NMC Committed to Nuclear Excellence	JOB PERFORMANCE MEASURE (JPM)

SITE: **PRAIRIE ISLAND**

JPM TITLE: **DETERMINE IMPACT OF FIRE OUTSIDE THE CONTROL ROOM**

JPM NUMBER: **ADMIN-14** **REV. 2**

RELATED PRA INFORMATION: **FIRE IN 715' AUXILIARY BUILDING**

TASK NUMBERS / TASK TITLE(S): **CRO 000 067 999 000**

K/A NUMBERS: **2.4.27**

APPLICABLE METHOD OF TESTING:

Discussion: [ ] Simulate/walkthrough: [X] Perform: [ ]

EVALUATION LOCATION: In-Plant: [ ] Control Room: [ ]

Simulator: [X] Other: [ ]

Lab: [ ]

Time for Completion: 20 Minutes Time Critical: NO

Alternate Path: NO

TASK APPLICABILITY: SRO: [X] RO: [X] NLO [ ]

Additional site-specific signatures may be added as desired.

Developed by:	**Bill Markham**	**03/14/07**
	Developer	Date
Validated by:	**Travis Ouret**	**5/8/07**
	Validator (See JPM Validation Checklist, Attachment 1)	Date
Approved by:		
	Training Supervisor	Date

ADMIN-14, DETERMINE IMPACT OF FIRE OUTSIDE THE CONTROL ROOM, REV. 2

JPM Number: ADMIN-14

JPM Title: DETERMINE IMPACT OF FIRE OUTSIDE THE CONTROL ROOM

Examinee: _____ **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.

ADMIN-14, DETERMINE IMPACT OF FIRE OUTSIDE THE CONTROL ROOM, REV. 2

JPM BRIEFING/TURNOVER
Use NUREG-1021, Appendix E, for JPM briefing

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 fire is occurring in a cable tray in the Unit 1 Auxiliary Building 715'. (Fire Zone 19/Fire Area 59)
- The Unit 1 Reactor has just been tripped per Shift Supervisor direction.
- Fire fighting efforts are underway per F5.
- The Unit 1 LPEO is carrying out the actions of C47022-0611, Fire Detection Panel 121 Fire Alarm.
- You are an extra operator in the control room.

INITIATING CUES (IF APPLICABLE):

- To determine the impact of the fire, the Unit 1 LPEO has directed you to PERFORM the actions of F5 Appendix D, for Fire Zone 19 (Fire Area 59), for Unit 1.

ADMIN-14, DETERMINE IMPACT OF FIRE OUTSIDE THE CONTROL ROOM, REV. 2

JPM PERFORMANCE INFORMATION

Required Materials: **F5 Appendix D**

General References: **F5 Appendix D**

Task Standards: **Make recommendations to Unit 1 SS IAW Unit 1 Area 59 instructions.**

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 (SEQ-1)**	Refer to F5 Appendix D, Step 2.1: When a fire is detected in a detection zone, refer to the zone and fire area description, affected equipment and alternative strategies. Using the information provided, determine the best course of action for a given fire.
Standard:	F5 Appendix D Step 2.1 referenced and examinee turns to Fire Zone 19, Fire area 59.
Evaluator Note:	Examinee may NOT read step 2.1 and go directly to Zone 19, Section 59. This is acceptable.
Evaluator Cue:	When asked, state "I am the Unit 1 SS, make your recommendations to me."
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

ADMIN-14, DETERMINE IMPACT OF FIRE OUTSIDE THE CONTROL ROOM, REV. 2

Performance Step: **Critical Y (SEQ-1)**	Unit 1 Fire Area 59, Step A. Check failure of Turbine Stop Valves to Auto Close (CV-31182 and CV-31183).
Standard:	Examinee should check the Turbine Stop Valves closed. When informed that they did not close, examinee should perform the RNO column and inform you that the Unit 1 turbine needs to be manually tripped from the Control Room.
Evaluator Cue:	**When asked, inform the examinee that the Turbine Stop Valves did NOT close.** **When the examinee tells you that the turbine needs to be tripped, inform the examinee that the turbine has been tripped from the Control Room panel push button.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical Y (SEQ-1)**	Unit 1 Fire Area 59, Step B Close MV-32195, 1 PRZR PORV ISOL A MV Close MV-32196, 1 PRZR PORV ISOL B MV Open BKR 112L-22 at MCC 1LA1-B3 Open BKR 122L-21 at MCC 1LA2-C3. Deenergize PNL 191 by opening breaker 18 at PNL 11. Deenergize PNL 162 by opening breaker 18 at PNL 16.
Standard:	Recommendation made to the Unit 1 SS to close BOTH PZR PORV Isolation Valves and turn off their breakers, and to deenergize PNL 191 and PNL 162.
Evaluator Cue:	**Inform the examinee that these actions will be taken.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

ADMIN-14, DETERMINE IMPACT OF FIRE OUTSIDE THE CONTROL ROOM, REV. 2

Performance Step: **Critical Y (SEQ-1)**	From Zone 19, Unit 1 – Fire Area 59, Step C. Check RCS Pressure NOT decreasing in an uncontrolled manner.
Standard:	Determine RCS pressure IS decreasing in an uncontrolled manner and recommend STOPPING 11 RCP and 12 RCP.
Evaluator Cue:	**When asked, inform the examinee that RCS pressure IS decreasing in an uncontrolled manner.** **When asked, acknowledge the request to STOP 11 and 12 RCP and inform the examinee that these actions will be taken.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Terminating Cues: **F5 Appendix D, Zone 19, Unit 1 – Steps A, B, and C complete. This JPM is complete.**

Stop Time: _____

TURNOVER SHEET

INITIAL CONDITIONS:

- A fire is occurring in a cable tray in the Unit 1 Auxiliary Building 715'. (Fire Zone 19/Fire Area 59)
- The Unit 1 Reactor has just been tripped per Shift Supervisor direction.
- Fire fighting efforts are underway per F5.
- The Unit 1 LPEO is carrying out the actions of C47022-0611, Fire Detection Panel 121 Fire Alarm.
- You are an extra operator in the control room.

