SITE: **PRAIRIE ISLAND**

JPM TITLE: **PERFORM DAILY REACTOR COOLANT SYSTEM LEAKAGE TEST**

JPM NUMBER: **ADMIN JPM a. RO**

RELATED PRA INFORMATION: **NONE**
PRA Identified Task

TASK TITLE: **PERFORM RCS LEAKAGE EVALUATION**

K/A NUMBERS: **002 A4.01**

APPLICABLE METHOD OF TESTING:

Discussion: ☐ Simulate/walkthrough: ☐ Perform: ☒

EVALUATION LOCATION: In-Plant: ☐ Control Room: ☐

Simulator: ☐ Other: ☒

Lab: ☐

Time for Completion: **15** Minutes Time Critical: **NO**

Alternate Path: **NO**

TASK APPLICABILITY: SRO: ☒ RO: ☒

INITIAL CONDITIONS:

- Unit 1 is at 100% power.
- It is 0005 on a Tuesday morning.

INITIATING CUES:

- The Shift Supervisor directs you to complete Table 1 SECTION A of SP1001AA, Daily Reactor Coolant System Leakage Test.
- Report to the Shift Supervisor if any additional actions are required.

JPM PERFORMANCE INFORMATION

Required Materials: **Table 1 SECTION A of SP1001AA, Daily Reactor Coolant System Leakage Test**

General References: **SP1001AA, Daily Reactor Coolant System Leakage Test**

Task Standards: **Candidate determines that current activity on 1R0011A exceeds the 24 hour average by greater than a factor of 3, and SP1001AAA, must be initiated.**

Start Time: _____

Performance Step: **Critical N**	SP 1001AA - Step 6.1 At approximately 0000 Record data in Section A of Table 1.
Standard:	Candidate proceeds to Table 1 of SP1001AA.
Evaluator Cue:	**If asked, inform the candidate that this test is not for information or trending purposes and step 6.1 is required.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: **Critical N**	SP 1001AA - Table 1 - Section A 1R11/12 CONTAINMENT POSITION SELECTED YES/NO
Standard:	Candidate circles YES.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	

Performance Step: **Critical N**	SP 1001AA - Table 1 - Section A Containment Humidity
Standard:	Candidate records Containment Humidity as follows: **1Y1080A: 22%**
Evaluator Cue:	**When candidate demonstrates the ability to pull up Containment Humidity on ERCS (point 1Y1080A), then provide the following value: 1Y1080A: 22%**

Performance: **SATISFACTORY ☐ UNSATISFACTORY ☐**

Comments:

Performance Step: SP 1001AA - Table 1 - Section A
Critical N

Containment Sump A Run Time

Standard: Candidate records Containment Sump A Run Times as follows:

11: 18187.40 minutes
12: 640.70 minutes

Evaluator Cue: **If asked as the Auxiliary Building Operator for Containment Sump A run times, report the following:**

11: 18187.40 minutes
12: 640.70 minutes

If the candidate decides to pull up Containment Sump A Run Times on ERCS (identified as Sump#1 and Sump#2 on ERCS) from the LEAK2 program, then provide the following values:

11: 18187.40 minutes
12: 640.70 minutes

Performance: **SATISFACTORY ☐ UNSATISFACTORY ☐**

Comments:

Performance Step: SP 1001AA - Table 1 - Section A
Critical Y

Using ERCS, trend and average containment particulate (1R0011A) and gas (1R0012A) activity over the last 24 hours.

