LaSalle Training

Job Performance Measure

Emergency Start of the ‘0’ DG IAW LOA-DG-201 via the K98 Relay.

JPM Number: i. 07-01 NRC SRO-RO Plant

Revision Number: 08

Procedure: LOA-DG-201, Rev. 3

Date: 07/28/2008

Plant RO/SRO 3.6 Electrical 264000, EDGs K/A A2.09 I.R. 3.7/4.1 A, D, E, R

Developed By: _____ _____

Facility Author **Date**

Validated By: _____ _____

Facility Author **Date**

Reviewed By: _____ _____

Facility Representative **Date**

Approved By: _____ _____

Training Department **Date**

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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

Revision Record (Summary)

1. **Revision 3,** Revised task numbers to reflect current task numbers
   Revised K/A numbers to reflect NUREG 1021 Rev 8
   Revised format to meet NTAFT JLOR03 Rev 1
   Changed JPM to Revised steps to reflect LOA-DG-201 Rev1
   Made JPM unit specific

2. **Revision 4,** Revised task number for new operations task list.

3. **Revision 5,** Revised JPM for Windows 2000 computers and validation time.

4. **Revision 6** Added step to check DC Power Available and initiating cue to the Examinee's initial conditions.

5. **Revision 7** Minor formatting and editorial changes. Updated to reflect criteria from NuReg 1021, Rev. 9, Supplement 1 and NuReg 1123, Rev. 2, Supplement 1.

6. **Revision 8** Changed JPM (based on NRC comments) such that the examinee is provided a marked up copy of LOA-DG-201 and is directed to begin at step B.1.3 per the initial conditions. This resulted in changing the steps and cues in the JPM body.

Materials

1. The following material is required to be provided to examinee:

   a. One copy of LOA-DG-201 marked up and ready to perform step B.1.3.

INITIAL CONDITIONS

- You are an extra NSO.
- Unit 2 has experienced a LOCA.
- The Unit 2 SAT has tripped.
- The ‘0’ DG has failed to start.
- The 0 DG READY FOR AUTO START light is lit.
- Radiation conditions in the plant are at or below normal levels.
- All other systems are normal.

INITIATING CUE

The Unit 2 Supervisor has directed you to locally start the ‘0’ DG IAW LOA-DG-201 “DG Failure” beginning at step B.1.3.
Notify the Unit 2 Control Room when the '0' DG is started.

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 Start Time: _____

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
CUE Provide the examinee with a marked up copy of LOA-DG-201, ready to perform step B.1.3.					
1.	Proceed to 0 DG Room.	Examinee goes to 0 DG room.	___	___	___
CUE IF the Examinee calls the control room to verify steps B.1.1 and B.1.2 are complete, report that the 0 DG Ready for Auto Start light is still lit and DC Power is available.					
2.	B.1.3 ESTABLISH communications between the Unit 2 Control Room and 0 DDG Room to OBSERVE Air Start Motor operation during start attempts.	Examinee simulates calling U-2 Control Room (ext. 2408 or 2407)	___	___	___
CUE You are talking to the Unit 2 Assist NSO.					
3.	B.1.4 REMOTELY START – 0 DG	Examinee coordinates with U-2 Assist NSO to remotely start 0 DG by taking the 0DG Engine Control Switch in the U-2 Control Room to the START position.	___	___	___
CUE As U2 Assist NSO, state that the 0 DG Engine control switch is in the START position.					
CUE Inform the examinee that there is no noise changes in the 0DG Room, nor any movement on the DG.					
4.	B.1.5 CHECK 0 DG – NOT RUNNING	Examinee determines that 0 DG is NOT running (remains in left hand column of LOA-DG-201).	___	___	___
5.	B.1.6 CHECK Air Start Motors – DID NOT ENGAGE.	Examinee determines that Air Start Motors did NOT engage (remains in left hand column of LOA-DG-201).	___	___	___
6.	B.1.7 PLACE 0DG02JB, 0HS-DGS001, 0 DG Engine Control Switch to – MAN	Examinee places switch 0HS-DGS001 to MAN.	___	___	___

