Admin JPM
SRO-A1.1

Examinee: _____ **Date:** _____

Examiner: _____

Facility: Davis-Besse **JPM No**: OPS-JPM-295

Task Title: Determine Maintenance of Active License Status

Task No: 336-004-03-0300 **System:** _____

K/A Reference: 2.1.4 (3.8) **Safety Function:** _____

Time Critical Task: No **Alternate Path:** _____

Validation Time: 15 minutes

Method of testing:

Simulated Performance ___ Actual Performance X

Classroom X Simulator ___ Plant ___

Task Standard:
Determine SRO 1 is Inactive.
Determine SRO 2 and SRO 3 are Active.

Required Materials:
- NOBP-TR-1271 R16, Operator License Administration
- NUREG 1021 Section 5.3

General References:
- TS 5.2.2
- TRM 10.2.1
- NT-OT-07001
- NOP-OP-1002 R19, Conduct of Operations

Notes:
None

Initial Conditions:
The plant conditions are specified in the Initial Conditions and Initiating Cues.

Initiating Cue:
The Initiating Cues are specified in the Examiner/Student Copy Performance Measure pages.

EXAMINER COPY

INITIAL CONDITIONS:

Today is 7/1/23. The Plant was in Mode 1 during the entire second quarter.

INITIATION CUE:

Based on the following work history for the second quarter of 2023, determine the license status as of today, 7/1/23, for each SRO and document as ACTIVE or INACTIVE on this page.

SRO 1	
Entered second quarter with an active license	
4/01/23	Worked 0700-1900 as Command SRO
4/02/23	Worked 0700-1900 as Command SRO
4/03/23	Worked 0700-1900 as Command SRO
4/07/23	• Worked 0700-1900 as Command SRO. • Was relieved for 5 hours to obtain required biennial License Physical at the Health Center
4/08/23	Worked 0700-1900 as Command SRO

SRO 2	
Entered second quarter with an in-active license	
4/15/23 - 4/20/23	Completes all requirements for license reactivation.
4/20/23	License declared active.
4/23/23	Worked 0700-1900 as Command SRO
4/24/23	Worked 0700-1900 as Command SRO
4/28/23	Worked 0700-1900 as Shift Technical Advisor

SRO 3	
Entered second quarter without a license	
4/5/23	License issued from the NRC
5/1/23	Worked 0700-1900 as Command SRO
5/2/23	Worked 0700-1900 as Command SRO
5/3/23	Worked 0700-1900 as Command SRO
5/9/23	Worked 0700-1900 as Command SRO
5/10/23	Worked 0700-1900 as Shift Technical Advisor

(Provide a copy of.
- **NOBP-TR-1271 R16, Operator License Administration**
- **NUREG 1021 Section 5.3)**

CANDIDATE COPY

INITIAL CONDITIONS:

Today is 7/1/23. The Plant was in Mode 1 during the entire second quarter.

INITIATION CUE:

Based on the following work history for the second quarter of 2023, determine the license status as of today, 7/1/23, for each SRO and document as ACTIVE or INACTIVE on this page.

SRO 1	
Entered second quarter with an active license	
4/01/23	Worked 0700-1900 as Command SRO
4/02/23	Worked 0700-1900 as Command SRO
4/03/23	Worked 0700-1900 as Command SRO
4/07/23	• Worked 0700-1900 as Command SRO. • Was relieved for 5 hours to obtain required biennial License Physical at the Health Center
4/08/23	Worked 0700-1900 as Command SRO

SRO 2	
Entered second quarter with an in-active license	
4/15/23 - 4/20/23	Completes all requirements for license reactivation.
4/20/23	License declared active.
4/23/23	Worked 0700-1900 as Command SRO
4/24/23	Worked 0700-1900 as Command SRO
4/28/23	Worked 0700-1900 as Shift Technical Advisor

SRO 3	
Entered second quarter without a license	
4/5/23	License issued from the NRC
5/1/23	Worked 0700-1900 as Command SRO
5/2/23	Worked 0700-1900 as Command SRO
5/3/23	Worked 0700-1900 as Command SRO
5/9/23	Worked 0700-1900 as Command SRO
5/10/23	Worked 0700-1900 as Shift Technical Advisor

PERFORMANCE INFORMATION

NOTE: Critical steps denoted with a "C". Failure to meet any one of these standards for this item constitutes failure. Sequence is NOT critical unless denoted in the "Comments".