Standard: Candidate determines, using TREND feature for points 1R0011A and 1R0012A, 24 hour averages and current values are:

1R0011A 24 hour average: 447 cpm
1R0012A 24 hour average: 153 cpm
1R0011A current value: 1800 cpm
1R0012A current value: 352 cpm

Evaluator Cue: **When the candidate demonstrates the ability to recall points 1R0011A and 1R0012A, and uses the TREND feature for each point to determine the 24 hour average, then provide the following information:**

1R0011A 24 hour average: 447 cpm
1R0012A 24 hour average: 153 cpm
1R0011A current value: 1800 cpm
1R0012A current value: 352 cpm

Performance: **SATISFACTORY** ☐ **UNSATISFACTORY** ☐

Comments:

Performance Step: SP 1001AA - Table 1 - Section A
Critical Y

IF the current activity exceeds the average activity for either particulate or gas by a factor of 3 or greater, THEN determine the source of increased activity.

Standard: Candidate determines that the current value of 1R0011A is greater than 3 times the 24 hour average.

Evaluator Cue: **When informed of the increased value of 1R0011A and the need to determine the source of increased activity, then inform the examinee that the crew has been unable to determine the source of the increased activity.**

Performance: **SATISFACTORY** ☐ **UNSATISFACTORY** ☐

Comments:

Performance Step: SP 1001AA - Table 1 - Section A
Critical Y

Initiate SP1001AAA, Reactor Coolant Leakage Investigation.

Standard: Candidate determines the need to initiate SP1001AAA.

Performance: **SATISFACTORY** ☐ **UNSATISFACTORY** ☐

Comments:

Terminating Cues:

Stop Time: _____

ADMIN JPM a SRO, REVIEW THE UNIT 1 CONTROL ROOM LOG

SITE:	**PRAIRIE ISLAND**
JPM TITLE:	**REVIEW THE UNIT 1 CONTROL ROOM LOG**
JPM NUMBER:	**ADMIN JPM a. SRO**
RELATED PRA INFORMATION:	**NONE**
TASK TITLE:	**MAINTAIN REQUIRED LOGS, RECORDS, CHARTS, STATUS BOARDS**
K/A NUMBERS:	**2.1.18 (3.6/3.8)**

APPLICABLE METHOD OF TESTING:

Discussion: Simulate/walkthrough: ☐ Perform: ☒

EVALUATION LOCATION: In-Plant: ☐ Control Room: ☐

Simulator: ☐ Other: ☒

Lab: ☐

Time for Completion: **30** Minutes Time Critical: **NO**

Alternate Path: **NO**

TASK APPLICABILITY: SRO: ☒ RO: ☒

INITIAL CONDITIONS:

- Unit 1 is at 100% power.
- All systems are functioning properly.
- No equipment is tagged out.

INITIATING CUES:

- Review the 1800 – 0600 Unit 1 Control Room Log, SP 1001B.
- Inform the evaluator of discrepancies.

JPM PERFORMANCE INFORMATION

Required Materials: Consumable Copy of SP 1001B with discrepancies
Blank sheet of paper for writing down discrepancies
Calculator

General References: SWI O-25, SP 1001B

Task Standards: Candidate identifies out of specifications in the Control Room Log.

Start Time:

Performance Step: Step 5.3, Check >70,000 usable gallons available in each tank.
Critical: Y
Standard: Candidate identifies discrepancy and informs the evaluator.

Evaluator Note: 21 CST level is 54,500 Gallons.

Performance: SATISFACTORY ☐ UNSATISFACTORY ☐

Comments:

Performance Step: Step 20, Control Bank Rod Position, within Deviation Limits.
Critical Y

Standard: Candidate identifies discrepancy and informs the evaluator.
Evaluator Note: Control Bank D rod K-7 is greater than 12 steps deviation.

Performance: SATISFACTORY ☐ UNSATISFACTORY ☐

Comments:

Performance Step: Step 25.2, Check each accumulator pressure ≥ 710 psig and ≤ 770 psig.
Critical Y

Standard: Candidate identifies discrepancy and informs the evaluator.

Evaluator Note: 12 Accumulator pressure is below 710 psig on both indicators.

Performance: SATISFACTORY ☐ UNSATISFACTORY ☐

Comments:

Performance Step: Step 26.2, Check accumulator isolation valve CLOSED annunciator NOT LIT.
Critical N

Standard: Candidate identifies discrepancy and informs the evaluator.

