Facility: Davis-Besse **Task No:** 115-001-02-0100

Task Title: Calculate RCS Flow with F755 Inoperable

K/A Reference: 2.1.25 (2.8/3.1) **Job Performance Measure No**: A-6 (RO only)

Examinee: _____ **NRC Examiner:** _____

Facility Evaluator: _____ **Date:** _____

Method of testing:

Simulated Performance ___ Actual Performance _X_

Classroom ___ Simulator _X_ 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:
The unit is at 100% power
The crew is performing DB-OP-03006, Miscellaneous Instrument Shift Checks
The Plant Process Computer is available but Computer Point F744, RC CLG TOTAL FLOW (KGPM), is unavailable

Task Standard:
Perform miscellaneous instrument shift checks

Required Materials:

General References:
DB-OP-03006, Miscellaneous Instrument Shift Checks
Steam Tables

Initiating Cue:
The Unit Supervisor directs you to perform Attachment 7: Calculation of RC Total Flow (Computer Point F744 Inoperable), in accordance with step 4.35.1.b of DB-OP-03006

Time Critical Task: No

Validation Time: 15 minutes

INITIAL CONDITIONS:

The unit is at 100% power

The crew is performing DB-OP-03006, Miscellaneous Instrument Shift Checks

The Plant Process Computer is available but Computer Point F744, RC CLG TOTAL FLOW (KGPM), is unavailable

INITIATING CUE:

The Unit Supervisor directs you to perform Attachment 7: Calculation of RC Total Flow (Computer Point F744 Inoperable), in accordance with step 4.35.1.b of DB-OP-03006

PERFORMANCE INFORMATION

START TIME:_____

1. PERFORMANCE STEP: Enter Computer Point values on Attachment 7

   √

   STANDARD: Enter values on Attachment 7 from printout

   - F857 74.9 (MPPH) (RC Loop 1 HLG Flow)
   - F858 75.5 (MPPH) (RC Loop 2 HLG Flow)
   - P722 2145.3 (PSIG) (RC Loop 1 NR Press)
   - P729 2155.3 (PSIG) (RC Loop 2 NR Press)
   - T780 559.6 (˚F) (RCP 1-1 Disch NR Temp)
   - T800 560.4 (˚F) (RCP 1-2 Disch NR Temp)
   - T820 559.7 (˚F) (RCP 2-1 Disch NR Temp)
   - T840 560.3 (˚F) (RCP 2-2 Disch NR Temp)

   CUE: **Provide Operator Special Summary (attached) with computer points values for F857 and F858 are averages from trend recorder value per * note at bottom of page**

   SAT UNSAT

2. PERFORMANCE STEP: Record Specific Volume using ASME Steam Tables, pg. 183 on Attachment 7

   √

   STANDARD: Record Loop 1 average Tavg: (T780 + T800)/2 = **560**

   Record Loop 1 RCS Pressure: P722 + 14.7 = **2160**

   Interpolate Specific Volume (V1) using Steam Table = **.021676**

   COMMENT: **If using a newer version of the ASME Steam Tables provide appropriate page. Page number may be different than referenced on Attachment 7**

   CUE: **None**

   SAT UNSAT

3. PERFORMANCE STEP: Calculate Loop 1 Flow
√

STANDARD: Performs calculation:
(F857 reading)(V1)(124.675) = **202.4139** KGPM

COMMENT: Loop 1 flow calc between **202** and **203** KGPM is satisfactory

CUE: **None**

SAT UNSAT

4. PERFORMANCE STEP: Record Specific Volume using ASME Steam Tables, pg. 183 on ATTACHMENT 7
√

STANDARD: Record Loop 2 average Tavg: (T820 + T840)/2 = **560**
Record Loop 2 RCS Pressure: P729 + 14.7 = **2170**
Interpolate Specific Volume (V2) using Steam Table = .**021672**

COMMENT: This is a newer version of the ASME Steam Tables. Page number is different then referenced on Attachment 7

CUE: **None**

SAT UNSAT

5. PERFORMANCE STEP: Calculate Loop 2 Flow
√

STANDARD: Performs calculation:
(F858 reading)(V2)(124.675) = **203.9977** KGPM

COMMENT: Loop 2 flow calc between **203** and **204** KGPM is satisfactory

CUE: **None**

SAT UNSAT

6. PERFORMANCE STEP: Calculate RC Total Flow (Loop 1 + Loop 2)

√

STANDARD: Add Loop 1 and Loop 2 flows

Loop 1 + Loop 2 = **406.412**

COMMENT: Total Flow between **405** and **407** KGPM is satisfactory

CUE: **None**

SAT UNSAT

7. PERFORMANCE STEP: Complete ATTACHMENT 7

STANDARD: Signs and dates Calculation Performed by.

