

	JOB PERFORMANCE MEASURE (JPM)
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SITE: PRAIRIE ISLAND

JPM TITLE: DETERMINE SG LEAKAGE CORRELATION TO R-15 COUNTS

JPM NUMBER: ADMIN-29 **REV.** 6

RELATED PRA INFORMATION: NONE

TASK NUMBERS / TASK TITLE(S): CRO 002 ATI 00 00 011, RESPONSE TO SG TUBE LEAK

K/A NUMBERS: 035 A4.08 (4.1/4.4)

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: ☒ NLO ☐

Additional site-specific signatures may be added as desired.

Developed by:	Fredrick Collins	
	Developer	Date
Validated by:	Justin Hasner	
	Validator (See JPM Validation Checklist, Attachment 1)	Date
Approved by:	Shawn Sarrasin	
	Training Supervisor	Date

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-29, DETERMINE SG LEAKAGE CORRELATION TO R-15 COUNTS, REV. 6**JPM BRIEFING/TURNOVER**

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.**INITIAL CONDITIONS:**

- Unit 1 is at 100% power.
- ERCS is unavailable.
- 1C4 AOP2 has been implemented in response to indications of SG Tube Leakage.
- Table 1 is being performed for periodic data entry due to ERCS being OOS.
- 1R-15 is currently reading 4200 CPM with steady air ejector flow.

INITIATING CUES:

- Update Table 1 of 1C4 AOP2 for the 1045 entry based on current 1R-15 count rates.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-29, DETERMINE SG LEAKAGE CORRELATION TO R-15 COUNTS, REV. 6

JPM PERFORMANCE INFORMATION

Required Materials: Copy of 1C4 AOP2 Table 1 filled out from 1000 to 1045 per Att. 2 KEY (blue ink only) or copy of Att. 5.

General References: 1C4 AOP2, STEAM GENERATOR TUBE LEAK

Task Standards: Examinee records 1R-15 counts in 1C4 AOP2, Table 1 and performs Section B calculations to determine current Leak Rate and Rate of Change.

Start Time: _____

NOTE: When providing “Evaluator Cues” to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee’s actions warrant receiving the information (i.e., the examinee looks or asks for the indication).

IMPORTANT: Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM, per FP-T-SAT-73, Licensed Operator Requalification Program Examinations.

Performance Step:	1C4 AOP2, Table 1, step B.1:
Critical <u>N</u>	<p><u>IF</u> ERCS is out of service <u>OR</u> completing the table for periodic data entry, <u>THEN</u> perform the following:</p> <ol style="list-style-type: none"> 1. Enter the current date and time in the date/Time column, the current 1R-15 counts in column A, and the air ejector flow in Column H.
Standard:	<p>Section B of Table 1 completed as follows:</p> <ul style="list-style-type: none"> • Current date and time entered in the Date/Time Column, current 1R-15 counts (2500) recorded in Column A, and current air ejector flow (3.1) recorded in Column H.
Evaluator Note:	<p>1R-15 indication is located in the back of the control room; if referenced it is at 2500 cpm.</p> <p>Air ejector flow is indicated on Panel E indicator 41230, “CDRS AIR LEAKAGE FLOW”.</p>
Evaluator Cue:	<p>If examinee requests Chemist to perform another leak rate determination based on sample, then inform examinee that sample results will take 1 hour to complete.</p>
Performance:	<p>SATISFACTORY _____ UNSATISFACTORY _____</p>
Comments:	<p>_____</p>

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-29, DETERMINE SG LEAKAGE CORRELATION TO R-15 COUNTS, REV. 6

Performance Step: Critical <u>Y</u>	1C4 AOP2, Table 1, step B.2: Determine the current leak rate by dividing the 1R-15 counts (Column A) by the most recent conversion factor (Column C) and enter in Column F. (Column A ÷ Column C = Column F).
Standard:	Current leak rate determined to be 78 – 84 GPD and recorded in Column F.
Evaluator Note:	1R-15 indication is located in the back of the control room; if referenced it is at 2500 cpm. Air ejector flow is indicated on Panel E indicator 41230, "CDRS AIR LEAKAGE FLOW".
Evaluator Cue:	If examinee requests Chemist to perform another leak rate determination based on sample, then inform examinee that sample results will take 1 hour to complete.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u>	1C4 AOP2, Table 1, step B.3: Determine the rate of change (ROC) by dividing the change in leak rate (change in Column F) by the change in time (change in Date/Time column in hours) for the most recent entries and enter in Column G. (Δ Column F ÷ Δ Hours = Column G).
Standard:	Rate of change determined to be 79 – 85 GPD/HR by dividing the change in leak rate (change in Column F) by change in time (change in Date/Time Column in hours) for the two most recent entries and recorded in Column G.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Terminating Cues: When Column F Leak Rate and Column G ROC are recorded in 1C4 AOP2, Table 1 per steps B.1 – B.3, then this JPM is complete.

Stop Time: _____

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-29, DETERMINE SG LEAKAGE CORRELATION TO R-15 COUNTS, REV. 6

ATTACHMENT 1

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the cover page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Have all special tools and equipment needed to perform the task been identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. Are all references identified, current, and accurate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

All applicable questions must be answered "YES" or the JPM is not valid for use. If all applicable questions are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation sign and date this form.

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

Table 1 SG Leakage Correlation to R-15 Counts (cont'd)

- [illegible]

ADMIN-29, DETERMINE SG LEAKAGE CORRELATION TO R-15 COUNTS, REV. 6

ATTACHMENT 3

JPM Number: ADMIN-29JPM Title: DETERMINE SG LEAKAGE CORRELATION TO R-15 COUNTS

Examinee & ID: _____

Evaluator: _____

Job Title: _____

Date: _____

Start Time _____

Finish Time _____

PERFORMANCE RESULTS:

SAT: UNSAT: **COMMENTS/FEEDBACK: (Make written comments for any steps graded unsatisfactory).****EVALUATOR'S SIGNATURE:** _____

NOTE: Only this page needs to be retained in examinee's record if completed satisfactorily. If unsatisfactory performance is demonstrated, the entire JPM should be retained.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ATTACHMENT 4

TURNOVER SHEET

INITIAL CONDITIONS:

- Unit 1 is at 100% power.
- ERCS is unavailable.
- 1C4 AOP2 has been implemented in response to indications of SG Tube Leakage.
- Table 1 is being performed for periodic data entry due to ERCS being OOS.
- 1R-15 is currently reading 4200 CPM with steady air ejector flow.

INITIATING CUES:

- Update Table 1 of 1C4 AOP2 for the 1045 entry based on current 1R-15 count rates.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ATTACHMENT 5

PRAIRIE ISLAND NUCLEAR GENERATING PLANT		ABNORMAL OPERATING PROCEDURE	
C	STEAM GENERATOR TUBE LEAK	NUMBER:	1C4 AOP2
		REV:	24
		Page 16 of 19	

Table 1 SG Leakage Correlation to R-15 Counts (cont'd)

- B. IF ERCS is out of service OR completing the table for periodic data entry, THEN **perform** the following:
1. **Enter** the current date and time in the Date/Time column, the current 1R-15 counts in Column A, and the air ejector flow in Column H.
 2. **Determine** the current leak rate by dividing the 1R-15 counts (Column A) by the most recent conversion factor (Column C) and **enter** in Column F.
(Column A \div Column C = Column F)
 3. **Determine** the rate of change (ROC) by dividing the change in leak rate (change in Column F) by the change in time (change in Date/Time column in hours) for the two most recent entries and **enter** in Column G.
(Δ Column F \div Δ Hours = Column G)

[illegible]

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

	JOB PERFORMANCE MEASURE (JPM)
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SITE: PRAIRIE ISLAND

JPM TITLE: RCS / STEAM GENERATOR TEMPERATURE VERIFICATION

JPM NUMBER: ADMIN-48 **REV.** 4

RELATED PRA INFORMATION: NONE

TASK NUMBERS / TASK TITLE(S): CRO 002 011 01 000 / HEATUP THE REACTOR COOLANT SYSTEM

K/A NUMBERS: 002 K5.11 (4.0/4.2)

APPLICABLE METHOD OF TESTING:

Discussion: ☐ Simulate/walkthrough: ☐ Perform: ☒

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

Simulator: ☐ Other: ☒

Lab: ☐

Time for Completion: 8 Minutes Time Critical: NO

Alternate Path: NO

TASK APPLICABILITY: SRO: ☒ RO: ☒ NLO ☐

Additional site-specific signatures may be added as desired.

Developed by:	Fredrick Collins	
	Developer	Date
Validated by:	Justin Hasner	
	Validator (See JPM Validation Checklist, Attachment 1)	Date
Approved by:	Shawn Sarrasin	
	Training Supervisor	Date

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-48, RCS / STEAM GENERATOR TEMPERATURE VERIFICATION, REV 4**JPM BRIEFING/TURNOVER**

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.**INITIAL CONDITIONS:**

- Unit 1 is in MODE 6.
- Preparations are being made to start the FIRST Reactor Coolant Pump.
- An Out Plant Operator reports SG Skin Temperatures are as follows:
 - 12413, 11 SG SKIN TI = 142°F
 - 12414, 12 SG SKIN TI = 147°F

INITIATING CUES:

- The SS directs you to complete step 5.6.3 of 1C1.2-M5, UNIT 1 STARTUP TO MODE 5, and determine whether or not an RCP can be started.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-48, RCS / STEAM GENERATOR TEMPERATURE VERIFICATION, REV 4

JPM PERFORMANCE INFORMATION

Required Materials: Consumable copy of 1C1.2-M5, step 5.6.3 (pages 31-32).

General References: 1C1.2-M5, UNIT 1 STARTUP TO MODE 5, REV 12

Task Standards: Examinee determines the SG to RCS ΔT is 22°F and the limiting SG to RCS ΔT of 15°F has been exceeded.

Start Time: _____

NOTE: When providing “Evaluator Cues” to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee’s actions warrant receiving the information (i.e., the examinee looks or asks for the indication).

IMPORTANT: Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM, per FP-T-SAT-73, Licensed Operator Requalification Program Examinations.

Performance Step: 1C1.2-M5, step 5.6.3:

Critical N

Verify the secondary water temperature of each SG is less than 15°F warmer than the RCS cold leg temperatures before starting an RCP as follows:

A. Record SG skin temperatures at the SG skin pyrometer locations:

- 12413, 11 SG SKIN TI
- 12414, 12 SG SKIN TI

Standard: Examinee records 11 and 12 SG Skin Temperatures.

Performance: SATISFACTORY _____ UNSATISFACTORY _____

Comments: _____

ADMIN-48, RCS / STEAM GENERATOR TEMPERATURE VERIFICATION, REV 4

Performance Step:	1C1.2-M5, step 5.6.3:
Critical <u>N</u>	<p>Verify the secondary water temperature of each SG is less than 15°F warmer than the RCS cold leg temperatures before starting a RCP as follows:</p> <p>B. Record RCS cold leg temperatures:</p> <ul style="list-style-type: none"> • 1T0406A, RCS A TCOLD 450B • 1T0426A, RCS B TCOLD 451B
Standard:	Examinee obtains and records RCS A and B cold leg temperatures.
Evaluator Cue:	<p>When examinee has demonstrated the ability to locate RCS cold leg temps, then provide the examinee with the following:</p> <ul style="list-style-type: none"> • 1T0406A, RCS A TCOLD 450B = 125°F • 1T0426A, RCS B TCOLD 451B = 126°F
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step:	1C1.2-M5, step 5.6.3.C:
Critical <u>Y</u>	<p>Determine the limiting SG to RCS temperature difference by subtracting the lowest RCS cold leg temperature from the highest SG skin temperature:</p> $\frac{\text{Highest SG Skin T}}{\text{°F}} - \frac{\text{Lowest RCS cold leg T}}{\text{°F}} = \frac{\Delta T}{\text{°F}}$
Standard:	Examinee determines the SG to RCS temperature difference is 22°F.
Evaluator Note:	Calculation: 147°F – 125°F = 22°F
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-48, RCS / STEAM GENERATOR TEMPERATURE VERIFICATION, REV 4

Performance Step:	1C1.2-M5, step 5.6.3.D:
Critical <u>Y</u>	Verify the limiting SG to RCS temperature difference is less than 15°F.
Standard:	Examinee determines the limiting SG to RCS ΔT is GREATER than 15°F and step D is NOT met.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Terminating Cues: When examinee determines the SG to RCS ΔT is 22°F and the limiting ΔT of 15°F has been exceeded, then this JPM is complete.