START TIME: _____

1. PERFORMANCE STEP: Evaluate SRO 1 work history
.....C.....

STANDARD: Reviews NOBP-TR-1271, Operator License Administration, Section 4.5.
Determines license is **Inactive**.

COMMENT: Credit not received for complete watch due to absence to Health Center

CUE: **None**

_____
SAT UNSAT

2. PERFORMANCE STEP: Evaluate SRO 2 work History
.....C.....

STANDARD: Reviews NUREG 1021 NUREG 1021 Section 5.3, ES-5.3, Page 5 of 12
Determines license is **Active**.

COMMENT: Reactivation meets proficiency requirements for the quarter

CUE: **None**

_____
SAT UNSAT

3. PERFORMANCE STEP: Evaluate SRO 3 work history
.....C.....

STANDARD: Reviews NOBP-TR-1271 Page 6 of 33 second NOTE
Determines license is **Active**.

COMMENT: When the NRC issues a license, the license is always issued in Active Status.

CUE: **None**

_____
SAT UNSAT

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

END TIME_____

SRO Admin JPM
A1.2

Examinee: _____ **Date:** _____

Examiner: _____

Facility: Davis-Besse **JPM No**: OPS-JPM-NEW

Task Title: Review DB-NE-06101, Fuel/Control Component Shuffle

Task No: _____ **System:** _____

K/A Reference: G2.1.42 (3.4) **Safety Function**: _____

Time Critical Task: No **Alternate Path:** No

Validation Time: 20 minutes

Method of testing / Location:

Simulated Performance ___ Actual Performance _X_

Classroom _X_ Simulator ___ Plant ___

Task Standard:
The operator will perform a review of a completed SFP shuffle to include Move Sequence Sheets and the Directors log and determine if any discrepancies exist.

The operator will identify the following discrepancies:

1. A change was made to the location on line 1 that was not IAW DB-NE-6101 step 2.1.1.

2. Fuel movement should have been immediately suspended IAW LCO 3.3.15 Condition D.

Required Materials:
DB-NE-06101 Fuel/Control Component Shuffle
DB-NE-06101 Fuel/Control Component Shuffle ATT 2 Fuel Movement Sequence Sheet
DB-NE-06101 Fuel/Control Component Shuffle ATT 1 Directors Log
Davis Besse Improved Standard Technical Specifications
Davis Besse Improved Standard Technical Specifications Bases

General References: None

Notes: None

Initial Conditions: Reactor is Mode 1 preparing to enter the next refueling outage; Fuel handling in the SFP is in progress.

Initiating Cue: The Initiating Cues are specified in the Examiner/Student Copy Performance Measure pages.

EXAMINER COPY

INITIAL CONDITIONS:

The Reactor is in Mode 6

Fuel handling commenced in the SFP to reshuffle fuel assemblies on 2/1/24 at 0000.

Station Vent Normal Range Radiation Monitor Ch.1 failed low. Entered LCO 3.3.15 Condition A on 2/1/24 at 0400.

Fuel handling in the SFP was completed on 2/10/24 at 0200

INITIATING CUE:

You are directed to review the final fuel movement sequence sheet and the last page of the directors' log to determine if any discrepancies exist.

Describe any discrepancies you find.

(PROVIDE THE APPLICANT THE FOLLOWING REFERENCES:

- **Director's Log**
- **Fuel Movement Sequence Sheet**
- **DB-NE-06101, FUEL /CONTROL COMPONENT SHUFFLE**
- **Davis-Besse Improved Standard Technical Specifications**
- **Davis-Besse Tech Spec Bases)**

CUE, as needed: As the Shift Manager, if the candidate makes a report, acknowledge the report, and direct the candidate to continue reviewing the paperwork.

CANDIDATE COPY

INITIAL CONDITIONS:

The Reactor is in Mode 6

Fuel handling commenced in the SFP to reshuffle fuel assemblies
on 2/1/24 at 0000.

Station Vent Normal Range Radiation Monitor Ch.1 failed low. Entered LCO 3.3.15 Condition A
on 2/1/24 at 0400.

Fuel handling in the SFP was completed
on 2/10/24 at 0200

INITIATING CUE:

You are directed to review the final fuel movement sequence sheet and the last page of the directors' log to determine if any discrepancies exist.

Describe any discrepancies you find.

PERFORMANCE INFORMATION

NOTE: Critical steps denoted with a "C". Failure to meet any one of these standards for this item constitutes failure. Sequence is NOT critical unless denoted in the "Comments".