Evaluator Note: **47018-0104, 12 ACCUM TO LOOP B COLD LEG CLOSED, signature block is not initialed.**

Performance: **SATISFACTORY** ☐ **UNSATISFACTORY** ☐

Comments:

Performance Step: **Step 34, Emergency Diesel Generator and Diesel Driven CL Pumps Fuel Inventory.**
Critical **N**

Standard: **Candidate identifies discrepancy and informs the evaluator.**

Evaluator Note: **UNIT 1 TOTAL SFGD FO INVENTORY sum should be 74,500 Gallons instead of 94,500 Gallons.**

Performance: **SATISFACTORY** ☐ **UNSATISFACTORY** ☐

Comments:

Terminating Cues: **When the candidate identifies the out of specifications in the Control Room Log, then the JPM is complete.**

Stop Time:

SITE: **PRAIRIE ISLAND**

JPM TITLE: **TRANSFER RHR SYSTEM TROUBLE ALARM TO FLANGE SETPOINTS**

JPM NUMBER: **ADMIN JPM b. RO REV. 0**

RELATED PRA INFORMATION: **NONE**
PRA Identified Task

TASK TITLE **OPERATE THE PLANT COMPUTER SYSTEM**

K/A NUMBERS: **2.1.19 (3.9/3.8)**

APPLICABLE METHOD OF TESTING:

Discussion: ☐ Simulate/walkthrough: ☐ Perform: ☒

EVALUATION LOCATION: In-Plant: ☐ Control Room: ☐

Simulator: ☒ Other: ☐

Lab: ☐

Time for Completion: **5** Minutes Time Critical: **NO**

Alternate Path: **NO**

TASK APPLICABILITY: SRO: ☒ RO: ☒

INITIAL CONDITIONS:

- Unit 1 is in Mode 6.
- Reactor vessel level is one foot below the Reactor Vessel Flange.

INITIATING CUES:

- The Shift Supervisor directs you to perform step 5.3.2 of 1C1.6, Shutdown Operations – Unit 1, to transfer the RHR System Trouble Alarm to FLANGE setpoints.

JPM PERFORMANCE INFORMATION

Required Materials:

- **Copy of Section 5.3 of 1C1.6, Shutdown Operations – Unit 1, with step 5.3 initialed.**

General References:

- **1C1.6, Shutdown Operations – Unit 1**

Task Standards: **Candidate transfers the RHR System Trouble Alarm to FLANGE setpoints.**

Start Time:

Performance Step: 1C1.6 – Step 5.3.2.A
Critical: N **Select** D2 – Reduced Inventory screen on ERCS.

Standard: Candidate selects D2 – Reduced Inventory screen on ERCS.

Performance: **SATISFACTORY** ☐ **UNSATISFACTORY** ☐

Comments:

Performance Step: 1C1.6 – Step 5.3.2.B
Critical Y
Switch the terminal to OVERRIDE mode.

Standard: Candidate switches the terminal to the OVERRIDE mode.

Evaluator Cue: **If asked the password for OVRD, then inform the candidate the password is DUTY.**

Performance: **SATISFACTORY** ☐ **UNSATISFACTORY** ☐

Comments:

Performance Step: 1C1.6 – Step 5.3.2.C
Critical N **Select** "Valve Positions Are Updated Manually Via D2VU" button.

Standard: Candidate selects "Valve Positions Are Updated Manually Via D2VU" button.

Performance: **SATISFACTORY** ☐ **UNSATISFACTORY** ☐

Comments:

Performance Step: 1C1.6 – Step 5.3.2.D
Critical Y **Enter** "1" in "New Value" box in "Level Alarm Active/Inhibit Status" section of screen.

Standard: Candidate enters "1" in "New Value" box in "Level Alarm Active/Inhibit Status" section of screen.