CUE: **None**

SAT UNSAT

TERMINATING CUES: This JPM is complete (Terminated by examinee)

END TIME

Verification of Completion

Job Performance Measure No. A-6

Examinee's Name: _____

Examiner's Name: _____

Date Performed: _____

Facility Evaluator: _____

Number of Attempts: _____

Time to Complete: _____

Question Documentation:

Question: _____
_____
_____

Response: _____
_____
_____
_____

Result: Satisfactory/Unsatisfactory

Examiner's signature and date: _____

Facility: Davis-Besse **Task No:** 331-041-02-0300

Task Title: Perform an On-line Risk Determination

K/A Reference: 2.1.19 (3.0/3.0) **Job Performance Measure No**: A -1 (SRO only)

Examinee: _____ **NRC Examiner:** _____

Facility Evaluator: _____ **Date:** _____

Method of testing:

Simulated Performance ___ Actual Performance _X_

Classroom ___ Simulator _X_ 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:
The plant is at 100%.
There is no adverse weather in the area or predicted
Ambient Conditions: Winter
Intake Temperature is 58°F
Current risk level is YELLOW because Aux. Feed Pump 2 (DBP 14-2) is out of service for maintenance
Equipment lineup is as follows:
- Instrument Air Dryers 3 and 4 are in service
- Station Air Compressor 2 is in service
- CCW Pump 1 is running
- CCW Pump 2 in standby
- CAC 1 and CAC 2 are in service
- Makeup Pump 2 is running
- RC 11, PORV Block Valve is open
- Service Water Pump 1 and Service Water Pump 2 are running
- TPCW Heat Exchangers 2 and 3 are in service
- TPCW Pump 1 and TPCW Pump 2 are running

Task Standard:
Perform an On-line Risk Determination

Required Materials:
Computer with Safety Monitor System installed

General References:
DBBP-OPS-0003, On-Line Risk Management Process, Attachment 5

Initiating Cue:
RC 11, PZR PORV Block Valve, has just been closed due to PORV leakage
The Shift Manager directs you to use the Safety Monitor to evaluate plant risk in accordance with Attachment 5 of DBBP-OPS-0003, On-Line Risk Management Process

Time Critical Task: No

Validation Time: 15 minutes

INITIAL CONDITIONS:

The plant is at 100%

There is no adverse weather in the area or predicted

Ambient Conditions: Winter

Intake Temperature is 58°F

Current risk level is YELLOW because Aux. Feed Pump 2 (DBP 14-2) is out of service for maintenance

Equipment lineup is as follows:

Instrument Air Dryers 3 and 4 are in service
Station Air Compressor 2 is in service
CCW Pump 1 is running
CCW Pump 2 in standby
CAC 1 and CAC 2 are in service
Makeup Pump 2 is running
RC 11, PORV Block Valve is open
Service Water Pump 1 and Service Water Pump 2 are running
TPCW Heat Exchangers 2 and 3 are in service
TPCW Pump 1 and TPCW Pump 2 are running

INITIATING CUES:

RC 11, PZR PORV BLOCK VALVE, has just been closed due to PORV leakage

The Shift Manager directs you to use the Safety Monitor to evaluate plant risk in accordance with Attachment 5 of DBBP-OPS-0003, On-Line Risk Management Process

PERFORMANCE INFORMATION

START TIME: _____

1. PERFORMANCE STEP: Log on to Safety Monitor using one of the specified passwords
   √

   STANDARD: Log on using (user id) SRO and (password) operations OR (user id) SRO1 and (password) operations1 OR (user id) SRO2 and (password) operations2

   CUE: **Provide the examinee a copy of Attachment 5 of DBBP-OPS-0003**

   SAT UNSAT

2. PERFORMANCE STEP: Determine PORV/Block Valve is modeled in PSA

   STANDARD: Determines PORV/Block Valve is modeled in PSA and proceeds to Section 4.2.

   COMMENT: Candidate may choose to use the computer to make this determination but that is NOT required since it would be common knowledge

   CUE: **None**

   SAT UNSAT

3. PERFORMANCE STEP: Select "Hypothetical mode" from the drop down menu next to "Operation"
   √

   STANDARD: "Hypothetical mode" selected.