START TIME: _____

1. PERFORMANCE STEP: Review Fuel Movement paperwork.

   STANDARD: Utilizes the provided directors log and move sequence sheet to evaluate the moves that were performed on the previous shift. References DB-NE-06101 to identify discrepancies exist in the fuel movements that occurred on the previous shift.

   CUE: **None**

   _____
   SAT UNSAT

---

2. PERFORMANCE STEP: Document any discovered discrepancies.
   .....C.....

   STANDARD: Uses DB-NE-06101 and documents the following discrepancy:

   - Identify that a change was made to the location on line 1 of the fuel movement sheet that was not in accordance with DB-NE-6101 step 2.1.1.

   CUE: **None**

   _____
   SAT UNSAT

---

3. PERFORMANCE STEP: Document any discovered discrepancies.
   .....C.....

   STANDARD: Uses DB-NE-06101 and documents the following discrepancy:

   - On ATTACHMENT 1: DIRECTOR'S LOG, the 4th entry states that CTRM Normal Ventilation has been isolated. This is the correct REQUIRED ACTION for LCO 3.3.15 CONDITION A. However, the required COMPLETION TIME is 7 days, which was not met.

     When the associated Completion Time of Condition A is not met during movement of irradiated fuel assemblies, movement of irradiated fuel assemblies must be suspended Immediately IAW LCO 3.3.15 CONDITION D.

   CUE: **None**

   _____
   SAT UNSAT

TERMINATING CUES: Once the candidate reports completion of the review, the JPM is complete (Terminated by the examiner).

END TIME:_____

ATTACHMENT 1: DIRECTOR'S LOG

Date / Time	Comments	Initials
2/08/24 / 1800	Relieved John Andrews as Director of fuel handling.	AS
2/09/24 / 0600	Relieved Andrew Smith as Director of fuel handling.	JA
2/09/24 / 1800	Relieved John Andrews as Director of fuel handling.	AS
2/09/24 / 1830	Informed by Control Room that CTRM Normal Ventilation has been isolated.	AS
2/10/24 / 0200	Completed Line No. 36 of the Fuel Movement Sheet. Fuel handling in the SFP is complete.	AS

ATTACHMENT 2: FUEL MOVEMENT SEQUENCE SHEETS MSS: 2023-02 Sheet 10 of 10

MFHB: Main Fuel Handling Bridge
AFHB: Auxiliary Fuel Handling Bridge
FSHB: Fuel Storage Handling Bridge
SFCC: Spent Fuel Crane
E: East Transfer Mechanism
W: West Transfer Mechanism
UT: Ultrasonic Location

Prepared by* *J. Robert Oppenheimer* Date 1/15/2024
Reactor Engineer

Reviewed by* *Enrico Fermi* Date 1/15/2024
Reactor Engineer

Approved by *Gregory M. Roach, Jr.* Date 1/15/2024
Supervisor, Nuclear Reactor Engineering

*Reviewed for T.S. 3.7.16 Compliance

LINE NO.	MOVED BY	FUEL ID ---------- CAT	CONTROL COMP ID	INITIAL LOCATION	INITIAL LOCATION VERIFIED	FINAL LOCATION	FINAL LOCATION VERIFIED	COMMENTS
34	FSHB	10C6 A	N/A	A1	ES	~~F20~~ F24	ES	Move location changed by Rx engineering. Will inform Director at next opportunity.
35	FSHB	03H8 B	B4ZZ	C33	ES	R3	BL	
36	FSHB	03Y3 C	B4PP	N47	RP	S20	AS	

Admin JPM
SRO-A2

Examinee: _____ **Date:** _____

NRC Examiner: _____

Facility: Davis-Besse **JPM No**: SRO-A2 (JPM 212)

Task Title: Review PMT requirements

Task No: 331-014-03-0300 **System:** _____

K/A Reference: 2.2.21 (4.1) **Safety Function**: _____

Time Critical Task: No **Alternate Path:** _____

Validation Time: 15 minutes

Method of testing:

Simulated Performance ___ Actual Performance _X_

Classroom _X_ Simulator ___ Plant ___

Task Standard:
Identify that the following Post-Maintenance Testing requirements were not listed on the given Ops Impact Review sheet

- DB-PF-03008, Containment Local Leakage Rate Tests
- DB-PF-03272, Post Maintenance Valve Test

Required Materials:

- Exam Operations Impact Review
- Post Maintenance Test Manual

General References:
DB-SC-03122, SFAS Component Tests
DB-PF-03272, Post Maintenance Valve Test
DB-PF-03811, Miscellaneous Valves Test
DB-PF-03812, Miscellaneous Valves Cold Shutdown And Refueling Test
DB-PF-03008, Containment Local Leakage Rate Tests
DB-PF-09302, Testing Motor Operated Valves
NOP-WM-2003, Work Management Surveillance Process

Notes:
None

Initial Conditions:
The plant conditions are specified in the Initial Conditions and Initiating Cues.