Performance: **SATISFACTORY** ☐ **UNSATISFACTORY** ☐

Comments:

Performance Step: 1C1.6 – Step 5.3.2.D
Critical Y **Select** "Apply" button.

Standard: Candidate selects "Apply" button.

Performance: **SATISFACTORY** ☐ **UNSATISFACTORY** ☐

Comments:

Terminating Cues:

After the candidate transfers the RHR System Trouble Alarm to FLANGE setpoints, this JPM is complete.

Stop Time:

ADMIN JPM b. SRO, REVIEW AN ESTIMATED CRITICAL CONDITION CALCULATION

SITE:	PRAIRIE ISLAND
JPM TITLE:	REVIEW AN ESTIMATED CRITICAL CONDITION CALCULATION
JPM NUMBER:	ADMIN b. SRO REV. 0
RELATED PRA INFORMATION:	NONE
TASK NUMBERS / TASK TITLE(S):	PERFORM ECC CALCULATIONS
K/A NUMBERS:	001 A2.12

APPLICABLE METHOD OF TESTING:

Discussion: ☐ Simulate/walkthrough: ☐ Perform: ☒

EVALUATION LOCATION: In-Plant: ☐ Control Room: ☐

Simulator: ☐ Other: ☒

Lab: ☐

Time for Completion: **60** Minutes Time Critical: **NO**

Alternate Path: **NO**

TASK APPLICABILITY: SRO: ☒ RO: ☐

ADMIN JPM b. SRO, REVIEW AN ESTIMATED CRITICAL CONDITION CALCULATION

INITIAL CONDITIONS:

- On 3/1/2012 0900, Unit 1 tripped with the following conditions prior to shutdown:
    - 100% power for 90 hours.
    - Boron concentration was 1334.
    - Tave was 560 °F.
    - Control Rods Bank D was at 218 steps.
    - Core Exposure is 150 MWD/MTU.
    - A Nuclear Engineer performed an ECC utilizing a hand calculation.
- Unit 1 is in Cycle 27 and the next startup is number 171.
- It is desired to be critical on 3/6/2012 at 0900 with Bank D @ 140 steps.
- The RCS was NOT borated down to Mode 5.

INITIATING CUES:

- Review Fig C1A-1, Estimated Critical Boron Concentration, for accuracy.
- When you find an error, report it to the evaluator.

JPM PERFORMANCE INFORMATION

Required Materials:

- **Completed Fig C1A-1, Estimated Critical Boron Concentration, with errors.**
- **General References listed below available to candidate.**
- **Calculator.**

General References:

- **C1A, Reactivity Calculations**
- **Fig C1-4A, Differential and Integral Rod Bank Worths – Unit 1.**
- **Fig C1-6A, Xenon Behavior Following Reactor Trip from 100% Power – Unit 1.**
- **Fig C1-7A, Total Power Defect VS Percent Power – Unit 1.**
- **Fig C1-8, Insertion Limits with 100 Step Overlap – Units 1 and 2.**
- **Fig C1-11A, Differential Boron Worth VS Exposure – Unit 1.**
- **Fig C1-12A, Isothermal Temperature Coefficients Hot Zero Power – Unit 1.**

Task Standards: **Candidate identifies errors with ECC calculation.**

Start Time: _____

Performance Step: FIG C1A-1
Critical Y____

Expected Critical Data:
Critical Boron Concentration

Standard: Candidate identifies discrepancy and informs the evaluator.
Evaluator Note: The critical boron concentration should be 1891 ppm instead of 1515 ppm.

The error occurred on step 2.6, Xenon Concentration. A value of +49 pcm was used instead of – 2450 pcm. This error is carried forward on steps 3.3, 3.5, 6.1, 6.2, and 6.3.

Performance:
SATISFACTORY ☐ UNSATISFACTORY ☐

Comments:

Performance Step: FIG C1A-1
Critical Y

Expected Critical Data:
Minimum Control Rod Position

Standard: Candidate identifies discrepancy and informs the evaluator.