Stop Time: _____

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-48, RCS / STEAM GENERATOR TEMPERATURE VERIFICATION, REV 4

ATTACHMENT 1

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the cover page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Have all special tools and equipment needed to perform the task been identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. Are all references identified, current, and accurate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

All applicable questions must be answered "YES" or the JPM is not valid for use. If all applicable questions are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation sign and date this form.

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-48, RCS / STEAM GENERATOR TEMPERATURE VERIFICATION, REV 4

ATTACHMENT 2

JPM Number: ADMIN-48JPM Title: STEAM GENERATOR TEMPERATURE VERIFICATION

Examinee & ID: _____

Evaluator: _____

Job Title: _____

Date: _____

Start Time _____

Finish Time _____

PERFORMANCE RESULTS:

SAT: UNSAT: **COMMENTS/FEEDBACK: (Make written comments for any steps graded unsatisfactory).****EVALUATOR'S SIGNATURE:** _____

NOTE: Only this page needs to be retained in examinee's record if completed satisfactorily. If unsatisfactory performance is demonstrated, the entire JPM should be retained.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ATTACHMENT 3

TURNOVER SHEET

INITIAL CONDITIONS:

- Unit 1 is in MODE 6.
- Preparations are being made to start the FIRST Reactor Coolant Pump.
- An Out Plant Operator reports SG Skin Temperatures are as follows:
 - 12413, 11 SG SKIN TI = 142°F
 - 12414, 12 SG SKIN TI = 147°F

INITIATING CUES:

- The SS directs you to complete step 5.6.3 of 1C1.2-M5, UNIT 1 STARTUP TO MODE 5, and determine whether or not an RCP can be started.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

	JOB PERFORMANCE MEASURE (JPM)
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SITE: PRAIRIE ISLAND
JPM TITLE: DETERMINE RECOMMENDED TURBINE STARTUP AND LOAD TIME
JPM NUMBER: ADMIN-78 **REV.** 1
RELATED PRA INFORMATION: NONE
TASK NUMBERS / TASK TITLE(S): CRO 048 012 01 04 000 / ADJUST TURBINE LOAD RATES
K/A NUMBERS: 2.1.25 (3.9/4.2)

APPLICABLE METHOD OF TESTING:

Discussion: ☐ Simulate/walkthrough: ☐ Perform: ☒

EVALUATION LOCATION: In-Plant: ☐ Control Room: ☐
 Simulator: ☐ Other: ☒
 Lab: ☐

Time for Completion: 13 Minutes Time Critical: NO

Alternate Path: NO

TASK APPLICABILITY: SRO: ☒ RO: ☒ NLO ☐

Additional site-specific signatures may be added as desired.

Developed by:	Fredrick Collins	
	Developer	Date
Validated by:	Justin Hasner	
	Validator (See JPM Validation Checklist, Attachment 1)	Date
Approved by:	Shawn Sarrasin	
	Training Supervisor	Date

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-78, DETERMINE RECOMMENDED TURBINE STARTUP AND LOAD TIME, REV. 1**JPM BRIEFING/TURNOVER**

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.

INITIAL CONDITIONS:

- A plant startup is in progress.
- Preparations are in progress to roll the turbine off the turning gear IAW 1C1.2-M1, Unit 1 Startup to Mode 1.

INITIATING CUES:

- The Shift Supervisor directs you to determine the following IAW 1C1.2-M1, section 5.3.35, step A:
 - Turbine acceleration rate
 - Maximum recommended loading rate

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-78, DETERMINE RECOMMENDED TURBINE STARTUP AND LOAD TIME, REV. 1

JPM PERFORMANCE INFORMATION

Required Materials: Calculator
 Picture of DEHC screen showing ERCS points 14019, 14020 and 14088.
 Consumable copy of 1C1.2-M1 and Fig. C1-2A.

General References: 1C1.2-M1, Unit 1 Startup to Mode 1,
 Figure C1-2A, Recommended Startup and Loading Times

Task Standards: Examinee determines the correct turbine acceleration times and maximum recommended loading rate calculated per 1C1.2-M1 Att. 1.

Start Time: _____

NOTE: When providing “Evaluator Cues” to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee’s actions warrant receiving the information (i.e., the examinee looks or asks for the indication).

IMPORTANT: Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM, per FP-T-SAT-73, Licensed Operator Requalification Program Examinations.

Performance Step:	1C1.2-M1, section 5.3.35:		
Critical <u>N</u>	Determine the turbine acceleration rate as follows:		
	A. Using “Turbine Temperatures” screen, determine the following:		
	1. LP 1 ST Stage metal temperatures:		
	14019 _____ °F	for LP1	
	14020 _____ °F	for LP2	
	2. HP impulse chamber metal temperature:		
	14088 _____ °F	for Imp Chamber	
Standard:	Examinee determines 14019 is 55.4°F, 14020 is 56.5°F and 14088 is 190.4 °F.		
Evaluator Cue	Provide picture when examinee asks for DEHC temperature points.		
Performance:	SATISFACTORY _____	UNSATISFACTORY _____	
Comments:	_____		

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-78, DETERMINE RECOMMENDED TURBINE STARTUP AND LOAD TIME, REV. 1

Performance Step:	1C1.2-M1, section 5.3.35:
Critical <u>N</u>	
	B. Complete Attachment 1, Turbine Loading Calculation.
Standard:	Examinee transitions to 1C1.2 Attachment 1.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step:	1C1.2-M1, Attachment 1, step 1:
Critical <u>N</u>	
	1. Record HP Turbine First Stage Metal Temperature from 1C1.2-M1 Step 5.3.35.A.2
	HP Turbine First Stage Metal Temperature _____ °F
Standard:	Examinee records temperature for 14088 Imp Chamber.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step:	1C1.2-M1, Attachment 1, step 2:
Critical <u>Y</u>	
	2. Determine the time to accelerate to synch from Figure C1-2A:
	Time = _____ minutes
Standard:	Examinee determines the time to be 10-15 minutes.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-78, DETERMINE RECOMMENDED TURBINE STARTUP AND LOAD TIME, REV. 1

Performance Step:	1C1.2, Attachment 1, step 3:
Critical <u>Y</u>	
	3. Calculate the maximum recommended acceleration rate:
	1800 rpm/ _____ minutes = _____ rpm/min
Standard:	Examinee calculates an acceleration rate of 120-180 rpm/min.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step:	1C1.2, Attachment 1, step 4:
Critical <u>Y</u>	
	4. Determine the recommended time to hold at approximately 15% reactor power from figure C1-2A:
	Hold for _____ minutes
Standard:	Examinee determines a time of 25-35 minutes.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step:	1C1.2, Attachment 1, step 5:
Critical <u>Y</u>	
	5. Determine the time to raise load to 100% from Figure C1-2A:
	Load increase in _____ minutes
Standard:	Examinee determines a time of 85-95 minutes.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-78, DETERMINE RECOMMENDED TURBINE STARTUP AND LOAD TIME, REV. 1

Performance Step:	1C1.2, Attachment 1, step 6:
Critical <u>Y</u>	
	6. Determine the maximum recommended loading rate:
	85%/ _____ minutes = _____ %/min
Standard:	Examinee determines a load rate of 0.85 to 1.0 %/minute.
Evaluator Note:	Examinee may choose DEHC load rates of 0.25%, 0.5% or 1% as the max loading rate since those are the two options that don't exceed the calculated limit, depending on how the final calculation ends up.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Terminating Cues: When the examinee determines the correct turbine acceleration times and maximum recommended loading rate calculated per 1C1.2-M1 Att. 1, then this JPM is complete.

Stop Time: _____

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-78, DETERMINE RECOMMENDED TURBINE STARTUP AND LOAD TIME, REV. 1**ATTACHMENT 1****JOB PERFORMANCE MEASURE VALIDATION CHECKLIST**

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the cover page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Have all special tools and equipment needed to perform the task been identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. Are all references identified, current, and accurate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

All applicable questions must be answered "YES" or the JPM is not valid for use. If all applicable questions are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation sign and date this form.

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-78, DETERMINE RECOMMENDED TURBINE STARTUP AND LOAD TIME, REV. 1

ATTACHMENT 2

JPM Number: ADMIN-78JPM Title: DETERMINE RECOMMENDED TURBINE STARTUP AND LOAD TIME

Examinee & ID: _____

Evaluator: _____

Job Title: _____

Date: _____

Start Time _____

Finish Time _____

PERFORMANCE RESULTS:

SAT: UNSAT: **COMMENTS/FEEDBACK: (Make written comments for any steps graded unsatisfactory).**

EVALUATOR'S SIGNATURE: _____

NOTE: Only this page needs to be retained in examinee's record if completed satisfactorily. If unsatisfactory performance is demonstrated, the entire JPM should be retained.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ATTACHMENT 3

TURNOVER SHEET

INITIAL CONDITIONS:

- A plant startup is in progress.
- Preparations are in progress to roll the turbine off the turning gear IAW 1C1.2-M1, Unit 1 Startup to Mode 1.

INITIATING CUES:

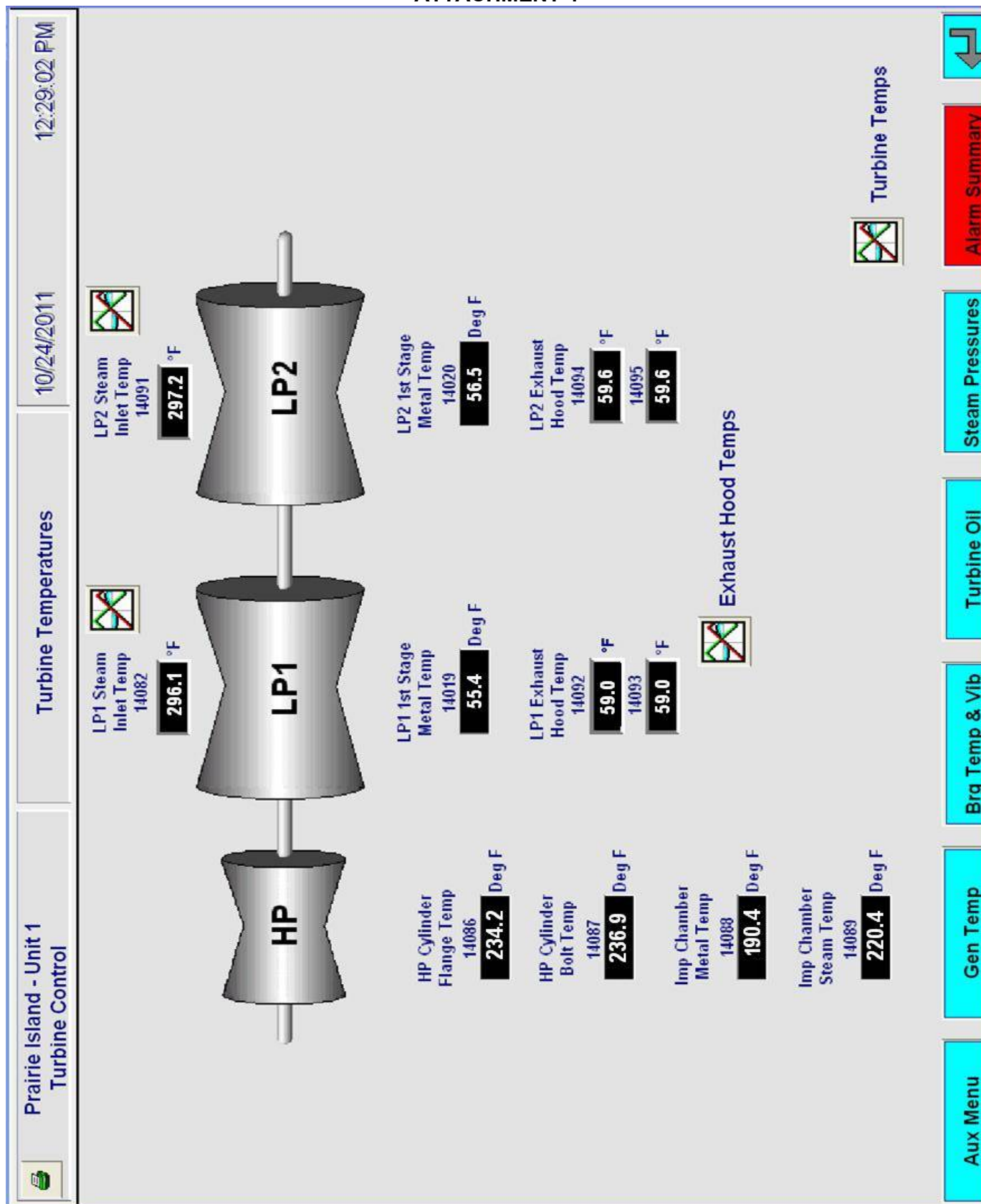
- The Shift Supervisor directs you to determine the following IAW 1C1.2-M1, section 5.3.35, step A:
 - Turbine acceleration rate
 - Maximum recommended loading rate

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ATTACHMENT 4



Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

	JOB PERFORMANCE MEASURE (JPM)
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SITE: PRAIRIE ISLAND

JPM TITLE: PERFORM RCS LEAKAGE INVESTIGATION (PRT)

JPM NUMBER: ADMIN-100 REV. 0

RELATED PRA INFORMATION: LOCA TOTAL – 14.3%

TASK NUMBERS / TASK TITLE(S): CRO 002 999 00 00 000 / OPERATE THE REACTOR COOLANT SYSTEM
CRO 002 ATI 00 00 017 / PERFORM RCS LEAKAGE INVESTIGATION

K/A NUMBERS: 2.2.12 (3.7/4.1)

APPLICABLE METHOD OF TESTING:

Discussion: ☐ Simulate/walkthrough: ☐ Perform: ☒

EVALUATION LOCATION: In-Plant: ☐ Control Room: ☐
Simulator: ☐ Other: ☒
Lab: ☐

Time for Completion: 7 Minutes Time Critical: NO

Alternate Path: NO

TASK APPLICABILITY: SRO: ☒ RO: ☒ NLO ☐

Additional site-specific signatures may be added as desired.