Initiating Cue:
The Initiating Cues are specified in the Examiner/Student Copy Performance Measure pages.

EXAMINER COPY

INITIAL CONDITIONS:

The plant is in Mode 5

Refueling outage in progress

INITIATING CUES:

The Shift Manager directs you to perform an independent check of the required Post-Maintenance Testing identified on the Ops Impact Review sheet for actuator/motor & operator replacement for CV5079, Containment Vacuum Relief Isolation.

List any additional testing requirements identified during your review below.

(Provide student with copy of the Operations Impact Review and Post Maintenance Test Manual)

CANDIDATE COPY

INITIAL CONDITIONS:

The plant is in Mode 5

Refueling outage in progress

INITIATING CUES:

The Shift Manager directs you to perform an independent check of the required Post-Maintenance Testing identified on the Ops Impact Review sheet for actuator/motor & operator replacement for CV5079, Containment Vacuum Relief Isolation.

List any additional testing requirements identified during your review below.

PERFORMANCE INFORMATION

NOTE: Critical steps denoted with a "C". Failure to meet any one of these standards for this item constitutes failure. Sequence is NOT critical unless denoted in the "Comments".

START TIME: _____

1. PERFORMANCE STEP: Find the maintenance activity within the matrix to determine the required test activities (marked with an X or note number).
(Section 1.2 Valves, A. Tech Spec Valves Generic Instructions: Step A))

   STANDARD:
   1. Reviews 1.2 TECH SPEC VALVE MATRIX
   2. Identifies the following items are marked as required test activities for Actuator maintenance on an MOV/CIV:
      S: Stroke
      T: Stroke time
      STM: Position indication using stem
      PACK LOAD
      OTH: Note 1. Perform any required tests identified in Section 2.2, which may have been affected by the activity.
      OTH: Note 18. Also review section 1.2.C for Generic Letter 89-10 and Non-Generic Letter Testing.
      OTH: Note 8. DB-PF-03272, Post-Maintenance Valve Testing.
      LLRT: Note 11. As required to meet Appendix J Program requirements, an AF / AL LLRT may be required for the noted activity per DB-PF-03008. Responsible Engineer/Specialist for LLRT will determine whether an LLRT is required. (see General Note A). Otherwise, perform general leak test.

   CUE: **If asked, Appendix J title is Primary Reactor Containment Leakage testing for Water-Cooled Power Reactors**

   SAT UNSAT

2. PERFORMANCE STEP: Determine if any procedure from Section 2.2 performs the required test activities listed on 1.2 TECH SPEC VALVE MATRIX.
(Section 1.2 Valves, A. Tech Spec Valves Generic Instructions: Step B))

   STANDARD:
   1. Reviews information for CV5079 under section 2.2, Valves.
   2. Identifies the following Test Requirements listed for CV5079:
      Response Time: DB-SC-03122 (Note 4)
      Position Verification: DB-PF-03272 or DB-PF-03812
      Time Closed: DB-PF-03272 or DB-PF-03811
      LLRT: DB-PF-03008

   CUE: **None**

   SAT UNSAT

3. PERFORMANCE STEP: Review section 1.2.C for Generic Letter 89-10 and Non-Generic Letter Testing. (1.2 TECH SPEC VALVE MATRIX Note 18.)

STANDARD:
1. Reviews 1.2.C. MOTOR OPERATED VALVES 1.2 GENERIC LETTER 89-10 PROGRAM MOTOR OPERATED VALVES (PCAQR 94-0226) Matrix
2. Reviews Notes marked for Motor removal/replace AND Remove/replace operator.
   1. & 2. requires DB-PF-09302
   3. Torque requirements: Ops Impact
   6. Stroke Time: DB-PF-03272
   7. LLRT: DB-PF-03008
   8. SFAS Data Light: DB-SC-03122

CUE: **None**

SAT UNSAT

---

4. PERFORMANCE STEP: Compares identified items with Ops Impact Review sheet. **.....C.....**

STANDARD: Identify that **DB-PF-03272, Post Maintenance Valve Test** should have been specified as Post-Maintenance Testing per the PMT Manual entry for CV5079 for stroke time and position verification.

