

LaSALLE NRC EXAM 2006-301

Job Performance Measure a.

Candidate Name: _____

LASALLE COUNTY STATION

JPM a.

Facility: LaSalle County Station U1/U2

Date: November 13, 2006

Task Title: Respond to Loss of RPIS Displays

Job Performance Measure No: C.R. a

K/A Reference: 214000K303

Method of testing:

Simulated Performance _____ Actual Performance ✗

Classroom _____ Simulator ✗ Plant _____

Read to the examinee:

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues.

Initial Conditions: You are an extra SRO on shift.

The plant is at 100% power, NOP/NOT. No equipment is out of service. It was discovered that Control Rod 22-19 is out of service due to a rupture in its accumulator. The control rod was being inserted from the full out position when an RPIS INOP alarm was received. The last observed position for the control rod was notch 24.

INITIATING CUE:

Complete insertion of control rod 22-19 per LOA-RM-101, Unit 1 RMCS Abnormal Situations.

Task Standard: Correctly insert control rod 22-19 per LOA-RM-101. CRD drive pressure must be raised 50 psid to allow the control rod to be inserted.

Time Critical Task: Yes/No

CAUTION

Prior to notching control rods to verify position displays, a Qualified Nuclear Engineer shall be consulted for guidance. In order to verify control rod position, a rod shall initially be inserted only one notch from its assumed position (or withdrawn one notch if assumed to be at position 00). If there is a need to notch further, consult a QNE for additional guidance.

JPM Start Time: _____

1. _____ Performance step: COMPLETE Attachment B and Forward a copy to IMD for Troubleshooting.

Standard: Dispatches operator to AEER to complete Attachment B

CUE: None

NOTE: The following step is a conditional step with no required action at this time.

2. _____ Performance step: ENSURE compliance with Tech Spec 3.1.3 while continuing below. If a rod must be fully inserted, PERFORM Att. C.

Standard: Reviews or request US review Tech Spec 3.1.3 for applicability.

Cue: None

3. x Performance step: Fill out Attachment C check list as follows:
LIST the control rod, to be inserted, in the order of insertion.
RECORD the current position of the applicable control rod.
RECORD the insert time, for the applicable control rod from the current LOS-RD-SR5.
RECORD the insert stall flow, for the applicable control rod from the current LOS-RD-M2 (Attachment A).

Standard: Enters required data.

Cue: When requested provide copies of current LOS-RD-SR5 and LOS-RD-M2 (Attachment A)

Comment:

4. _____ Performance step: Review and print PPC 'LPRM Status' Display for LPRM power readings before inserting any control rod(s).

Standard: Prints 'LPRM Status' Display.

Cue: None

Comment: None

5. _____ Performance step: Notify IMD to be prepared to manually read the RPIS probe after the rod is inserted.

Standard: Notifies IMD

Cue: IMD technicians are on station.

Comment: None

6. _____ Performance step: Ensure the LPRM Status Display is entered into one of the Control Room Screens.

Standard: LPRM Status Display is appears on one of the Control Room screens.

Cue: None

Comment: None

7. _____ Performance step: INSERT control rod while timing and observing the following:
Expected LPRM power decay.
Expected DECREASE in Reactor Power.

Standard: Depresses CONTINUOUS INSERT (emergency) push-button. Observes power indications. Times rod motion.

Cue: None

Comment: None

8. X Performance step: Control rod full in should be indicated by:
Stall Flow is observed
IMD verification of full in reed switch actuation
Control rod insertion time is approximately equal to the
previous LOS-RD-SR5 value from the time the insert PB
was initially depressed,

Standard: Stall flow is observed.

Cue: IF requested, as IMD technician report "Full-In reed switch is closed."

Comment: Applicant should also observed that insertion time is approximately equal to
previous data. – This in NOT critical.

9. Performance step: If some of the elements above are not observed within the
current LOS-RD-SR5 time frame, CONTINUE to attempt
insert for up to 90 seconds.
RELEASE the Control Rod Insert Push Button(s).

Standard: All elements are observed and Control Rod Insert Push-button is released.

Cue: None

Comment: None

10. Performance step: If the control rod was inserted for the full 90 seconds and
still did not pick up the full in reed switch, ELEVATE CRD
pressure per LOA-RD-101 for Stuck Control Rod and re-
attempt movement from step 3.

If the reed switch resistance readings are inconclusive,
EVALUATE the other data to determine whether or not the
rod is fully inserted.

VALIDATE the conclusions with the QNE.

Standard: Discusses conclusions with QNE.

Cue: The rod is fully inserted.

Comment: None

11. _____ Performance step: If all of the elements in step 6 were observed within the approximate rod travel time indicated by LOS-RD-SR5, or based on all data observed and with QNE consultation the CRS determines that the control rod is full in, CHECK that the control rod is full in on the checklist and LOG time.

Standard: Completes data entry.

Cue: None

Comment: None

12. _____ Performance step: If additional control rods are required to be inserted, select the next rod and continue at step 3.

After all rods have been inserted, REVIEW and PRINT PPC 'LPRM Status' Display power readings.

ATTACH both PPC 'LPRM Status' Display prints to this Attachment.

Standard: No additional rods to be inserted. Attaches LPRM Status Display printout to attachment.

