

**Job Performance Measure "H"**

Facility: **Vogtle**

Task No: V-LO-TA-23005

Task Title: Manually Align CRI due to smoke entering MCR air intakes

JPM No: V-NRC-JP-13301-HL17

K/A Reference: 067AA1.05 RO 3.0 SRO 3.1

Examinee: \_\_\_\_\_ NRC Examiner: \_\_\_\_\_

Facility Evaluator: \_\_\_\_\_ Date: \_\_\_\_\_

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. When you complete the task successfully, the objective for this job performance measure will be satisfied.

**Initial Conditions:** A large brush fire is causing smoke to enter the control room through the outside air intakes resulting in a concern for Control Room habitability.

**Initiating Cue:** The SS has directed you to "Manually actuate control room isolation per 13301-C, "CBCR Normal HVAC and Emergency Filtration System".

Task Standard: Manually align CR HVAC for CRI in accordance with 13301-C Section 4.4.1.

Required Materials: 13301-C, "CBCR Normal HVAC and Emergency Filtration System" Ver. 28.3

17050-1, Annunciator Response Procedures for ALB50 on QHVC Panel Ver. 19.1

General References: None

Time Critical Task: No

Validation Time: 10 minutes

**SIMULATOR SETUP:**

Snapped to IC # 218 for HL-17 NRC Exam.

If new setup is required, then perform the following:

1. Reset to IC 14 (MOL 100%).
2. Insert override annunciator ALB50B02 to ON.
3. Acknowledge/Reset alarms.
4. Freeze simulator

Setup time: 3 minutes

## Performance Information

***Critical steps denoted with an asterisk***

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### **Annunciator Response 17050-1 Window B02 for CR OSA Smoke Detected (If Referenced)**

**NOTE**

If Control Room isolation is initiated, the system must be restored to normal prior to purging the Control Room of smoke.

1. Analyze the situation and if necessary, initiate a Control Room isolation per 13301-C, "Control Building Control Room Normal And Essential HVAC System."
2. Dispatch an operator to investigate the source of the smoke.
3. IF toxic gas concentration is greater than allowable limits OR IF detected odor is considered a personnel safety hazard, THEN:
  - a. Evacuate non-essential control room personnel to a safe area.
  - b. Direct all essential control room personnel to don breathing apparatus.

Standard: The candidate may reference this ARP or go directly to 13301-C.

Comment:

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Refers to procedure 13301-C and determines section 4.4.1 should be performed.

Standard: Candidate selects Section 4.4.1.

Comment:

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**NOTES**

- This section is written using Unit 1 and Common component designations. Unit 2 designations are shown in parenthesis.
- If the TRAIN B CR FLTR UNIT SUPPLY FAN fails to start on actuation, the Train A Fan will start after a 30 second time delay.
- The TSC Air Filtration System will automatically start on manual initiation of Control Room Isolation.

ALB05-D05 GROUP 4 MONITOR LIGHT COMP OFF NORM  
ALB39-D05 480V SWGR ANB30 TROUBLE  
ALB50-B03 CR HI/LO DIFF PRESS

**CUE: If expected alarms reported to OATC, "OATC is notified."**

Standard: Candidate reads notes and expected annunciators.

Comment:

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**\*Step 4.4.1.1 To manually initiate Control Room Isolation, place either CR ISO MANUAL ACTUATION Switch in ACTUATE:**

**TRAIN A**

**TRAIN B**

**1-HS-12195A [A4]**

**1-HS-12196A [A6]**

**Standard:** Candidate rotates one or both hand switches clockwise to the ACTUATE position and determines that the actuation occurs.

Green lights – OFF

Red lights – ON

**NOTE to the Examiner:** The following alarms will alarm on the actuation:

ALB50-B03	CR HI/LO DIFF PRESS	immediately
ALB50-A03	CR NORM SPLY FANS LO AIR FLOW	delayed 30 seconds
ALB53-C07	CHLR TRN A EVAP WTR HI/LO TEMP	delayed 2 minutes
ALB53-C08	CHLR TRN B EVAP WTR HI/LO TEMP	

**Comment:**

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**Step 4.4.1.2 Verify that TRAIN B CR FLTR UNIT LEAD SUPPLY AIR FAN starts.**

**TRAIN B**

**1-1531-N7-002 [B10]**

**Standard:** Candidate verifies Train B filter unit running.

Red light - ON

Green light - OFF

Amber light - OFF

**Comment:**

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Step 4.4.1.3 Verify that TRAIN A CR FLTR UNIT STANDBY SUPPLY AIR FAN does NOT start:

TRAIN A

1-1531-N7-001 [B8]

Standard: Candidate verifies standby air fan does not start.