NOTE: DB-PF-03811 and DB-PF-03812 is also acceptable

CUE: **None**

SAT UNSAT

---

5. PERFORMANCE STEP: Compares identified items with Ops Impact Review sheet. **.....C.....**

STANDARD: Identify that an LLRT per **DB-PF-03008, Containment Local Leakage Rate Tests** should have been specified as Post-Maintenance Testing per the PMT Manual for CV5079.

NOTE: Also, acceptable to state that the Responsible Engineer/Specialist is required to determine the LLRT requirements per 1.2 Valves General Notes and/or Note 11 on page 17 for additional information applicable to LLRTs.

CUE: **None**

SAT UNSAT

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

END TIME

WO # Valid number Asset: CV5079 CTMT Vacuum Breaker Isolation Valve actuator

DB-0356-0

OPERATIONS IMPACT REVIEW

Clearance Notes:

Compensatory Actions:

POC Modes:

ROC Modes:

Testing Mode: 5 or 6

Testing Notes: Post-Maintenance Testing: DB-SC-03122, SFAS Component Tests

Motor Power, Packing load and torque measurement will be tested IAW DB-PF-09302 by the MOV Team per the work order

Plant/System Impact: Need 8 out of 10 Vacuum Breakers operable with BWST temperature less than 60 degrees and 6 of 10 operable with BWST temperature above 60 degrees.

Work Complexity / Brief: The work involved is replacement of the CV5079 actuator/motor & operator; should be performed in Modes 5 or 6.

LCO Number:

Technical Specifications: 3.6.3 (MODES 1,2,3,4)

Planner Comments: CV5079 is a Generic Letter 89-10 valve

Scheduling Comments:

Reviewed by (SRO): Reviewed by Date

Admin JPM
SRO-A3

Examinee: _____ **Date:** _____

Examiner: _____

Facility: Davis-Besse **JPM No:** SRO-A3 (JPM 280)

Task Title: Perform Rad Liquid Release Admin checks

Task No: 333-008-01-0300 **System:** _____

K/A Reference: 2.3.6 3.8 **Safety Function:** _____

Time Critical Task: No **Alternate Path:** _____

Validation Time: 15 minutes

Method of testing:

Simulated Performance ___ Actual Performance _X_

Classroom _X_ Simulator ___ Plant ___

Task Standard:
Identify correct ODCM requirements and correct Release EAL RU1.1 setpoints

Required Materials:
In progress procedure DB-OP-03011 for releasing the MWMT
Off-Site Dose Calculation Manual
Wallboard

General References:
None

Notes:
None

Initial Conditions:
The plant conditions are specified in the Initial Conditions and Initiating Cues.

Initiating Cue:
The Initiating Cues are specified in the Examiner/Student Copy Performance Measure pages.

EXAMINER COPY

INITIAL CONDITIONS:

A Radioactive Liquid Batch Release permit is in progress for releasing the Miscellaneous Waste Monitor tank. Sampling and Analysis is complete.

Chemistry has approved the Release and returned the permit to Operations.

Section 4.2, Miscellaneous Waste Monitor Tank (MWMT) Release Administrative Checks, is in progress for approving the Release Valve Lineup, complete through step 4.2.6.

INITIATION CUE:

It has just been determined computer point F201 and all its inputs are non-functional.

Complete Section 4.2, steps 4.2.7 through 4.2.13 of Miscellaneous Waste Monitor Tank (MWMT) Release Administrative Checks.

- The High Alarm for Computer Point F671, Misc Wst Sys Out Flow, is set at 90 gpm
- F671 Point Quality indicates GOOD
- Attachment 20, Setting Digital Setpoints, has been completed by another operator

You are authorized to perform any Shift Manager actions as delegated duties.

(Provide Candidate a copy of the in-progress DB-OP-03011 for releasing the MWMT, and make available the Offsite Dose Calculation Manual and EAL Wallboard)

CANDIDATE COPY

INITIAL CONDITIONS:

A Radioactive Liquid Batch Release permit is in progress for releasing the Miscellaneous Waste Monitor tank. Sampling and Analysis is complete.

Chemistry has approved the Release and returned the permit to Operations.

Section 4.2, Miscellaneous Waste Monitor Tank (MWMT) Release Administrative Checks, is in progress for approving the Release Valve Lineup, complete through step 4.2.6.

INITIATION CUE:

It has just been determined computer point F201 and all its inputs are non-functional.