Cue: JPM is Complete.

Comment: None

JPM End Time: _____

LaSALLE NRC EXAM 2006-301

Job Performance Measure b.

Candidate Name: _____

LASALLE COUNTY STATION

JPM b.

Facility: LaSalle County Station U1/U2

Date: November 13, 2006

Task Title: Initiate HPCS with a Failure of the Manual Initiation Push-Button

K/A Reference: 295031 EA1.04

Method of testing:

Simulated Performance _____ Actual Performance ✘

Classroom _____ Simulator ✘ Plant _____

Read to the examinee:

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues.

Initial Conditions: You are an extra SRO on shift.

- A loss of all feedwater has resulted in a scram of the unit.
- The LGAs have been entered.
- Reactor water level is slightly above -50".
- RCIC is OOS for mechanical maintenance.
- Grid voltage has been oscillating.
- An operator is standing by to assist you.

INITIATING CUE:

The Unit Supervisor directs you to manually initiate HPCS using the pushbutton.
Notify the Unit Supervisor when HPCS is injecting.

Task Standard: Correctly determine the pushbutton start of HPCS has failed.
 Manually align valves and start the HPCS pump. Establish flow to
 the RPV.

Time Critical Task: Yes/No

LASALLE COUNTY STATION

JPM b.

Note: All steps of this JPM are to be completed at control room panel 1H13-P601 unless otherwise noted.

JPM Start Time: _____

1. _____ Performance step: Arm manual initiation logic.

Standard: Examinee turns HPCS MANUAL INITIATION pushbutton to ARM.

Cue: None

Comment: None

2. _____ Performance step: Initiates HPCS.

Standard: Examinee depresses HPCS MANUAL INITIATION pushbutton

Cue: None

Comment: None

3. x Performance step: Recognizes failure to initiate and reports to SRO.

Standard: Examinee recognizes failure to initiate and reports to US.

Cue: As US, acknowledge report.

Comment: If candidate asks for guidance, inform them to continue until HPCS is injecting

4. x Performance step: Manually start HPCS pump.

Standard: Examinee turns HPCS PMP control switch to START

Cue: None

Comment: None

5. _____ Performance step: VERIFY HPCS pump start.

Standard: Examinee verifies pump start by observation of pump amp meter and discharge pressure.

Cue: None

Comment: If examinee immediately opens the injection valve after starting the HPCS pump, 1E22-F012 may not open.

6. _____ Performance step: VERIFY 1E22-F012, HPCS MIN FLOW VLV opens.

Standard: Examinee verifies 1E22-F012, HPCS MIN FLOW VLV opens.

Cue: None

Comment: None

7. x Performance step: Open 1E22-F004 HPCS INJECTION VLV

Standard: Examinee turns 1E22-F004, HPCS INJECTION VLV control switch to OPEN.

Cue: None

Comment: None

8. _____ Performance step: Verify HPCS system injection.

Standard: Flow verified using system flow indications and/or reactor water level increasing.

Cue: None

Comment: None

9. _____ Performance step: INFORM Unit Supervisor that HPCS is injecting to the reactor.

Standard: Examinee informs the Unit Supervisor that HPCS is injecting to the reactor.

LASALLE COUNTY STATION

JPM b.

Cue: AS Unit Supervisor, acknowledge information.

JPM Stop Time: _____

LaSALLE NRC EXAM 2006-301

Job Performance Measure c.

Candidate Name: _____

Facility: LaSalle County Station U1/U2

Date: November 13, 2006

Task Title: Turbine Bypass Valve Surveillance IAW LOS-TG-M4

K/A Reference: 241000. A1.07

Method of testing:

Simulated Performance _____ Actual Performance ✘

Classroom _____ Simulator ✘ Plant _____

Read to the examinee:

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues.

Initial Conditions: You are an extra SRO on shift.

1. Unit 1 is at 100% power.
2. LOS-TG-M4, "Turbine Bypass Valve Surveillance," is in progress on Unit 1.
3. LOS-TG-M4 has been completed through step E.2.1.

INITIATING CUE:

 You to perform LOS-TG-M4, "Turbine Bypass Valve Surveillance," on Unit 1 using Attachment 1A of LOS-TG-M4.

Task Standard: Correctly complete LOS-TG-M4, "Turbine Bypass Valve Surveillance."

Time Critical Task: Yes/No

JPM Start Time: _____

Note: If Bypass Valves are controlling Reactor pressure:
Do NOT perform this attachment.
STATE reason this attachment not performed in Comments
Section.
MAKE a DEL entry to ensure Bypass Valves are tested to meet
Tech Specs. Step is N/A.

TEST 1B21-MSBPV-1 as follows:

1. _____ Performance step: CHECK the Bypass Valve READY TO SELECT
light is energized.

Standard: Bypass Valve READY TO SELECT light is energized.
Cue: None

Comment: None

2. x Performance step: PLACE the BYPASS VALVE TEST selector switch
in position 1.

Standard: BYPASS VALVE TEST selector switch is in position 1.

Cue: None

Comment: None

3. x Performance step: DEPRESS the TEST BYPASS VALVE button and
OBSERVE ACCEPTANCE CRITERIA:
1B21-MSBPV-1 to FULL OPEN.
1B21-MSBPV-1 exhibits Fast Open
characteristics.