Developed by:	Justin Hasner	
	Developer	Date
Validated by:	Zach Elbert	
	Validator (See JPM Validation Checklist, Attachment 1)	Date
Approved by:	Shawn Sarrasin	
	Training Supervisor	Date

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-100, PERFORM RCS LEAKAGE INVESTIGATION (PRT), REV. 0**JPM BRIEFING/TURNOVER**

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.**INITIAL CONDITIONS:**

- SP1001AA, Daily Reactor Coolant System Leakage Test has just been completed.
- Steps 7.2.1 through 7.2.3 of SP1001AAA are complete.
- Step 7.2.3 of SP1001AAA was completed at 1031.
- PRT level, as read on **1L1-442**, at the time step 7.2.3 was completed was 70%.

INITIATING CUES:

- The Shift Supervisor directs you to complete step 7.2.4 of SP1001AAA, Reactor Coolant System Leakage Investigation.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-100, PERFORM RCS LEAKAGE INVESTIGATION (PRT), REV. 0**JPM PERFORMANCE INFORMATION**

- Required Materials:** Consumable copy of pages 7 and 8 of SP1001AAA, Reactor Coolant System Leakage Investigation, with the following data entered:
- Step 7.2.1 marked NA.
 - Step 7.2.2 marked with the following data:
 - PRT level is 68%.
 - PRT Gallons are 4300.
 - Time is 0831.
 - Step 7.2.3 marked complete with the bullet next to “2 hour period” circle/slashed.
- Calculator**
Unit 1 Tank Book
- General References:** SP1001AAA
Unit 1 Tank Book
- Task Standards:** Examinee determines that leakage into PRT is less than 2.5 gpm.

Start Time: _____

NOTE: When providing “Evaluator Cues” to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee’s actions warrant receiving the information (i.e., the examinee looks or asks for the indication).

IMPORTANT: Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM, per FP-T-SAT-73, Licensed Operator Requalification Program Examinations.

Performance Step:	SP1001AAA, Step 7.2.4, Bullet 1:	
Critical <u>Y</u>	Final RCDT level using ERCS point 1L0485A, PRZR RELIEF TK L, or 1LI-442, PRT Level:	
Standard:	Examinee enters 70% for final PRT level, 4400 gallons for final PRT level, and 100 gallons for Gallons Changed.	
Evaluator Note:	Entering 4300 to 4600 gallons for final RCDT level (and correctly carrying that value forward) constitutes successful completion of this critical step.	
Performance:	SATISFACTORY _____	UNSATISFACTORY _____
Comments:	_____	

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-100, PERFORM RCS LEAKAGE INVESTIGATION (PRT), REV. 0

Performance Step: Critical <u>Y</u>	SP1001AAA, Step 7.2.4, Bullet 2: Time final PRT level reading recorded:
Standard:	Examinee enters 1031 for time final PRT level was recorded, 120 min for duration of the test, and correctly calculates the rate of change based on the number entered in the first bullet.
Evaluator Note:	If 4400 gallons was entered in the first step, then the calculated rate of change would be 0.83 gpm. If 4600 gallons was entered in the first step, then the calculated rate of change would be 2.5 gpm. The number of significant digits entered is not important.
Evaluator Cue:	If the examinee request what time step 7.2.3 was completed, inform the examinee that it was complete at 1031.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Terminating Cues: **When examinee has determined that leakage into the RCDT is less than or equal to 2.5 gpm, then this JPM is complete.**

Stop Time: _____

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-100, PERFORM RCS LEAKAGE INVESTIGATION (PRT), REV. 0**ATTACHMENT 1****JOB PERFORMANCE MEASURE VALIDATION CHECKLIST**

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the cover page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Have all special tools and equipment needed to perform the task been identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. Are all references identified, current, and accurate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

All applicable questions must be answered "YES" or the JPM is not valid for use. If all applicable questions are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation sign and date this form.

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-100, PERFORM RCS LEAKAGE INVESTIGATION (PRT), REV. 0

ATTACHMENT 2

JPM Number: ADMIN-100JPM Title: PERFORM RCS LEAKAGE INVESTIGATION (PRT)

Examinee & ID: _____

Evaluator: _____

Job Title: _____

Date: _____

Start Time _____

Finish Time _____

PERFORMANCE RESULTS:

SAT: UNSAT: **COMMENTS/FEEDBACK: (Make written comments for any steps graded unsatisfactory).**

EVALUATOR'S SIGNATURE: _____

NOTE: Only this page needs to be retained in examinee's record if completed satisfactorily. If unsatisfactory performance is demonstrated, the entire JPM should be retained.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ATTACHMENT 3

TURNOVER SHEET

INITIAL CONDITIONS:

- SP1001AA, Daily Reactor Coolant System Leakage Test has just been completed.
- Steps 7.2.1 through 7.2.3 of SP1001AAA are complete.
- Step 7.2.3 of SP1001AAA was completed at 1031.
- PRT level, as read on **1L1-442**, at the time step 7.2.3 was completed was 70%.

INITIATING CUES:

- The Shift Supervisor directs you to complete step 7.2.4 of SP1001AAA, Reactor Coolant System Leakage Investigation.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

	JOB PERFORMANCE MEASURE (JPM)
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SITE: PRAIRIE ISLAND

JPM TITLE: EVALUATE SYSTEM OPERATING CONDITIONS WHEN SECURITY ANALYSIS IS OUT OF SERVICE

JPM NUMBER: ADMIN-19 **REV.** 3

RELATED PRA INFORMATION: NONE

TASK NUMBERS / TASK TITLE(S): SS 341 ATI 00 00 026 / EVALUATE OPERATING CONDITIONS WHEN SECURITY ANALYSIS IS OOS

K/A NUMBERS: 2.2.22 (4.0/4.7)

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: ☐ NLO ☐

Additional site-specific signatures may be added as desired.

Developed by:	Fredrick Collins
	Developer Date
Validated by:	Justin Hasner
	Validator Date (See JPM Validation Checklist, Attachment 1)
Approved by:	Shawn Sarrasin
	Training Supervisor Date

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-19, EVALUATE SYSTEM OPERATING CONDITIONS WHEN SECURITY ANALYSIS IS OOS, REV 3

(Modify text in Briefing/Turnover Box as necessary)

JPM BRIEFING/TURNOVER
<p>Add required site specific JPM briefing material here: for example:</p> <p><i>This section is read once for the entire package of JPMs. It is not required to review this section for every JPM being performed in the package. The initial conditions and initiating cue(s)/tasks to be performed should be read and then provided to the examinee.</i></p> <p><i>You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.</i></p> <p><i>EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.</i></p> <p><i>If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.</i></p>

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.

INITIAL CONDITIONS:

- Both units are at 100% power.
- The System Operator in the Transmission System Operation center has informed you that BOTH the Security Power System Analysis and the MISO RTCA programs are OOS.
- The plant is in its NORMAL at power 4.16 KV line-up.

INITIATING CUES:

- Evaluate the current system operating conditions for **BUS 25 ONLY** per C20.3 AOP 1.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-19, EVALUATE SYSTEM OPERATING CONDITIONS WHEN SECURITY ANALYSIS IS OOS, REV 3

JPM PERFORMANCE INFORMATION

Required Materials: Consumable copies of the following:

- C20.3
- C20.3 AOP1

General References: C20.3, ELECTRICAL POWER SYSTEM SECURITY ANALYSIS
C20.3 AOP1, EVALUATING SYSTEM OPERATING CONDITIONS WHEN SECURITY ANALYSIS IS OUT OF SERVICE

Task Standards: Examinee determines that the Bus 25 grid source (2R) setpoint is 97.2% (335.3 kV), plots the line and operating points on Figure 5, and determines that Bus 25 grid source (2R) is operating in the acceptable region.

Start Time: _____

NOTE: When providing “Evaluator Cues” to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee’s actions warrant receiving the information (i.e., the examinee looks or asks for the indication).

IMPORTANT: Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM, per FP-T-SAT-73, Licensed Operator Qualification Program Examinations.

Performance Step:	C20.3 AOP1, step 2.4.1:	
Critical <u>N</u>	Log the Security Analysis Program and the MISO RTCA Program OOS in the Operations Log.	
Standard:	Examinee determines a log entry will be made concerning SAP and MISO RTCAP being OOS.	
Evaluator Cue:	Inform the examinee that the Lead Reactor Operator will make the appropriate log entries.	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____	
Comments:	_____	

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-19, EVALUATE SYSTEM OPERATING CONDITIONS WHEN SECURITY ANALYSIS IS OOS, REV 3

Performance Step:	C20.3 AOP1, step 2.4.2:
Critical <u>N</u>	If any 345 kV transmission line is OOS, then contact Electrical Engineering for assistance in evaluating grid operating conditions.
Standard:	Examinee determines by using ERCS ES-1 that no 345 kV lines are OOS.
Evaluator Cue:	If asked about current grid line up, then provide examinee with picture of ERCS ES-1 and EA25.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step:	C20.3 AOP1, step 2.4.3:
Critical <u>N</u>	Evaluate the 345 kV and 161 kV grid operating conditions using Section 3.0, Table 1, and Figure 1 through Figure 6. Document results on Appendix B.
Standard:	Examinee goes to appropriate sections for Bus 25 – Section 3.0, Table 1, and Figure 5.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-19, EVALUATE SYSTEM OPERATING CONDITIONS WHEN SECURITY ANALYSIS IS OOS, REV 3

Performance Step:	C20.3 AOP1, step 3.2.2	
Critical <u>Y</u>	Generate the correct 161 kV and 345 kV figure by evaluating plant 4.16KV bus line-up with Table 1.	
Standard:	Examinee evaluates grid operating conditions for Bus 25 source (2R) using Table 1 and Figure 5 as follows: <ul style="list-style-type: none"> • Table 1 XFMR 2R – Case Study 2R-5 (21, 22, 23, 24, 25, 27) – 97.2%, 335.3 kV. • Plot horizontal line from 335.3 kV and vertical line from 0 MVARs. • Plot a sloped line from plotted point using sloped grid lines as a reference. 	
Evaluator Cues:	<ul style="list-style-type: none"> • If not already done, provide examinee with picture of ERCS ES-1. 	
Performance:	SATISFACTORY _____	UNSATISFACTORY _____
Comments:	_____	

Performance Step:	C20.3 AOP1, step 3.2.3:	
Critical <u>N</u>	Using ERCS ES1 display read bus voltages and adjusted MVARs directly from display.	
Standard:	Examinee reads voltages and MVARs from ES1.	
Performance:	SATISFACTORY _____	UNSATISFACTORY _____
Comments:	_____	

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-19, EVALUATE SYSTEM OPERATING CONDITIONS WHEN SECURITY ANALYSIS IS OOS, REV 3

Performance Step:	C20.3 AOP1, step 3.2.4:	
Critical <u>Y</u>	Plot the points on the curve and evaluate for ACCEPTABLE or UNACCEPTABLE operating region.	
Standard:	Examinee determines that Bus 25 is operating in the ACCEPTABLE region.	
Evaluator Note:	Bus 26 is operating in the UNACCEPTABLE region. If the examinee incorrectly believes that 8H12 is closed and 8H10 is open, then the examinee will not arrive at the correct evaluation.	
Performance:	SATISFACTORY _____	UNSATISFACTORY _____
Comments:	_____	

Terminating Cues: When examinee has determined that the Bus 25 grid source (2R) setpoint is 97.2% (335.3 kV), plotted the line and operating points on Figure 5, and determined that Bus 25 grid source (2R) is operating in the acceptable region, then this JPM is complete.