INITIATING CUES (IF APPLICABLE):

- To determine the impact of the fire, the Unit 1 LPEO has directed you to PERFORM the actions of F5 Appendix D, for Fire Zone 19/Fire Area 59), for Unit 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?	☐	☐	
2. Has the JPM been reviewed and validated by SMEs?	☐	☐	☐
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	☐	☐	☐
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	☐	☐	
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?	☐	☐	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	☐	☐	☐
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	☐	☐	☐
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	☐	☐	☐
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	☐	☐	☐
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	☐	☐	
11. Have all special tools and equipment needed to perform the task been identified?	☐	☐	
12. Are all references identified, current, and accurate?	☐	☐	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	☐	☐	

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.

NMC Committed to Nuclear Excellence	JOB PERFORMANCE MEASURE (JPM)

SITE: **PRAIRIE ISLAND**

JPM TITLE: **TAKE ACTIONS FOR A FIRE DETECTOR OUT OF SERVICE**

JPM NUMBER: **ADMIN-7S** **REV.** **5**

RELATED PRA INFORMATION: **NONE**

TASK NUMBERS / TASK TITLE(S): **CRO 086 ATI 007**

K/A NUMBERS: **2.1.20**

APPLICABLE METHOD OF TESTING:

Discussion: [ ] Simulate/walkthrough: [ ] Perform: [x]

EVALUATION LOCATION: In-Plant: [ ] Control Room: [ ]

Simulator: [x] Other: [ ]

Lab: [ ]

Time for Completion: 20 Minutes Time Critical: NO

Alternate Path: NO

TASK APPLICABILITY: SRO: [ ] RO: [x] NLO [ ]

Additional site-specific signatures may be added as desired.

Developed by:	**Bill Markham**	**03/14/07**
	Developer	Date
Validated by:	**Travis Ouret**	**05/08/07**
	Validator (See JPM Validation Checklist, Attachment 1)	Date
Approved by:		
	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.

JPM Number: Admin-7S

JPM Title: Take Compensatory Actions for a Fire Detector out of Service

Examinee: _____ **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.

JPM BRIEFING/TURNOVER
Use NUREG-1021, Appendix E, for JPM briefing.

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 Lead.

INITIATING CUES (IF APPLICABLE):
- **47022-0611, FIRE DETECTION PANEL FP121 FIRE ALARM** was just received. Respond to the alarm.

JPM PERFORMANCE INFORMATION

Required Materials: None

General References: C47022-0611, ARP, Fire Detection Panel Alarm
C31, Fire Protection & Detection Systems
F5 Appendix K, Fire Detection and Protection Systems

Task Standards: Fire Protection Support Group notified. A Fire Watch MUST be directed to the area within 1 hour of detector failure.

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.

NOTE	Steps to take a fire detector OOS are in 3 procedures. There is some overlap of steps, example- calling the Fire Protection group, placing the zone in bypass, establishing a Fire Watch. These may be done in any logical order.

Performance Step: **Critical Y (SEQ-1)**	ARP 47022-0611 Step 1. **Determine** the affected Zone in alarm by observing the fire detection panels **FP121** thru **FP126** in the control room.
Standard:	Examinee determines Zone 1 is in alarm.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical (SEQ-1)**	ARP 47022-0611 Step 2. **Announce** over the plant page: "Turbine Building Operator, we have a fire alarm, call the Control Room"
Standard:	Examinee makes announcement over plant page system for the Turbine Building Operator.
Evaluator Cue:	**As the Turbine Building Operator, inform the examinee: "I will investigate the fire alarm."**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical (SEQ-1)**	ARP 47022-0611 Step 3. IF additional symptoms of a High Energy Line Break are present, THEN **refer** to F9, HIGH ENERGY LINE BREAK/ LEAK.
Standard:	Examinee determines that a High Energy Line Break do NOT exist from an absence of Control Board alarms and/or from contacting the Turbine Building Operator.
Evaluator Cue:	**If contacted as the Turbine Building Operator, state that you do NOT observe any indications of a High Energy Line Break.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical Y (SEQ-1)**	ARP 47022-0611 Step 4. WHEN the Turbine Building Operator(s) call in, THEN **inform** them of the affected area(s) of the plant including the zone numbers.
Standard:	Examinee informs Turbine Building Operator of the alarm in Zone 1.
Evaluator Cue:	**As the Turbine Building Operator, inform the examinee: "There is no fire, but Electricians who are working in the 11 Battery Room accidentally broke one ion fire detector."**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical (SEQ-1)**	ARP 47022-0611 Step 5. IF a malfunctioning detector causes the alarm, OR the alarm is valid, but there is no fire, THEN **go** to subsequent ACTIONS Step 2.
Standard:	Examinee goes to Subsequent Actions Step 2 of ARP 47022-0611.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical Y (SEQ-2)**	ARP 47022-0611 Subsequent Actions Step 2. IF the alarm is caused by a malfunctioning detector, OR the alarm is valid, but there is no fire, THEN: A. **Notify** the Fire Protection Support Group (x4959)
Standard:	Examinee informs Fire Protection Support Group of detector failure.
Evaluator Note:	**Do not allow the Examinee to make the call to 4959.**
Evaluator Cue:	**As the Fire Protection Support Group acknowledge the detector failure and inform the examinee that you will investigate and write a Work Order.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical (SEQ-2)**	ARP 47022-0611 Section 2, Step 2 IF the alarm is caused by a malfunctioning detector, OR the alarm is valid, but there is no fire, THEN: B. **Bypass** the affected zone(s) alarm per C31, FIRE PROTECTION AND DETECTION SYSTEMS.
Standard:	Examinee goes to C31 section 5.26.1
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step:	C31 section 5.26.1
Critical (SEQ-2)	A. **Notify** the Fire Protection Support Group of the Zone being removed from service (x4959)
Standard:	If the Fire Protection Group has NOT been notified, THEN notifies the Fire Protection Group and informs them of the detector being taken out of service.
Evaluator Cue:	**As the Fire Protection Group, acknowledge the bypassing of Zone 1 due to the broken detector.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step:	C31 section 5.26.1
Critical (SEQ-2)	B. **Refer** to F5 Appendix K, Section 4.1, Fire Detection and Instrumentation, for compensatory requirements.
Standard:	This is a SS step, no actions required.
Evaluator Note:	**This is a SS step**
Evaluator Cue:	**Inform the student that you will perform this step.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step:	C31 section 5.26.1
Critical Y (SEQ-3)	C. For the affected Zone, **Lift** the cover and **place** the toggle switch in the UP position.
Standard:	Examinee lifts the cover and places the toggle switch in the UP position for Zone 1.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical (SEQ-3)**	C31 section 5.26.1 D. **Place** a yellow "ZONE IN B-P" tag on the toggle switch for the affected zone.
Standard:	Examinee places a yellow "ZONE IN B-P" tag on the toggle switch for Zone 1.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical (SEQ-3)**	C31 section 5.26.1 E. **Log** the bypassed zone in the appropriate Reactor Log and Turnover Log.
Standard:	Examinee mentions to evaluator that logging is required for the zone in bypass in both the Reactor Log and the Turnover Log.
Evaluator Cue:	**Inform the examinee that the other operator will address logging.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical Y (SEQ-4)**	ARP 47022:0611 Subsequent Actions, Step 2.c C. Reset the Fire Detection Panel.
Standard:	If not already done in C31, examinee places Zone 1 in bypass and resets fire panel
Evaluator Note:	**Examinee resets the Fire Detection Panel and clears alarm 47022:0611.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical (SEQ-4)**	ARP 47022:-0611 Subsequent Actions, Step 3., IF it is necessary to place a zone in bypass due to a malfunctioning detector or other circuit problems, OR a valid alarm with no fire, AND the zone is safety related per F5 Appendix K, table 1, THEN **perform** the following: • Log the affected zone out of service in the appropriate R.O. Log. • Update The Shift Turnover Log.
Standard:	If not already done the logs will be updated
Evaluator Cue:	**The other operator will address the logging.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical (SEQ-4)**	C47022:-0611- Subsequent Actions, Step 3, continued. • **Establish** fire watch requirements per section 4.1, Fire Detection Instrumentation, AND 4.8, Penetration Fire Barriers, of F5 APPENDIX K.
Standard:	Examinee informs SS to establish a fire watch
Evaluator Cue:	Inform the examinee that the Fire Watch will be set.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Terminating Cues: **When the Fire Watch is established for Zone 1. This JPM is complete.**

