

**LaSALLE NRC EXAM 2006-301**

**Job Performance Measure i.**

**Candidate Name:** \_\_\_\_\_



**LASALLE COUNTY STATION**

**JPM i.**

JPM Start Time: \_\_\_\_\_

NOTE: If water is trapped inside the H<sub>2</sub> Recombiner when steam is introduced a large temp. drop or oscillation may occur.

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1. \_\_\_\_\_ Performance step: OPEN Sample Root Valve on Recombiner to be placed online.

Standard: Applicant opens 1N62-F329A, A Off Gas Wtr Sep Dwnst Process Rad Sample Supply Valve. (01TB 754 X-10 inside 1A Recomb Rm).

Cue: 1N62-F329A, A Off Gas Wtr Sep Dwnst Process Rad Sample Supply Valve will not turn any further in the CCW direction.

Comment: None

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2.   **x**   Performance step: CLOSE Sample Root Valve on Recombiner to be left in STANDBY.

Standard: Applicant closes 1N62-F329B B Off Gas Wtr Sep Dwnst Process Rad Sample Supply Valve. (01 TB 754 X-8 inside 1B Recomb Rm).

Cue: 1N62-F329B B Off Gas Wtr Sep Dwnst Process Rad Sample Supply Valve cannot be turned any further in the CW direction.

Comment: None

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3.   **x**   Performance step: VERIFY OPEN 1N62-F393A, A Off Gas Hdr Drain Valve

Standard: Applicant opens 1N62-F393A, A Off Gas Hdr Drain Valve. (01 TB 754 Y-9 by H<sub>2</sub> analyzers)

Cue: 1N62-F393A, A Off Gas Hdr Drain Valve cannot be turned any further in the CCW direction.

Comment: None

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4. \_\_\_\_\_ Performance step: VERIFY CLOSED 1N62-F393B, B Off Gas Hdr Drain Valve

Standard: Applicant closes 1N62-F393B, B Off Gas Hdr Drain Valve. (01 TB754 Y-9 outside 1B Recomb Rm)

Cue: 1N62-F393B, B Off Gas Hdr Drain Valve cannot be turned any further in the CW direction.

Comment: None

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5.   x   Performance step: OPEN valves 1TE011A & B for 1 to 2 minutes then THROTTLE 1TE011A & B to about one quarter turn OPEN.

Standard: OPEN valves 1TE011A & B for 1 to 2 minutes then THROTTLE 1TE011A & B to about one quarter turn OPEN.

Cue: 1TE011A & B is THROTTLED one quarter turn OPEN.

Comment: None

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6.   x   Performance step: CHECK Main Steam Line Pressure greater than 400 psig.

CUE: Main Steam Line pressure is 425 psig per initial conditions given.

Comment: None

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7.   x   Performance step: VERIFY A Off Gas SJAE PCV is SET to 0 psig.

Standard: Applicant verifies 1B21-503A, A SJAE Stm Sply PCV is SET to 0 psig.

CUE: 1B21-503A, A SJAE PCV is SET at 0 psig

Comment: None

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1.   X   Performance step: VERIFY OPEN 1N62-F302A, A Off Gas SJAE Outlet Valve (01 TB 754 Y-12 Outside 1A SJAE Rm)

Standard: Applicant verifies OPEN 1N62-F302A, A Off Gas SJAE Outlet Valve (01 TB 754 Y-12 Outside 1A SJAE Rm)

Cue: 1N62-F302A, A Off Gas SJAE Outlet Valve cannot turn any further in the CCW direction

Comment: None

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9.        Performance step: VERIFY OPEN 1N62-F427, A Off Gas SJAE Outlet Hdr Crosstie Drain Valve (01 TB 754 X-10 Inside 1A Recomb Rm)

Standard: VERIFY OPEN 1N62-F427, A Off Gas SJAE Outlet Hdr Crosstie Drain Valve.

Cue: 1N62-F427, A Off Gas SJAE Outlet Hdr Drain Valve cannot turn any further in the CW direction.

Comment: None

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10.   X   Performance step: VERIFY OPEN 1N62-F405, A Off Gas H<sub>2</sub> Sample Hdr Dwnst Stop Valve. (01 TB 754 Y-10 by H<sub>2</sub> Analyzers)

Standard: Applicant verifies OPEN 1N62-F405, A Off Gas H<sub>2</sub> Sample Hdr Dwnst Stop Valve. (01 TB 754 Y-10 by H<sub>2</sub> Analyzers)

Cue: 1N62-F405, A Off Gas H<sub>2</sub> Sample Hdr Dwnst Stop Valve will not turn any further in the CCW direction.