   CUE: **None**

   SAT UNSAT

4. PERFORMANCE STEP: Click on "Case," and select "New" in the dropdown lists
   √

   STANDARD: Clicks on "Case," and selects "New"

   CUE: **None**

   SAT UNSAT

5. PERFORMANCE STEP: Selects “No,” when ask to save

   STANDARD: Selects “No”

   CUE: **None**

SAT UNSAT

6. PERFORMANCE STEP: Selects “No Initial Configurations” and clicks “OK”
   √

   STANDARD: Select “No Initial configurations” and click “OK”

   CUE: **None**

SAT UNSAT

7. PERFORMANCE STEP: Establish or verify minimum proper plant alignment before plant
   √ risk is calculated

   STANDARD: Click on “View/Change Plant Configuration”

   CUE: **None**

SAT UNSAT

8. PERFORMANCE STEP: Establish or verify minimum proper plant alignment (before plant
   √ risk is calculated) as follows:

   STANDARD: Click on “Alignment”

   CUE: **None**

SAT UNSAT

9. PERFORMANCE STEP: Establish or verify minimum proper plant alignment before plant
   √ risk is calculated

   STANDARD: At the bottom of the column for “Alignment System” select “All Systems”

   CUE: **None**

SAT UNSAT

10. PERFORMANCE STEP: Ensure the minimum alignments are correct
√

STANDARD: Correct equipment alignments to match Initial Conditions:
_____ Instrument Air Dryers 1 and 2 are in standby
_____ Station Air Compressor 1 is in standby
_____ CCWP 1 running/CCWP 3 standby is false
_____ CCWP 2 running/CCWP 1 standby is false
_____ CCWP 2 running/CCWP 3 standby is false
_____ CCWP 3 running/CCWP 1 standby is false
_____ CCWP 3 running/CCWP 2 standby is false
_____ CAC 3 is stopped
_____ Makeup Pump 1 is in standby
_____ RC 11, PORV Block Valve is CLOSED
_____ Service Water Pump is stopped
_____ TPCW Heat Exchangers 1 is in standby
_____ TPCW Pump 3 is stopped

CUE: **None**

SAT UNSAT

11. PERFORMANCE STEP: Ensure the minimum alignments are correct

STANDARD: Verify “Add alignment change” box is checked

CUE: **None**

SAT UNSAT

12. PERFORMANCE STEP: Verifies date and time correct

STANDARD: Select the proper date and time on the “Date/Time of changes” open window

CUE: **None**

SAT UNSAT

13. PERFORMANCE STEP: Input alignment changes
√

STANDARD: Click “Apply All” and confirm by Clicking “YES”

CUE: **None**

SAT UNSAT

14. PERFORMANCE STEP: Input alignment changes

    STANDARD: Clicks on “Calculate” button

    CUE: **None**

SAT UNSAT

15. PERFORMANCE STEP: Remove AFP 2 from service
    √

    STANDARD: Click on “View/Change Plant Configuration”

    CUE: **None**

SAT UNSAT

16. PERFORMANCE STEP: Verify “Components” tab is selected

    STANDARD: Verify “Components” tab is selected

    CUE: **None**

SAT UNSAT

17. PERFORMANCE STEP: Verify “Remove from service” box is selected

    STANDARD: Verify “Remove from service” box is selected

    CUE: **None**

SAT UNSAT

18. PERFORMANCE STEP: Ensure date and time correct
    √

    STANDARD: Change time to a time later than the last configuration change

    CUE: **None**

SAT UNSAT

19. PERFORMANCE STEP: Select DBP 14-2, Aux Feed Pump 1-2, in “Components” window
    √

    STANDARD: Double Click on “DBP 14-2 Aux Feed Pump 1-2” in Subsystem 50

    CUE: **None**

SAT UNSAT

20. PERFORMANCE STEP: Input component changes

    STANDARD: Clicks on “Calculate” button

    CUE: **None**

SAT UNSAT

21. PERFORMANCE STEP: Verify the correct Environmental/Test Factors are entered

    STANDARD: Click on “View/Change Plant Configuration”