Stop Time: _____

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-19, EVALUATE SYSTEM OPERATING CONDITIONS WHEN SECURITY ANALYSIS IS OOS, REV 3

ATTACHMENT 1

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the cover page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Have all special tools and equipment needed to perform the task been identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. Are all references identified, current, and accurate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

All applicable questions must be answered "YES" or the JPM is not valid for use. If all applicable questions are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation sign and date this form.

 Validation Personnel /Date

 Validation Personnel/Date

 Validation Personnel /Date

 Validation Personnel/Date

 Validation Personnel /Date

 Validation Personnel/Date

 Validation Personnel /Date

 Validation Personnel/Date

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-19, EVALUATE SYSTEM OPERATING CONDITIONS WHEN SECURITY ANALYSIS IS OOS, REV 3

ATTACHMENT 2

JPM Number: ADMIN-19JPM Title: EVALUATE SYSTEM OPERATING CONDITIONS WHEN SECURITY ANALYSIS IS OUT OF SERVICE

Examinee & ID: _____

Evaluator: _____

Job Title: _____

Date: _____

Start Time _____

Finish Time _____

PERFORMANCE RESULTS:

SAT: UNSAT: **COMMENTS/FEEDBACK: (Make written comments for any steps graded unsatisfactory).**

EVALUATOR'S SIGNATURE: _____

NOTE: Only this page needs to be retained in examinee's record if completed satisfactorily. If unsatisfactory performance is demonstrated, the entire JPM should be retained.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ATTACHMENT 3

TURNOVER SHEET

INITIAL CONDITIONS:

- Both units are at 100% power.
- The System Operator in the Transmission System Operation center has informed you that BOTH the Security Power System Analysis and the MISO RTCA programs are OOS.
- The plant is in its NORMAL at power 4.16 KV line-up.

INITIATING CUES:

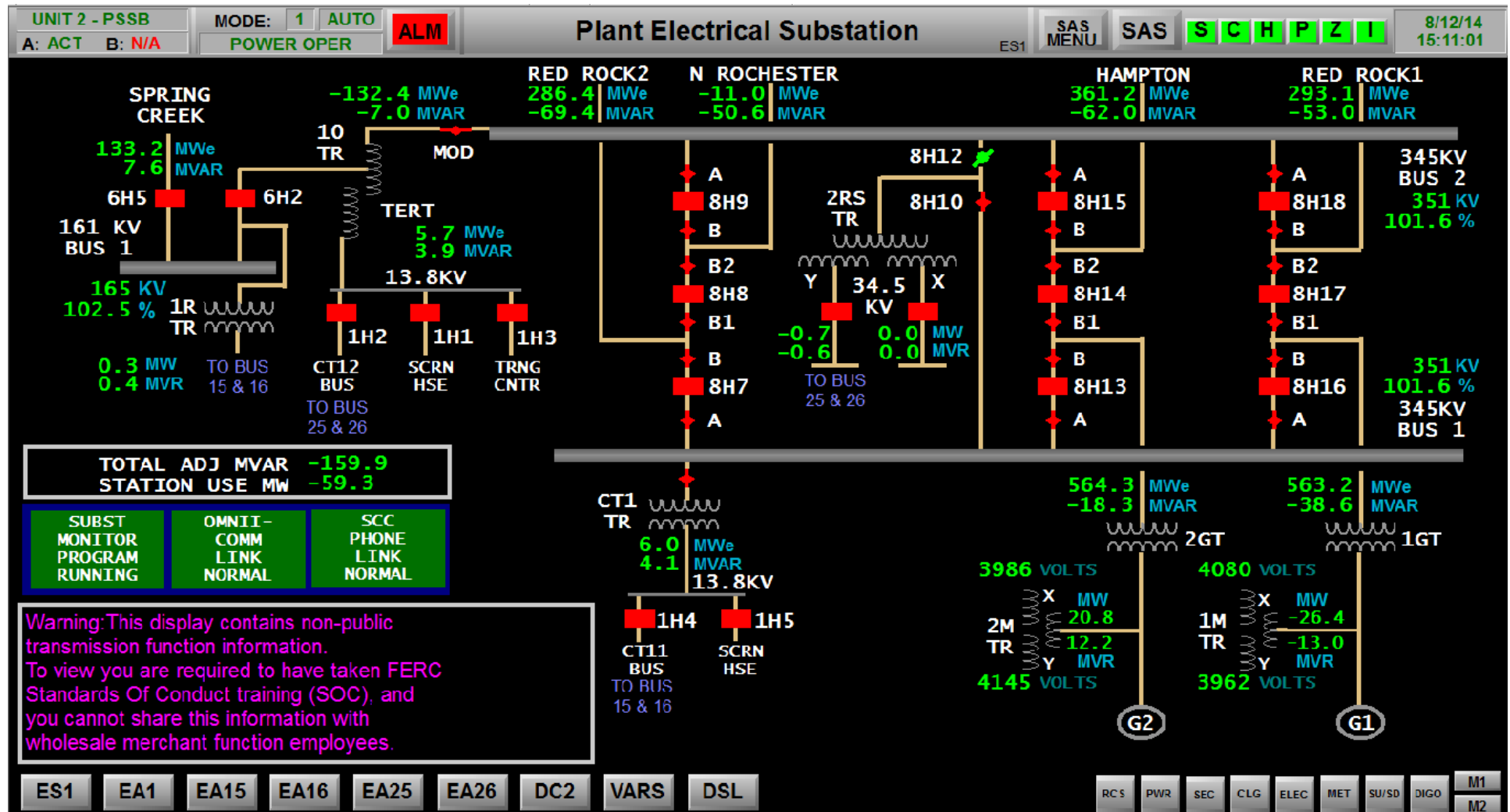
- Evaluate the current system operating conditions for **BUS 25 ONLY** per C20.3 AOP 1.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ATTACHMENT 4

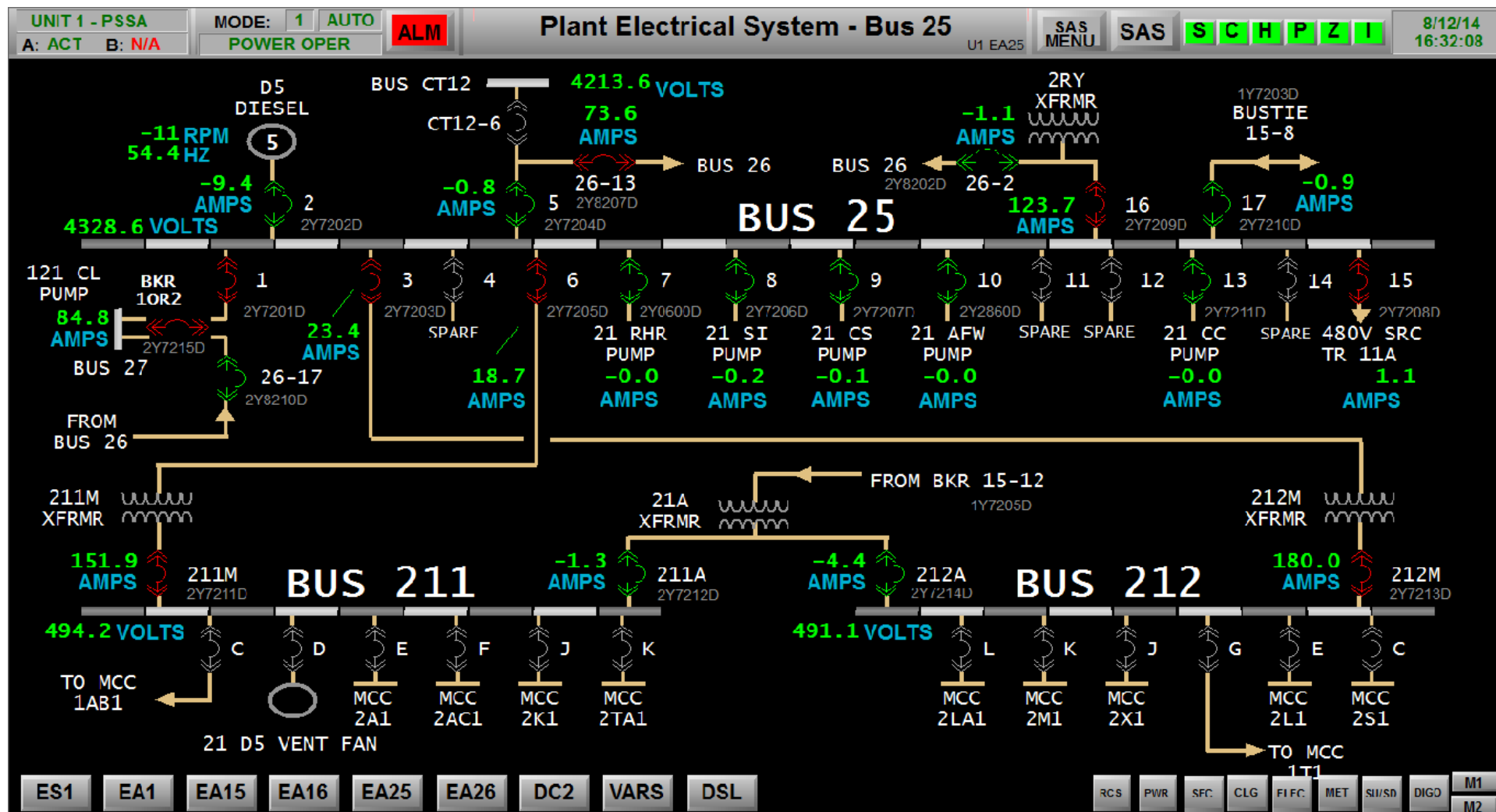


Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ATTACHMENT 4 cont.



Retention: Life of Plant
Retain in: Training Record
Form retained in accordance with record retention schedule identified in FP-G-RM-01.

	JOB PERFORMANCE MEASURE (JPM)
---	--------------------------------------

SITE: PRAIRIE ISLAND

JPM TITLE: AUTHORIZATION OF WASTE GAS RELEASE

JPM NUMBER: ADMIN-22 **REV.** 2

RELATED PRA INFORMATION: NONE

TASK NUMBERS / TASK TITLE(S): SS 341.049.03.03 / APPROVE RADIOACTIVE GAS RELEASES

K/A NUMBERS: 071 A4.26 (3.1/3.9)

APPLICABLE METHOD OF TESTING:

Discussion: ☐ Simulate/walkthrough: ☐ Perform: ☒

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

Simulator: ☐ Other: ☒

Lab: ☐

Time for Completion: 10 Minutes Time Critical: NO

Alternate Path: NO

TASK APPLICABILITY: SRO: ☒ RO: ☐ NLO ☐

Additional site-specific signatures may be added as desired.

Developed by:	Fredrick Collins	
	Developer	Date
Validated by:	Justin Hasner	
	Validator	Date
	(See JPM Validation Checklist, Attachment 1)	
Approved by:	Shawn Sarrasin	
	Training Supervisor	Date

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-22, AUTHORIZATION OF WASTE GAS RELEASE, REV. 2**JPM BRIEFING/TURNOVER**

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.**INITIAL CONDITIONS:**

- Unit 1 and Unit 2 are at 100% power.
- Cooling Towers are in service.
- You are the Unit 1 Shift Supervisor.
- A Waste Gas Release is planned for your shift from 128 Low Level Gas Decay Tank.
- The Gas Decay Tank Gaseous Effluent Release Permit has been completed and approved.

INITIATING CUES:

- C21.3-10.8, Releasing Radioactive Gas from 128 Low Level Gas Decay Tank, has been completed through step 7.11.
- Determine if a gaseous release can be approved per C21.3-10.8, step 7.11.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-22, AUTHORIZATION OF WASTE GAS RELEASE, REV. 2

JPM PERFORMANCE INFORMATION

- Required Materials:**
- Consumable copy of C21.3-10.8, Releasing Radioactive Gas from 128 Low Level Gas Decay Tank
 - Attachment 4, Gas Decay Tank Gaseous Effluent Release Permit, with dates and times filled in.
 - Attachment 5, ERCS Server Group OPWIND
- General References:** Gas Decay Tank Gaseous Effluent Release Permit
C21.3-10.8, Releasing Radioactive Gas from 128 Low Level Gas Decay Tank
- Task Standards:** Determine release cannot be approved due to unfavorable wind conditions.