Stop Time: _____

JPM SETUP INFORMATION

Instructor Actions Prior to JPM Administration:

- This JPM may be conducted at any stable IC and may be done in parallel with other JPM's.

Simulator Setup:

Insert the following

Relative Order	Type	Code	Severity/ Value	Event Trigger	TITLE
1	Remote Function	CH121	1		Fire Alarm Zone 1

TURNOVER SHEET

INITIAL CONDITIONS:

- You are the Unit 1 Lead.

INITIATING CUES (IF APPLICABLE):

- 47022-0611, FIRE DETECTION PANEL FP121 FIRE ALARM was just received. Respond to the alarm.

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?	☐	☐	
2. Has the JPM been reviewed and validated by SMEs?	☐	☐	☐
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	☐	☐	☐
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	☐	☐	
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?	☐	☐	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	☐	☐	☐
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	☐	☐	☐
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	☐	☐	☐
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	☐	☐	☐
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	☐	☐	
11. Have all special tools and equipment needed to perform the task been identified?	☐	☐	
12. Are all references identified, current, and accurate?	☐	☐	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	☐	☐	

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.

NMC Committed to Nuclear Excellence	JOB PERFORMANCE MEASURE (JPM)

SITE: **PRAIRIE ISLAND**

JPM TITLE: **PERFORM REACTOR COOLANT SYSTEM LEAKAGE INVESTIGATION**

JPM NUMBER: **ADMIN-40** **REV.** **0**

RELATED PRA INFORMATION: **NONE**

TASK NUMBERS / TASK TITLE(S): **CRO 002 999 00 00 000**

K/A NUMBERS: **2.2.12**

APPLICABLE METHOD OF TESTING:

Discussion: [ ] Simulate/walkthrough: [X] Perform: [ ]

EVALUATION LOCATION: In-Plant: [ ] Control Room: [ ]

Simulator: [X] Other: [X]

Lab: [ ]

Time for Completion: 20 Minutes Time Critical: NO

Alternate Path: NO

TASK APPLICABILITY: SRO: [X] RO: [X] NLO [ ]

Additional site-specific signatures may be added as desired.

Developed by:	**Bill Markham**	**03/7/07**
	Developer	Date
Validated by:	**Travis Ouret**	**05/09/07**
	Validator (See JPM Validation Checklist, Attachment 1)	Date
Approved by:		
	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.

JPM Number: ADMIN-40

JPM Title: PERFORM REACTOR COOLANT SYSTEM LEAKAGE INVESTIGATION

Examinee: _____ **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.

JPM BRIEFING/TURNOVER
Use NUREG-1021, Appendix E, for JPM briefing.

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 a Reactor Operator on the Relief Crew.
- SP1001AA, Daily Reactor Coolant System Leakage Test has just been completed.
- Unidentified Leakage is 0.70 gpm.

INITIATING CUES (IF APPLICABLE):
- The Shift Supervisor directs you to complete SP1001AAA, Reactor Coolant System Leakage Investigation.