    CUE: **None**

SAT UNSAT

22. PERFORMANCE STEP: Verify the correct Environmental/Test Factors are entered.

    STANDARD: Click on “Environmental/Test Factors” tab

    CUE: **None**

SAT UNSAT

23. PERFORMANCE STEP: Verify “Set In Effect” box is selected

    STANDARD: Verify “Remove From Service” box is selected

    CUE: **None**

SAT UNSAT

24. PERFORMANCE STEP: Ensure date and time correct

    STANDARD: Change time to a time later than the last configuration change

    CUE: **None**

SAT UNSAT

25. PERFORMANCE STEP: Select Winter Conditions

    STANDARD: Double click on “Winter Conditions”

    CUE: **None**

SAT UNSAT

26. PERFORMANCE STEP: Calculate Risk

√

STANDARD: Clicks on the “Calculate” button

Comment: ORANGE RISK

CUE: **None**

SAT UNSAT

TERMINATING CUES: This JPM is complete. (Terminated by the evaluator)

END TIME

Verification of Completion

Job Performance Measure No. A-1

Examinee's Name: _____

Examiner's Name: _____

Date Performed: _____

Facility Evaluator: _____

Number of Attempts: _____

Time to Complete: _____

Question Documentation:

Question: _____
_____
_____

Response: _____
_____
_____
_____

Result: Satisfactory/Unsatisfactory

Examiner's signature and date: _____

Facility: Davis-Besse **Task No:** 333-012-01-3000

Task Title: Review Auxiliary Feedwater Pump 2 Monthly Periodic Test and Determine Operability

K/A Reference: 2.1.33 (3.4/4.0) **Job Performance Measure No**: A-2 (SRO only)

Examinee: _____ **NRC Examiner:** _____

Facility Evaluator: _____ **Date:** _____

Method of testing:

Simulated Performance ___ Actual Performance _X_

Classroom ___ Simulator _X_ 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:
The plant is operating at 100% power
DB-SP-04159, Auxiliary Feedwater Pump 2 Monthly Periodic Test, has been completed through step 4.75

Task Standard:
Review test for accuracy and determine operability

Required Materials:
Calculator

General References:
DB-SP-04159, AFP Monthly Periodic Test

Initiating Cue:
The Shift Manager directs you to review the AFP 2 Monthly Periodic Test and complete the procedure and acceptance criteria

Time Critical Task: No

Validation Time: 15 minute

INITIAL CONDITIONS:

The plant is operating at 100% power

DB-SP-04159, Auxiliary Feedwater Pump 2 Monthly Periodic Test, has been completed through step 4.75

INITIATING CUE:

The Shift Manager directs you to review the AFP 2 Monthly Periodic Test and complete the procedure and acceptance criteria

PERFORMANCE INFORMATION

Start Time _____

.1. PERFORMANCE STEP: Review Attachment 1 data sheet for accuracy

STANDARD: Identify Attachment 1 of DB-SP-04159 as the correct procedure and attachment

CUE: **Provide a copy of DB-SP-04159 to the candidate**

SAT UNSAT

2. PERFORMANCE STEP: Determine differential pressure (ΔP) is inadequate
√

STANDARD: Identify Attachment 1 of DB-SP-04159 and perform the differential pressure (ΔP) calculation

COMMENT: The correct calculated differential pressure is 1274.4 psid

CUE: **None**

SAT UNSAT

3. PERFORMANCE STEP: Evaluate re-calculated differential pressure (ΔP) for AFW
√ Train 2 operability

STANDARD: Review DB-SP-04159 acceptance criteria step 5.1, and recognize the correctly calculated ΔP is outside the acceptable range

CUE: (If asked) **Shift Manager has been informed that the test ΔP is outside the acceptable range. He directs you to determine operability**

SAT UNSAT

.4. PERFORMANCE STEP: Verify AFP 2 speed is between 3595 and 3633 rpm
√ . .

STANDARD: Review DB-SP-04159 speed acceptance criteria step 5.2

CUE: **None**

SAT UNSAT

5. PERFORMANCE STEP: Review TS 3.7.1.2 or DB-SP-04159 Acceptance Criteria and determine that AFW Train 2 is inoperable
   √

   STANDARD: Review TS 3.7.1.2 or DB-SP-04159 Acceptance Criteria for operability criteria

   CUE: (If asked) **Shift Manager acknowledges that AFW Train 2 is inoperable and IL4800 should be on**

SAT UNSAT

TERMINATING CUES: This JPM is complete. (Terminated by the examiner)

END TIME

Verification of Completion

Job Performance Measure No. A-2

Examinee's Name: _____

Examiner's Name: _____

Date Performed: _____

Facility Evaluator: _____

Number of Attempts: _____

Time to Complete: _____

Question Documentation:

Question: _____
_____
_____

Response: _____
_____
_____
_____

Result: Satisfactory/Unsatisfactory

Examiner's signature and date: _____

Facility: Davis-Besse **Task No:** 119-023-03-100

Task Title: Review a safety tagout for Demineralized Water with eSOMS unavailable

K/A Reference: 2.2.13 (3.6/3.8) **Job Performance Measure No**: A-3

Examinee: _____ **NRC Examiner:** _____

Facility Evaluator: _____ **Date:** _____

Method of testing:

Simulated Performance ___ Actual Performance _X_

Classroom ___ Simulator _X_ 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:

The plant is currently operating at 100%
Demin Water Transfer Pumps 2 and 3 are in service
eSOMS is currently out of service and will not be restored for another four hours
Demin Water Transfer Pump 1 has a leak on the pump's seal that must be replaced

Task Standard:
Review a safety tagout

Required Materials:

General References:
DB-OP-06222, Condensate, Demineralized, & Primary Water Transfer & Storage System
NOP-OP-1001, Clearance/Tagging Program

Initiating Cue:

The Shift Manager directs you to review a safety tagout for Demin Water Transfer Pump 1 for seal replacement

Time Critical Task: No

Validation Time: 15 minutes

INITIAL CONDITIONS:

The plant is currently operating at 100%

Demin Water Transfer Pump 2 is in operation

eSOMS is currently out of service and will not be restored for another four hours

Demin Water Transfer Pump 1 has a leak on the pump's seal that must be replaced

INITIATING CUES:

The Shift Manager directs you to review a safety tagout for Demin Water Transfer Pump 1 for seal replacement

PERFORMANCE INFORMATION

START TIME: _____

1. PERFORMANCE STEP: Locate copy of NOP-OP-1001, Clearance/Tagging Program

   STANDARD: Locate copy of NOP-OP-1001, Clearance/Tagging Program, step 4.28

   COMMENT: Sequence is not required for this JPM
   Hand trainee a copy of NOP-OP-1001

   CUE: **None**

   _____
   SAT UNSAT

2. PERFORMANCE STEP: Review Manual Clearance Tracking Index, Attachment 8

   STANDARD: Review index for correctness

   COMMENT: Provide trainee a copy of Attachment 8

   CUE: **None**

   _____
   SAT UNSAT

3. PERFORMANCE STEP: Review Manual Outage Clearance Coversheet, Attachment 7

   STANDARD: Review coversheet for correctness

   COMMENT: Provide trainee a copy of Attachment 7

   CUE: **None**

   _____
   SAT UNSAT

4. PERFORMANCE STEP: Review Manual Clearance Tag List, Attachment 9

√

STANDARD: Verify clearance provides adequate boundaries, correct job information, and any hazards (none). The following is the correct components to be tagged out:

DW 40, DW XFR Pump 1 Suction Vlv, - Closed
DW 80, DW XFR Pump 1 Recirc Isol Vlv – Closed
BE 4124(E41A), DW XFR Pump 1 – Open
DW 46, DW XFR Pump 1 Discharge Vlv – Closed

Candidate identifies the incorrect suction valve, DW 8225, and breaker, BF 4124, on the tagging list
The candidate corrects the tagging list by removing DW 8225 and BF4124 and adding suction valve DW 40 and breaker BE4124 to Attachment 9

COMMENT: Provide trainee a copy of Attachment 9

CUE: **(If asked) The Shift Manager directs you to take appropriate actions**

SAT UNSAT

5. PERFORMANCE STEP: Inform the Clearance Requester of the needed changes

STANDARD: Contact the Clearance Requester of needed changes

CUE: **The Clearance Requester agrees with your changes and asks you to change the Clearance Request accordingly**

SAT UNSAT

TERMINATING CUES: This JPM is complete (Terminated by the examiner)

END TIME

Verification of Completion

Job Performance Measure No. A-3

Examinee's Name: _____

Examiner's Name: _____

Date Performed: _____

Facility Evaluator: _____

Number of Attempts: _____

Time to Complete: _____

Question Documentation:

Question: _____
_____
_____

Response: _____
_____
_____
_____

Result: Satisfactory/Unsatisfactory

Examiner's signature and date: _____

Facility: Davis-Besse **Task No:** 005-054-05-0100

Task Title: Calculate Steam Generator Leakrate

K/A Reference: 2.3.10 (2.9/3.3) **Job Performance Measure No**: A-4

Examinee: _____ **NRC Examiner:** _____

Facility Evaluator: _____ **Date:** _____

Method of testing:

Simulated Performance ___ Actual Performance _X_

Classroom ___ Simulator _X_ 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:

The unit is at 100% power
SG 1 has a tube leak
Pressurizer level is 220 inches and steady

Task Standard:

Determine SG leakrate

Required Materials:

Calculator

General References:

DB-OP-02531, SG Tube Leaks, Attachment 1, SG Tube Leak Rate calculations
Chemistry Sheet

Initiating Cue:

The Shift Manager directs you to perform a SG Tube Leak calculation using procedure DB-OP-02531, Attachment 1 Step 3

Time Critical Task: No

Validation Time: 15 minutes

INITIAL CONDITION:

Any Mode

ADDITIONAL SETUP/DEVIATION FROM INITIAL CONDITION:

None

MALFUNCTIONS/FAILURES TO INSERT:

Raise Steam Jet Air Ejector (SJAE) activity
Fail RE 1003A to position: IMF CM34E 0.0010
Fail RE 1003B to position: IMF CM33E 0.0004
Start RE 1003A pump

ACTION/CUES:

Step 5: **Steam Jet Air Ejector flow is 15 scfm**

INITIAL CONDITIONS:

The unit is at 100% power

SG 1 has a tube leak

Pressurizer level is 220 inches and steady

INITIATING CUE:

The Shift Manager directs you to perform a SG Tube Leak calculation using procedure DB-OP-02531, Attachment 1, Step 3

PERFORMANCE INFORMATION

START TIME:_____

1. PERFORMANCE STEP: Record Date and time

   STANDARD: Correct date and time used

   CUE: **None**

SAT UNSAT

2. PERFORMANCE STEP: Record Steam Jet Air Ejector radiation levels √

   STANDARD: Correctly read RE 1003A (1.01E4 cpm) and
   RE 1003B (3.94E3 cpm)

   COMMENT: RE 1003B varies between 3.93E3 and 3.95E3

   CUE: **None**

SAT UNSAT

4. PERFORMANCE STEP: Convert RE readings (cpm) to µCi/cc √

   STANDARD: Correctly multiply SJAE reading by conversion factor:
   RE 1003A = 6.565E-05 µCi/cc
   RE 1003B = 1.26E-04 µCi/cc

   COMMENT: Candidate may round off number

   CUE: **None**

SAT UNSAT

5. PERFORMANCE STEP: Record Steam Jet Air Ejector (SJAE) flow from FI1002

√

STANDARD: Communicate with an Equipment Operator to obtain the SJAE flow and correctly record

CUE: **(I/S) Steam Jet Air Ejector flow is 15 scfm**

SAT UNSAT

6. PERFORMANCE STEP: Record RCS Xe-133 activity from Chemistry sheet

√

STANDARD: Correctly record RCS Xe-133 activity (6.66E-3 µCi/cc)

CUE: **None**

SAT UNSAT

7. PERFORMANCE STEP: Calculate primary-to-secondary tube leak using RE 1003B

√

STANDARD: Correctly calculate tube leak using RE 1003B (2.1 – 2.2 gpm)

COMMENT: RE1003B is used because it is the highest value in Step C

CUE: **None**

SAT UNSAT

TERMINATING CUES: This JPM is complete (Terminated by candidate)

END TIME

Verification of Completion

Job Performance Measure No. A-4

Examinee's Name: _____

Examiner's Name: _____

Date Performed: _____

Facility Evaluator: _____

Number of Attempts: _____

Time to Complete: _____

Question Documentation:

Question: _____
_____
_____

Response: _____
_____
_____
_____

Result: Satisfactory/Unsatisfactory

Examiner's signature and date: _____

Facility: Davis-Besse **Task No:** 334-004-05-0300

Task Title: State and Counties Notification for an Alert emergency classification

K/A Reference: 2.4.43 (3.2/3.8) **Job Performance Measure No**: A-7 (RO only)

Examinee: _____ **NRC Examiner:** _____

Facility Evaluator: _____ **Date:** _____

Method of testing:

Simulated Performance ___ Actual Performance _X_

Classroom ___ Simulator _X_ 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:
Plant is shut down. An RCS leak is in progress.