Complete Section 4.2, steps 4.2.7 through 4.2.13 of Miscellaneous Waste Monitor Tank (MWMT) Release Administrative Checks.

- The High Alarm for Computer Point F671, Misc Wst Sys Out Flow, is set at 90 gpm
- F671 Point Quality indicates GOOD
- Attachment 20, Setting Digital Setpoints, has been completed by another operator

You are authorized to perform any Shift Manager actions as delegated duties.

PERFORMANCE INFORMATION

NOTE: Critical steps denoted with a "C". Failure to meet any one of these standards for this item constitutes failure. Sequence is NOT required unless denoted in the "Comments".

START TIME: _____

1. PERFORMANCE STEP: Complete step 4.2.7. Record ODCM action statements on Step 5.a. **.....C.....** and sign item 4.i.

   STANDARD: Refers to the Off-site Dose Calculation Manual, Table 2-1. Documents on Attachment 1, Radioactive Liquid Batch Release Permit step 5.a., that instrument 2.b. (F201) is non-functional, and Action B is required. Documents required action as follows (exact wording is not required):

   ACTION B: With less than the number of required channels FUNCTIONAL, effluent releases via this pathway may continue provided the flow rate is estimated at least once per 4 hours during actual releases. Pump curves may be used to estimate flow.

   Signs item 4.i on attachment 1.

   CUE: **None**

   SAT UNSAT

2. PERFORMANCE STEP: Refer to Attachment 1, step 11.a and record step 4.2.8 as N/A

   STANDARD: Refers to Attachment 1, step 11.a and determines 4.2.8 is N/A

   CUE: **None**

   SAT UNSAT

3. PERFORMANCE STEP: Initials steps 4.2.9 a. and b.

   STANDARD: Initial conditions state that the high alarm for computer point F671 is set to 90 gpm and F671 Point Quality indicates GOOD

   CUE: **None**

   SAT UNSAT

4. PERFORMANCE STEP: Record step 4.2.10 as N/A due to F201 being non-functional and step 4.3.29.a will NOT be performed

STANDARD: Mark step 4.2.10 as N/A

NOTE: Step 4.3.29.a cannot be performed since **all** inputs to F201 are non-functional.

CUE: **None**

SAT UNSAT

---

5. PERFORMANCE STEP: Record step 4.2.11 as N/A due to RE1878A and 1878B being functional

STANDARD: Refer to steps 4.2.2, 4.2.4, 4.2.5, 4.2.6 and step 4.b. on Attachment 1 and determine RE1878A and 1878B are functional. Record step 4.2.11 as N/A

CUE: **None**

SAT UNSAT

---

6. PERFORMANCE STEP: Complete step 4.2.12, Perform Attachment 20

STANDARD: Verifies Attachment 20 has been completed as initial conditions state, and initials step 4.2.12 complete.

CUE: **None**

SAT UNSAT

---

7. PERFORMANCE STEP: Complete step 4.2.13. Perform Attachment 24, EAL Release Limit Worksheet **.....C.....**

STANDARD: Refer to step 10.c. on Attachment 1, Radioactive Liquid Batch Release Permit and complete Attachment 24

- Record RE1770A and RE1770B as N/A **(Not Critical)**
- Record 2.80E5 in high setpoint blocks for RE1878A and RE1878B
- Record 5.60E5 in RU1 Limit blocks for RE1878A and RE1878B

CUE: **If asked**, **Independent Verification is complete**

SAT UNSAT

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

END TIME

Admin JPM
SRO-A4

Examinee: _____ **Date:** _____

Examiner: _____

Facility: Davis-Besse **JPM No**: SRO-A4 (JPM 150)

Task Title: Determine the off-site PAR

Task No: 334-004-05-0300 **System:** _____

K/A Reference: 2.4.44 (4.4) **Safety Function:** _____

Time Critical Task: No **Alternate Path:** _____

Validation Time: 12 minutes

Method of testing:

Simulated Performance ___ Actual Performance _X_

Classroom _X___ Simulator ___ Plant ___

Task Standard:
Determine the off-site protective action recommendations and complete the Initial Notification Form within 15 minutes of classification.

Required Materials:
- NOP-LP-5504, Protective Measures Attachment E: Davis-Besse PAR Development
- Form NOP-LP-5503-04, Davis-Besse Nuclear Power Plant Initial Notification Form

General References:
None

Notes:
May perform with two applicants at a time.

Initial Conditions:
The plant conditions are specified in the Initial Conditions and Initiating Cues.