Job Performance Measure

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
CUE The switch you identified is in the position you indicated.					
7.	B.1.8 DEPRESS and HOLD 0HS-DGS004, 0 Diesel Generator Engine Start pushbutton for a minimum of 2 seconds.	Examinee depresses 0HS-DGS004, 0 Diesel Generator Engine Start pushbutton for at least 2 seconds.	___	___	___
CUE You hear no noise changes nor see any movement on the ‘0’ DG.					
8.	B.1.9 CHECK 0 DG – NOT RUNNING	Examinee determines that 0 DG is not running (remains in left hand column of LOA-DG-201).	___	___	___
9.	B.1.10 CHECK Air Start Motors – DID NOT ENGAGE.	Examinee determines that Air Start Motors did not engage (remains in left hand column of LOA-DG-201).	___	___	___
10.	B.1.11 PLACE 0DG02JB, 0HS-DGS001, 0 DG Engine Control Switch to – AUTO	Examinee PLACES 0HS-DGS001, 0 DG Engine Control Switch to – AUTO	___	___	___
CUE The switch you identified is in the position you indicated.					
11.	B.1.12 CHECK LOCA initiation signal present.	Examinee checks with U2 Assist NSO, or determines LOCA signal is present due to Initial Conditions (Unit 2 has experienced a LOCA).	___	___	___
CUE As U2 Assist NSO, there is a LOCA signal present on Division 1.					
12.	B.1.13 ESTABLISH communications between Unit 2 Control Room and Unit 2 Div. 1 Auxiliary Electric Equipment Room.	Examinee goes to Unit 2 Div. 1 Auxiliary Electric Equipment Room and calls control room.	___	___	___
CUE You are talking to the Unit 2 Assist NSO.					

Job Performance Measure

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
*13. Critical Step	B.1.14 CHECK Low Level/ Hi Drywell Pressure relay 2E12A-K098A at 2H13-P629 – CLOSED	Examinee checks relay status describing how relay would look if open/closed.	___	___	___
CUE The relay is as you see it.					
NOTE This starts the alternate path. Examinee moves to right hand column of LOA-DG-201.					
*14. Critical Step	B.1.14.1 REMOVE relay 2E12A-K098A cover.	Examinee simulates/describes removing the relay cover.	___	___	___
CUE The relay cover is removed.					
*15. Critical Step	B.1.14.2 MANUALLY INITATE and HOLD relay 2E12A-K098A for a minimum of 20 seconds.	Examinee repositions (pushes in) relay and holds for a minimum of 20 seconds.	___	___	___
CUE The relay is in the positioned you described.					
16.	B.1.15 CHECK 0 DG – NOT RUNNING	Examinee determines that 0 DG is running.	___	___	___
CUE When the examinee returns to the phone with U2, as the U2 Assist NSO report that the 0 DG running light is lit, and the field is flashed.					
17.	B.1.15.1 If 0DG is running, then go to step 26.	Examinee determines that the next step to be performed is step 26.			
Terminating Cue When the examinee determines that step 26 is the next step to be informed, inform the examinee the JPM is complete at this time.					

JPM Stop Time: _____

Job Performance Measure

Operator's Name: _____

Job Title: ☐RO ☐SRO-I ☐SRO-U

JPM Title: Emergency Start of the '0' DG IAW LOA-DG-201 via the K98 Relay

JPM Number: **i. 07-01 NRC SRO-RO Plant** **Rev. Number:** 08

Task Number and Title: 11.003 Perform the in-plant actions for a DG start failure

Safety Function: 3.6 Electrical

K/A Number and Importance: 264000 A2.09 I.R. 3.7/4.1

Suggested Testing Environment: Plant

Actual Test Environment: ☐Simulator ☒Plant ☐CR ☐Other _____

Test Method: ☒ Simulate ☐ Perform

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

Time Critical: ☐ Yes ☒ No

Estimated Time to Complete: 25 minutes

Actual Time Used: _____minutes

References: LOA-DG-201, Rev. 3

EVALUATION SUMMARY:

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

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

Comments:_____

_____

_____

_____

_____

_____

_____

_____

_____

Evaluator's Name:_____(Print)

Evaluator's Signature:_____ Date:_____

Job Performance Measure

STUDENT COPY

INITIAL CONDITIONS

- You are an extra NSO.
- Unit 2 has experienced a LOCA.
- The Unit 2 SAT has tripped.
- The ‘0’ DG has failed to start.
- The 0 DG READY FOR AUTO START light is lit.
- Radiation conditions in the plant are at or below normal levels.
- All other systems are normal.

INITIATING CUE

The Unit 2 Supervisor has directed you to locally start the ‘0’ DG IAW LOA-DG-201 “DG Failure” beginning at step B.1.3.
Notify the Unit 2 Control Room when the '0' DG is started.