JPM PERFORMANCE INFORMATION

Required Materials:	**SP1001AAA, Reactor Coolant System Leakage Investigation** **ERCS computer** **Calculator** **Unit 1 Tank Book**
General References:	**SP1001AAA, Reactor Coolant System Leakage Investigation, with 0.70 entered as RCS Unidentified Leakage from SP1001AA.**
Task Standards:	**Determine that 11 Letdown Heat Exchanger drain valve leaking is the cause of the elevated leak rate.**

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 (SEQ-1)**	**STEP 7.1.1 – Manually pump RCDT down to 12%.**
Standard:	**Level is at 12%.**
Evaluator Cue:	**When level indication is located, then inform examinee that the RCDT was just pumped down to 12%.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical (SEQ-1)**	**Step 7.1.2 Perform initial recording** • **Record initial RCDT level using ERCS (1L0150A).** • **Time initial RCDT level reading recorded.**
Standard:	**Examinee locates ERCS RCDT level and records level as 12% and records 54 gallons (50-60 gallons is the acceptable range) and the current time.**
Evaluator Cue:	**When student locates initial RCDT level on ERCS, inform them that level is 12%**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical (SEQ-1)**	**Step 7.2.1 If PRT level is greater than 72% then reduce level to less than 72%.**
Standard:	**Student should use ERCS indication at this time to determine level is 69%.**
Evaluator Note:	**Student should perform sections 7.1, 7.2, and 7.3 in parallel as per the note on the top of page 5 of 16.**
Evaluator Cue:	**If the examinee is not continuing after beginning section 7.1, then inform the examinee to continue with sections 7.2 and 7.3 per the note.** **Inform examinee that level in the PRT was just determined to be at 69%.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical (SEQ-1)**	**Perform initial recording per step 7.2.2:** • **Record initial PRT level using ERCS (1L0485A).** • **Time initial PRT level reading recorded.**
Standard:	**Examinee locates PRT ERCS level indication and records level and the time.**
Evaluator Cue:	**When PRT level indication is located, inform examinee that PRT level is 69% and using the Unit 1 Tank Book, records 4450 gallons. (4400-4500 is the acceptable range)**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical (SEQ-1)**	**Step 7.3.1, If NAST level is greater than 12%, then reduce level to 12%.**
Standard:	**Examinee should locate ERCS NAST level at this time and determine level to be 12%.**
Evaluator Cue:	**When NAST level is located, inform examinee than NAST level is 12%.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical (SEQ-1)**	**Perform initial recording per step 7.3.2** • **Record initial NAST level using ERCS point 1L3003A or call for local indication (LIC-1019A/B)** • **Time initial NAST level was recorded.**
Standard:	**Examinee locates ERCS indication and records 12% and the time.**
Evaluator Cue:	**When NAST indication is located, inform examinee that NAST level is 12%.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical (SEQ-1)**	**Step 7.1.3 and Step 7.3.3 Monitor RCDT and NAST level rise until one of the following occurs: One (1) hour period or level has increased to 45%.**
Standard:	**Examinee initials for one (1) hour period has elapsed.**
Evaluator Cue:	**Inform the examinee that 1 hour has elapsed.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical (SEQ-1)**	**Perform final recording for steps 7.1.4 and 7.3.4.**
Standard:	**Examinee records final values (RCDT 13% and NAST 28%) and records the elapsed time as 60 minutes in each case.**
Evaluator Note:	**Steps 7.1.3 and 7.1.4 require the examinee to monitor the level rise in the RCDT and the NAST for 1 hour or until level reaches a certain value. The PRT requires 2 hours and will not be recorded at this time.**
Evaluator Cue:	**When the examinee has initialed step 7.1.3 inform them that the final readings are:** **RCDT level = 13%** **NAST level = 28%**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical Y (SEQ-2)**	**Determine leakage rates into the RCDT for steps 7.1.4.**
Standard:	**Examinee determines the following leakage rates into the tanks:** **RCDT = An increase from 12 to 13% is approximately 3 gallons or .05 gpm. (accept 0.0 gpm to 0.08 gpm)**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical (SEQ-3)**	**Step 7.1.5 – If Step 7.1.4 indicates greater than or equal to 0.1 gpm into the RCDT, THEN perform Table 1. Otherwise N/A this step.**
Standard:	**Student N/A's this step.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical (SEQ-3)**	**Step 7.1.6– Record RCDT identified leakage rate on cover page.**
Standard:	**Student records 0.0 – 0.08 gpm on the cover page.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical Y (SEQ-2)**	**Step 7.3.4 – Student records final level and then calculates leakage rate into the NAST.**
Standard:	**Student determines that the NAST has the following change: An increase from 12 to 28% is 16% x 2.32 gals/% = 37.12 gallons / 60 minutes = .618 gpm. (accept .6 gpm to .62 gpm).**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical Y (SEQ-3)**	**Step 7.3.5 – If Step 7.3.4 indicates greater than or equal to 0.1 gpm into the NAST, THEN perform Table 3. Otherwise N/A this step.**
Standard:	**Examinee determines that performance of Table 3 is required.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical (SEQ-4)**	**Table 3 – Student calls the Auxiliary Building Operator to check items A and B.**
Standard:	**Examinee contacts Auxiliary Building Operator to walkdown items A-B.**
Evaluator Cue:	**Notify examinee as the Aux Building Operator that the Charging Pump drains are not leaking.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: Critical Y (SEQ-4)	**Table 3 – Student calls the Auxiliary Building Operator to check items C-U**
Standard:	**Examinee contacts Auxiliary Building Operator to walkdown items C-U. The 11 Letdown Heat Exchanger will be found with a drain valve open a half a turn which will be closed. NAST level will then be stable.**
Evaluator Cue:	**If asked, notify the examinee as the Shift Supervisor that the 11 Letdown Heat Exchanger was recently worked on.** **If asked to investigate the condition of the 11 Letdown Heat Exchanger, as the Aux Building Operator, notify the examinee that you found a drain valve to the NAST that was a half turn open and it has now been closed.** **If asked about the trend of NAST level, inform the examinee that NAST level is now stable.**
Performance:	**SATISFACTORY ☐ UNSATISFACTORY ☐**
Comments:	_____

Terminating Cues: **When student has performed Table 3, and you have informed him that the 11 Letdown Heat Exchanger is the source of the leakage, the JPM is complete.**

Stop Time: _____

TURNOVER SHEET

INITIAL CONDITIONS:

- You are a Reactor Operator on the Relief Crew.
- SP1001AA, Daily Reactor Coolant System Leakage Test has just been completed.
- Unidentified Leakage is 0.70 gpm.