Evaluator Note: The minimum control rod position should be Bank D @ 29 steps instead of Bank D @ 130 steps.

This error was a result of a math error in step 7.2. A value of 401 pcm was used instead of 1099 pcm for Maximum Rod Insertion Defect.

Performance:
SATISFACTORY ☐ UNSATISFACTORY ☐

Comments:

Terminating Cues: When the candidate identifies the errors with the ECC Calculation, then the JPM is complete.

Stop Time:

SITE: **PRAIRIE ISLAND**

JPM TITLE: **APPROVE A CLEARANCE ORDER**

JPM NUMBER: **ADMIN c RO/SRO** **REV. 0**

RELATED PRA INFORMATION: **NONE**

TASK NUMBERS/: TASK TITLE **APPROVE A CLEARANCE ORDER**

K/A NUMBERS: **2.2.13 (4.1/4.3)**

APPLICABLE METHOD OF TESTING:

Discussion: ☐ Simulate/walkthrough: ☐ Perform: ☒

EVALUATION LOCATION: In-Plant: ☐ Control Room: ☐

Simulator: ☐ Other: ☒

Lab: ☐

Time for Completion: **15** Minutes Time Critical: **NO**

Alternate Path: **NO**

TASK APPLICABILITY: SRO: ☒ RO: ☒

INITIAL CONDITIONS:

- 11 Cooling Water pump is OOS.
- Maintenance has requested an isolation of 11 Cooling Water Pump to repair the motor.
- The PASSPORT tagging system is OOS.
- The clearance order has been prepared using QF-1109, Paper Based Tagging Form, and is ready for approval.

INITIATING CUES:

- The Shift Supervisor has directed you to verify the clearance order per FP-OP-TAG-01 Step 5.4.2.3.
- Report any discrepancies to the Shift Supervisor.

JPM PERFORMANCE INFORMATION

Required Materials: **QF-1109(marked up), NF-39216-1, NF-40002-3, NF-40315-1, and FP-OP-TAG-01.**

General References: **FP-OP-TAG-01 and FG-OP-TAG-01**

Task Standards: **Determines CW-9-1 should be CL-39-1 and BKR 13-10 should be BKR 13-8.**

Start Time: _____

Performance Step: FP-OP-TAG-01
Critical Y

Section 5.4 Approving a Clearance Order/Clearance Order Checklist
Refer to Attachment 1, Clearance Order Development

Standard: Determine CW-9-1 should be CL-39-1.

Performance:

SATISFACTORY ☐ UNSATISFACTORY ☐

Comments:

Performance Step: FP-OP-TAG-01
Critical Y

Section 5.4 Approving a Clearance Order/Clearance Order Checklist
Refer to Attachment 1, Clearance Order Development

Standard: Determine BKR 13-10 should be BKR 13-8.

Performance:

SATISFACTORY ☐ UNSATISFACTORY ☐

Comments:

Terminating Cues: When the candidate reports the two errors in the clearance order, this JPM is complete.

Stop Time:

Xcel Energy	Paper Based Tagging Form

WORK AGAINST/PURPOSE OF TAGGING: Isolate 11 Cooling Water Pump to repair the motor

CLEARANCE ORDER # XYZ1234-1

CLEARANCE ORDER TYPE: WO (Work Order) ☒ CC (Configuration Control) ☐

WORK ORDER NUMBER (S): XYZ1234

PREPARED BY: Jerry Smith

NOTES:

Isolation of liquid side is to prevent auto rotation in addition to breaker.

HAZARDS:

Rotation of pump/motor shaft could entangle personnel

Oil spill may affect environment.