Standard: Verifies the following: 1B21-MSBPV-1 to FULL OPEN.
1B21-MSBPV-1 exhibits Fast Open
characteristics.

Cue: None

Comment: None

4. x Performance step: RELEASE the TEST BYPASS VALVE button and OBSERVE ACCEPTANCE CRITERIA:
1B21-MSBPV-1 to FULL CLOSED.

Standard: Verifies 1B21-MSBPV-1 to FULL CLOSED.

Cue: None

Comment: None

5. Performance step: If MSBPV did NOT fast open, REVIEW PPC data.

Standard: Step is N/A.

6. Performance step: ALLOW the plant to stabilize for at least 2 minutes before testing the next bypass valve.

Standard: Allows 2 minutes for stabilization.

Cue Two minutes have elapsed.

Comment: Allow applicant to continue to test 1B21-MSBPV-2.

7. x Performance step: CHECK the Bypass Valve READY TO SELECT light is energized.

Standard: Bypass Valve READY TO SELECT light is energized.

8. x Performance step: PLACE the BYPASS VALVE TEST selector switch in position 2.

Standard: BYPASS VALVE TEST selector switch is in position 2.

Cue: None*10.

Comment: None

9. x Performance step: DEPRESS the TEST BYPASS VALVE button and OBSERVE ACCEPTANCE CRITERIA:
1B21-MSBPV-2 to FULL OPEN.
1B21-MSBPV-2 exhibits Fast Open

characteristics.

Standard: Verifies the following:
1B21-MSBPV-2 to FULL OPEN.
1B21-MSBPV-2 exhibits Fast Open characteristics.

Cue: None

Comment: None

10. Performance step: RELEASE the TEST BYPASS VALVE button and OBSERVE ACCEPTANCE CRITERIA:
1B21-MSBPV-2 to FULL CLOSED.

Standard: Verifies 1B21-MSBPV-2 to FULL CLOSED.

Cue: None

Comment: None

11. Performance step: CHECK the Bypass Valve READY TO SELECT light is energized.

Standard: Bypass Valve READY TO SELECT light is energized.

Cue: None

Comment: None

12. Performance step: If MSBPV did NOT fast open, REVIEW PPC data.

Standard: Step is N/A.

Cue: None

Comment: None

13. Performance step: ALLOW the plant to stabilize for at least 2 minutes before testing the next bypass valve.

Standard: Allows 2 minutes for stabilization.

Cue: Two minutes have elapsed.

Comment: TEST 1B21-MSBPV-3 as follows:

14. Performance step: CHECK the Bypass Valve READY TO SELECT light is energized.

Standard: Bypass Valve READY TO SELECT light is energized.

Cue: None

Comment: None

15. Performance step: PLACE the BYPASS VALVE TEST selector switch in position 3.

Standard: BYPASS VALVE TEST selector switch is in position 3.

Cue: None

Comment: None

16. Performance step: DEPRESS the TEST BYPASS VALVE button and OBSERVE ACCEPTANCE CRITERIA:
1B21-MSBPV-3 to FULL OPEN.
1B21-MSBPV-3 exhibits Fast Open characteristics.

Standard: Verifies the following:
1B21-MSBPV-3 to FULL OPEN.
1B21-MSBPV-3 exhibits Fast Open characteristics.

Cue: None

Comment: None

17. Performance step: RELEASE the TEST BYPASS VALVE button and OBSERVE ACCEPTANCE CRITERIA:
1B21-MSBPV-3 to FULL CLOSED.

Standard: Verifies 1B21-MSBPV-3 to FULL CLOSED.

18. x Performance step: CHECK the Bypass Valve READY TO SELECT light is energized.

Standard: Bypass Valve READY TO SELECT light is energized.

Cue: None

Comment: None

19. Performance step: If MSBPV did NOT fast open, REVIEW PPC data.

Standard: Step is N/A.

Cue: None

Comment: None

20. Performance step: ALLOW the plant to stabilize for at least 2 minutes before testing the next bypass valve.

Standard: Allows 2 minutes for stabilization.

Cue: None

Comment: TEST 1B21-MSBPV-4 as follows:

21. Performance step: CHECK the Bypass Valve READY TO SELECT light is energized.

Standard: Bypass Valve READY TO SELECT light is energized.

Cue: None

22. x Performance step: PLACE the BYPASS VALVE TEST selector switch in position 4.

Standard: BYPASS VALVE TEST selector switch is in position 4.

Cue: None

Comment: None

23. x Performance step: DEPRESS the TEST BYPASS VALVE button and OBSERVE ACCEPTANCE CRITERIA:
1B21-MSBPV-4 to FULL OPEN.
1B21-MSBPV-4 exhibits Fast Open characteristics.

Standard: Verifies the following:
1B21-MSBPV-4 to FULL OPEN.
1B21-MSBPV-4 exhibits Fast Open characteristics.

Cue: None

Comment: None

24. x Performance step: RELEASE the TEST BYPASS VALVE button and OBSERVE ACCEPTANCE CRITERIA:
1B21-MSBPV-4 to FULL CLOSED.