INITIATING CUES (IF APPLICABLE):

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

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?	☐	☐	
2. Has the JPM been reviewed and validated by SMEs?	☐	☐	☐
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	☐	☐	☐
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	☐	☐	
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?	☐	☐	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	☐	☐	☐
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	☐	☐	☐
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	☐	☐	☐
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	☐	☐	☐
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	☐	☐	
11. Have all special tools and equipment needed to perform the task been identified?	☐	☐	
12. Are all references identified, current, and accurate?	☐	☐	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	☐	☐	

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.

NMC Committed to Nuclear Excellence	JOB PERFORMANCE MEASURE (JPM)

SITE: **PRAIRIE ISLAND**

JPM TITLE: **DETERMINE THE TIME TO BOILING DURING REDUCED INVENTORY OPERATIONS**

JPM NUMBER: **ADMIN-43** **REV.** **0**

RELATED PRA INFORMATION: **NONE**

TASK NUMBERS / TASK TITLE(S): **CRO 005 ATI 010**

K/A NUMBERS: **2.1.20**

APPLICABLE METHOD OF TESTING:

Discussion: [ ] Simulate/walkthrough: [ ] Perform: [X]

EVALUATION LOCATION: In-Plant: [ ] Control Room: [ ]

Simulator: [ ] Other: [X]

Lab: [ ]

Time for Completion: 10 Minutes Time Critical: NO

Alternate Path: NO

TASK APPLICABILITY: SRO: [X] RO: [X] NLO [ ]

Additional site-specific signatures may be added as desired.

Developed by:	**Bill Markham**	**4/7/07**
	Developer	Date
Validated by:	**Travis Ouret**	**5/8/07**
	Validator (See JPM Validation Checklist, Attachment 1)	Date
Approved by:		
	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-43, DETERMINE THE TIME TO BOILING DURING REDUCED INVENTORY OPERATIONS, REV. 0

JPM Number: ADMIN-43

JPM Title: DETERMINE THE TIME TO BOILING DURING REDUCED INVENTORY OPERATIONS

Examinee: _____ **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.

ADMIN-43, DETERMINE THE TIME TO BOILING DURING REDUCED INVENTORY OPERATIONS, REV. 0

JPM BRIEFING/TURNOVER
Use NUREG-1021, Appendix E, for JPM Briefing

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:

- It is November 19, 2006 at 1200.
- Unit 2 is in a refueling outage.
- During the shutdown, the Unit 2 Reactor was manually tripped on November 14 at 2000.
- Inventory Integrity is set.
- The crew is implementing 2C1.6, Shutdown Operations.
- Reactor Vessel level is 1 foot below the Reactor Vessel Flange.
- Maintenance has requested to have the personnel airlock open to move equipment. During the equipment movement, it will take 20 minutes to close the airlock.

INITIATING CUES (IF APPLICABLE):

- The Unit 1 SS directs you to:
  - Determine a current Time To Boiling in accordance with step 5.2.3 of 2C1.6.
  - Determine if Maintenance will be allowed to move equipment in accordance with C19.10, Containment Airlock Door Control At Shutdown, Limitation 4.3.

ADMIN-43, DETERMINE THE TIME TO BOILING DURING REDUCED INVENTORY OPERATIONS, REV. 0

JPM PERFORMANCE INFORMATION

Required Materials:	**2C1.6** **Figure C1-32.** **C19.10**
General References:	**2C1.6** **Figure C1-32.** **C19.10**
Task Standards:	**Determine time to boiling. Do NOT allow maintenance to move equipment.**

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 (SEQ-1)**	Perform Step 5.2.3 of 2C1.6 – Calculate the hours after trip required on Figure C1-32.
Standard:	Hours after trip is calculated to be 112 hours.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical Y (SEQ-1)**	Using Figure C1-32, determine the time to boiling.
Standard:	Determines time to boiling to be 13 to 14 minutes.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: Critical Y (SEQ-2)	Determine that Maintenance is NOT allowed to move equipment.
Standard:	Report that time to boiling is 13-14 minutes and airlock equipment closure is 20 minutes, thus Maintenance will NOT be allowed to move equipment
Evaluator Note:	**C19.10, Limitation 4.3 provides the basis for this decision.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Terminating Cue:	When candidate informs the SS of the current time to boiling, and that Maintenance should not be allowed to move equipment. This JPM is complete.

Stop Time: _____

TURNOVER SHEET

INITIAL CONDITIONS:

- It is November 19, 2006 at 1200.
- Unit 2 is in a refueling outage.
- During the shutdown, the Unit 2 Reactor was manually tripped on November 14 at 2000.
- Inventory Integrity is set.
- The crew is implementing 2C1.6, Shutdown Operations. Reactor Vessel level is 1 foot below the Reactor Vessel Flange.
- Maintenance has requested to have the personnel airlock open to move equipment. During the equipment movement, it will take 20 minutes to close the airlock.

INITIATING CUES (IF APPLICABLE):

- The Unit 1 SS directs you to:
  - Determine a current Time To Boiling in accordance with step 5.2.3 of 2C1.6.
  - Determine if Maintenance will be allowed to move equipment in accordance with C19.10, Containment Airlock Door Control At Shutdown, Limitation 4.3.

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?	☐	☐	
2. Has the JPM been reviewed and validated by SMEs?	☐	☐	☐
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	☐	☐	☐
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	☐	☐	
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?	☐	☐	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	☐	☐	☐
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	☐	☐	☐
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	☐	☐	☐
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	☐	☐	☐
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	☐	☐	
11. Have all special tools and equipment needed to perform the task been identified?	☐	☐	
12. Are all references identified, current, and accurate?	☐	☐	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	☐	☐	

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.

