE							
The following Breakers are on 211Y (2DC11E) AB710. They may be opened in any order							
*3.	CB11 RX BLDG LIGHTING CAB #240	Examinee simulates opening CB11	—	—	—		
CUE							
The breaker you have indicated is in the position you described.							
*4.	CB14 LFMG AUX RLY PNL 2B33-P001A	Examinee simulates opening CB14	—	—	—		

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UN	SAT	ent	Nu
CUE							
The breaker you have indicated is in the position you described.							
NOTE							
The following Breakers are on 212X (2DC12E) AB731. They may be opened in any order							
*5.	CB1 FEED WATER PUMP 2B TURB CONTROL	Examinee simulates opening CB1	—	—	—	—	—
CUE							
The breaker you have indicated is in the position you described.							
*6.	CB2 FEED WATER CONTR SYS PNL 2H13-P613	Examinee simulates opening CB2	—	—	—	—	—
CUE							
The breaker you have indicated is in the position you described.							
*7.	CB4 H2 & STATOR CLNG CABINET 2PL19J	Examinee simulates opening CB4	—	—	—	—	—
CUE							
The breaker you have indicated is in the position you described.							
*8.	CB19 TURB BLDG LIGHTING CAB #243	Examinee simulates opening CB19	—	—	—	—	—
CUE							
The breaker you have indicated is in the position you described.							
NOTE							
The following Breakers are on 212Y (2DC13E) AB731. They may be opened in any order							
*9.	CB9 REACTOR PNL RECIRC SYS "RR" 2B33-P001B	Examinee simulates opening CB9	—	—	—	—	—
CUE							
The breaker you have indicated is in the position you described.							

STEP	ELEMENT	STANDARD	SAT	UN SAT	ent Nu
*10.	CB13 RX BLDG LIGHTING CAB #242	Examinee simulates opening CB13	—	—	—
CUE					
The breaker you have indicated is in the position you described.					
11.	Reports to the Unit Supervisor.	Tells the Unit Supervisor that the Step 1 of Attachment N is complete.	—	—	—
TERMINATING CUE					
Acknowledge report as Unit Supervisor. Inform the Examinee that the JPM is complete. Record the JPM Stop Time in the blank below.					

JPM Stop Time: _____

Operator's Name: _____

Job Title: NLO RO SRO STA SRO Cert

JPM Title:DC Load Shed after Station Blackout

JPM Number:_SRO/RO-i.

Revision Number: _00

Task Number and Title: 5.013 Respond to a Total Loss of AC Power_

K/A Number and Importance: 263000, A4.01, 3.3/3.5

Suggested Testing Environment: Plant

Actual Testing Environment: Simulator Control Room In-Plant

Testing Method: Simulate Alternate Path: Yes No
 Perform SRO Only: Yes No

Time Critical: Yes No

Critical Time:30 minutes

Validation Time 14 minutes **Actual Time:** _____ minutes

References:

LOA-AP-201, Unit 2 AC Power Abnormal, Revision 27; UFSAR 15.9.3.2 and Table 15.9-2

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: _____

INITIAL CONDITIONS

You are an extra NSO

- A switchyard fault has caused both Units to Scram due to a loss of Offsite Power.
- DGs 1A, 2A and 0 have failed to start.

INITIATING CUE

The Unit Supervisor has directed you perform Step 1 of Attachment N of LOA-AP-201.

You are to inform the Unit Supervisor when Step 1 is complete.

This is a time critical JPM.

Exelon Nuclear

Job Performance Measure

Fill the Standby Liquid Control System Solution Tank with an alternate source of water for alternate injection

JPM Number: SRO/RO-j.

Revision Number: 00

Date: 05/05/2010

Developed By: _____
Facility Author _____
Date

Approved By: _____
Facility Representative _____
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.