Standard: Verifies 1B21-MSBPV-4 to FULL CLOSED.

Cue: None

Comment: None

25. x Performance step: CHECK the Bypass Valve READY TO SELECT light is energized.

Standard: Bypass Valve READY TO SELECT light is energized.

Cue: None

Comment: None

26. Performance step: If MSBPV did NOT fast open, REVIEW PPC data.

Standard Step is N/A.

Cue: None

Comment: None

27. _____ Performance step: ALLOW the plant to stabilize for at least 2 minutes before testing the next bypass valve.

Standard: Allows 2 minutes for stabilization.

Cue: Two minutes have elapsed.

Comment: TEST 1B21-MSBPV-5 as follows:

28. _____ Performance step: CHECK the Bypass Valve READY TO SELECT light is energized.

Standard: Bypass Valve READY TO SELECT light is energized.

Cue: None

Comment: None

29. _____ Performance step: PLACE the BYPASS VALVE TEST selector switch in position 5.

Standard: BYPASS VALVE TEST selector switch is in position 5.

Cue: None

Comment: None

30. x Performance step: DEPRESS the TEST BYPASS VALVE button and OBSERVE ACCEPTANCE CRITERIA:
1B21-MSBPV-5 to FULL OPEN.
1B21-MSBPV-5 exhibits Fast Open characteristics.

Standard: Verifies the following:
1B21-MSBPV-5 to FULL OPEN.
1B21-MSBPV-5 exhibits Fast Open characteristics.

Cue: None

Comment: None

31. X Performance step: RELEASE the TEST BYPASS VALVE button and OBSERVE ACCEPTANCE CRITERIA:
1B21-MSBPV-4 to FULL CLOSED.

Standard: Verifies 1B21-MSBPV-4 to FULL CLOSED.

Cue: None

Comment: None

32. Performance step: If MSBPV did NOT fast open, REVIEW PPC data.

Standard: Step is N/A.

Cue: None

Comment: None

33. Performance step: CHECK the Bypass Valve READY TO SELECT light is energized.

Standard: Bypass Valve READY TO SELECT light is energized.

Cue: None

Comment: None

34. Performance step: PLACE the BYPASS VALVE TEST selector switch in OFF.

Standard: BYPASS VALVE TEST selector switch is in OFF.

Cue: None

Comment: None

35. Performance step: If fast opening characteristics were NOT confirmed on any Bypass Valve(s) PERFORM the following.

Standard: Step is N/A.

Cue: None

LASALLE COUNTY STATION

JPM c.

Comment: This JPM is complete when the fast opening characteristics were confirmed on all Bypass Valves.

JPM Stop Time: _____

LaSALLE NRC EXAM 2006-301

Job Performance Measure d.

Candidate Name: _____

Facility: LaSalle County Station U1/U2

Date: November 13, 2006

Task Title: Upshift the "A" and "B" Reactor Recirc Pumps

K/A Reference: 202001.A4.01

Method of testing:

Simulated Performance _____ Actual Performance ✘

Classroom _____ Simulator ✘ Plant _____

Read to the examinee:

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues.

Initial Conditions: You are an extra SRO on shift.

1. Unit 1 is starting up following an extended outage and the reactor is at 29% power.
2. LGP 1-1 has been completed up to the last step of E.6.4.
3. Reactor water level is about 37".
4. Both RR pumps are operating in slow speed.
5. OD-3 Flow Control Line < 66.7% has been verified.
6. Operators are standing by to assist you.

INITIATING CUE:

The Unit Supervisor has directed you to upshift the "A" and "B" reactor recirc pumps to fast speed IAW LOP-RR-05 Step E.1. Inform the Unit Supervisor when the Low Power/Low Flow interlocks are returned to normal.

Task Standard: Correctly upshift reactor recirc pumps A and B to fast speed.

Time Critical Task: Yes/No

JPM Start Time: _____

Note: All steps of this JPM are to be completed at control room panel H13-P602 unless otherwise noted.

It is the candidate's choice of which pump to up-shift first.

Steps 1-8 of this JPM apply to both RR pumps. B RR pump up-shift steps begin at step 14.

1. _____ Performance step: Verify both RR pumps in slow speed with Flow Control Valves full open.

Standard: Slow speed operation and flow control valve position verified by the following:
LFMG SET GEN BRKR 2A and 2B are closed.
LFMG SET DRIVE MOTOR BKR 1A and 1B are closed.
"A" and "B" RR MOTOR BKR 3A and 3B are open.
"A" and "B" RR motor speeds are 450 rpm.
"A" and "B" RR Loop flow controllers indicate FCV position at 100%.

Cue: None

Comment: None

2. _____ Performance step: Verify reactor power between 25% and 35%.

Standard: Control room panel H13-P603 APRM recorders are verified to be indicating between 25% and 35% reactor power.

Cue: IF examinee questions whether the FCL < 66.7%, inform him "Assume the FCL <66.7%."

Comment: None

3. _____ Performance step: Verify reactor operation is below the 66.7% flow control line.

Standard: Control room panel H13-P603 reactor power and core flow indications are compared and reactor is verified to be below the 66.7% flow control line using the graph on the rod sequence book, -or- Use initial conditions data.