NMC Committed to Nuclear Excellence

JOB PERFORMANCE MEASURE (JPM)

SITE: **PRAIRIE ISLAND**

JPM TITLE: **AUTHORIZE EMERGENCY RADIATION EXPOSURE**

JPM NUMBER: **ADMIN-37** **REV.** **1**

RELATED PRA INFORMATION: **NONE**

TASK NUMBERS / TASK TITLE(S): **SS 344 023 03 03 000**

K/A NUMBERS: **2.3.4**

APPLICABLE METHOD OF TESTING:

Discussion: [ ] Simulate/walkthrough: [ ] Perform: [X]

EVALUATION LOCATION: In-Plant: [ ] Control Room: [ ]

Simulator: [ ] Other: [X]

Lab: [ ]

Time for Completion: 15 Minutes Time Critical: NO

Alternate Path: NO

TASK APPLICABILITY: SRO: [X] RO: [ ] NLO [ ]

Additional site-specific signatures may be added as desired.

Developed by:	**Bill Markham**	**3/14/07**
	Developer	Date
Validated by:	**Travis Ouret**	**05/08/07**
	Validator (See JPM Validation Checklist, Attachment 1)	Date
Approved by:		
	Training Supervisor	Date

ADMIN-37, AUTHORIZE EMERGENCY RADIATION EXPOSURE, REV. 1

JPM Number: ADMIN-37

JPM Title: AUTHORIZE EMERGENCY RADIATION EXPOSURE

Examinee: _____ **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.

ADMIN-37, AUTHORIZE EMERGENCY RADIATION EXPOSURE, REV. 1

JPM BRIEFING/TURNOVER
Use NUREG-1021, Appendix E, for JPM briefing.

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 Emergency Director.
- A Large Break LOCA is in progress in Unit 1.
- One operator and one Radiation Protection technician have volunteered to conduct a search and rescue operation for an operator who last called from the 695' level of Unit 2 containment.
- Dose rates in Containment range between 75 and 100 REM/hr.
- Each person is expected to receive a dose of 50 REM during the course of the rescue.
- The attached PINGP 600 is presented to you for approval.

INITIATING CUES (IF APPLICABLE):

- As Emergency Director, complete Part 1 of the PINGP 600, Emergency Exposure Authorization Form, for Mike Smith and John Jones in accordance with F3-12, Section 8.0.

ADMIN-37, AUTHORIZE EMERGENCY RADIATION EXPOSURE, REV. 1

JPM PERFORMANCE INFORMATION

Required Materials:	**PINGP 600, with the first 3 steps completed, for both Mike Smith and John Jones. Additionally, Page 2 is completed for each individual** **F3-12 Emergency Exposure Control** **F3-11, Search and Rescue**
General References:	**F3-12 Emergency Exposure Control** **F3-11 Search and Rescue**
Task Standards:	**Mike Smith is authorized to receive exposure, John Jones is NOT authorized to receive exposure.**

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 (SEQ-1)	**Verify neither person is a woman capable of reproduction.**
Standard:	**Step 4.1 marked initialed. If desired, the examinee might make a note that both workers are male.**
Evaluator Cue:	**IF asked, reply "both are male."**
Performance:	**SATISFACTORY ☐ UNSATISFACTORY ☐**
Comments:	_____

Performance Step: Critical Y (SEQ-1)	**Verify neither individual has received an emergency exposure before.**
Standard:	**Candidate determines Mike Smith has not had an emergency exposure and initials step 4.2** **Candidate determines John Jones HAS HAD an emergency exposure and discontinues PINGP 600.**
Evaluator Note:	**IF Candidate determines John Jones CANNOT be authorized, it is acceptable to not continue with his PINGP 600.**
Evaluator Cue:	**IF asked who has had an emergency exposure in the past, as the Radiation Protection Manager state "Mike Smith has not had an emergency exposure, but John Jones received a 71 REM emergency dose in 1991."** **IF directed to find someone else, state "I will find another volunteer."**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: Critical (SEQ-1)	**Verify dose rate in area is known/measurable.**
Standard:	**Refers to turnover sheet and determines that dose rates in containment are 75-100 Rem/hour and initials step 4.3.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: Critical (SEQ-1)	**Verify individual is a radiation worker or professional rescue person.**
Standard:	**Based on initial conditions, initials step 4.4.**
Evaluator Cue:	**IF asked, reply "Personnel are qualified radiation workers."**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

ADMIN-37, AUTHORIZE EMERGENCY RADIATION EXPOSURE, REV. 1

Performance Step: **Critical (SEQ-1)**	**Verify individual is broadly familiar with radiological consequences of exposure.**
Standard:	**Initials step 4.5 based on page 2 of PINGP 600 is completed and signed.**
Evaluator Cue:	**IF asked, reply "Personnel are familiar with the consequences of the exposure."**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical (SEQ-1)**	**Recognizes exposure not due to protection of property or medical/decontamination.**
Standard:	**Refers to initial conditions and determines that this is a lifesaving mission and initials 4.6.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical Y (SEQ-1)**	**Determines expected dose is to save Human Life and verifies both are volunteers.**
Standard:	**Refers to initial conditions and statement on Page 2 they are volunteers. Checks 4.7, 4.7.1 and 4.7.3, marks 4.7.2 N/A or blank**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: Critical (SEQ-1)	**Determines Authorized Limit**
Standard:	**Determines that authorized limit is 50 rem per individual.**
Evaluator Cue:	**If asked, state that plant management has required that the authorized limit will be 50 rem per individual.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: Critical Y (SEQ-1)	**Authorizes emergency exposure for Mike Smith ONLY.**
Standard:	**PINGP 600 for Mike Smith is signed by the ED on Page 1.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Terminating Cues: **When both PINGP 600's are returned to the evaluator. This JPM is Complete.**

Stop Time: _____

TURNOVER SHEET

INITIAL CONDITIONS:

- You are the Emergency Director.
- A Large Break LOCA is in progress in Unit 1.
- One operator and one Radiation Protection technician have volunteered to conduct a search and rescue operation for an operator who last called from the 695' level of Unit 2 containment.
- Dose rates in Containment range between 75 and 100 REM/hr.
- Each person is expected to receive a dose of 50 REM during the course of the rescue.
- The attached PINGP 600 is presented to you for approval.