- _____ 1. Task description and number, JPM description and number are identified.
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- _____ 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 _____ Rev: _____
 Procedure _____ Rev: _____
 Procedure _____ Rev: _____
- _____ 9. Verify cues both verbal and visual are free of conflict.
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SME / Instructor	Date
SME / Instructor	Date
SME / Instructor	Date

Revision Record (Summary)

Rev. 11	8/31/98	Added this page. Revised JPM to reflect Rev. 4 of LGA-SC-02 (hose routing and securing methods). Incorporated new JPM format.
Rev. 12		LGA-SC-102 Rev. 1
Rev. 13	07/15/08	Revised for formatting and procedure revisions.
Rev.00		Rev. from Rev. 13 for 09-1 ILT NRC Exam.

SIMULATOR SETUP INSTRUCTIONS

1. N/A

INITIAL CONDITIONS

- LGA-001 in progress, all control rods fully inserted.
- RPV water level stable at –130 inches.
- RPV pressure is 45 psig.
- The Standby Liquid Control System is the only available injection system and is injecting into the reactor vessel.
- The Standby Liquid Control System Storage Tank is nearly empty; the NSO calculates that the Standby Liquid Control System pump will lose suction in about 20 minutes.
- You have a plant radio.
- Radiological conditions are normal.

INITIATING CUE

The NSO has directed you to fill the Unit 1 Standby Liquid Control System Storage Tank with an alternate source of water per the Alternate Vessel Injection Using Standby Liquid Control System Procedure, LGA-SC-102, Step C.5.d.

You are to notify the Control Room when you have the alternate system lined up.

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.

JPM Start Time: _____

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
01	Obtain LGA-SC-102 procedure and Remote LGA locker key (LA Key).	Obtain or describe where procedure and Remote LGA locker key can be obtained.	—	—	—
02	Obtain Unit 1 LGA-SC-102 Equipment Bag bag containing 2 crescent wrenches, velco straps and locked valve key.	The examinee simulates obtaining the necessary equipment. (outside U-2 AEER 731' AB)	—	—	—
CUE	You have obtained the equipment that you identified..				
NOTE	Locked valve keys are also located in the Unit Supervisor's or WEC desk.				
CUE:	If the examinee checks tank level and begins to wait until the tank is almost empty, inform the examinee that the tank has pumped down.				
NOTE	<p>The intent of the above cue is to inform the examinee that steps to fill the tank with MC or FP may continue. The procedure has the operator wait until the tank is empty before adding water.</p> <p>Based on the initial conditions the operator would expect several hundred gallons to be left in the tank upon initial arrival. This cue is to avoid an awkward waiting period between when the operator is ready to add water and when the procedure requires water to be added.</p>				
CUE:	Inform the examinee that the Control Room reports MC is available.				
NOTE	The examinee may get to this step without obtaining the locked valve key and realize that one is required. If this happens, ask the examinee to tell you where he would obtain the key. If he correctly states "The Unit Supervisor", penalize 5 minutes total transit time, and that he now has the key. The valve is located at eye level on the skid next to the storage tank on 820', southeast corner of the Reactor Building.				
3	UNLOCK and OPEN 1(2)C41-F304, SBLC Storage Tank Clean Demin Water Supply Valve per Attachment 1A of the procedure.	The examinee identifies the correct valve, and simulates repositioning it.	—	—	—
CUE	<p>Inform the examinee that the lock is removed and the valve is open.</p> <p>Then inform the examinee that no flow noise is observed and the Control Room has found that the MC pump discharge pressure equals 0 psig.</p> <p>If examinee references the local level indicator, looks in the tank or reads head tank level, tell him there is no level increase noted.</p>				