Comment: None

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11.  Performance step: VERIFY CLOSED 1N62-F302B, B Off Gas SJAE Outlet Valve. (01 TB 754 Y-5 Outside 1B SJAE Rm)

Standard: Applicant verifies CLOSED 1N62-F302B, B Off Gas SJAE Outlet Valve. (01 TB 754 Y-5 Outside 1B SJAE Rm)

Cue: 1N62-F302B, B Off Gas SJAE Outlet Valve will not turn any further in the CW direction.

Comment: None

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12.  Performance step: VERIFY CLOSED 1N62-F404, B Off Gas H<sub>2</sub> Sample Hdr Dwnst Stop Valve. (01TB 754 Y-10 by H<sub>2</sub> Analyzer)

Standard: Applicant verifies CLOSED 1N62-F404, B Off Gas H<sub>2</sub> Sample Hdr Dwnst Stop Valve. (01TB 754 Y-10 by H<sub>2</sub> Analyzer)

Cue: 1N62-F404, B Off Gas H<sub>2</sub> Sample Hdr Dwnst Stop Valve cannot be turned any further in the CW direction.

Comment: None

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13.  Performance step: VERIFY CLOSED 1N62-F412, B Off Gas SJAE Outlet Hdr Crosstie Drain Valve. (01 TB 754 X-8 Inside 1B Recomb Rm)

Standard: Applicant verifies CLOSED 1N62-F412, B Off Gas SJAE Outlet Hdr Crosstie Drain Valve. (01 TB 754 X-8 Inside 1B Recomb Rm)

Cue: 1N62-F412, B Off Gas SJAE Outlet Hdr Crosstie Drain Valve cannot be turned any further in the CW direction.

Comment: None

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14.  Performance step: VERIFY OPEN 1N62-F089A, A Off Gas Water Separator Outlet Valve.

Standard: Applicant verifies OPEN 1N62-F089A, A Off Gas Water Separator Outlet Valve.

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Cue: 1N62-F089A, A Off Gas Water Separator Outlet Valve cannot be turned any further in the CCW direction.

Comment: Step 2.8 is Not Applicable

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15.        Performance step: VERIFY A Off Gas Condenser Drain Level Controller LC-1N62-R004A is in AUTO with setpoint SET at 50%.

Standard: Applicant verifies A Off Gas Condenser Drain Level Controller LC-1N62-R004A is in AUTO with setpoint SET at 50%.

Cue: A Off Gas Condenser Drain Level Controller LC-1N62-R004A is in AUTO with setpoint SET at 50%.

Comment: None

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16.   **x**   Performance step: VERIFY A Off Gas Condenser Backup Drain Level Controller LC-1N62-R004D is PLACED in AUTO with setpoint SET at 70%.

Standard: VERIFY A Off Gas Condenser Backup Drain Level Controller LC-1N62-R004D is PLACED in AUTO with setpoint SET at 70%.

Cue: The A Off Gas Condenser Backup Drain Level Controller LC-1N62-R004D is PLACED in AUTO with setpoint SET at 70%.

Comment: None

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17.   **x**   Performance step: At 1N62-P601 VERIFY 1N62-F019A, A Off Gas Condenser Normal Drain is in AUTO.

Standard: Applicant verifies 1N62-F019A, A Off Gas Condenser Normal Drain is in AUTO.

Cue: 1N62-F019A, A Off Gas Condenser Normal Drain is in AUTO.

Comment: None

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18.  Performance step: At 1N62-P601 VERIFY 1N62-F019D, A Off Gas Condenser Normal Drain is in AUTO.

Standard: Applicant verifies 1N62-F019D, A Off Gas Condenser Normal Drain is in AUTO.

Cue: 1N62-F019A, A Off Gas Condenser Normal Drain is in AUTO.

Comment: None

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19.  Performance step: VERIFY CLOSED A Off Gas SJAE PCV Bypass Valve 1B21-F493A, A SJAE Stm Sply PCV Bypass Valve. (01 TB 754 Y-12 Outside1A SJAE Rm)

Standard: Applicant verifies CLOSED A Off Gas SJAE PCV Bypass Valve 1B21-F493A, A SJAE Stm Sply PCV Bypass Valve. (01 TB 754 Y-12 Outside1A SJAE Rm)

Cue: A Off Gas SJAE PCV Bypass Valve 1B21-F493A, A SJAE Stm Sply PCV Bypass Valve cannot be turned any further in the CW direction.

Comment: None

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20.  Performance step: OPEN 1B21-F492A, A Off Gas SJAE PCV Bypass Upstream Stop Valve. (01 TB 754 Y-12 Outside 1A SJAE Rm)

Standard: Applicant opens 1B21-F494A, A Off Gas SJAE PCV Bypass Upstream Stop Valve. (01 TB 754 Y-12 Outside 1A SJAE Rm)

Cue: 1B21-F492A, A Off Gas SJAE PCV Bypass Upstream Stop Valve cannot be turned any further in the CCW direction.