INITIATING CUES (IF APPLICABLE):

- As Emergency Director, complete Part 1 of the PINGP 600, Emergency Exposure Authorization Form, for Mike Smith and John Jones in accordance with F3-12, Section 8.0.

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?	☐	☐	
2. Has the JPM been reviewed and validated by SMEs?	☐	☐	☐
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	☐	☐	☐
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	☐	☐	
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?	☐	☐	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	☐	☐	☐
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	☐	☐	☐
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	☐	☐	☐
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	☐	☐	☐
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	☐	☐	
11. Have all special tools and equipment needed to perform the task been identified?	☐	☐	
12. Are all references identified, current, and accurate?	☐	☐	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	☐	☐	

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.

NMC Committed to Nuclear Excellence

JOB PERFORMANCE MEASURE (JPM)

SITE: **PRAIRIE ISLAND**

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

JPM NUMBER: **ADMIN-41** **REV.** **0**

RELATED PRA INFORMATION: **NONE**

TASK NUMBERS / TASK TITLE(S): **SS 344 023 03 03 000**

K/A NUMBERS: **2.4.41**

APPLICABLE METHOD OF TESTING:

Discussion: [ ] Simulate/walkthrough: [ ] Perform: [X]

EVALUATION LOCATION: In-Plant: [ ] Control Room: [ ]

Simulator: [ ] Other: [X]

Lab: [ ]

Time for Completion: 15 Minutes Time Critical: YES

Alternate Path: NO

TASK APPLICABILITY: SRO: [X] RO: [ ] NLO [ ]

Additional site-specific signatures may be added as desired.

Developed by:	**Bill Markham**	**3/7/07**
	Developer	Date
Validated by:	**Travis Ouret**	**5/8/07**
	Validator (See JPM Validation Checklist, Attachment 1)	Date
Approved by:		
	Training Supervisor	Date

EMERGENCY CLASSIFICATION OF A SECURITY EVENT, REV. 0

JPM Number: ADMIN-41

JPM Title: EMERGENCY CLASSIFICATION OF A SECURITY EVENT

Examinee: _____ **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.

EMERGENCY CLASSIFICATION OF A SECURITY EVENT, REV. 0

JPM BRIEFING/TURNOVER
Use NUREG-1021, Appendix E, for JPM Briefing.

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
- Both Units are at 100% power.
- Security has just informed you that a hostile force has entered the plant and barricaded themselves in the Auxiliary Feedwater Pump room.

INITIATING CUES (IF APPLICABLE):

- You are directed to classify this event per F3-2, Classifications of Emergencies, AND deliver the completed PINGP 577 to the SEC for communication.
- This JPM is time critical.

NOTE: RECORD THE START TIME ON THE NEXT PAGE AS THE TIME WHEN THE STUDENT TELLS YOU HE IS READY TO BEGIN. AT THE BOTTOM OF STEP 1, RECORD THE TIME WHEN STEP 1 IS COMPLETE AND THE ELAPSED TIME. TO BE SATISFACTORY, THIS STEP MUST BE COMPLETED IN LESS THAN 15 MINUTES.

EMERGENCY CLASSIFICATION OF A SECURITY EVENT, REV. 0

JPM PERFORMANCE INFORMATION

Required Materials:	**F3-2, Classifications of Emergencies** **Classification Wall Chart** **Gum Labels for all examinees** **PINGP 577, Emergency Notification Report Form**
General References:	**F3-2, Classifications of Emergencies** **PINGP 577, Emergency Notification Report Form** **Classification Wall Chart**
Task Standards:	**Classify this event as a General Emergency (EAL HG1.1)** **Issue PARS to EVACUATE a 5 mile radius.** **Provide PINGP 577 to the SEC for communication.**

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 (SEQ-1)** **NOTE: The Critical Steps are to classify as General Emergency, and to Evacuate all sectors out to 5 miles.**	**Fills out PINGP 577 as follows:** • **Circle 1. [A] Initial Report** • **Circle 2. [B] Drill/Exercise** • **[C] Prairie Island Nuclear Generating Plant is PRE-CIRCLED.** • **Circle 4. [D] General Emergency** • **5.[A] Fill in the proper date, time and EAL HG1.1** • **Circle 6. [A] None** • **Circle 7. [A] Not Applicable** • **Complete 8. From 258 degrees.** • **Complete 8. Downwind Sectors CIRCLE ALL LETTERS** • **Complete 9. miles/hr: 2** • **Complete 9. Stability Class F** • **10[B] - Complete EVACUATE ALL SECTORS OUT TO 2 MILES** • **10[B] - Complete EVACUATE ALL SECTORS OUT TO 5 MILES.** • **Circle Subareas 2, 5N, 5E, 5S, 5W.** • **Complete 11. EAL HG1.1 with sticker.** • **Complete approval signature.**
Standard:	**Form is properly completed as indicated above.**
Evaluator Note:	**The time critical portion of this JPM begins when the examinee reviews the turnover information and tells the examiner that he is ready to begin. The student has 15 minutes to correctly classify and recommend PARs.**
Evaluator Note:	**On 5. Time, the examinee may fill in much of the information prior to completing the time. If the examinee makes a statement that he is declaring EAL HG1.1, this should be the time that is written on 5. Otherwise, the student may write the time down at any time after they are sure of the correct classification.**
Evaluator Cue:	**When asked, Wind Direction is 258°, 2 miles/hr.** **When asked, Stability Class is F**
Performance:	**SATISFACTORY ☐ UNSATISFACTORY ☐**
Comments:	**TIME WHEN THIS STEP IS COMPLETE_____** **TOTAL ELAPSED TIME_____**

Performance Step: Critical (SEQ-2)	**Deliver the completed PINGP 577 to the SEC for communication.**
Standard:	**The SEC has obtained the form and will make communications to state and local authorities within 15 minutes.**
Evaluator Note:	**The SEC has 15 minutes from the time written on PINGP 577 Number 5 to make notifications to state and local authorities. The examinee should provide the form to the SEC within 15 minutes of the time stated on the PINGP 577.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

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

Stop Time: _____

TURNOVER SHEET

INITIAL CONDITIONS:

- You are the Unit 2 Shift Supervisor
- Both Units are at 100% power.
- Security has just informed you that a hostile force has entered the plant and barricaded themselves in the Auxiliary Feedwater Pump room.