Cue: None

Comment: None

4. _____ Performance step: CHECK "A" and "B" RR Loop flow controllers are in manual.

Standard: "A" and "B" Loop flow controller "Manual" pushbutton are verified backlit.

Cue: None

Comment: None

5. _____ Performance step: CHECK RR MOTOR BKR 4A and 4B are closed.

Standard: "A" RR MOTOR BKR 4A and "B" RR MOTOR BKR 4B verified closed.

Cue: None

Comment: None

6. _____ Performance step: CHECK feedwater flow is greater than 2.83 Mlbm/hr.

Standard: Feedwater flow verified to be >2.83 Mlbm/hr at control room panel H13-P603.

Cue: None

Comment: None

7. _____ Performance step: CHECK recirc loop suction to steam dome DTs are >10.1°F.

Standard: At 1DS001 Interlock panel, verifies that recirc loop suction to steam dome DTs are >10.1°F not solid blue.

Cue: None

Comment: None

8. _____ Performance step: CHECK reactor water level is 31.5" to 40.5" (between the high and low level alarms).

Standard: Reactor water level is verified to be 31.5" to 40.5" at control room panel H13-P603.

Cue: None

Comment: None

9. _____ Performance step: Bypass the A & B RR Interlocks.

Standard: At the 1DS001, examinee selects Loop A & B "Low Flow Bypass" and then PRESSES the ACTIVATE button, then selects Loop A & B "Low Power Bypass" and then PRESS the ACTIVATE button.

Cue: None

Comment: None

10. x Performance step: Close A(B) RR flow control valve to minimum.

Standard: A(B) RR loop flow control station lower pushbutton depressed until the FCV indicates minimum position(<20% indicated).

Cue: None

Comment: None

11. _____ Performance step: At the 1DS001, Operator Station Interlocks Screen, verify the following interlocks are RESET.

Standard: The following are RESET:
A & B RR Loop "Feedwater Flow Low"
A & B RR Loop "Suction Delta Temp Low"

Cue: None

Comment: None

12. _____ Performance step: Verify high speed start permissive for A(B) RR pump.

Standard: 1A(1B) RR PMP START PERMISSIVE "HI SPEED" light verified to be lit.

Cue: None

Comment: None

13. _____ Performance step: INITIATE TADS data logger to collect data.

Standard: At the 1DS001, Examinee selects the TADS button.

Cue: Events list shows TADS initiated.

Comment: None

14. x Performance step: Start the A(B) RR pump in fast speed.

Standard: Control switch for 1A(1B) RR MOTOR BKR 3A(3B) taken to start.

Cue: None

Comment: None

15. _____ Performance step: Verify proper shift to fast speed sequence.

Standard: Sequence monitored by observing the following:
LFMG SET DRIVE MOTOR BKR 1A(1B) opens.
LFMG SET GEN BKR 2A(2B) opens.
1A(1B) RR MOTOR BKR 3A(3B) closes when pump speed decreases to 350 rpm.
1A(1B) RR pump speed increase to ~1750 rpm.
Reactor levels drops then returns to level controller setpoint.
Reactor power increases and then stabilizes.

Cue: None

Comment: The candidate should allow plant conditions to stabilize prior to upshifting the second pump keeping in mind that LOP-RR-05 gives the following precaution DO NOT delay upshift of the second pump to minimize loop to loop DT.

16. _____ Performance step: Close B(A) RR flow control valve to minimum.

Standard: B(A) RR loop flow control station lower pushbutton depressed until the FCV indicates minimum position(<20% indicated).

Cue: None

Comment: None

17. _____ Performance step: At the 1DS001, Operator Station Interlocks Screen, verify the following interlocks are RESET.

Standard: The following are RESET:
A & B RR Loop "Feedwater Flow Low"
A & B RR Loop "Suction Delta Temp Low"

Cue: None

Comment: None

18. _____ Performance step: Verify high speed start permissive for B(A) RR pump.

Standard: 1B(1A) RR PMP START PERMISSIVE "HI SPEED" light verified to be lit.

Cue: None

Comment: None

19. _____ Performance step: INITIATE TADS data logger to collect data.

Standard: At the 1DS001, Examinee selects the TADS button.

Cue: Events list shows TADS initiated.

Comment: None

20. x Performance step: Start the B(A) RR pump in fast speed.

Standard: Control switch for 1B (1A) RR MOTOR BKR 3B (3A) taken to start.

Cue: None

Comment: None

21. _____ Performance step: Verify proper shift to fast speed sequence.

Standard: The RR Pump will fails to upshift to FAST speed and will be tripped.
Sequence monitored by observing the following:

- LFMG SET DRIVE MOTOR BKR 1B(1A) opens.
- LFMG SET GEN BKR 2B(2A) opens.
- 1B(1A) RR MOTOR BKR 3B(3A) does NOT close when pump speed decreases to 350 rpm.

Cue: None

Comment: None

22. Performance step: Enters LOA-RR-101, "Unit 1, Reactor Recirculation System Abnormal" due to failure of 1B(1A) RR Pump to upshift to FAST speed.

Standard: Enters LOA-RR-101, "Unit 1, Reactor Recirculation System Abnormal" due to failure of 1B(1A) RR Pump to upshift to FAST speed.