Checks green light remains - ON  
Red light remains - OFF  
Amber light remains - OFF

Comment:

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Step 4.4.1.4 Verify that both KIT TOIL + CONF RM EXH ISO DMPRs close:

TRAIN A

TRAIN B

A-HV-12162 [D6]

A-HV-12163 [D7]

Standard: Candidate verifies both dampers in CLOSED position.

Green lights - ON  
Red lights - OFF

Comment:

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Step 4.4.1.5 Verify that both CR NORM AIR SUPPLY ISO DMPRs close:

TRAIN A

1-HV-12146 [C6]

TRAIN B

1-HV-12147 [C7]

Standard: Candidate verifies both dampers in CLOSED position.

Green light - ON

Red light - OFF

Comment:

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Step 4.4.1.6 Verify that both CR NORM AIR RTN ISO DMPRs close:

TRAIN A

1-HV-12149 [E6]

TRAIN B

1-HV-12148 [E7]

Standard: Candidate verifies both dampers in CLOSED position.

Green light - ON

Red light - OFF

Comment:

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Step 4.4.1.7 Verify that the CR FILTER UNIT OUTLET AIR DMPR on the running train is open:

TRAIN B

1-HV-12129 [C11]

Standard: Candidate verifies damper open.

Red light - ON  
Green light - OFF

Comment:

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Step 4.4.1.8 Verify that the CR RTN FAN INLET AIR DMPR on the running train is open:

TRAIN B

1-HV-12131 [D10]

Standard: Candidate verifies damper open.

Red light - ON  
Green light - OFF

Comment:

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Step 4.4.1.9 Verify that the CR NORMAL HVAC UNIT INTAKE ISO DMPR on the running train is closed:

TRAIN B

A-HV-12152 [B7]

Standard: Candidate verifies damper closed.

Green light - ON

Red light - OFF

Comment:

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Step 4.4.1.10 Verify that the CR NORM AC UNIT SUPPLY FANS, A-1531-A7-001 [C4] and A-1531-A7-002 [C5], shut down.

Standard: Candidate verifies both AC units shutdown.

Green lights - ON

Amber lights - ON

Red lights - OFF

Comment:

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Step 4.4.1.11 Verify that the CR NORM AC UNIT EXH FAN, A-1531-B7-009 [D4] and A-1531-B7-010 [D5], shut down.

Standard: Candidate verifies both exhaust units shutdown.

Green lights - ON

Red lights - OFF

Comment:

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Step 4.4.1.12 Verify that the KITCH TOILET AND CONF RM EXH FAN, A-HS-12164 in the Shift AA's Office, stops.

**CUE: When Candidate indicates need to verify status, "The Control Building Operator reports A-HS-12164's green light is lit and the fan has stopped."**

Standard: Candidate determines Kitchen Toilet and Conference room exhaust fan is stopped.

Comment:

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**NOTE**

If it is necessary to isolate outside air to the Control Room in the next step, both the Unit 1 and Unit 2 dampers should be shut.

Standard: Candidate reads note.

Comment:

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**\*Step 4.4.13** **IF Control Room outside air is restricted for Control Room habitability due to smoke or toxic gas intake, THEN close the CR OUTSIDE AIR SUPPLY DAMPERS for BOTH Units:**

UNIT 1

1-HS-12114 [E8]  
1-HS-12115 [E10]

UNIT 2

2-HS-12114  
2-HS-12115

Standard: Candidate rotates both hand switches counterclockwise to the CLOSE position and releases. Candidate verifies the handswitch indication as follows:

Green lights - ON  
Red lights - OFF

Candidate indicates that the Unit 2 Valves must be closed on the Unit 2 QHVC panel.

**CUE: When candidate indicates need to shut unit 2 dampers, "Unit 2 UO has shut 2HV-12114 and 2HV-12115."**

Comment:

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Step 4.4.1.14 Verify proper operation of the TSC Air Filtration System per 13303-C, "Technical Support Center And Central Alarm Station HVAC Systems."

**CUE: When candidate indicates need to verify operation, "Another operator will verify proper operation of the TSC Air Filtration System."**

Standard: Candidate addresses step.

Comment:

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Step 4.4.1.15      Verify proper Essential Chiller operation.

**CUE:**      **Another operator will verify proper operation of the ESF Chiller.**

Standard:      Candidate addresses step.

Comment:

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**Terminating cue:**      Student returns initiating cue sheet.

**Verification of Completion**

Job Performance Measure No. V-NRC-JP-13301-HL17

Examinee's Name:

Examiner's Name:

Date Performed:

Number of Attempts:

Time to Complete:


Question Documentation:

Question: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Response: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Result: Satisfactory/Unsatisfactory

Examiner's signature and date: \_\_\_\_\_



**Initial Conditions:** A large brush fire is causing smoke to enter the control room through the outside air intakes resulting in a concern for Control Room habitability.

**Initiating Cue:** The SS has directed you to “Manually actuate control room isolation per 13301-C, “CBCR Normal HVAC and Emergency Filtration System”.