Start Time: _____

NOTE: When providing “Evaluator Cues” to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee’s actions warrant receiving the information (i.e., the examinee looks or asks for the indication).

IMPORTANT: Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM, per FP-T-SAT-73, Licensed Operator Requalification Program Examinations.

Performance Step:	C21.3-10.8, step 7.11.1:	
Critical <u>N</u>	Verify Chemistry Manager or designee has approved the release on the Gas Decay Tank Gaseous Effluent Release Permit.	
Standard:	Examinee verifies Chemistry Manager has approved the release on the GDTGER Permit.	
Evaluator Cue:	Give examinee Attachment 4, Gas Decay Tank Gaseous Effluent Release Permit.	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____	
Comments:	_____	

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-22, AUTHORIZATION OF WASTE GAS RELEASE, REV. 2

Performance Step:	C21.3-10.8, step 7.11.2:	
Critical <u>Y</u>	Check wind conditions as specified in the Limitations section are satisfied (from ERCS server group "OPWIND"): • 10-meter average wind speed _____ mph • 10-meter average wind direction _____ °	
Standard:	Examinee locates wind speed and direction from OPWIND ERCS Group Attachment 4.	
Evaluator Cue:	Give examinee Attachment 5, ERCS Server Group OPWIND.	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____	
Comments:	_____	

Performance Step:	C21.3-10.8, step 7.11.3:	
Critical <u>Y</u>	Release Approval: _____ Shift Supervisor Date: _____ Time: _____	
Standard:	Examinee determines the release cannot be approved due to unfavorable wind conditions.	
Evaluator Note:	This critical step is considered met if the examinee notes unfavorable wind conditions during review of step 7.8.2 or Precaution & Limitation 3.2.	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____	
Comments:	_____	

Terminating Cues: When examinee has determined the release cannot be approved due to unfavorable wind conditions, then this JPM is complete.

Stop Time: _____

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-22, AUTHORIZATION OF WASTE GAS RELEASE, REV. 2

ATTACHMENT 1

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the cover page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Have all special tools and equipment needed to perform the task been identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. Are all references identified, current, and accurate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

All applicable questions must be answered "YES" or the JPM is not valid for use. If all applicable questions are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation sign and date this form.

 Validation Personnel /Date

 Validation Personnel/Date

 Validation Personnel /Date

 Validation Personnel/Date

 Validation Personnel /Date

 Validation Personnel/Date

 Validation Personnel /Date

 Validation Personnel/Date

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-22, AUTHORIZATION OF WASTE GAS RELEASE, REV. 2

ATTACHMENT 2

JPM Number: _____

JPM Title: _____

Examinee & ID: _____

Evaluator: _____

Job Title: _____

Date: _____

Start Time _____

Finish Time _____

PERFORMANCE RESULTS:

SAT: UNSAT: **COMMENTS/FEEDBACK: (Make written comments for any steps graded unsatisfactory).****EVALUATOR'S SIGNATURE:** _____

NOTE: Only this page needs to be retained in examinee's record if completed satisfactorily. If unsatisfactory performance is demonstrated, the entire JPM should be retained.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ATTACHMENT 3

TURNOVER SHEET

INITIAL CONDITIONS:

- Unit 1 and Unit 2 are at 100% power.
- Cooling Towers are in service.
- You are the Unit 1 Shift Supervisor.
- A Waste Gas Release is planned for your shift from 128 Low Level Gas Decay Tank.
- The Gas Decay Tank Gaseous Effluent Release Permit has been completed and approved.

INITIATING CUES:

- C21.3-10.8, Releasing Radioactive Gas from 128 Low Level Gas Decay Tank, has been completed through step 7.11.
- Determine if a gaseous release can be approved per C21.3-10.8, step 7.11.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ATTACHMENT 4

Prairie Island Nuclear Generating Station

Permit Number: PIGB2018-136P

Gas Decay Tank Gaseous Effluent Release Permit**Pre-Release Conditions**

Release System: Gas Decay Tank
Release Point: 128 Low Level GDT
Release Point Comment: *** Checklist C21.3-10.8 ***
Waste Volume (cft): 0.00
Maximum Waste Flow (cfm): 1,000.00
Minimum Dilution Flow (cfm): 40,600.00
Release Fraction: 1.00

Radiation Monitor Data (Calculations include Background)

Monitor Description:	2R-30	2R-37
Calculated High Setpoint:	4.44E+04	3.30E+04
Current High Setpoint:	5.00E+02	6.00E+02
Background:	3.50E+01	3.50E+01
Expected Response:	4.40E+02	4.00E+02
Monitor Units:	cpm	cpm

Special Conditions:

test



Prepared By



Reviewed By



Approved By (Chem Mgr)

Prepared Date/Time

Review Date/Time

Approved Date/Time

Remarks:

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ATTACHMENT 4

Insert pic from sim

	JOB PERFORMANCE MEASURE (JPM)
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SITE: PRAIRIE ISLAND

JPM TITLE: ASSESS SHIFTT STAFFING LEVELS

JPM NUMBER: ADMIN-88 **REV.** 1

RELATED PRA INFORMATION: NONE

TASK NUMBERS / TASK TITLE(S): SS 343 ATI 00 00 009 / ENSURE SHIFT MANNING FOR ALL EVOLUTIONS INCLUDING FFD

K/A NUMBERS: 2.1.5 (2.9*/3.9)

APPLICABLE METHOD OF TESTING:

Discussion: ☐ Simulate/walkthrough: ☐ Perform: ☒

EVALUATION LOCATION: In-Plant: ☐ Control Room: ☐
 Simulator: ☐ Other: ☒
 Lab: ☐

Time for Completion: 9 Minutes Time Critical: NO

Alternate Path: NO

TASK APPLICABILITY: SRO: ☒ RO: ☐ NLO ☐

Additional site-specific signatures may be added as desired.

Developed by:	Fredrick Collins	
	Developer	Date
Validated by:	Justin Hasner	
	Validator (See JPM Validation Checklist, Attachment 1)	Date
Approved by:	Shawn Sarrasin	
	Training Supervisor	Date

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-88, ASSESS SHIFT STAFFING LEVELS, REV. 1

(Modify text in Briefing/Turnover Box as necessary)

JPM BRIEFING/TURNOVER
<p>Add required site specific JPM briefing material here: for example:</p> <p><i>This section is read once for the entire package of JPMs. It is not required to review this section for every JPM being performed in the package. The initial conditions and initiating cue(s)/tasks to be performed should be read and then provided to the examinee.</i></p> <p><i>You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.</i></p> <p><i>EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.</i></p> <p><i>If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.</i></p>

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.

INITIAL CONDITIONS:

- You are the Unit 2 Shift Supervisor.
- Unit 1 and 2 are both at 100% power.
- It is Saturday at 1730.
- Currently on site, there are
 - 2 Shift Supervisors.
 - 4 Licensed Reactor Operators
 - 7 Non-licensed Operators
 - 1 Shift Technical Advisor
 - 1 Shift Manager
 - 1 Shift Chemist
 - 4 Radiation Protection Specialists
- The Shift Technical Advisor (STA) receives a phone call from his relief calling in sick. A call out is made and a relief will not be available until 2100.
- The STA requests permission to leave at 1800 due to family dinner plans.

INITIATING CUES:

- Determine the following using SWI O-2, Shift Organization, Operation & Turnover:
 - Can the STA immediately leave the site?
 - If so, what actions must be taken?

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-88, ASSESS SHIFT STAFFING LEVELS, REV. 1

- Report decisions to evaluator.

ADMIN-88, ASSESS SHIFT STAFFING LEVELS, REV. 1

JPM PERFORMANCE INFORMATION

Required Materials: SWI O-2, SHIFT ORGANIZATION, OPERATION & TURNOVER

General References: SWI O-2, SHIFT ORGANIZATION, OPERATION & TURNOVER

Task Standards: Examinee determines that the STA cannot be released for convenience and must keep the duty until a qualified relief arrives.

Start Time: _____

NOTE: When providing “Evaluator Cues” to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee’s actions warrant receiving the information (i.e., the examinee looks or asks for the indication).

IMPORTANT: Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM, per FP-T-SAT-73, Licensed Operator Requalification Program Examinations.

Performance Step:	SWI O-2 – Table 1, Minimum Shift Staffing:
Critical <u>N</u>	
Standard:	Examinee determines minimum shift staffing is currently met.
Evaluator Note:	Steps may be performed in any sequence.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-88, ASSESS SHIFT STAFFING LEVELS, REV. 1

Performance Step: Critical <u>Y</u>	SWI O-2 – Table 1, Minimum Shift Staffing: Note 1. Shift crew composition may be one less than the minimum requirements for a period of time not to exceed two hours in order to accommodate an unexpected absence of one duty shift crew member provided immediate action is taken to restore the shift crew composition to within the minimum requirements specified. This SHALL NOT be used for convenience.
Standard:	Examinee determines the STA is requesting to leave for convenience.
Evaluator Note:	Steps may be performed in any sequence.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u>	Table 1 Minimum Shift Staffing: If a person's relief calls in sick, they are to keep the duty until a qualified relief arrives.
Standard:	Examinee determines the STA is not allowed to leave until a qualified relief arrives.
Evaluator Note:	Steps may be performed in any sequence.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Terminating Cues: When examinee determines the STA cannot be released for convenience and must keep the duty until a qualified relief arrives, then this JPM is complete.

Stop Time: _____

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-88, ASSESS SHIFT STAFFING LEVELS, REV. 1

ATTACHMENT 1

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the cover page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Have all special tools and equipment needed to perform the task been identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. Are all references identified, current, and accurate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

All applicable questions must be answered "YES" or the JPM is not valid for use. If all applicable questions are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation sign and date this form.

 Validation Personnel /Date

 Validation Personnel/Date

 Validation Personnel /Date

 Validation Personnel/Date

 Validation Personnel /Date

 Validation Personnel/Date

 Validation Personnel /Date

 Validation Personnel/Date

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-88, ASSESS SHIFT STAFFING LEVELS, REV. 1

ATTACHMENT 2

JPM Number: ADMIN-88JPM Title: ASSESS SHIFT STAFFING LEVELS

Examinee & ID: _____

Evaluator: _____

Job Title: _____

Date: _____

Start Time _____

Finish Time _____

PERFORMANCE RESULTS:

SAT: UNSAT: **COMMENTS/FEEDBACK: (Make written comments for any steps graded unsatisfactory).****EVALUATOR'S SIGNATURE:** _____

NOTE: Only this page needs to be retained in examinee's record if completed satisfactorily. If unsatisfactory performance is demonstrated, the entire JPM should be retained.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ATTACHMENT 3**TURNOVER SHEET****INITIAL CONDITIONS:**

- You are the Unit 2 Shift Supervisor.
- Unit 1 and 2 are both at 100% power.

- It is Saturday at 1730.
- Currently on site, there are
 - 2 Shift Supervisors.
 - 4 Licensed Reactor Operators
 - 7 Non-licensed Operators
 - 1 Shift Technical Advisor
 - 1 Shift Manager
 - 1 Shift Chemist
 - 4 Radiation Protection Specialists

- The Shift Technical Advisor (STA) receives a phone call from his relief calling in sick. A call out is made and a relief will not be available until 2100.

- The STA requests permission to leave at 1800 due to family dinner plans.

INITIATING CUES:

- Determine the following using SWI O-2, Shift Organization, Operation & Turnover:
 - Can the STA immediately leave the site?
 - If so, what actions must be taken?

- Report decisions to evaluator.

	JOB PERFORMANCE MEASURE (JPM)
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SITE: PRAIRIE ISLAND

JPM TITLE: PERFORM SHUTDOWN SAFETY ASSESSMENT FOR DECAY HEAT REMOVAL (RCS)

JPM NUMBER: ADMIN-96 **REV.** 0

RELATED PRA INFORMATION: NONE

TASK NUMBERS / TASK TITLE(S): SS 342 ATI 00 00 030 / PERFORM SHUTDOWN SAFETY ASSESSMENT

K/A NUMBERS: 2.2.18 (2.6/3.9)

APPLICABLE METHOD OF TESTING:

Discussion: ☐ Simulate/walkthrough: ☐ Perform: ☒

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

Simulator: ☐ Other: ☒

Lab: ☐

Time for Completion: 10 Minutes Time Critical: NO

Alternate Path: NO

TASK APPLICABILITY: SRO: ☒ RO: ☐ NLO ☐

Additional site-specific signatures may be added as desired.