Initiating Cue:
The Initiating Cues are specified in the Examiner/Student Copy Performance Measure pages.

EXAMINER COPY

INITIAL CONDITIONS:

Damage to a fuel assembly in the Fuel Pool has resulted in a release from the Station Vent.

A General Emergency has just been declared per EAL RG1.1

Offsite notifications have NOT been completed.

Information reviewed for the General Emergency declaration determined that,
- There is no Loss or Potential Loss of the CTMT Fission Product Barrier.
- There is no Hostile Action or Evacuation Impediments reported by the state or counties.

Due to a power failure,
- Rascal Interface (URI), Dose Assessment Software, is unavailable.
- The current wind direction is unknown.

The following off-site dose assessment data has been provided.

Use the TEDE values only (Child Thyroid dose equivalent values not yet available)

TEDE RATE		TOTAL TEDE RELEASE
3.0 Rem/hr at 0.75 Miles	X 2 hour estimated release duration	6.0 Rem at 0.75 Miles
0.6 Rem/hr at 2 Miles		1.2 Rem at 2 Miles
0.2 Rem/hr at 5 Miles		0.4 Rem at 5 Miles
0.075 Rem/hr at 10 Miles		0.15 Rem at 10 Miles

INITIATING CUE:

As the Emergency Director, determine the Protective Action Recommendations (PARs) for offsite personnel IAW NOP-LP-5504, Section 4.2.1

AND

complete the Initial Notification Form.

This is a Time Critical JPM. The General Emergency was declared at TIME _____. You may begin.

CANDIDATE COPY

INITIAL CONDITIONS:

Damage to a fuel assembly in the Fuel Pool has resulted in a release from the Station Vent.

A General Emergency has just been declared per EAL RG1.1

Offsite notifications have NOT been completed.

Information reviewed for the General Emergency declaration determined that,
- There is no Loss or Potential Loss of the CTMT Fission Product Barrier.
- There is no Hostile Action or Evacuation Impediments reported by the state or counties.

Due to a power failure,
- Rascal Interface (URI), Dose Assessment Software, is unavailable.
- The current wind direction is unknown.

The following off-site dose assessment data has been provided.

Use the TEDE values only (Child Thyroid dose equivalent values not yet available)

TEDE RATE		TOTAL TEDE RELEASE
3.0 Rem/hr at 0.75 Miles	X 2 hour estimated release duration	6.0 Rem at 0.75 Miles
0.6 Rem/hr at 2 Miles		1.2 Rem at 2 Miles
0.2 Rem/hr at 5 Miles		0.4 Rem at 5 Miles
0.075 Rem/hr at 10 Miles		0.15 Rem at 10 Miles

INITIATING CUE:

As the Emergency Director, determine the Protective Action Recommendations (PARs) for offsite personnel IAW NOP-LP-5504, Section 4.2.1

AND

complete the Initial Notification Form.

This is a Time Critical JPM. I will inform you when the clock begins.

PERFORMANCE INFORMATION

NOTE: Critical steps denoted with a "C". Failure to meet any one of these standards for this item constitutes failure. Sequence is NOT critical unless denoted in the "Comments".

(Provide candidate with NOP-LP-5504, Protective Measures and Initial Notification Form)

CUE: Time critical clock starts now.

Time Critical clock START TIME: _____

1. PERFORMANCE STEP: Refer to NOP-LP-5504, Protective Measures and refers to Attachment E, Davis-Besse PAR Development. (Step 4.2.1 1.)

   STANDARD: Refers to NOP-LP-5504 and routes to Attachment E.

   CUE: **None**

   _____
   SAT UNSAT

2. PERFORMANCE STEP: Determine PAR using Figure 1, PAR Decision Flowchart of Attachment E, Page 2 of 5.

   STANDARD: Determines a General Emergency IS declared
   Determines this is the Initial PAR
   Determines no Loss or Potential Loss of the CTMT Fission Product Barrier
   Determines Hostile Action or Impediment to Evacuation NOT in progress
   Determines a release IS in progress
   Determines the release is NOT terminable by operator action
   OR
   Determines the release duration will be > 1 hour
   Determines TEDE projected doses are < 1 Rem at 5 miles
   Determines Evacuate 2-Mile Radius & 5-Miles Downwind is required.
   Routes to page 2 Column “A” for appropriate subareas.

   CUE: **None**

   _____
   SAT UNSAT

3. PERFORMANCE STEP: Determine PAR using Figure 1, PAR Decision Flowchart
.....C..... (Continued) Attachment E, Page 3 of 5.