Task Standard:
Make notifications to the State and County agencies during an Emergency Plan activation

Required Materials:

General References:
DB-OP-02110, Emergency Notification
DBEP-012, Emergency Notification Cover Sheet
Davis-Besse Emergency Plan Telephone Directory

Initiating Cue:
You are the spare Reactor Operator. The Shift Manager has declared an Alert classification based on RCS leakage. He has directed you to notify the Ottawa County, Lucas County, and the State of Ohio using the Initial Notification Form in accordance with Section 6.3 of RA-EP-02110, Emergency Notifications. Section 6.3 steps are complete through 6.3.4.

Time Critical Task: Yes

Validation Time: 15 minutes

INITIAL CONDITIONS:

Plant is shut down. An RCS leak is in progress.

INITIATING CUES:

You are the spare Reactor Operator. The Shift Manager has declared an Alert classification based on RCS leakage. He has directed you to notify the Ottawa County, Lucas County, and the State of Ohio using the Initial Notification Form in accordance with Section 6.3 of RA-EP-02110, Emergency Notifications. Section 6.3 steps are complete through 6.3.4.

PERFORMANCE INFORMATION

START TIME: _____

1. PERFORMANCE STEP: Locates the correct procedure section and step

   STANDARD: Identifies RA-EP-02110, step 6.3.5 as the next step to perform

   CUE: **This is a time critical JPM. The time starts now.**

   _____ Time Starts

   _____ SAT UNSAT

2. PERFORMANCE STEP: Activate the Davis-Besse 4-way ringdown circuit
   √

   STANDARD: Picks up receiver for 4-way ringdown phone

   COMMENT: Time critical stops when the 4-way ringdown phone is picked up

   _____ Time Stops

   CUE: **None**

   _____ SAT UNSAT

3. PERFORMANCE STEP: Recognize State of Ohio is not on the 4-way ringdown circuit

   STANDARD: Reports State of Ohio did not answer the 4-way ringdown phone

   CUE: (If asked) **Shift Manager directs you to continue with Notifications in accordance with RA-EP-02110**

   _____ SAT UNSAT

4. PERFORMANCE STEP: Document notification on Emergency Notification Cover Sheet

   STANDARD: Document agency notified, time of contact and if the 4-way ringdown phone was used

   CUE: **None.**

   _____ SAT UNSAT

5. PERFORMANCE STEP: Transmit information from the Initial Notification Form
   √

   STANDARD: Inform Lucas County and Ottawa County

   CUE: **None**

   _____
   SAT UNSAT

6. PERFORMANCE STEP: Contact State of Ohio using the Emergency Plan Telephone
   √ Directory

   STANDARD: Locate phone number for State of Ohio. Highway Patrol number is 614-466-2660

   CUE: **None**

   _____
   SAT UNSAT

7. PERFORMANCE STEP: Contact State of Ohio using the Emergency Plan Telephone
   √ Directory

   STANDARD: Use normal telephone to contact State of Ohio

   COMMENT: An outside line is not available on Simulator

   CUE: **None.**

   _____
   SAT UNSAT

TERMINATING CUES: This JPM is complete (Terminated by evaluator)

_____
END TIME

Verification of Completion

Job Performance Measure No. A-7

Examinee's Name: _____

Examiner's Name: _____

Date Performed: _____

Facility Evaluator: _____

Number of Attempts: _____

Time to Complete: _____

Question Documentation:

Question: _____
_____
_____

Response: _____
_____
_____
_____

Result: Satisfactory/Unsatisfactory

Examiner's signature and date: _____

Facility: Davis-Besse **Task No:** 334-012-05-0300

Task Title: Security Event Classification and Notification

K/A Reference: 2.4.43 (3.2/3.8) **Job Performance Measure No**: A-5 (SRO only)

Examinee: _____ **NRC Examiner:** _____

Facility Evaluator: _____ **Date:** _____

Method of testing:

Simulated Performance ___ Actual Performance _X_

Classroom ___ Simulator _X_ 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:

The plant is at 100% power
No equipment is out of service

Task Standard:
Perform actions required for a Security Event
Classify emergency plan event in accordance with the Emergency Plan

Required Materials:

General References:
RA-EP-02245, Security Events or Threats

Initiating Cue:

You are the shift Manager
The Security Supervisor reports to the Control Room that the plant has received information from a reliable source of a Davis Besse Specific Credible Threat
The reliable source reports that an outside source is suspected of planning to take control of Davis-Besse in 2 hours

Time Critical Task: Yes

Validation Time:
10 minutes

INITIAL CONDITIONS:

The plant is at 100% power
No equipment is out of service

INITIATING CUES:

You are the Shift Manager

The Security Supervisor reports to the Control Room that the plant has received information from a reliable source of a Davis Besse Specific Credible Threat

The reliable source reports that an outside source is suspected of planning to take control of Davis-Besse in 2 hours

PERFORMANCE INFORMATION

START TIME: _____

1. PERFORMANCE STEP: Locate a copy of DB-OP-02544, Security Events or Threats

   STANDARD: Implements section 4.3 of DB-OP-02544

   COMMENT: Critical to make classification within 15 minutes

   CUE: **This is a time critical JPM. The clock starts now.** Time: _____

   Hand the trainee a copy of DB-OP-02544

   _____
   SAT UNSAT

2. PERFORMANCE STEP: Classify the event
   √

   STANDARD: Declare an Unusual Event per EAL 7.I.1 Time of declaration: _____

   CUE: **None**

   _____
   SAT UNSAT

3. PERFORMANCE STEP: Make a plant announcement
   √

   STANDARD: Use the Gaitronics to announce the security threat

   CUE: (If asked) **Security concurs with the plant announcement**
   (If asked) **Security is not available to activate CANS (Computerized Notification System)**

   _____
   SAT UNSAT

4. PERFORMANCE STEP: Notify the Emergency Response Organization
   √

   STANDARD: Dial CANS number 9-1-866-458-4031

   COMMENT: The Simulator phone will respond with a beeping signal if this number is dialed

   CUE: **The CANS phone number has been dialed**
   CANS answers: *"This is the Remote Activation module. Please enter you company id number followed by the pound sign."*

   SAT UNSAT

5. PERFORMANCE STEP: Notify the Emergency Response Organization
   √

   STANDARD: 5247 entered followed by the pound sign. Key 9 pressed after cue

   CUE: ***"You entered 5247, is this correct? Press 9 for yes or 6 for no."***

   SAT UNSAT

6. PERFORMANCE STEP: Notify the Emergency Response Organization
   √

   STANDARD: Enter the scenario activation password (individual's company SAP number) followed by the # sign

   CUE: ***"Please enter your scenario activation password followed by the pound sign."***

   SAT UNSAT

7. PERFORMANCE STEP: Notify the Emergency Response Organization
   √

   STANDARD: Candidate enters his SAP id number and pound sign, and depresses 9

   CUE: ***"You entered (SAP #), is that correct? Press 9 for yes or 6 for no."***
   (After Key 9 is depressed) ***"To start a scenario, enter the scenario ID followed by the pound sign, or press pound alone for more options."***

   SAT UNSAT

8. PERFORMANCE STEP: Notify the Emergency Response Organization

√

STANDARD: Press 1111. "9" pressed after cue

CUE: ***"You entered (scenario id #), is that correct? Press 9 for yes or 6 for no."***

SAT UNSAT

9. PERFORMANCE STEP: Notify the Emergency Response Organization

√

STANDARD: Press 3 to start the scenario

CUE: ***"To listen to the current scenario message, press 1;"***
"To re-record the scenario message, press 2."
"**To start the scenario, press 3. To return to the main menu, press pound."**
(After 3 is pressed) **The scenario is building**

SAT UNSAT

10. PERFORMANCE STEP: Notify the Emergency Response Organization

√

STANDARD: Press pound to end the call

CUE: **To end this call, press pound**
(After # is pressed) **Goodbye**

SAT UNSAT

11. PERFORMANCE STEP: Prepare an Accelerated NRC Call form

STANDARD: Locate and prepare Form DB-0252
Line 1 - Candidate's name
Line 2 - Check the first block, Davis-Besse Credible Threat
Line 3 - Check Unusual Event
Line 4 - Brief Description

CUE: **None**

SAT UNSAT

12. PERFORMANCE STEP: Make the NRC Accelerated call
√

STANDARD: Use the Emergency Notification System to notify the NRC
Line 5 - Time call completed

CUE: **Role play as the NRC and repeat back information**

_____
SAT UNSAT

TERMINATING CUES: This JPM is complete. (Terminated by the examiner)

_____
END TIME

Verification of Completion

Job Performance Measure No. A-5

Examinee's Name: _____

Examiner's Name: _____

Date Performed: _____

Facility Evaluator: _____

Number of Attempts: _____

Time to Complete: _____

Question Documentation:

Question: _____
_____
_____

Response: _____
_____
_____
_____

Result: Satisfactory/Unsatisfactory

Examiner's signature and date: _____