LaSALLE NRC EXAM 2006-301

Job Performance Measure In-Plant i.

Candidate Name: _____

Facility: LaSalle County Station U1/U2 Date: November 13, 2006

Task Title: Respond to a Loss of Normal Level Control on the Fuel Pool Job Performance Measure No: In-Plant i

K/A Reference: 233000A1.02

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.

Unit 1 is shutdown and refueling with the vessel head off and the core unloaded.
It appears that the refueling bellows (seal between the RPV and the Drywell) has been ruptured during Drywell maintenance and fuel pool level is decreasing.
Area radiation levels in the plant and on the refuel floor are still normal.
A second operator is standing by at the refuel floor to assist you.
The Chemical Feed system has been secured.
You have a plant radio.

INITIATING CUE:

You are to commence filling the spent fuel pool using the 'A' Fuel Pool emergency Makeup Pump IAW LOA-FC-101, Unit 1 Fuel Pool Cooling System Abnormal, Attachment D starting at Step 20.

You are to commence filling the Unit 1 spent fuel pool.

Inform the Control Room NSO when flow to the fuel pool is established with pump discharge pressure >120 psig.

Task Standard: Identify that the 'A' Fuel Pool Emergency Makeup Pump failed and align the 'B' Fuel Pool Emergency Makeup Pump to fill the spent fuel pool.

Time Critical Task: Yes/No

SIMULATOR SETUP INSTRUCTIONS

Not applicable - In-Plant JPM

Materials:

The following materials are required to be available to the examinee:

One copy of LOA-FC-101

The following materials are required to be provided to examinee:

None

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1. _____ Performance step: Crack open 1FC045A, Fuel Pool Emergency Makeup Pump 1A Discharge Stop Valve.

Standard: Applicant simulates cracking open 1FC 045A.

Cue: 1FC045A turned slightly counter-clockwise.

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2. _____ Performance step: Inform Control Room that 1FC045A is cracked open and request start of 1FC03PA, Emergency Fuel Pool Makeup Pump.

Standard: Makes call to control room.

Cue: Acknowledge that valve 1FC045A is cracked open and you are starting the 1A Emergency Fuel Pool Makeup Pump.

Cue: Inform the applicant that the 1A Emergency Fuel Makeup Pump is running.

Cue: The local pump discharge pressure gauge now indicates approximately 165 psig (indicate on local pressure gauge).

START ALTERNATE PATH

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3. ✔ Performance step: Applicant attempts to throttle open 1FC045A.

Standard: Applicant attempts to throttle open 1FC045A.

Cue: 1FC045A will not move in the open direction.

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4. ✔ Performance step: Applicant calls control room and informs NSO that 1FC045A will not open, asks for direction.

Standard: Contacts control room.

Cue: If applicant asks for direction, tell him he is the Unit Supervisor and this condition exists. Ask him what his recommendation would be. After the applicant responds, direct applicant to back out of LOA FC-101 and execute it again using the 'B' train.

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5. ✔ Performance step: Applicant has NSO stop 1A Emergency Fuel Makeup Pump. Applicant shuts 1FC045A when cued that 1A Emergency Fuel Makeup Pump is stopped.

Standard: Applicant directs NSO to stop 1A Emergency Fuel Makeup Pump, shuts 1FC045A.

Cue: When directed to secure 1A Emergency Fuel Makeup Pump - the pump is stopped, its discharge pressure is 0 (indicate on pressure gauge).

Cue: Acknowledge when 1FC045A is fully closed.

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6. _____ Performance step: Crack open 1FC045B, Fuel Pool Emergency Makeup Pump 1B Discharge Stop Valve.

Standard: Applicant simulates cracking open 1FC045B.

Cue: 1FC045B turned slightly counter-clockwise.

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7. ✔ Performance step: Inform Control Room that 1FC045B is cracked open and request start of 1FC03PB, Emergency Fuel Pool Makeup Pump.

Standard: Makes call to control room.

Cue: Acknowledge that valve 1FC045B is cracked open and you are starting the 1B Emergency Fuel Pool Makeup Pump.

Cue: Inform the applicant that the 1B Emergency Fuel Makeup Pump is running.

Cue: The local pump discharge pressure gauge now indicates approximately 165 psig (indicate on local pressure gauge).

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8. ✔ Performance step: Applicant throttles 1FC045B to establish correct flow.

Standard: Applicant stops opening 1FC045B before pump discharge pressure decreases below 120 psig.

Cue: Indicating decreasing pressure on the pump discharge pressure gauge as the applicant simulates opening 1FC045B.

_____

9. _____ Performance step: Applicant contacts control room and informs control room of status of Emergency Fuel Pool Makeup Water System.

Standard: Applicant tells control room 1B Emergency Fuel Makeup Pump is running, flow has been established, pump discharge pressure is slightly >120 psig.

Cue: As control room operator, acknowledge applicant report.

Cue: This JPM is complete.

JPM Stop Time: _____

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Job Performance Measure In-Plant j.

Candidate Name: _____

Facility: LaSalle County Station U1/U2 Date: November 13, 2006

Task Title: Place a Standby Battery Charger in Service Job Performance Measure No: In-Plant j

K/A Reference: 263000A301

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 fire has occurred in the Unit 1 Division 2 125 VDC Battery Charger 1BA.
The Fire Brigade has extinguished the fire.
Battery Charger 1BA has been removed from service.
No damage has occurred to MCC-136X-3 or DC Bus 1B[1DC15E].
The AC feed to the "Normal" battery charger is open. (136X-3, B5)
Standby Unit 1 Division 2 125 VDC Battery Charger 1BB is available.
All levels of the Auxiliary Building are open for personnel access.