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
04	Remove manway cover.	States manway cover to be removed.	—	—	—
CUE:	Inform the examinee that the manway cover is removed.				
NOTE	There are two fire hoses that can be used. The location of these fire hoses is provided in the procedure.				
05	The examinee locates one of the following fire hoses: F109 (U1) FB108 (U1)	The examinee locates fire hose.	—	—	—
06	COMPLETELY UNWIND fire hose.	The examinee simulates unwinding the fire hose.	—	—	—
*07	Route fire hose up side of Storage Tank and secure to side of ladder with velcro straps.	Examinee verbalizes routing and securing of hose to side of Storage Tank ladder.	—	—	—
CUE	After the fire hose is placed in the Storage Tank, inform the examinee that the SBLC pump has started to cavitate. When the nozzle is opened and isolation valve opened, inform the examinee that water is flowing freely from the nozzle.				
*8.	Open OR remove NOZZLE, IF APPLICABLE, AND PLACE HOSE INTO Storage Tank through manway at least 2' into tank.	Examinee verbalizes opening or removing nozzle and placement into tank.	—	—	—
9.	Install manway cover carefully to prevent constricting hose when pressurized.	Examinee verbalizes installation of manway.	—	—	—
*10.	ADD water to the Storage Tank using the fire hose.	The examinee simulates opening the Fire Hose Isolation Valve.	—	—	—
CUE	When the nozzle is opened and isolation valve opened, inform the examinee that water is flowing freely from the nozzle.				
11.	Inform the Control Room.	Control Room informed.	—	—	—

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
NOTE	The JPM is considered complete when the examinee simulates opening the fire hose isolation valve and informs the Control Room.				

JPM Stop Time: _____

JPM SUMMARY

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

JPM Title: Fill the Standby Liquid Control System Solution Tank with an alternate source of water for alternate injection.

JPM Number: SRORO-j. Revision Number: 00

Task Number and Title: 414.010, Control RPV water level using SBLC IAW LGA-SC-102.

K/A Number and Importance: 295031.2, EA1.08, 3.8/3.9

Suggested Testing Environment: Plant

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

Reference(s): LGA-SC-102, Rev. 1,

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

- LGA-001 in progress, all control rods fully inserted.
- RPV water level stable at –130 inches.
- RPV pressure is 45 psig.
- The Standby Liquid Control System is the only available injection system and is injecting into the reactor vessel.
- The Standby Liquid Control System Storage Tank is nearly empty; the NSO calculates that the Standby Liquid Control System pump will lose suction in about 20 minutes.
- You have a plant radio.
- Radiological conditions are normal.

INITIATING CUE

The NSO has directed you to fill the Unit 1 Standby Liquid Control System Storage Tank with an alternate source of water per the Alternate Vessel Injection Using Standby Liquid Control System Procedure, LGA-SC-102, Step C.5.d.

You are to notify the Control Room when you have the alternate system lined up.

Exelon Nuclear
Job Performance Measure

**Manually isolate a stuck open Primary Containment Vacuum
Breaker**

JPM Number: SRO/RO-k.

Revision Number: 00

Date: 05/05/2010

Developed By: _____
Facility Author **Date**

Approved By: _____
Facility Representative **Date**

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 and 12 below.

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 Procedure _____ Rev: _____
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- _____ 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

Job Performance Measure (JPM)**Revision Record (Summary)**

1. **Revision 09,** Revised to new JPM format and incorporated changes for Revision
2. **Revision 10** Revised for formatting, removed unit specific and procedure revision.
3. **Revision 00** Revised from rev. 10 for 09-1 ILT NRC Exam. Changed from High Rad area to non-high rad to add second crit step of closing second isolation valve.

SPECIAL

Once it is determined which unit this JPM will be performed on – the unit designee should be written in the locations necessary within this JPM, including the initial conditions on the next and last pages.

Job Performance Measure (JPM)**INITIAL CONDITIONS**

During a loss of coolant accident (LOCA) on Unit 1 the following conditions exist:

- 1) A Suppression Pool to Drywell Vacuum Breaker is open as indicated in the Control Room.
- 2) Control Room Panel 1H13-P601 indication for Primary Containment Vacuum Breaker 1PC001C shows the valve as not fully CLOSED.
- 3) Reactor Building radiation levels are normal.
- 4) A Radiation Technician is standing by to assist you.
- 5) You have a plant radio.

INITIATING CUE

The Unit 1 NSO has directed you to close the 'C' vacuum breaker IAW LOA-PC-101 "Primary/Secondary Containment Trouble" Section B.2. Step 1.1

You are to notify the Control Room when the vacuum breaker is closed.