LaSalle Training Department
Job Performance Measure

Remove Fuses for a Stuck Open SRV per LOA-SRV-201

JPM Number: j. - SRO-RO Plant NRC 07-01 SRV

Revision Number: 10

Procedure: LOA-SRV-201, Rev. 5

Date: 07/28/08

Plant RO/SRO 3.3 Reactor Pressure Control 239002 K/A A2.03 I.R. 4.1/4.2 D, E

Developed By: _____ _____
Facility Author Date

Validated By: _____ _____
Facility Author Date

Reviewed By: _____ _____
Facility Representative Date

Approved By: _____ _____
Training Department Date

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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

Revision Record (Summary)

1)	Rev. 08	08/24/98	Reformatted, revised to new procedure LOA-SRV-101
2)	Rev. 09	10/10/05	Changed from F to K SRV. Made the JPM so it could be performed on either Unit. Updated task to Operations task list number.
3)	Rev. 10	02/27/08	Minor editorial changes for use during 07-01 NRC ILT Exam. Updated to meet criteria of NuReg 1021, Rev. 9, Supplement 1.

INITIAL CONDITIONS

1. Unit-2 is operating at 80% power.
2. The Unit-2 Control Room has positive indication that SRV 2B21-F013K ("K" SRV) has spuriously opened.

INITIATING CUE

You have been directed to remove the fuses for SRV 2B21-F013K in accordance with LOA-SRV-201, Step B.8.

Refer to LOA-SRV-201, Table 1, "SRV Fuses" for fuse identification.

Inform the Unit-2 NSO when the fuses are removed.

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 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: _____

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
CUE: Provide the examinee with a copy of LOA-SRV-201.					
NOTE: Panels 2H13-P628 & 2H13-P645 are located in the Division 1 AEER. The fuses for K SRV can be removed in any order. Steps below are in the order the fuses are listed in Table 1.					
1.	Examinee locates panel 2H13-P628.	Examinee correctly identifies panel 2H13-P628	___	___	___
NOTE: Fuse pullers are normally located in the SRV cabinets. If fuse pullers are not present in the SRV cabinet, ask examinee "Where can you get a set of fuse pullers?" If they identify any of the following, tell them that they now have a set of fuse pullers. (Do not add any time, the JPM time is validated assuming the fuse pullers are in the SRV cabinet). -EO storage locker (Swgr rooms) -LGA Locker -From another SRV fuse cabinet. -From an EO.					
CUE: As the examinee describes the removal of each fuse, acknowledge the fuse removal with the following response: "The fuse you have indicated is in the position you describe."					
2.	REFER to Table 1 "SRV Fuses" to IDENTIFY fuses associated with stuck open SRV.	Examinee refers to Table 1 to identify fuses F43 and F44 located at panel 2H13-P628 for K SRV.	___	___	___
*3. Critical Step	Remove fuses F-43 (TB-FF, fuse 9).	Examinee removes fuse F-43 (TB FF, fuse 9).	___	___	___
*4. Critical Step	Remove fuses F-44 (TB-FF, fuse 10).	Examinee removes fuse F-44 (TB FF, fuse 10).	___	___	___

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
5.	Examine locates panel 2H13-P645.	Examinee correctly identifies panel 2H13-P645.	___	___	___
6.	REFER to Table 1 to IDENTIFY fuses associated with stuck open SRV.	Examinee refers to Table 1 to identify fuses F63B and F64B located at panel 2H13-P645 for K SRV	___	___	___
*7. Critical Step	Remove fuse F-63B (TB DD, 11 from right).	Examinee removes fuse F-63B (TB DD, 11 from right).	___	___	___
*8. Critical Step	Remove fuse F-64B (TB DD, 12 from right.)	Examinee removes fuse F-64B (TB DD, 12 from right.)	___	___	___
9.	Examinee reports to Unit NSO that fuses for Unit-2 K SRV have been removed.	Examinee reports the fuses for 2B21-F013K have been removed.	___	___	___
CUE: Acknowledge the report. The JPM is considered complete.					