Cue: None

Comment: None

23. Performance step: CHECK at least one Recirc pump operating.

Standard: One Recirc pump is verified operating.

Cue: None

Comment: None

24. Performance step: PERFORM Subsection B.1, Core Instabilities, while continuing.

Standard: Verifies that Subsection B.1, Core Instabilities, is being implemented while continuing.

Cue: Another NSO will perform Subsection B.1, Core Instabilities.

Comment: None

25. Performance step: CHECK "A" and "B" RR Loop flow controllers are in manual.

Standard: "A" and "B" Loop flow controller "Manual" pushbuttons are verified backlit.

Cue: None

Comment: None

26. _____ Performance step: CHECK operating Recirc Pump in HIGH SPEED.

Standard: Operating Recirc Pump verified in HIGH SPEED.

Cue: None

Comment: None

27. _____ Performance step: INITIATE required actions of Tech Spec 3.4.1 for Single Loop Operation.

Standard: REDUCE MCPR.
REDUCE APLHGR.
REDUCE LHGR (if required by COLR).
PERFORM LIP-NR-519A/B, Unit 1 APRM Channel A, B,C, D, E, and F
and RBM Channel A/B Single Recirculation Loop Setpoint Entry and Exit.
Required actions of Tech Spec 3.4.1 for Single Loop Operation initiated.

Cue: Required actions of Tech Spec 3.4.1 for Single Loop Operation have been initiated.

Comment: This JPM is complete when the required actions of Tech Spec 3.4.1 for Single Loop Operation have been initiated.

JPM Stop Time: _____

LaSALLE NRC EXAM 2006-301

Job Performance Measure e.

Candidate Name: _____

LASALLE COUNTY STATION

JPM e.

Facility: LaSalle County Station U1/U2

Date: November 13, 2006

Task Title: Start one Loop of RHR and Establish Max Suppression Pool Cooling with the Hard Card with a Failure of First Loops' 1E12-F068 Valve to Open.

K/A Reference: 219000A301

Method of testing:

Simulated Performance _____ Actual Performance ✘

Classroom _____ Simulator ✘ Plant _____

Read to the examinee:

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues.

Initial Conditions: You are an extra SRO on shift.

1. A Transient has occurred.
2. Hard Card use is authorized.
3. An operator is standing by to assist you.

INITIATING CUE:

The Unit Supervisor has directed you to start a loop of RHR in Suppression Pool Cooling. Inform the Unit Supervisor when an RHR loop is running in suppression pool cooling.

Task Standard: Correctly align RHR into the Suppression Pool Cooling Mode of operation.

Time Critical Task: Yes/ No

LASALLE COUNTY STATION

JPM e.

JPM Start Time: _____

Note: All steps of this JPM are to be completed at control room panel 1H13-P601 unless otherwise noted.
The first loop's 1E12-F068 valve will not open forcing the examinee to choose the other loop.

Sim Op When it is clear which loop the examinee will choose as his first loop to place in suppression pool cooling, fail the open indication of that loops' 1E12 F068 valve by inserting one of the following commands in expert mode: Loop A IOR q1p19rrn off, or, Loop B IOR q1p11rrn off

It is not necessary to insert this before the examinee's attempt to open the first loops' 1E12-F068 valve but it will be necessary before he attempts the second loops' 1E12-F068.

Examinee's actions with the first RHRSW loop after the attempted opening of 1E12-F068A/B do not affect the outcome of this JPM.

1. x Performance step: OPEN 1E12-F068A/B, A/B RHR Hx Wtr Otlt Vlv.

Standard: Examinee tries to open 1E12-F068A/B, A/B RHR Hx Wtr Otlt Vlv.

Cue: None

Comment: None

2. x Performance step: Examinee determines 1E12-F068A/B will not open.

Standard: Applicant reports to US that 1E12-F068A/B will not open.

Cue: If examinee reports that 1E12-F068A/B will not open, repeat the message back without giving further direction

Comment: Examinee shifts to other 1E12-F068A/B and opens that valve.

3. x Performance step: START RHR Service Water Pump 1E12-C300A/B/C/D.

Standard: Examinee starts RHR Service Water Pump 1E12-C300A/B/C/D.

Cue: None

Comment: Flow indication should be monitored by the Examinee on FI-1E12-R602A/B.

4. x Performance step: When A/B Loop RHR Service Water flow rate increases to greater than 3000 gpm, START RHR Service Water Pump 1E12-C300A/B/C/D.

Standard: Examinee starts RHR Service Water Pump 1E12-C300A/B/C/D when A/B Loop RHR Service Water flow rate is >3000 gpm.

Cue: None

Comment: None

5. x Performance step: START RHR Service Water Pump 1E12-C300A/B/C/D.

Standard: Examinee starts RHR Service Water Pump 1E12-C300A/B/C/D.

Cue: None

Comment: None

6. x Performance step: START 1E12-C002A/B, A/B RHR Pump

Standard: Examinee turns 1E12-C002A/B, A/B RHR Pump control switch to START.

Cue: None

Comment: None

7. x Performance step: THROTTLE OPEN 1E12-F024A/B A/B RHR Test to SP Vlv to maintain flow between 1500 and 7450 gpm as indicated on 1E12-R603A/B.