INITIATING CUES (IF APPLICABLE):

- You are directed to classify this event per F3-2, Classifications of Emergencies, AND deliver the completed PINGP 577 to the SEC for communication.
- This JPM is time critical.

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?	☐	☐	
2. Has the JPM been reviewed and validated by SMEs?	☐	☐	☐
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	☐	☐	☐
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	☐	☐	
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?	☐	☐	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	☐	☐	☐
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	☐	☐	☐
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	☐	☐	☐
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	☐	☐	☐
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	☐	☐	
11. Have all special tools and equipment needed to perform the task been identified?	☐	☐	
12. Are all references identified, current, and accurate?	☐	☐	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	☐	☐	

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.

NMC Committed to Nuclear Excellence	JOB PERFORMANCE MEASURE (JPM)

SITE: **PRAIRIE ISLAND**

JPM TITLE: **ASSESS SHIFT STAFFING LEVELS**

JPM NUMBER: **ADMIN-42** **REV.** **0**

RELATED PRA INFORMATION: **NONE**

TASK NUMBERS / TASK TITLE(S): **SS 343 ATI 009**

K/A NUMBERS: **2.1.4**

APPLICABLE METHOD OF TESTING:

Discussion: [ ] Simulate/walkthrough: [ ] Perform: [X]

EVALUATION LOCATION: In-Plant: [ ] Control Room: [ ]

Simulator: [ ] Other: [X]

Lab: [ ]

Time for Completion: 10 Minutes Time Critical: NO

Alternate Path: NO

TASK APPLICABILITY: SRO: [X] RO: [ ] NLO [ ]

Additional site-specific signatures may be added as desired.

Developed by:	**Bill Markham**	**03/27/07**
	Developer	Date
Validated by:	**Travis Ouret**	**05/08/07**
	Validator (See JPM Validation Checklist, Attachment 1)	Date
Approved by:		
	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.

ASSESS SHIFT STAFFING LEVELS, REV. 0

JPM Number: ADMIN-42

JPM Title: ASSESS SHIFT STAFFING LEVELS

Examinee: _____ **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.

ASSESS SHIFT STAFFING LEVELS, REV. 0

JPM BRIEFING/TURNOVER
Use NUREG-1021, Appendix E, for JPM Briefing

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 2300.
- Currently on site, there are
  - 2 Shift Supervisors.
  - 4 Licensed Reactor Operators
  - 8 Non-licensed Operators
  - 1 Shift Technical Advisor
  - 1 Shift Manager
  - 1 Shift Chemist

- The Unit 1 Shift Supervisor receives a phone call from the State Police stating that his wife has been in a car accident and is being transported by ambulance to the Fairview Red Wing Hospital.
- The Unit 1 Shift Supervisor requests permission to immediately leave the site to be with his children at the hospital.

INITIATING CUES (IF APPLICABLE):

- Determine the following using SWI O-2, Shift Organization, Operation, and Turnover:
  - Can the Unit 1 Shift Supervisor immediately leave the site?
  - If so, what actions must be taken?

ASSESS SHIFT STAFFING LEVELS, REV. 0

JPM PERFORMANCE INFORMATION

Required Materials: **SWI O-2, Shift Organization, Operation, and Turnover**

General References: **SWI O-2, Shift Organization, Operation, and Turnover**

Task Standards: **Student has determined that the Unit 1 Shift Supervisor may leave the site for this emergency. The student shall comply with the requirements of Table 1, and Note 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: Critical Y (SEQ-1)	Determine that the Unit 1 Shift Supervisor can leave the site immediately.
Standard:	Examinee determines that the Unit 1 Shift Supervisor may leave the site using the guidance of Table 1, Minimum Shift Staffing, and Note 1, on page 26.
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Performance Step: Critical Y (SEQ-1)	Determine that Minimum Shift Staffing falls below the requirements of Table 1, for both units in Modes 1,2,3,4.
Standard:	Student determines that 2 Licensed Senior Operators are required for both units in Modes 1,2,3,4.
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

ASSESS SHIFT STAFFING LEVELS, REV. 0

Performance Step: Critical Y (SEQ-1)	Determine that the crew may be less than the minimum requirements of Table 1 for a period of time not to exceed two hours provided immediate action is taken to restore the shift crew composition to within the minimum requirements specified.
Standard:	Examinee determines that the crew is less than the minimum requirements and that immediate action needs to be taken to restore crew composition.
Performance:	**SATISFACTORY** _____ **UNSATISFACTORY** _____
Comments:	_____

Terminating Cues: **When the Unit 2 Shift Supervisor has correctly assessed the situation and allowed the Unit 1 Shift Supervisor to immediately leave site, immediately took actions to restore the crew composition, determined that this condition can exist for no more than 2 hours. This JPM is complete.**

Stop Time: _____

TURNOVER SHEET

INITIAL CONDITIONS:

- You are the Unit 2 Shift Supervisor.
- Unit 1 and 2 are both at 100% power.
- It is Saturday at 2300.
- Currently on site, there are
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- The Unit 1 Shift Supervisor receives a phone call from the State Police stating that his wife has been in a car accident and is being transported by ambulance to the Fairview Red Wing Hospital.
- The Unit 1 Shift Supervisor requests permission to immediately leave the site to be with his children at the hospital.

INITIATING CUES (IF APPLICABLE):

- Determine the following using SWI O-2, Shift Organization, Operation, and Turnover:
  - Can the Unit 1 Shift Supervisor immediately leave the site?
  - If so, what actions must be taken?

ATTACHMENT 1

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	☐	☐	☐
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11. Have all special tools and equipment needed to perform the task been identified?	☐	☐	
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_____ _____
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_____ _____
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.