Developed by:	Justin Hasner
	Developer Date
Validated by:	Fredrick Collins
	Validator Date
	(See JPM Validation Checklist, Attachment 1)
Approved by:	Shawn Sarrasin
	Training Supervisor Date

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-96, PERFORM SHUTDOWN SAFETY ASSESSMENT FOR DECAY HEAT REMOVAL (RCS), REV. 0

(Modify text in Briefing/Turnover Box as necessary)

JPM BRIEFING/TURNOVER***Add required site specific JPM briefing material here: for example:***

This section is read once for the entire package of JPMs. It is not required to review this section for every JPM being performed in the package. The initial conditions and initiating cue(s)/tasks to be performed should be read and then provided to the examinee.

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.**INITIAL CONDITIONS:**

- Unit 1 is in a FORCED OUTAGE to repair Reactor Coolant Pump seals.
- Due to a change in equipment status, PINP 1102, UNIT 1 SHUTDOWN SAFETY ASSESSMENT, is being performed for Decay Heat Removal (RCS) only.
- PINGP 1102, pages 1-3 are provided.
- Equipment status has been completed and verified accurate.

INITIATING CUES:

- Determine the Total Points for Decay Heat Removal (RCS) ONLY.
- Determine the current condition for Decay Heat Removal (RCS).

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-96, PERFORM SHUTDOWN SAFETY ASSESSMENT FOR DECAY HEAT REMOVAL (RCS), REV. 0

JPM PERFORMANCE INFORMATION

Required Materials: Consumable copy of PINGP 1102 and 5AWI 15.6.1.

General References: 5AWI 15.6.1, SHUTDOWN SAFETY ASSESSMENT
PINGP 1102, UNIT 1 SHUTDOWN SAFETY ASSESSMENT

Task Standards: Examinee determines Decay Heat Removal (RCS) is a YELLOW condition.

Start Time: _____

NOTE: When providing "Evaluator Cues" to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee's actions warrant receiving the information (i.e., the examinee looks or asks for the indication).

IMPORTANT: Critical steps are marked with a "Y" below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM, per FP-T-SAT-73, Licensed Operator Requalification Program Examinations.

Performance Step:
Critical Y

11 RHR Available

Yes	No			
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Train A RHR is NOT aligned for ECCS		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	11 RHR Pmp		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	11 RHR HX		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	CC Available to 11 RHR HX		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Clg Wtr Available to CC HX		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Two (2) Clg Wtr Pmps Available (One SFGDS)		
		11, 21, 121, 12, 22 (Circle Available CL Pmps)	(0-1)	<input type="text"/>

Standard: Examinee allocates ZERO points for 11 RHR Available.

Evaluator Cues: If examinee asks for status of individual components, inform the examinee that the form has been completed correctly.

Performance: SATISFACTORY _____ UNSATISFACTORY _____

Comments: _____

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

**ADMIN-96, PERFORM SHUTDOWN SAFETY ASSESSMENT FOR DECAY HEAT REMOVAL
(RCS), REV. 0**

Performance Step: Critical <u>Y</u>	12 RHR Available			
	Yes	No		
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Train B RHR is NOT aligned for ECCS	
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12 RHR Pmp	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12 RHR HX	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CC Available to 12 RHR HX	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Clg Wtr Available to CC HX	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Two (2) Clg Wtr Pmps Available (One SFGDS)	
			11, <u>21</u> , <u>121</u> , <u>12</u> , <u>22</u> (Circle Available CL Pmps)	(0-1) <input type="checkbox"/>
Standard: Examinee allocates ZERO points for 12 RHR Available.				
Evaluator Cues: If examinee asks for status of individual components, inform the examinee that the form has been completed correctly.				
Performance: SATISFACTORY _____ UNSATISFACTORY _____				
Comments: _____				

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-96, PERFORM SHUTDOWN SAFETY ASSESSMENT FOR DECAY HEAT REMOVAL (RCS), REV. 0

Performance Step:	11 S.G. Available				
Critical <u>Y</u>	Yes	No			
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	RCS can be made intact by valve closure with primary and secondary manways installed.		
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	At least one PRESSURIZER PORV can be operated from the Control Room.		
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	At least one Charging Pump is available to pressurize the RCS.		
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	RCS filled and vented		
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Wide Range Level > 60%		
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AFW available		
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Steam Release Path (Yes if any of the following are Yes)		
			Yes	No	
			<input checked="" type="checkbox"/>	<input type="checkbox"/>	S.G. PORV OPEN or available
			<input type="checkbox"/>	<input checked="" type="checkbox"/>	MSIV OPEN and STM DUMP valve available
			<input type="checkbox"/>	<input checked="" type="checkbox"/>	MSIV Bypass OPEN and STM Dump Valve available
			(0-1) <input type="text"/>		
Standard:	Examinee allocates ONE point for 11 S.G. Available.				
Evaluator Cues:	If examinee asks for status of individual components, inform the examinee that the form has been completed correctly.				
Performance:	SATISFACTORY _____ UNSATISFACTORY _____				
Comments:	_____				

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-96, PERFORM SHUTDOWN SAFETY ASSESSMENT FOR DECAY HEAT REMOVAL (RCS), REV. 0

Performance Step: Critical <u>Y</u>	12 S.G. Available				
		Yes	No		
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	RCS can be made intact by valve closure with primary and secondary manways installed.		
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	At least one PRESSURIZER PORV can be operated from the Control Room.		
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	At least one Charging Pump is available to pressurize the RCS.		
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	RCS filled and vented		
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Wide Range Level > 60%		
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	AFW Available		
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Steam Release Path (Yes if any of the following are Yes)		
			Yes	No	
			<input checked="" type="checkbox"/>	<input type="checkbox"/>	S.G. PORV OPEN or available
			<input type="checkbox"/>	<input checked="" type="checkbox"/>	MSIV OPEN and STM DUMP valve available
			<input type="checkbox"/>	<input checked="" type="checkbox"/>	MSIV Bypass OPEN and STM Dump Valve available
					(0-1) <input type="text"/>
Standard:		Examinee allocates ONE point for 12 S.G. Availability.			
Evaluator Cues:		If examinee asks for status of individual components, inform the examinee that the form has been completed correctly.			
Performance:		SATISFACTORY _____ UNSATISFACTORY _____			
Comments:		_____			

Performance Step: Critical <u>Y</u>	Total Points "DECAY HEAT REMOVAL" (RCS)		Total (0-4)	<input type="text"/>
Standard:		Examinee allocates a total of TWO points for DECAY HEAT REMOVAL (RCS) and determines DECAY HEAT REMOVAL (RCS) is in a YELLOW condition.		
Performance:		SATISFACTORY _____ UNSATISFACTORY _____		
Comments:		_____		

Terminating Cues: When examinee has determined Examinee determines Decay Heat Removal (RCS) is a YELLOW condition, then this JPM is complete.

Stop Time: _____

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-96, PERFORM SHUTDOWN SAFETY ASSESSMENT FOR DECAY HEAT REMOVAL (RCS), REV. 0

ATTACHMENT 1

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the cover page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Have all special tools and equipment needed to perform the task been identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. Are all references identified, current, and accurate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

All applicable questions must be answered "YES" or the JPM is not valid for use. If all applicable questions are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation sign and date this form.

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-96, PERFORM SHUTDOWN SAFETY ASSESSMENT FOR DECAY HEAT REMOVAL (RCS), REV. 0**ATTACHMENT 2**

JPM Number: ADMIN-96
JPM Title: PERFORM SHUTDOWN SAFETY ASSESSMENT FOR DECAY HEAT REMOVAL (RCS)

Examinee & ID: _____ Evaluator: _____

Job Title: _____ Date: _____

Start Time _____ Finish Time _____

PERFORMANCE RESULTS: SAT: UNSAT:

COMMENTS/FEEDBACK: (Make written comments for any steps graded unsatisfactory).

EVALUATOR'S SIGNATURE: _____

NOTE: Only this page needs to be retained in examinee's record if completed satisfactorily. If unsatisfactory performance is demonstrated, the entire JPM should be retained.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ATTACHMENT 3

TURNOVER SHEET

INITIAL CONDITIONS:

- Unit 1 is in a FORCED OUTAGE to repair Reactor Coolant Pump seals.
- Due to a change in equipment status, PINP 1102, UNIT 1 SHUTDOWN SAFETY ASSESSMENT, is being performed for Decay Heat Removal (RCS) only.
- PINGP 1102, pages 1-3 are provided.
- Equipment status has been completed and verified accurate.

INITIATING CUES:

- Determine the Total Points for Decay Heat Removal (RCS) ONLY.
- Determine the current condition for Decay Heat Removal (RCS).

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

UNIT 1 SHUTDOWN SAFETY ASSESSMENT

THERMAL MARGIN (TIME TO BOILING) (RCS NA, IF CAPABLE OF BEING MADE INTACT)

_____ FLOODED (FIG C1-33)
 _____ 1' BELOW RX VESSEL FLANGE (FIG C1-32)
 _____ REDUCED INVENTORY (FIG C1-31)

RCS TIME TO BOILING _____ SFP TIME TO BOILING (FIG C1-34) _____

NOTE:	IF the Reactor is defueled, <u>THEN</u> Decay Heat Removal for the RCS, Inventory Control, Power Availability, Reactivity Control, and Containment are GREEN.
--------------	--

NOTE:	Values within parentheses correspond to PassPort SSA Codes on the M111 Nuclear Details Panel.
--------------	--

	(CIRCLE CONDITION)			
	RED	ORANGE	YELLOW	GREEN
DECAY HEAT REMOVAL				
RCS (1)	0	1	2	≥ 3
SFP (2)	0-1	2-3	4	5
INVENTORY CONTROL(3)	0	1	2-3	≥4
POWER AVAILABILITY				
4160 VOLTS (4)	0-1	2-3	4-6	≥7
480 VOLTS (5)	0-1	2	3-4	5
120 VOLTS INST (6)	0-1	2	3	≥4
120 VOLTS UPS (7)	0	1	2-3	≥4
DC (8)	0-1	2	3	≥4
REACTIVITY CONTROL(9)	0-1	2	3-4	5
CONTAINMENT				
CLOSURE (C)	0-1	2	3	≥4

NEXT SSA PLANNED CHANGE (EVENT, CATEGORY, COLOR, DATE, TIME):

Completed By: _____ Date: _____ Time: _____
 STA Review: _____ Date: _____ Time: _____
 SS Review and Crew Briefed: _____ Date: _____ Time: _____
 SM Approval: _____ Date: _____ Time: _____

Provide Copies to:

- Operations Manager
- Resident NRC

UNIT 1 SHUTDOWN SAFETY ASSESSMENT

NOTE:

All criteria listed is required for credit except where specified.