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 at the bottom of the page. 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)

JPM Start Time: _____

STEP	ELEMENT	STANDARD	SAT	UNSAT	COMMENT NUMBER
NOTE:	The examiner will act as Rad Tech. Dose rates for plant areas are normal.				
NOTE:	The following determination may not be evident until the Examinee completes the task.				
1.	Assess Reactor Building radiation levels.	The Examinee should determine that based on the initial conditions both isolation valves should be closed.	—	—	—
NOTE:	Locked Valve Keys can be obtained from the WEC or US if not already in possession.				
2.	Obtain a locked valve key.	If required, the Examinee obtains a locked valve key.	—	—	—
NOTE:	The Examiner may choose to simulate having the Examinee obtain a small crescent wrench if he does not possess one.. Vacuum Breaker is just off RB elevator on 740' elevation.				
*3	CLOSE the "C" Vacuum Breaker (1PC001C) using a small crescent wrench.	The Examinee simulates closing the "C" Vacuum Breaker using a small crescent wrench, by moving it clockwise.	—	—	—
CUE:	The Vacuum Breaker does NOT close.				
ALTERNATE PATH BEGINS HERE.					
NOTE:	The Examinee should use Attachment B to locate the correct isolation valves for the "C" Vacuum Breaker				
NOTE:	Based on Area Radiation Readings the examinee should close both isolation valves – 1PC003C and 1PC002C.				
CUE: The isolation valves may be inaccessible due too rad or ladder conditions. If the examinee points to the valve, inform him of the EPN # on the valve tag. (1PC003C for step 4 and 1PC002C for step 5)					

Job Performance Measure (JPM)

STEP	ELEMENT	STANDARD	SAT	UNSAT	COMMENT NUMBER
*4	UNLOCK and CLOSE 1PC003C on 725'6 RB SW on DW N of elevator above DW equipment Drain Pumps.	The Examinee simulates unlocking and closing either 1PC003C,	—	—	—
CUE:	The valve is unlocked and closed		—	—	—
*5	UNLOCK and CLOSE 1PC002C on 751' RB SW on DW, N of elevator.		—	—	—
6	The Examinee exits the radiation area and notifies the Unit NSO that the "C" Vacuum Breaker is ISOLATED.	The Examinee exits the area and simulates notifying the Unit NSO that the "C" Vacuum Breaker is ISOLATED.	—	—	—
TERMINATING CUE:	Acknowledge the Report and inform the examinee that the JPM is complete.				
NOTE:	The Examinee may make a notification of Tech Spec and TRM due to procedural steps in LOA-PC-1(2)01.				

JPM Stop Time: _____

Job Performance Measure (JPM)

Operator's Name: _____

Job Title: NLO RO SRO STA SRO Cert

JPM Title: Manually isolate a stuck open Primary Containment Vacuum Breaker

JPM Number:SRORO-k.

Revision Number: 00

Task Number and Title: 90.01 "Perform in-plant actions cycling and isolating a stuck open vacuum breaker"

K/A Number and Importance: 223001, A2.02, 3.9/4.1

Suggested Testing Environment: Plant

Testing Method: Simulate Perform **Alternate Path:** Yes No **SRO Only:** Yes No

Time Critical: Yes No

Estimated Time to Complete: 12 minutes **Actual Time Used:** ___minutes

References: LOA-PC-101 Revision 14, LOA-PC-201, Revision 16

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)**INITIAL CONDITIONS**

During a loss of coolant accident (LOCA) on Unit 1 the following conditions exist:

- 1) A Suppression Pool to Drywell Vacuum Breaker is open as indicated in the Control Room.
- 2) Control Room Panel 1H13-P601 indication for Primary Containment Vacuum Breaker 1PC001C shows the valve as not fully CLOSED.
- 3) Reactor Building radiation levels are normal.
- 4) A Radiation Technician is standing by to assist you.
- 5) You have a plant radio.

INITIATING CUE

The Unit 1 NSO has directed you to close the 'C' vacuum breaker IAW LOA-PC-101 "Primary/Secondary Containment Trouble" Section B.2. Step 1.1

You are to notify the Control Room when the vacuum breaker is closed.