INITIATING CUE:

You are to place the standby Unit 1 Division 125 VDC Battery Charger 1BB in service IAW LOA-DC-101 starting at Section B1 step 17.

Contact the Unit 1 NSO when Battery Charger 1BB float voltage is acceptable.

Time Critical Task: Yes/No

JPM Start Time: _____

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1. _____ Performance step: At Battery Charger 1BB, LOCALLY OPEN the DC Output Breaker.

Standard: The Examinee verifies the DC Output Breaker on Battery Charger 1BB is open. (off)

CUE: The breaker is off.

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2. _____ Performance step: At Battery Charger 1BB, LOCALLY OPEN the AC Input Breaker.

Standard: The Examinee verifies the AC Input Breaker on Battery Charger 1BB is open. (off)

CUE: The breaker is off.

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3. ✔ Performance step: At MCC-136X-3, LOCALLY CLOSE AC Feed Breaker A6 for the 1BB Battery Charger.

Standard: The Examinee simulates closing the A6 Breaker on MCC-136X-3.

CUE: The breaker is on.

NOTE: The Examinee may verify breaker 1B[1DC15E], 2D (DC Feed Breaker) for Battery Charger 1BA is open. If this occurs, inform the Examinee that breaker 2D is open.

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4. ✔ Performance step: At DC Bus 1B[1DC15E], LOCALLY CLOSE DC Feed Breaker 2A for the 1BB Battery Charger.

Standard: The Examinee simulates closing the 2A Breaker on 1B[1DC15E].

CUE: The breaker is on.

NOTE: Steps 5, 6, and 7 are performed locally at Battery Charger 1BB and *must* be done IN ORDER LISTED.

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5. ✔ Performance step: CLOSE the AC Input Breaker.

Standard: The Examinee simulates closing the AC Input Breaker.

CUE: The breaker is on.

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6. ✔ Performance step: DEPRESS the pushbutton and VERIFY FLOAT light energized.

Standard: The Examinee depresses the pushbutton and verifies float light energized.

CUE: The green light is lit.

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7. ✔ Performance step: CLOSE DC Output Breaker.

Standard: The Examinee simulates closing the DC Output Breaker.

CUE: The Output Breaker is on.

CUE: Battery Charger Float voltage has been determined acceptable by another NLO.

NOTE: The JPM is complete when the Unit 1 NSO is notified that Standby Battery Charger 1BB is in service.

JPM Stop Time: _____

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Job Performance Measure In-Plant k.

Candidate Name: _____

Facility: LaSalle County Station U1/U2 Date: November 13, 2006

Task Title: Response to Air Compressor Running Unloaded due to Excessive Surge Condition

Job Performance Measure No: In-Plant k

K/A Reference: 300000A301

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:

Alarm B205, U1 STA AIR COMPRESSOR TROUBLE, is in at 1PM10J.
The NSO has determined that four Surge Events have occurred in the past 10 minutes and the 1SA01C compressor is running unloaded.
You are an extra SRO needed to perform this task.

INITIATING CUE:

You are to manually RESET & RELOAD the 1SA01C Station Air Compressor using LOA-IA-101 Rev. 6 Loss of Instrument / Service Air step 7.

Task Standard: Correctly reset and reload the 1SA01C Station Air Compressor.

Time Critical Task: Yes/No

SIMULATOR SETUP INSTRUCTIONS

None require - in-plant JPM.

Materials:

The following materials are required to be available to the examinee:

LOA-IA-101

The following materials are required to be provided to examinee:

None

JPM Start Time: _____

CUE: 1SA01C is running unloaded when you approach the machine.

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1. ✔ Performance step: At 1SA01C compressor DEPRESS the RESET pushbutton at the local control panel.

Standard: The Examinee verifies the 1SA01C compressor and DEPRESSES the RESET pushbutton.

CUE: The RESET pushbutton has been depressed.

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2. ✔ Performance step: At local control panel ADJUST Pressure Set pressure by NAVIGATING to the SYSTEM FOLDER using the ← → arrow keys.

Standard: Navigating to the system folder using the ← → arrow keys.

CUE: SYSTEM FOLDER page is displayed.

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3. ✔ Performance step: NAVIGATE to page 1/6 using the ↑ arrow keys.

Standard: Navigates to page 1/6 using the ↑↓ arrow keys.

CUE: Page 1/6 is displayed.

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4. ✔ Performance step: PRESS the ENTER pushbutton to access the EDIT MODE.

Standard: Press the ENTER pushbutton to access the EDIT MODE.

CUE: Edit Mode entered.

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5. _____ Performance step: VERIFY Pressure Setpoint is highlighted indicating that it can be edited.

Standard: The Examinee checks the Pressure Setpoint is highlighted.

CUE: The Pressure Setpoint is highlighted.

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6. ✔ Performance step: DEPRESS the ↑ pushbuttons to SET Pressure Setpoint to maintain 110 psig as indicated in the main control room.

Standard: The Examinee depresses the ↑ pushbuttons until 110 psig is displayed as the Pressure Setpoint.

CUE: The Pressure Setpoint displays 110 psig.

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7. ✔ Performance step: DEPRESS the ENTER pushbutton to make the setpoint change effective.

Standard: The ENTER pushbutton is DEPRESSED.

CUE: The sound of the compressor remains the same.

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8. _____ Performance step: Check Status Bar indicates that the compressor is LOADED.

Standard: Check Status Bar indicates that the compressor is LOADED.

CUE: The compressor is running UNLOADED.

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9. ✔ Performance step: DEPRESS the blue LOAD pushbutton.

Standard: Depresses the blue LOAD pushbutton.

CUE: The Compressor sound starts to change and LOAD starts to increase.

This completes this JPM.

JPM Stop Time: _____