Standard: Examinee turns 1E12-F024A/B A/B RHR Test to SP Vlv control switch to OPEN and establishes between 1500 to 7450 gpm flow.

Cue: None

Comment: When 1E12-F048A/B, A/B RHR Hx Bypass Stop is closed this ends the time critical portion of this JPM.

8. x Performance step: THROTTLE CLOSED 1E12-F048A/B, A/B RHR Hx Bypass Stop

Standard: Examinee takes 1E12-F048A/B, A/B RHR Hx Bypass Stop control switch to CLOSE until closed light is lit and OPEN light is extinguished.

Cue: None

Comment: None

9. Performance step: Inform Unit Supervisor that task is complete.

Standard: Examinee notifies Unit Supervisor '1A/B' RHR is running in max suppression pool cooling.

Cue: AS Unit Supervisor, acknowledge information.

This JPM is complete.

JPM Stop Time: _____

LaSALLE NRC EXAM 2006-301

Job Performance Measure f.

Candidate Name: _____

LASALLE COUNTY STATION

JPM f.

Facility: LaSalle County Station U1/U2

Date: November 13, 2006

Task Title: Perform RWM Operability Surveillance for Decreasing Reactor Power Below 10%.

K/A Reference: 201006A3.02

Method of testing:

Simulated Performance _____ Actual Performance ✘

Classroom _____ Simulator ✘ Plant _____

Read to the Applicant:

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues.

Initial Conditions: You are an extra SRO on shift.

1. Unit 1 Shutdown is in progress.
2. Reactor Power is approximately 15%.

INITIATING CUE:

You are to perform LOS-RW-SR1, Attachment 1A in preparation for the Unit 1 shutdown. Inform the Unit Supervisor when LOS-RW-SR1, Attachment 1A is complete.

Task Standard: LOS-RW-SR1 is correctly completed.

Time Critical Task: Yes No

LASALLE COUNTY STATION

JPM f.

JPM Start Time: _____

Note: All steps of this JPM are to be completed at control room panel 1PM05J unless otherwise noted.

1. x Performance step: SELECT the A CPU of the RWM.

Standard: Applicant SELECTS the A CPU of the RWM.

Cue: None

Comment: None

2. x Performance step: SELECT any out of sequence control rod **NOT** at notch position 48.

Standard: Applicant SELECTS any out of sequence control rod **NOT** at notch position 48.

Cue: None

Comment: None

3. x Performance step: ATTEMPT to single notch withdraw the control rod.

Standard: Applicant ATTEMPTS to single notch withdraw the control rod.

Cue: None

Comment: None

4. x Performance step: VERIFY a control rod withdrawal block is being applied preventing the control rod from moving.

Standard: Applicant VERIFY's a control rod withdrawal block is being applied preventing the control rod from moving.

Cue: None

Comment: None

LASALLE COUNTY STATION

JPM f.

5. **x** Performance step: SELECT an in sequence control rod.

Standard: Applicant SELECTS an in sequence control rod.

Cue: None

Comment: None

6. Performance step: At panel 1H13-P603, VERIFY alarm window A308 clears.

Standard: Applicant VERIFIES alarm window A308 clears.

Cue: None

Comment: None

7. **x** Performance step: SELECT the B CPU of the RWM.

Standard: Applicant SELECTS the B CPU of the RWM.

Cue: None

Comment: None

8. **x** Performance step: SELECT any out of sequence control rod **NOT** at notch position 48.

Standard: Applicant SELECTS any out of sequence control rod **NOT** at notch position 48.

Cue: None

Comment: None

9. **x** Performance step: ATTEMPT to single notch withdraw the control rod.

Standard: Applicant OBSERVES control rod withdrawl one notch.

Cue: None

Comment: None

10. x Performance step: DETERMINE control rod withdrawal block is **NOT** preventing rod motion and that TS 3.3.2.1.2 & 3.3.2.1.3 apply.

Standard: Applicant DETERMINES control rod withdrawal block is **NOT** preventing rod motion and that TS 3.3.2.1.2 & 3.3.2.1.3 apply.

Cue: None

Comment: None

11. x Performance step: NOTIFIES Unit Supervisor that selected control rod moved and RWM is inoperable.

Standard: Applicant NOTIFIES Unit Supervisor that RWM is inoperable.

Cue: The Unit Supervisor directs you to restore the control rod back to its original position. And to select the operable RWM CPU per LOP-RW-01 step E.2 and continue the shutdown.

Comment: None

12. x Performance step: SELECTs previously selected control rod and single notch the rod back to original position.

Standard: Applicant SELECTS previously selected control rod and single notch the rod back to original position.

Cue: None

Comment: None

13. Performance step: Obtain LOP-RW-01 step E.2 for guidance on selection of the Alternate RWM System During Normal Operations.

Standard: Applicant obtains LOP-RW-01 step E.2

Cue: None

Comment: None

14. _____ Performance step: VERIFY 'READY' light is lit for the alternate system.

Standard: Applicant VERIFIES 'READY' light is lit for the alternate system.

Cue: None

Comment: None

15. x Performance step: MOVE the A/B SELECTOR Switch to the A CPU system and VERIFY the respective 'ON LINE' light is lit.