STORED ENERGY RELEASED VERIFIED BY:

*The steps of the Clearance Order are the steps (that are hanging) of the checklist (s)

QF-1109 Rev 1 (FP-OP-TAG-01)

Xcel Energy	**Paper Based Tagging Form**

WORK AGAINST/PURPOSE OF TAGGING:
_Isolate 11 Cooling Water Pump to repair the motor_____
CLEARANCE ORDER #: _____XYZ1234-1_____

WORK ORDER NUMBER (S): _____XYZ1234_____

HOLDER SIGN ON/OFF (use additional sheets as needed)

Page _1_ of _1__

Holder Name	Sign On	Date/Time	Sign Off	Date/Time

ADMIN-c RO/SRO, APPROVE A CLEARANCE ORDER

QF-1109 Rev 1 (FP-OP-TAG-01)

Xcel Energy	**Paper Based Tagging Form**

WORK AGAINST/PURPOSE OF TAGGING ___Isolate 11 Cooling Water Pump to repair the motor_____

CLEARANCE ORDER CHECKLIST # _____XYZ1234-1_____

CLEARANCE TYPE: PC (PERFORM CHECKLIST) ☒ FC (FINAL CLEAR) ☐

PREPARED BY: _____Jerry Smith_____ OPS APPROVED BY: _____

HOLDER APPROVED BY: _____ DISTRIBUTED BY: _____

STEP NO.	TAG NO.	TAG TYPE	ACTION	COMPONENT ID	COMPONENT DESCRIPTION	REQUIRED POSITION	STEP COMPLETED BY	STEP VERIFIED BY
1	01	Caution Tag (Small)	Pull Out	CS-46051	11 CLG WTR PUMP	PULL OUT		
2	02	Danger Tag	Rack Out	BKR 13-10	11 CLG WTR PMP	DISCONNECT		
3	03	Danger Tag	CLOSE	CW-9-1	11 CLG WTR PMP DISCH	CLOSE		
4	04	Danger Tag	CLOSE	CL-33-1	11 CLG WTR PMP SUCT	CLOSE		
5	05	Danger Tag	CLOSE	CL-94-10	11 CLG WTR PUMP PRIMING TRAP INLET	CLOSE		
6	06	Danger Tag	CLOSE	CH-17-1	HYPOCHL INJECTION TO 11 CLG WTR PMP	CLOSE		

ADMIN d. VERIFICATION OF RADIATION WORK PERMIT LIMITS

SITE: **PRAIRIE ISLAND**

JPM TITLE: **VERIFICATION OF RADIATION WORK PERMIT LIMITS**

JPM NUMBER: **ADMIN-d RO/SRO** **REV. 0**

RELATED PRA INFORMATION: NONE

TASK NUMBERS / TASK TITLE(S): CRO 119 010 03 01 000 / APPLY RADIATION AND CONTAMINATION SAFETY PROCEDURES

K/A NUMBERS: **2.3.7 (3.5/3.6)**

APPLICABLE METHOD OF TESTING:

Discussion: ☐ Simulate/walkthrough: ☒ Perform: ☐

EVALUATION LOCATION: In-Plant: ☐ Control Room: ☐

Simulator: ☐ Other: ☒

Lab:

Time for Completion: **5** Minutes Time Critical: **NO**

Alternate Path: **NO**

TASK APPLICABILITY: SRO: ☒ RO: ☒

INITIAL CONDITIONS:

- You will be performing testing on 21 Containment Spray Pump.
- The job requires you to be in the area EAST of the 21 CS Pump for 90 minutes.
- Your current year to date exposure is 1990 mrem.
- You are directed to use RWP 1034 for the job.
- A Survey Record of the Unit 2 Containment Spray Pump Room is provided.

INITIATING CUES:

- Determine if any dose limits will be exceeded prior to performing this task.
- Report your findings to the evaluator.

ADMIN d. VERIFICATION OF RADIATION WORK PERMIT LIMITS

JPM PERFORMANCE INFORMATION

Required Materials:

- **TE-0236 Radiation Work Permit, RWP Number 1034 00.**
- **Unit 2 Containment Spray Pump Room Supplemental Survey Record RP-111a.**
- **RCA Trip Ticket.**

Task Standards:

Determine that the RWP Dose limit and the workers Yearly Administrative Dose limit will be exceeded.