JPM Stop Time: _____

Operator's Name: _____

Job Title: ☐RO ☐SRO-I ☐SRO-U

JPM Title: Remove Fuses for a Stuck Open SRV per LOA-SRV-201

JPM Number: j. - SRO-RO Plant NRC 07-01 SRV **Rev. Number:** 10

Task Number and Title: 40.005 Respond to a Stuck Open SRV IAW LOA-SRV-201

Safety Function: 239002 Relief/Safety Valves (3.3 Reactor Pressure Control)

K/A Number and Importance: A2.03, Stuck Open SRV, 4.1/4.2

Suggested Testing Environment: Plant

Actual Test Environment: ☐Simulator ☒Plant ☐MCR ☐Other _____

Test Method: ☒ Simulate ☐ Perform

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

Time Critical: ☐ Yes ☒ No

Estimated Time to Complete: 16 minutes

Actual Time Used: _____minutes

References: LOA-SRV-201, Rev. 5

EVALUATION SUMMARY:

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

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

Comments:_____

Evaluator's Name:_____(Print)

Evaluator's Signature:_____ Date:_____

STUDENT COPY

INITIAL CONDITIONS

1. Unit-2 is operating at 80% power.

2. The Unit-2 Control Room has positive indication that SRV 2B21-F013K (“K” SRV) has spuriously opened.

INITIATING CUE

You have been directed to remove the fuses for SRV 2B21-F013K in accordance with LOA-SRV-201, Step B.8.

Refer to LOA-SRV-201, Table 1, “SRV Fuses” for fuse identification.

Inform the Unit-2 NSO when the fuses are removed.

LaSalle Training

Job Performance Measure

Line up the CRD System for Injection into the RPV

JPM Number: k.07-01 NRC SRO-RO Plant

Revision Number: 09

Procedure: LGA-RD-01, Rev. 09

Date: 07/28/2008

Plant RO/SRO 3.2 Reactor Water Inventory Control E/APE 295031 K/A EA1.10 I.R. 3.6/3.7 D, E, R

Developed By:	Facility Author	Date
Validated By:	Facility Author	Date
Reviewed By:	Facility Representative	Date
Approved By:	Training Department	Date

Job Performance Measure

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

Revision Record (Summary)

1. **Rev. 02** Added steps and revised step sequence consistent with current procedure. Added scoring instructions and this page**.**

2. **Rev. 03** Revised to reflect Rev. 8 of LGA-RD-01.

3. **Rev. 04** Not documented

4. **Rev. 05** Revised to incorporate changes from Revision 9 of LGA-RD-01, added wording to clarify task standards.

5. **Rev. 06** Revised to incorporate 2002 estimated time and other Windows 2000 changes.

6. **Rev. 07** Added Notes to identify Manual Auto Stations for 1C11-F002A and B. Changed cue for two steps to indicate that knob is full clockwise not that the valve is open.

7. **Rev. 08** Changed bank JPM titled “PRD03R7” into this JPM for use in ILT Class 07-01 NRC Exam. The change includes minor formatting and editorial changes, and also any update required to reflect changes to NuReg 1021, Rev. 9, Supplement 1, and NuReg 1123, Rev. 2, Supplement 1.

8. **Rev. 09** Changed step 5 such that it is not a critical step since the valve is normally in the open position. Changed step 5 to be in line with the valve being in the open position. Other minor editorial changes made to improve the JPM.

Job Performance Measure

INITIAL CONDITIONS

1. A LOCA has occurred on Unit1.
2. All control rods are fully inserted.
3. Reactor water level is currently at –112 inches and lowering at 0.5 inches per minute.
4. LGA-RD-01, “Alternate Vessel Injection Using Both CRD Pumps” is in-progress and has been completed up to and including step C.7.

INITIATING CUE

The Unit 1 NSO has directed you to perform LGA-RD-01, “Alternate Vessel Injection Using Both CRD Pumps” beginning at Step C.8.

NOTIFY the Unit 1 NSO when the CRD Drive Water PCV BYPASS Valve, 1C11-F004, is OPEN.

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 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 Start Time: _____

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
NOTE The M/A Stations for 1C11-F002A/B are labeled 1C11-D009A/B.					
CUE: Provide the examinee a marked up copy of the Alternate Vessel Injection Using Both CRD Pumps Procedure, LGA-RD-01, procedure.					
*1. Critical Step	Step 8.a PLACE AUTO-MAN upper switch for 1C11-F002A, 'A' CRD FLOW CONTROL VALVE to MAN.	The Examinee simulates placing the upper switch for 1C11-F002A to MANUAL.	____	____	____
CUE The valve you indicated is in manual.					
*2. Critical Step	Step 8.b TURN lower knob for 1C11-F002A; 'A' CRD FLOW CONTROL VALVE to FULL INCREASE (clockwise direction).	The Examinee simulates turning the lower knob for 1C11-F002A in the clockwise direction to FULL INCREASE.	____	____	____
CUE The knob is full clockwise.					
*3. Critical Step	Step 8.c PLACE AUTO-MAN upper switch for 1C11-F002B, 'B' CRD FLOW CONTROL VALVE to MAN.	The Examinee simulates placing the upper switch for 1C11-F002B to MANUAL.	____	____	____
CUE The valve you indicated is in manual.					
*4. Critical Step	Step 8.d TURN lower knob for 1C11-F002B, 'B' CRD FLOW CONTROL VALVE to FULL INCREASE (clockwise direction).	The Examinee simulates turning the lower knob for 1C11-F002B in the clockwise direction to FULL INCREASE.	____	____	____