Comment: None

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21.   x   Performance step: OPEN 1B21-F494A, A Off Gas SJAE PCV Bypass Downstream Stop Valve. (01 TB 754 Y-12 Outside 1A SJAE Rm)

Standard: OPEN 1B21-F494A, A Off Gas SJAE PCV Bypass Downstream Stop Valve. (01 TB 754 Y-12 Outside 1A SJAE Rm)

Cue: 1B21-F494A, A Off Gas SJAE PCV Bypass Downstream Stop Valve cannot be turned further in the CCW direction.

Comment: Step 2.11 is Not Applicable per the INITIAL CONDITIONS.

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22.   x   Performance step: WHEN A Off Gas Catalytic Recombiner temperature as indicated on 1N62-R602A, Recombiner Vessel temperature recorder are >270°F, CLOSE 1N62-F007A 1A Recom Filt Air Purge Vlv.

Standard: Applicant closes 1N62-F007A 1A Recom Filt Air Purge Vlv.

Cue: 1N62-F007A 1A Recom Filt Air Purge Vlv cannot be turned further in the CW direction.

Comment: The next two steps must be performed in rapid succession to prevent a loss of vacuum from a loss of the loop seals.

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23.        Performance step: NOTIFY NSO to OPEN 1N62-F003A, 1A Recom Inlet Vlv and IMMEDIATELY perform the next step.

Standard: Applicant opens 1N62-F003A, 1A Recom Inlet Vlv.

Cue: 1N62-F003A, 1A Recom Inlet Vlv cannot be turned further in the CCW direction.

Comment: None

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24.   x   Performance step: THROTTLE OPEN 1B21-F493A, A SJAE Stm Sply PCV Bypass Valve (01 TB 754 Y-12 Outside 1A SJAE Rm) to maintain 240 psig Stm Hdr pressure.

Standard: Applicant opens 1B21-F493A, A SJAE Stm Sply PCV Bypass Valve (01 TB 754 Y-12 Outside 1A SJAE Rm).

Cue: 1B21-F493A, A SJAE Stm Sply PCV Bypass Valve is Opening

Comment: None

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25.        Performance step: OBSERVE A SJAE Stm Pressure PI-1B21-R875, PI-1B21-R874, &PI-1B21-R873

Standard: OBSERVE A SJAE Stm Pressure PI-1B21-R875, PI-1B21-R874, &PI-1B21-R873.

Cue: A SJAE Pressure Indicators show Stm Hdr pressure is being maintained at 240 psig.

Cue: THIS COMPLETES THIS JPM.

JPM Stop Time: \_\_\_\_\_

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**Candidate Name:** \_\_\_\_\_



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**JPM j.**

JPM Start Time: \_\_\_\_\_

NOTE: Steps 1 and 2 must be done IN ORDER LISTED.

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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.

Comment: None

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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.

Comment: None

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

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

Cue: The breaker is on.

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

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

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

Cue: The breaker is on.

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

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

Standard: The applicant simulates closing the AC Input Breaker.

Cue: The breaker is on.

Comment: None

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

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

Cue: The green light is lit.

Comment: None

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7.   x   Performance step: CLOSE DC Output Breaker.

Standard: The applicant simulates closing the DC Output Breaker.

Cue: The Output Breaker is on.  
Battery Charger Float voltage has been determined acceptable by another NLO.

Comment: 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 i.**

**Candidate Name:** \_\_\_\_\_

**LASALLE COUNTY STATION**

**JPM i.**

Facility: LaSalle County Station U1/U2

Date: November 13, 2006

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

K/A Reference: 300000A301

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.

- 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.

INITIATING CUE:

The Unit 1 NSO directs you to manually RESET & RELOAD the 1SA01C Station Air Compressor using LOA-IA-101 Rev. 6 Loss of Instrument / Service Air step 7.

Task Standard: Air Compressor 1SA01C is running correctly and maintaining Service Air header pressure.

Time Critical Task: Yes/No

JPM Start Time: \_\_\_\_\_

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

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

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

Cue: The RESET pushbutton has been depressed.

Comment: None

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

Standard: Applicant navigates to the SYSTEM FOLDER using the ← → arrow keys.

Cue: SYSTEM FOLDER page is displayed.

Comment: None

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

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

Cue: Page 1/6 is displayed.

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

Standard: Applicant depresses the ENTER pushbutton to access the EDIT MODE.

Cue: None

Comment: None

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

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Standard: The applicant checks the Pressure Setpoint is highlighted.

Cue: The Pressure Setpoint is highlighted.

Comment: None

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

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

Cue: The Pressure Setpoint displays 110 psig.

Comment: None

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7.   **x**   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.

Comment: None

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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.

Comment: None

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

Standard: Applicant depresses the blue LOAD pushbutton.

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

Comment: This COMPLETES THIS JPM.

JPM Stop Time: \_\_\_\_\_