Start Time: _____

ADMIN d. VERIFICATION OF RADIATION WORK PERMIT LIMITS

Performance Step: F2, RADIATION SAFETY
Critical Y Section 3.5 Radiation Work Permit
3.5.2 Instructions and requirements in RWP's SHALL be followed by all personnel.
3.5.4 All personnel SHALL be aware of the requirements of the RWP covering their activity and be familiar with the radiological conditions for the area.

Candidate will determine the following:

- RWP dose limit is 10 mrem.
- Area east of the 21 CS Pump has dose rate of 10- 12 mrem/hr.
- Expected stay time is 90 minutes.
- Expected dose for the job is 15 - 18 mrem.

Standard: Candidate determines the RWP dose alarm of 10 mrem will be exceeded.
Evaluator Cue: If candidate indicates he would complete a RCA Trip Ticket for the job, PROVIDE the candidate the attached RCA Trip ticket copy.

If candidate asks for WO# for RCA Trip Ticket;
INFORM the candidate the WO# is 392277.

If candidate reports the RWP 10 mrem dose alarm will be exceeded;
INFORM the candidate RWP 1037 will be used with a dose limit of 51 mrem.

INFORM the candidate to re-evaluate the information and determine if any dose limits will be exceeded.

Performance:
SATISFACTORY ☐ UNSATISFACTORY ☐

Comments:

ADMIN d. VERIFICATION OF RADIATION WORK PERMIT LIMITS

Performance Step: Candidate will determine the following:
Critical Y

- The Prairie Island yearly administrative dose limit is 2000 mrem.
- Your current year to date exposure is 1990 mrem.
- Expected dose for the job is 15 - 18 mrem.

Standard: Candidate determines the expected dose of 15 - 18 mrem will cause the 2000 mrem yearly limit to be exceeded.

Evaluator Cue: If candidate reports the yearly administrative dose limit will be exceeded; INFORM the candidate their yearly administrative dose limit has been raised to 2041 mrem.

INFORM the candidate to re-evaluate the information and determine if any dose limits will be exceeded.

Performance:
SATISFACTORY ☐ UNSATISFACTORY ☐

Comments:

Terminating Cues: Candidate has determined the RWP Dose limit and the workers Yearly Administrative Dose limit will be exceeded and reports findings to evaluator.

Stop Time:

ADMIN-JPM e. SRO, EMERGENCY CLASSIFICATION OF A PLANT EVENT

SITE: **PRAIRIE ISLAND**

JPM TITLE: **EMERGENCY CLASSIFICATION OF A PLANT EVENT**

JPM NUMBER: **ADMIN-JPM e SRO**

RELATED PRA INFORMATION: **NONE**
PRA Identified Task

TASK TITLE(S): **DIRECT EMERGENCY RESPONSE FOR THE EMERGENCY DIRECTOR**

K/A NUMBERS: **2.4.41**

APPLICABLE METHOD OF TESTING:

Discussion: Simulate/walkthrough: Perform: **X**

EVALUATION LOCATION: In-Plant: ☐ Control Room: ☐

Simulator: ☐ Other: ☒

Lab: ☐

Time for Completion: **15** Minutes Time Critical: **YES**

Alternate Path: **NO**

TASK APPLICABILITY: SRO: ☒ RO:☐

INITIAL CONDITIONS:

- You are the Shift Manager.
- Unit 1 AND Unit 2 are both at 100% power.
- A toxic gas becomes evident in the Turbine Building AND in the Control Room.
- 25 minutes ago, a Control Room evacuation was initiated per 1C1.3 AOP1, Shutdown From Outside The Control Room – Unit 1.
- 17 minutes ago, an ALERT was declared per EAL HA 5.1.