DECAY HEAT REMOVAL

RCS with Fuel in Vessel

11 RHR Available

Yes No

- | | | |
|-------------------------------------|-------------------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Train A RHR is NOT aligned for ECCS |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 11 RHR Pmp |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 11 RHR HX |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | CC Available to 11 RHR HX |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Clg Wtr Available to CC HX |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Two (2) Clg Wtr Pmps Available (One SFGDS) |

11, 21, 121, 12, 22 (Circle Available CL Pmps)

(0-1)

12 RHR Available

Yes No

- | | | |
|-------------------------------------|-------------------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Train B RHR is NOT aligned for ECCS |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 12 RHR Pmp |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 12 RHR HX |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | CC Available to 12 RHR HX |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Clg Wtr Available to CC HX |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Two (2) Clg Wtr Pmps Available (One SFGDS) |

11, 21, 121, 12, 22 (Circle Available CL Pmps)

(0-1)

UNIT 1 SHUTDOWN SAFETY ASSESSMENT

DECAY HEAT REMOVAL [cont'd]

S.G. Available (One point for each S.G)

11 S.G. Available

Yes	No													
<input checked="" type="checkbox"/>	<input type="checkbox"/>	RCS can be made intact by valve closure with primary and secondary manways installed.												
<input checked="" type="checkbox"/>	<input type="checkbox"/>	At least one PRESSURIZER PORV can be operated from the Control Room.												
<input checked="" type="checkbox"/>	<input type="checkbox"/>	At least one Charging Pump is available to pressurize the RCS.												
<input checked="" type="checkbox"/>	<input type="checkbox"/>	RCS filled and vented												
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Wide Range Level > 60%												
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AFW available												
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Steam Release Path (Yes if any of the following are Yes)												
		<table border="0" style="margin-left: 40px;"> <thead> <tr> <th style="text-align: left;">Yes</th> <th style="text-align: left;">No</th> <th></th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td>S.G. PORV OPEN or available</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>MSIV OPEN and STM DUMP valve available</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>MSIV Bypass OPEN and STM Dump Valve available</td> </tr> </tbody> </table>	Yes	No		<input checked="" type="checkbox"/>	<input type="checkbox"/>	S.G. PORV OPEN or available	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MSIV OPEN and STM DUMP valve available	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MSIV Bypass OPEN and STM Dump Valve available
Yes	No													
<input checked="" type="checkbox"/>	<input type="checkbox"/>	S.G. PORV OPEN or available												
<input type="checkbox"/>	<input checked="" type="checkbox"/>	MSIV OPEN and STM DUMP valve available												
<input type="checkbox"/>	<input checked="" type="checkbox"/>	MSIV Bypass OPEN and STM Dump Valve available												

(0-1) _____

12 S.G. Available

Yes	No													
<input checked="" type="checkbox"/>	<input type="checkbox"/>	RCS can be made intact by valve closure with primary and secondary manways installed.												
<input checked="" type="checkbox"/>	<input type="checkbox"/>	At least one PRESSURIZER PORV can be operated from the Control Room.												
<input checked="" type="checkbox"/>	<input type="checkbox"/>	At least one Charging Pump is available to pressurize the RCS.												
<input checked="" type="checkbox"/>	<input type="checkbox"/>	RCS filled and vented												
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Wide Range Level > 60%												
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AFW Available												
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Steam Release Path (Yes if any of the following are Yes)												
		<table border="0" style="margin-left: 40px;"> <thead> <tr> <th style="text-align: left;">Yes</th> <th style="text-align: left;">No</th> <th></th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td>S.G. PORV OPEN or available</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>MSIV OPEN and STM DUMP valve available</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>MSIV Bypass OPEN and STM Dump Valve available</td> </tr> </tbody> </table>	Yes	No		<input checked="" type="checkbox"/>	<input type="checkbox"/>	S.G. PORV OPEN or available	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MSIV OPEN and STM DUMP valve available	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MSIV Bypass OPEN and STM Dump Valve available
Yes	No													
<input checked="" type="checkbox"/>	<input type="checkbox"/>	S.G. PORV OPEN or available												
<input type="checkbox"/>	<input checked="" type="checkbox"/>	MSIV OPEN and STM DUMP valve available												
<input type="checkbox"/>	<input checked="" type="checkbox"/>	MSIV Bypass OPEN and STM Dump Valve available												

(0-1) _____

Total Points **"DECAY HEAT REMOVAL" (RCS)**

Total (0-4) _____

UNIT 1 SHUTDOWN SAFETY ASSESSMENT

DECAY HEAT REMOVAL [cont'd]

Spent Fuel Pit

Both SFP Cooling Loops Available

Yes No

- | | | | |
|--------------------------|--------------------------|--|--|
| <input type="checkbox"/> | <input type="checkbox"/> | Both SFP Pmps Available | |
| <input type="checkbox"/> | <input type="checkbox"/> | Both SFP H-Xs Available | |
| <input type="checkbox"/> | <input type="checkbox"/> | Cooling to both SFP H-Xs Available (2 total from below for yes) | |
| | | <ul style="list-style-type: none"> • Clg Wtr to any CC H-X supporting SFP Cooling (1 or 2) • Power, Air, and Make-up water is available for temp cooling if supporting any SFP H-X (0-1) | |
| <input type="checkbox"/> | <input type="checkbox"/> | SFP Level and Temp Indication Available | |
| <input type="checkbox"/> | <input type="checkbox"/> | At least one SFP cooling loop has diesel backup power | |

(0-1) _____

Either SFP Cooling Loop In Service

Yes No

- | | | | | |
|--------------------------|--------------------------|---|-------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | At least one SFP Pmp Running | (circle) 121, 122, Both | |
| <input type="checkbox"/> | <input type="checkbox"/> | At least one SFP H-X In Service | (circle) 121, 122, Both | |
| <input type="checkbox"/> | <input type="checkbox"/> | Cooling to In Service SFP H-X (Yes if below true for credited SFP H-X(s)) | | |
| | | <ul style="list-style-type: none"> • Clg Wtr to any CC H-X supporting a credited in-service SFP cooling • Power, Air, and Make-up water is available for temp cooling if supporting a credited in-service SFP H-X | | |
| <input type="checkbox"/> | <input type="checkbox"/> | SFP Level and Temp Indication Available | | |

(0-1) _____

SFP Inventory

Yes No

- | | | | | |
|--------------------------|--------------------------|---|-------|-------|
| <input type="checkbox"/> | <input type="checkbox"/> | Time to boiling greater than or equal to 12 hours (FIG C1-34) | (0-1) | _____ |
|--------------------------|--------------------------|---|-------|-------|

SFP Level

Yes No

- | | | | |
|--------------------------|--------------------------|------------------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | 121 SFP Level \geq Low Level Alm | |
| <input type="checkbox"/> | <input type="checkbox"/> | 122 SFP Level \geq Low Level Alm | |

(0-1) _____

SFP Temp

Yes No

- | | | | |
|--------------------------|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | 121 SFP Temp \leq 120° | |
| <input type="checkbox"/> | <input type="checkbox"/> | 122 SFP Temp \leq 120° | |

(0-1) _____

Total Points "DECAY HEAT REMOVAL" (SFP)

Total (0-5) _____

UNIT 1 SHUTDOWN SAFETY ASSESSMENT

THERMAL MARGIN (TIME TO BOILING) (RCS NA, IF CAPABLE OF BEING MADE INTACT)

N/A FLOODED (FIG C1-33)
N/A 1' BELOW RX VESSEL FLANGE (FIG C1-32)
N/A REDUCED INVENTORY (FIG C1-31)

RCS TIME TO BOILING N/A SFP TIME TO BOILING(FIG C1-34) 17 HRS

NOTE:	IF the Reactor is defueled, THEN Decay Heat Removal for the RCS, Inventory Control, Power Availability, Reactivity Control, and Containment are GREEN.
NOTE:	Values within parentheses correspond to PassPort SSA Codes on the M111 Nuclear Details Panel.

	(CIRCLE CONDITION)			
	RED	ORANGE	YELLOW	GREEN
DECAY HEAT REMOVAL				
RCS (1)	0	1	2	≥ 3
SFP (2)	0-1	2-3	4	5
INVENTORY CONTROL(3)	0	1	2-3	>4
POWER AVAILABILITY				
4160 VOLTS (4)	0-1	2-3	4-6	≥7
480 VOLTS (5)	0-1	2	3-4	5
120 VOLTS INST (6)	0-1	2	3	>4
120 VOLTS UPS (7)	0	1	2-3	>4
DC (8)	0-1	2	3	>4
REACTIVITY CONTROL(9)	0-1	2	3-4	5
CONTAINMENT				
CLOSURE (C)	0-1	2	3	≥4

NEXT SSA PLANNED CHANGE (EVENT, CATEGORY, COLOR, DATE, TIME):

Completed By: _____ Date: _____ Time: _____
 STA Review: _____ Date: _____ Time: _____
 SS Review and Crew Briefed: _____ Date: _____ Time: _____
 SM Approval: _____ Date: _____ Time: _____

Provide Copies to:

- Operations Manager
- Resident NRC

UNIT 1 SHUTDOWN SAFETY ASSESSMENT

NOTE:	All criteria listed is required for credit except where specified.
-------	--

DECAY HEAT REMOVAL

RCS with Fuel in Vessel

11 RHR Available

Yes	No		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Train A RHR is NOT aligned for ECCS	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	11 RHR Pmp	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	11 RHR HX	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	CC Available to 11 RHR HX	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Clg Wtr Available to CC HX	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Two (2) Clg Wtr Pmps Available (One SFGDS)	
		11, 21, 121, 12, 22 (Circle Available CL Pmps)	(0-1)

12 RHR Available

Yes	No		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Train B RHR is NOT aligned for ECCS	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	12 RHR Pmp	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	12 RHR HX	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	CC Available to 12 RHR HX	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Clg Wtr Available to CC HX	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Two (2) Clg Wtr Pmps Available (One SFGDS)	
		11, 21, 121, 12, 22 (Circle Available CL Pmps)	(0-1)

UNIT 1 SHUTDOWN SAFETY ASSESSMENT **DECAY HEAT REMOVAL [cont'd]**

S.G. Available (One point for each S.G)

11 S.G. Available

Yes	No		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	RCS can be made intact by valve closure with primary and secondary manways installed.	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	At least one PRESSURIZER PORV can be operated from the Control Room.	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	At least one Charging Pump is available to pressurize the RCS.	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	RCS filled and vented	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Wide Range Level > 60%	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AFW available	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Steam Release Path (Yes if any of the following are Yes)	
	Yes	No	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	S.G. PORV OPEN or available
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MSIV OPEN and STM DUMP valve available
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MSIV Bypass OPEN and STM Dump Valve available

(0-1) _____

12 S.G. Available

Yes	No		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	RCS can be made intact by valve closure with primary and secondary manways installed.	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	At least one PRESSURIZER PORV can be operated from the Control Room.	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	At least one Charging Pump is available to pressurize the RCS.	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	RCS filled and vented	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Wide Range Level > 60%	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AFW Available	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Steam Release Path (Yes if any of the following are Yes)	
	Yes	No	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	S.G. PORV OPEN or available
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MSIV OPEN and STM DUMP valve available
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MSIV Bypass OPEN and STM Dump Valve available

(0-1) _____

Total Points **"DECAY HEAT REMOVAL" (RCS)**

Total (0-4) _____

	JOB PERFORMANCE MEASURE (JPM)
---	-------------------------------

SITE: PRAIRIE ISLAND

JPM TITLE: DETERMINE PINGP 577 ERRORS ON INITIAL CLASSIFICATION

JPM NUMBER: ADMIN-106 REV. 0

RELATED PRA INFORMATION: NONE

TASK NUMBERS / TASK TITLE(S): SS 344 023 03 03 000 / DIRECT EMERGENCY RESPONSE FOR THE EMERGENCY DIRECTOR

K/A NUMBERS: 2.44.44 (2.4/4.6)

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: ☐ NLO ☐

Additional site-specific signatures may be added as desired.

Developed by:	Fredrick Collins	
	Developer	Date
Validated by:	Justin Hasner	
	Validator (See JPM Validation Checklist, Attachment 1)	Date
Approved by:	Shawn Sarrasin	
	Training Supervisor	Date

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-106, DETERMINE PINGP 577 ERRORS ON INITIAL CLASSIFICATION, REV. 0

(Modify text in Briefing/Turnover Box as necessary)

JPM BRIEFING/TURNOVER***Add required site specific JPM briefing material here: for example:***

This section is read once for the entire package of JPMs. It is not required to review this section for every JPM being performed in the package. The initial conditions and initiating cue(s)/tasks to be performed should be read and then provided to the examinee.

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.**INITIAL CONDITIONS:**

- You are the Unit 1 Shift Supervisor.
- Unit 1 has experienced a Large Break Loss of Coolant Accident
- A GENERAL EMERGENCY based on EAL FS1 has been declared due to Loss of RCS Barrier and Potential Loss of Containment Barrier.
- The Shift Manager has completed filling out the PINGP 577 for initial notification for FS1.

INITIATING CUES:

- Wind Speed – 11.0 MPH
- Wind Direction – 255°
- Stability Class – A
- The Shift Manager has tasked you with performing the independent verification of his completed PINGP 577.
 - Review the completed PINGP 577.
 - Determine if is suitable for delivery to the SEC return the form to the Shift Manager.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-106, DETERMINE PINGP 577 ERRORS ON INITIAL CLASSIFICATION, REV. 0**JPM PERFORMANCE INFORMATION**

Required Materials: Consumable copies of Attachment 5, PINGP 577 – Student
Consumable copies of PINGP 577 pages 2-9
PINGP 1576

General References: F3-2, Classification of Emergencies
PINGP 577, Rev. 60
PINGP 1576, Rev. 10

Task Standards: Determine errors exist in Blocks 4 (GE circled vice SAE), Block 5 (time/date/EAL# not filled in), and Block 8 (incorrect downwind sectors circled) of PINGP 577 and return the form to the Shift Manager for correction.

Start Time: _____

NOTE: When providing “Evaluator Cues” to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee’s actions warrant receiving the information (i.e., the examinee looks or asks for the indication).

IMPORTANT: Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM, per FP-T-SAT-73, Licensed Operator Requalification Program Examinations.