Job Performance Measure

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
CUE The knob is full clockwise.					
5.	Step 9.a OPEN 1C11-F034, CRD CHARGING WATER HEADER STOP.	The Examinee simulates verifying open 1C11-F034.	____	____	____
CUE The valve you indicated is open.					
6.	Step 9.b VERIFY OPEN 1C11-F046A, 'A' CRD FCV UPSTRM VALVE.	The Examinee simulates verifying open 1C11-F046A.	____	____	____
CUE The valve you indicated is open.					
*7. Critical Step	Step 9.c VERIFY OPEN 1C11-F046B, 'B' CRD FCV UPSTRM VALVE.	The Examinee simulates verifying open 1C11-F046B.	____	____	____
CUE The valve you indicated is open.					
8.	Step 9.d VERIFY OPEN 1C11-F047A, 'A' CRD FCV DWNST VALVE.	The Examinee simulates verifying open 1C11-F047A.	____	____	____
CUE The valve you indicated is open					
*9. Critical Step	Step 9.e VERIFY OPEN 1C11-F047B, 'B' CRD FCV DWNST VALVE.	The Examinee simulates verifying open 1C11-F047B.	____	____	____
CUE The valve you indicated is open					

Job Performance Measure

STEP	ELEMENT	STANDARD	SAT	UNSAT	Comment Number
*10. Critical Step	Step 10. OPEN 1C11-F003, CRD DRIVE PRESSURE CONTROL VLV at CR Panel 1H13-P603.	Examinee simulates notifying the Control Room to open 1C11-F003.	____	____	____
CUE The Control Room informs you that 1C11-F003 is open.					
NOTE 1C11-F004 is located in the SE corner RB 761' north of the FCV'S.					
*11. Critical Step	Step 11. OPEN 1C11-F004, CRD DRIVE WATER PCV BYPASS VALVE.	The Examinee simulates opening 1C11-F004.	____	____	____
CUE The valve you indicated is open.					
12.	Examinee INFORMS the Unit NSO the 1C11-F004, CRD DRIVE WATER PCV BYPASS VALVE is OPEN.	The Examinee simulates informing the Unit 1 NSO that 1C11-F004 is OPEN.	____	____	____
CUE The JPM is complete when the examinee informs the Unit 1 NSO the 1C11-F004, CRD DRIVE WATER PCV BYPASS VALVE is OPEN.					

JPM Stop Time: _____

Job Performance Measure

Operator's Name: _____

Job Title: ☐RO ☐SRO-I ☐SRO-U

JPM Title: **Line up the CRD System for Injection into the RPV**

JPM Number: **k.07-01 NRC SRO-RO Plant** ` **Rev. Number:** **09**

Task Number and Title: 413.010, Evaluate plant conditions and Control RPV level using CRD

Safety Function: 3.2 Reactor Water Inventory Control

K/A Number and Importance: E/APE 295031 K/A EA1.10 **I.R.** 3.6/3.7

Suggested Testing Environment: Plant

Actual Test Environment: ☐Simulator ☒Plant ☐MCR ☐Other _____

Test Method: ☒ Simulate ☐ Perform

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

Time Critical: ☐ Yes ☒ No

Estimated Time to Complete: 14 minutes

Actual Time Used: _____minutes

References: LGA-RD-01, Rev. 09

EVALUATION SUMMARY:

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

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

Comments:_____

Evaluator's Name:_____(Print)

Evaluator's Signature:_____ Date:_____

STUDENT COPY

INITIAL CONDITIONS

1. A LOCA has occurred on Unit 1.

2. All control rods are fully inserted.

3. Reactor water level is currently at –112 inches and lowering at 0.5 inches per minute.

4. LGA-RD-01, “Alternate Vessel Injection Using Both CRD Pumps” is in-progress and has been completed up to and including step C.7.

INITIATING CUE

The Unit 1 NSO has directed you to perform LGA-RD-01, “Alternate Vessel Injection Using Both CRD Pumps” beginning at Step C.8.

NOTIFY the Unit 1 NSO when the CRD Drive Water PCV BYPASS Valve, 1C11-F004, is OPEN.