INITIATING CUES:

- The Auxiliary Building APEO reports that he CANNOT perform Step 2.4.30.F to borate the RCS because MV-32086, Emergency Boration Valve, can NOT be operated with the handswitch OR with the manual handwheel.
- Determine any applicable Emergency Classification per F3-2, AND deliver the completed PINGP 577 to the SEC for communication.
- This JPM is time critical.

NOTE: RECORD THE START TIME ON THE NEXT PAGE AS THE TIME WHEN THE EXAMINEE TELLS YOU THEY ARE READY TO BEGIN. AT THE BOTTOM OF STEP 1, RECORD THE TIME OF DECLARATION AND CALCULATE ELAPSED TIME FROM BEGINNING OF THE JPM. TO BE SATISFACTORY, THE ELAPSED TIME MUST BE LESS THAN 15 MINUTES.

JPM PERFORMANCE INFORMATION

Required Materials:
F3-2, Classifications of Emergencies
Consumable Gum Labels
Consumable PINGP 577, Emergency Notification Report Form
COMPLETED PINGP 577 for ALERT, HA 5.1 (Wind Speed 2 mph, Wind direction 258°)
1C1.3 AOP1, marked up through Step 2.4.30E. Fill out Step 2.4.30 as follows:

A. Present RCS Boron: 291 ppm
Required Boron: 810 ppm
Change in Boron: 519 ppm
B. 519 ppm X 1.75 = 908 gal
C. 908 gal/12 gpm = 76 min.

General References:
F3-2, Classifications of Emergencies
PINGP 577, Emergency Notification Report Form
Classification Wall Chart

Task Standards:
Classify this event as a Site Area Emergency (EAL HS2.1) within 15 minutes. Provide completed PINGP 577 to the SEC for communication within 15 minutes.

Start Time: _____

Performance Step: Fills out PINGP 577 as follows:
Critical: Y

Circle [B] Emergency Class Change
Circle [B] Drill/Exercise
[C] Prairie Island Nuclear Generating Plant is PRE-CIRCLED.
Circle [C] Site Area Emergency
Circle [A] then Complete the date, time, and EAL HS2.1
Circle [A] None
Circle [A] Not Applicable
Complete from 258 degrees.
Complete Downwind Sectors CIRCLE ALL LETTERS

Complete miles/hr: 2
Complete Stability Class: F
Circle [A] NONE

Write description or use sticker.

Complete approval signature.

Standard:
Form is properly completed as indicated above. Critical steps are indicated with italics.

Evaluator Note:
The time critical portion of this JPM begins when the examinee reviews the turnover information and tells the examiner that he is ready to begin.

Evaluator Note: **Time of declaration shall be within 15 minutes of JPM start time for satisfactory completion of this step.**

Evaluator Cue: **When examinee requests Met Data, provide the following:**

Wind Direction is 258°
Wind Speed is 2 miles/hr
Stability Class is F
Downwind Sectors ALL

Performance: **SATISFACTORY ☐ UNSATISFACTORY ☐**

Comments: _____

PINGP 577 BLOCK 5 _____
TOTAL TIME FOR THIS STEP (PINGP 577 BLOCK 5 – START TIME) _____

Performance Step: **Deliver the completed PINGP 577 to the SEC for communication.**
Critical Y

Standard: **PINGP 577 given to SEC with orders to perform notifications.**

Evaluator Note: **The examinee shall provide completed PINGP 577 to the SEC within 15 minutes of the time in PINGP 577 BLOCK 5 for satisfactory completion of this step.**

Evaluator Cue: **As SEC: Accept PINGP 577 and acknowledge order to make notifications.**

Performance: **SATISFACTORY ☐ UNSATISFACTORY ☐**

Comments:

TIME WHEN THIS STEP IS COMPLETE_____

TOTAL TIME FOR THIS STEP (STOP TIME - PINGP 577 BLOCK 5) _____

Terminating Cues: **When the event is classified and the form is given to the SEC for communication, then this JPM is complete.**

Stop Time: _____