Performance Step:	Review completed PINGP 577.	
Critical <u>Y</u>		
Standard:	Examinee reviews PINGP 577 and determines the following errors exist: <ul style="list-style-type: none"> • Block 4: The incorrect declaration is circled. • Block 5: Time/Date/EAL# are not filled in • Block 8: The incorrect downwind sectors are circled. 	
Evaluator Note:	Errors are noted in RED on KEY with correct information with exception of time and date as the actual time/date are inconsequential.	
Evaluator Cue:	Provide examinee with Attachment 4, PINGP 577.	
Performance:	SATISFACTORY _____	UNSATISFACTORY _____
Comments:	_____	

Retention: Life of Plant

Retain in: Training Record

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ADMIN-106, DETERMINE PINGP 577 ERRORS ON INITIAL CLASSIFICATION, REV. 0

Performance Step: Critical <u>Y</u>	Determine if PINGP 577 is suitable for delivery to SEC and return the form to the Shift Manager.
Standard:	Examinee determines that the PINGP 577 CANNOT be delivered to the SEC as is without fixing the errors.
Evaluator Note:	The examinee marking the errors on the form or informing the evaluator of the errors is sufficient to complete this step.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Terminating Cues: When examinee has determined errors exist in Blocks 4 (GE circled vice SAE), Block 5 (time/date/EAL# not filled in), and Block 8 (incorrect downwind sectors circled) of PINGP 577 and returned the form to the Shift Manager for correction , then this JPM is complete.

Stop Time: _____

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-106, DETERMINE PINGP 577 ERRORS ON INITIAL CLASSIFICATION, REV. 0**ATTACHMENT 1****JOB PERFORMANCE MEASURE VALIDATION CHECKLIST**

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the cover page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Have all special tools and equipment needed to perform the task been identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. Are all references identified, current, and accurate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

All applicable questions must be answered "YES" or the JPM is not valid for use. If all applicable questions are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation sign and date this form.

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-106, DETERMINE PINGP 577 ERRORS ON INITIAL CLASSIFICATION, REV. 0

ATTACHMENT 2

PINGP 577, Rev 60
 Page 1 of 12
 Doc Type/Sub Type: N/A
 Retention: N/A

KEY

EMERGENCY NOTIFICATION REPORT FORM

1. REASON FOR CALL (A) Initial Report (B) Emergency Class Change (C) PAR Change (D) Release Status Change Only	
2. STATUS (A) ACTUAL EVENT (B) DRILL/EXERCISE	3. AFFECTED STATION (C) PRAIRIE ISLAND NUCLEAR GENERATING PLANT
4. ONSITE CLASSIFICATION (A) UNUSUAL EVENT (B) ALERT (C) SITE AREA EMERGENCY (D) GENERAL EMERGENCY (E) RECOVERY (F) TERMINATED	5. TIME & DATE OF CLASSIFICATION / PAR CHANGE / TERMINATION (A) CLASSIFICATION TIME <u>XXXX</u> DATE <u>XXXX</u> EAL # <u>FS1</u> (B) PAR CHANGE TIME <u> </u> DATE <u> </u> (C) TERMINATION TIME <u> </u> DATE <u> </u> (D) RELEASE STATUS CHANGE ONLY
6. EVENT RELEASE STATUS (A) NONE (B) OCCURRING (C) TERMINATED	7. TYPE OF RELEASE (A) NOT APPLICABLE (B) AIRBORNE (C) LIQUID
8. WIND DIRECTION (Use current 15 minute average and Table 1 to choose currently affected downwind Sectors, if < 5 mph all sectors are affected.) FROM <u>255</u> DEGREES DOWNWIND SECTORS: <u>A B C D E F G H J K L M N P Q R</u> (Circle currently affected sectors.)	9. WIND SPEED & STABILITY CLASS (Use current 15 minute average.) MILES/HR.: <u>11.0</u> STABILITY CLASS <u>A</u> B C D E F G unstable <= => stable
10. PRECAUTIONARY MEASURES and PROTECTIVE ACTION RECOMMENDATIONS (Use Table 1 to choose affected downwind Sectors and geopolitical Subareas.) (A) NONE (B) EVACUATE (or SHELTER) <u> </u> SECTORS OUT TO <u>2</u> MILES EVACUATE (or SHELTER) <u> </u> SECTORS FROM <u>2</u> MILES TO <u>5</u> MILES EVACUATE (or SHELTER) <u> </u> SECTORS FROM <u>5</u> MILES TO <u>10</u> MILES Affected SUBAREAS: (circle all that apply) <u>2 5N 5E 5S 5W 10NW 10N 10NE 10E 10SE 10SW 10W</u> AND PUBLIC IN THOSE AFFECTED SUBAREAS TAKE KI IF AVAILABLE; AND REMAINDER OF PLUME EPZ TO MONITOR RADIO/TV BROADCASTS FOR FURTHER INFORMATION. (Clarifying notes, if needed) (C) PRECAUTIONARY MEASURE FOR CASINO SHUTDOWN AND DISMISSAL OF STAFF AND PATRONS. (D) PRECAUTIONARY MEASURE TO ADVISE CASINO AND RESIDENTS WITHIN A 2 MILE RADIUS TO STAY INDOORS AND CONTINUE TO MONITOR RADIO/TV BROADCASTS FOR FURTHER INFORMATION. (E) OTHER: <u> </u>	
11. ADDITIONAL INFORMATION (Apply the EAL Gum Label or write the event descriptions based on the EAL. If PAR Change, write "None", "PAR Change" or other PAR information. If Release Status Change Only, specify time of change. If terminating, specify reason.) <u>FS1 – Loss or Potential Loss of ANY two Barriers.</u> <u> </u> <u> </u> <u> </u> <u> </u>	12. APPROVAL SIGNATURE <u>Jim Smith</u> EMERGENCY DIRECTOR/EMERGENCY MANAGER 12. EMERGENCY COMMUNICATOR (Print Name) <u> </u> (Circle or indicate the appropriate callback number.) • Control Room Callback (612) 330-6893 • TSC Callback (651) 388-1121 Ext. 4369 • Other Callback <u> </u> • Security Event SEC <u> </u> • EOF Callback (651) 388-1121 Ext. 5241 • Backup EOF Callback (612) 330-5753

**Italic words provide guidance for the person completing this form. See Directions for more guidance on completing form*

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ADMIN-106, DETERMINE PINGP 577 ERRORS ON INITIAL CLASSIFICATION, REV. 0**ATTACHMENT 3****JPM Number:** ADMIN-106**JPM Title:** DETERMINE PINGP 577 ERRORS ON INITIAL CLASSIFICATION**Examinee & ID:** _____**Evaluator:** _____**Job Title:** _____**Date:** _____**Start Time** _____**Finish Time** _____**PERFORMANCE RESULTS:****SAT:** **UNSAT:** **COMMENTS/FEEDBACK: (Make written comments for any steps graded unsatisfactory).****EVALUATOR'S SIGNATURE:** _____

NOTE: Only this page needs to be retained in examinee's record if completed satisfactorily. If unsatisfactory performance is demonstrated, the entire JPM should be retained.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ATTACHMENT 4

TURNOVER SHEET

INITIAL CONDITIONS:

- You are the Unit 1 Shift Supervisor.
- Unit 1 has experienced a Large Break Loss of Coolant Accident
- A GENERAL EMERGENCY based on EAL FS1 has been declared due to Loss of RCS Barrier and Potential Loss of Containment Barrier.

- The Shift Manager has completed filling out the PINGP 577 for initial notification for FS1.

INITIATING CUES:

- Wind Speed – 11.0 MPH
- Wind Direction – 255°
- Stability Class – A

- The Shift Manager has tasked you with performing the independent verification of his completed PINGP 577.
 - Review the completed PINGP 577.
 - Determine if is suitable for delivery to the SEC return the form to the Shift Manager.

Retention: Life of Plant

Retain in: Training Record

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ATTACHMENT 5

PINGP 577, Rev 60

Page 1 of 12

Doc Type/Sub Type: N/A

Retention: N/A

EMERGENCY NOTIFICATION REPORT FORM

1. REASON FOR CALL <input checked="" type="radio"/> [A] Initial Report <input type="radio"/> [B] Emergency Class Change <input type="radio"/> [C] PAR Change <input type="radio"/> [D] Release Status Change Only	
2. STATUS <input checked="" type="radio"/> [A] ACTUAL EVENT <input type="radio"/> [B] DRILL/EXERCISE	3. AFFECTED STATION <input checked="" type="radio"/> [C] PRAIRIE ISLAND NUCLEAR GENERATING PLANT
4. ONSITE CLASSIFICATION <input type="radio"/> [A] UNUSUAL EVENT <input type="radio"/> [B] ALERT <input checked="" type="radio"/> [C] SITE AREA EMERGENCY <input type="radio"/> [D] GENERAL EMERGENCY <input type="radio"/> [E] RECOVERY <input type="radio"/> [F] TERMINATED	5. TIME & DATE OF CLASSIFICATION / PAR CHANGE / TERMINATION <input checked="" type="radio"/> [A] CLASSIFICATION TIME _____ DATE _____ EAL # _____ <input type="radio"/> [B] PAR CHANGE TIME _____ DATE _____ <input type="radio"/> [C] TERMINATION TIME _____ DATE _____ <input type="radio"/> [D] RELEASE STATUS CHANGE ONLY
6. EVENT RELEASE STATUS <input checked="" type="radio"/> [A] NONE <input type="radio"/> [B] OCCURRING <input type="radio"/> [C] TERMINATED	7. TYPE OF RELEASE <input checked="" type="radio"/> [A] NOT APPLICABLE <input type="radio"/> [B] AIRBORNE <input type="radio"/> [C] LIQUID
8. WIND DIRECTION (Use current 15 minute average and Table 1 to choose currently affected downwind Sectors, if < 5 mph all sectors are affected.) FROM <u>255</u> DEGREES DOWNWIND SECTORS: <u>A B C D E F G H J K L M N P Q R</u> (Circle currently affected sectors.)	9. WIND SPEED & STABILITY CLASS (Use current 15 minute average.) MILES/HR.: <u>11.0</u> STABILITY CLASS <input checked="" type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D <input type="radio"/> E <input type="radio"/> F <input type="radio"/> G unstable <=> stable
10. PRECAUTIONARY MEASURES and PROTECTIVE ACTION RECOMMENDATIONS (Use Table 1 to choose affected downwind Sectors and geopolitical Subareas.) <input checked="" type="radio"/> [A] NONE <input type="radio"/> [B] EVACUATE (or SHELTER) _____ SECTORS OUT TO <u>2</u> MILES EVACUATE (or SHELTER) _____ SECTORS FROM <u>2</u> MILES TO <u>5</u> MILES EVACUATE (or SHELTER) _____ SECTORS FROM <u>5</u> MILES TO <u>10</u> MILES Affected SUBAREAS: (circle all that apply) <u>2 5N 5E 5S 5W 10NW 10N 10NE 10E 10SE 10SW 10W</u> AND PUBLIC IN THOSE AFFECTED SUBAREAS TAKE KI IF AVAILABLE; AND REMAINDER OF PLUME EPZ TO MONITOR RADIO/TV BROADCASTS FOR FURTHER INFORMATION. (Clarifying notes, if needed) _____ <input type="radio"/> [C] PRECAUTIONARY MEASURE FOR CASINO SHUTDOWN AND DISMISSAL OF STAFF AND PATRONS. <input type="radio"/> [D] PRECAUTIONARY MEASURE TO ADVISE CASINO AND RESIDENTS WITHIN A 2 MILE RADIUS TO STAY INDOORS AND CONTINUE TO MONITOR RADIO/TV BROADCASTS FOR FURTHER INFORMATION. <input type="radio"/> [E] OTHER: _____	
11. ADDITIONAL INFORMATION (Apply the EAL Gum Label or write the event descriptions based on the EAL. If PAR Change, write "None", "PAR Change" or other PAR information. If Release Status Change Only, specify time of change. If terminating, specify reason.) <u>FS1 – Loss or Potential Loss of ANY two Barriers.</u> _____ _____ _____ _____	12. APPROVAL SIGNATURE <u>Jim Smith</u> EMERGENCY DIRECTOR/EMERGENCY MANAGER 12. EMERGENCY COMMUNICATOR (Print Name) _____ (Circle or indicate the appropriate callback number.) • Control Room Callback (612) 330-6893 • TSC Callback (651) 388-1121 Ext. 4369 • Other Callback _____ • Security Event SEC _____ • EOF Callback (651) 388-1121 Ext. 5241 • Backup EOF Callback (612) 330-5753

*Italic words provide guidance for the person completing this form. See Directions for more guidance on completing form

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