Standard: Applicant MOVES the A/B SELECTOR Switch to the A CPU system, and VERIFIES the respective 'ON LINE' light is lit.

Cue: This JPM is complete.

Comment: None

JPM Stop Time: _____

LaSALLE NRC EXAM 2006-301

Job Performance Measure g.

Candidate Name: _____

LASALLE COUNTY STATION

JPM g.

Facility: LaSalle County Station U1/U2

Date: November 13, 2006

Task Title: Control Room HVAC / Emergency Makeup Unit Startup

K/A Reference: 288000A401

Method of testing:

Simulated Performance _____ Actual Performance ✖

Classroom _____ Simulator ✖ Plant _____

Read to the Applicant:

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues.

Initial Conditions: You are an extra SRO on shift.

- Unit 1 was scrammed and then a loss of all primary containment cooling was experienced.
- The Field Supervisor is attempting to determine the cause for the failure of the VP system.
- Drywell temperature and pressure are rising.
- LGA-003 has been entered due to high drywell temperature.
- Chemistry has sampled the containment and reported that rad release limits will not be exceeded if the Primary Containment is vented.

INITIATING CUE:

Another NSO is performing LGA-VQ-01 and has requested assistance. The Unit Supervisor has directed you to perform LGA-VQ-01, Attachment B in preparation for venting the containment. An operator with a copy of the procedure is standing by to assist you.

Inform the Unit Supervisor when the "A" VC Recirculation Charcoal Filter has been started and the plant operator has been directed to startup the "A" VE Charcoal Filter per step 9 of Attachment B of LGA-VQ-01.

Task Standard: The A VC Recirculation Charcoal Filter has been started and the plant operator has been directed to start up the A VE Charcoal Filter per step 9 of Attachment B of LGA-VQ-01.

Time Critical Task: Yes/No

LASALLE COUNTY STATION

JPM g.

JPM Start Time: _____

Note: All steps of this JPM are to be completed at control room panel 1PM05J unless otherwise noted.

1. x Performance step: MOMENTARILY PLACE 0A CR HVAC Emer MU Fan, 0VC03CA, control switch to START, then release.

Standard: Applicant momentarily places 0A CR HVAC Emer MU Fan, 0VC03CA, control switch to START, then releases.

Cue: None

Comment: None

2. Performance step: VERIFY 0A CR HVAC Emer MU Fan, 0VC03CA is running after allowing approximately 20 seconds for VC EMU Train Inlet/Outlet dampers to open.

Standard: Applicant verifies 0A CR HVAC Emer MU Fan, 0VC03CA is running.

Cue: None

Comment: None

3. Performance step: VERIFY alarm B106, 0A CR Emer Makeup Fan DP Lo, is CLEAR.

Standard Applicant checks alarm 1PM06J-B106, is clear.

Cue: None

Comment: None

4. _____ Performance step: RECORD Date/Time for 0A VC Recirculation
Charcoal Filter startup on Attachment D.

Standard: Applicant records date and time on Attachment D.

Cue: None

Comment: None

5. x Performance step: PLACE 0A CR HVAC Charcoal Filter Damper
Control switch to FILTER position.

Standard: Applicant places 0A CR HVAC Charcoal Filter Damper Control switch to
FILTER position.

Cue: None

Comment: None

6. _____ Performance step: VERIFY 0VC11YA, 0A CR HVAC Charcoal Filter
Inlet, OPEN

Standard: Applicant verifies 0VC11YA, 0A CR HVAC Charcoal Filter Inlet, open.

Cue: None

Comment: None

7. _____ Performance step: VERIFY 0VC12YA, 0A CR HVAC Filter Outlet,
OPEN

Standard: Applicant verifies 0VC12YA, 0A CR HVAC Filter Outlet, open.

Cue: None

Comment: None

8. _____ Performance step: VERIFY 0VC13YA, 0A CR HVAC Filter Bypass, CLOSED.

Standard: Applicant verifies 0VC13YA, 0A CR HVAC Filter Bypass, closed.

Cue: None

Comment: None

9. _____ Performance step: VERIFY 0A VC Purge Damper Control, 0VC08YA/10YA/14YA switch in PURGE OFF position.

Standard: Applicant verifies 0A VC Purge Damper Control, 0VC08YA/10YA/14YA switch in PURGE OFF position.

Cue: None

Comment: The Applicant may not record time until report from the field that VE Filter is started.

10. _____ Performance step: Record Date/Time for 0A VE Recirculation Charcoal Filter startup on Attachment D.

Standard: Applicant records date and time on Attachment D.

Cue: None

Comment: None

11. _____ Performance step: 0A VE Recirculation Charcoal Filter placed in service.

Standard: Applicant directs plant operator to perform LGA-VQ-01, Attachment B, Step 9.

Cue: None

Comment: None

12. _____ Performance step: Notify Unit Supervisor that plant Operator has been

LASALLE COUNTY STATION

JPM g.

directed to startup the "A" VE Charcoal Filter per Step 9 of LGA-VQ-01, Attachment B.

Standard: Applicant notifies Unit Supervisor.

Cue: Acknowledge report. This JPM is complete.

JPM Stop Time: _____