   STANDARD: Uses Page 2 Column A on Figure 1.

   Using the Unknown or Lake Breeze wind direction, determines the affected Subareas to Evacuate for 2-mile radius and 5 miles down wind are 1, 2, 6, 10 and 12.

   CUE: **None**

   _____
   SAT UNSAT

4. PERFORMANCE STEP: Complete the Initial Notification Form (NOP-LP-5503-04)

.....C.....

STANDARD:

Mark box 2. ☐ A Drill (Not critical)

Mark box 3. ☐ a. A(n) (Not critical)
Mark box 3. ☐ GENERAL EMERGENCY **(CRITICAL)**
Mark box 3. TIME: JPM Start Time (Not Critical)
Mark box 3. DATE: Todays date (Not Critical)
Mark box 3. EAL: RG1.1 **(CRITICAL)**

Mark box 4. ☐ a. A non-routine release of radioactive material, as a result of this event, is in progress **(CRITICAL)**

Mark boxes 5. ☐ a. Evacuation: **(CRITICAL)**
Mark boxes 5. ☐ a. Evacuation: ☐ 1 ☐ 2 ☐ 6 ☐ 10 ☐ 12 **(CRITICAL)**

Sign as Emergency Director (Not critical)

Time Initial Notification Form is completed_____

CUE: **If asked, provide an independent check of the data entered and sign the Davis-Besse Notification Cover Sheet.**

_____
SAT UNSAT

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

_____
END TIME

DAVIS-BESSE
NUCLEAR POWER PLANT
INITIAL NOTIFICATION FORM

NOP-LP-5503-04, Rev. 0

USE FOR:
- **INITIAL CLASSIFICATION,**
- **CHANGES IN CLASSIFICATION,**
- **CHANGES IN PROTECTIVE ACTION RECOMMENDATIONS.**
- **EVENT TERMINATION**

STATE / COUNTY USE ONLY
DATE: _____ TIME: _____
MESSAGE NO: _____

Notification Davis-Besse Nuclear Power Station

2. This is: ☐ An Actual Emergency ☐ A Drill

3. ☐ a. A(n) ☐ GENERAL EMERGENCY ☐ SITE AREA EMERGENCY ☐ ALERT ☐ UNUSUAL EVENT
was declared at: _____ (TIME) on _____ (DATE) based on EAL: _____

☐ b. The Emergency situation has been terminated at: _____ (TIME) on _____ (DATE)

☐ c. The Protective Action Recommendation is being changed at: _____ (TIME) on _____ (DATE)

4. The radiological conditions are:

☐ a. A non-routine release of radioactive material, as a result of this event, is in progress

☐ b. The release of radioactive material associated with this event has been terminated.

☐ c. NO Radiological Release in progress as a result of this event.

5. Utility Protective Action Recommendations (PAR's):

☐ a. Evacuation:

(check applicable subareas)

☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12

AND that potassium iodide (KI) be administered to the general public in accordance with State procedures. The general public in unaffected areas should be advised to go indoors and monitor EAS broadcasts.

☐ b. Sheltering:

(check applicable subareas)

☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 11

AND that potassium iodide (KI) be administered to the general public in accordance with State procedures. The general public in unaffected areas should be advised to go indoors and monitor EAS broadcasts.

☐ c. None

For Utility Use Only

Approved: _____
Emergency Coordinator/Director

INSTRUCTIONS FOR COMPLETION
DB INITIAL NOTIFICATION FORM (INF)

NOP-LP-5503-03, Rev 0

This form is to be used for:

- Initial Classifications
- Changes in Classification
- Changes in PAR
- Event Termination

Complete Sections 2 through 5 using the following guidance:

Section 2

1. Check the appropriate box.

Section 3

1. **IF** this is an Initial or change is classification,
   THEN check box a.

   1.1. Check the applicable classification box.

   1.2 Enter the Time and Date that the Classification was declared.

   1.3. Enter the applicable EAL alpha/numeric characters from the Wallboard.

2. **IF** this is an Event Termination notification,
   THEN check box b.

   2.1 Enter the Time and Date that the event was terminated.

3. **IF** this is a PAR Change notification,
   THEN check box c.

   3.1 Enter the Time and Date of the PAR change.

Section 4

1. Check the appropriate box IAW guidance in NOP-LP-5501, Accident Assessment, Attachment A **AND/OR** C.

Section 5.

1. Check the appropriate boxes IAW guidance in NOP-LP-5504, Protective Measures, Attachment E.