NMC Committed to Nuclear Excellence	JOB PERFORMANCE MEASURE (JPM)

SITE: **Prairie Island**

JPM TITLE: **F5 Appendix B, Attachment M - Determine Maximum RCS Venting Time**

JPM NUMBER: ADMIN-10 **REV.** **2**

RELATED PRA INFORMATION: **PRA Identified Task**

TASK NUMBERS / TASK TITLE(S): CRO 000.ATI.008

K/A NUMBERS: 2.1.23

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 / Faulted: NO

TASK APPLICABILITY: **SRO, RO**

Developed by:	**Travis Ouret**	**3/3/05**
	Instructor	Date
Validated by:	John Kempkes	5/5/05
	Validation Instructor	Date
Approved by:		
	Training Supervisor	Date

JPM Number: ADMIN-10

JPM Title: F5 APPENDIX B, ATTACHMENT M - DETERMINE MAXIMUM RCS VENTING TIME

Examinee: _____ **Evaluator:** _____

Job Title: _____ **Date:** _____

Start Time _____ **Finish Time** _____

PERFORMANCE RESULTS: **SAT:** ☐ **UNSAT:** ☐

COMMENTS/FEEDBACK: (Comments shall be made 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
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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:

- The Control Room has been evacuated due to a fire.
- Both Units are being cooled down to Cold Shutdown in accordance with F5 Appendix B.
- Attachment M has been implemented for Unit 2 due to the presence of voids in the Reactor Vessel.
- The following conditions exist on Unit 2:
  - Containment Temperature is 90°F
  - Containment Hydrogen Concentration is 0%
  - RCS Pressure is 1750psig

INITIATING CUES (IF APPLICABLE):

- The Unit 2 SS directs you to determine the Maximum RCS Venting Time per F5 Appendix B, Attachment M, Page 3 and report back to the SS.

JPM PERFORMANCE INFORMATION

Required Materials: **Copy of F5 Appendix B, Attachment M, Page 3**
Copy of F5 Appendix B, Figure 8
Calculator

General References: **F5 Appendix B**

Task Standards: **Maximum RCS venting time calculated to be 12.2 minutes, ±2%. (12.0 minutes to 12.41 minutes).**

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).

NOTE: 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.

Performance Step: **Critical N**	Determine containment temperature (T) in Degrees F.
Standard:	Containment temperature determined to be 90°F.
Evaluator Note:	**This is information is given in the Initial Conditions.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical Y**	CALCULATE CONTAINMENT VOLUME AT STANDARD TEMPERATURE AND PRESSURE. **Vcont = 1.32 x 10^6 x [492/(T + 460)]**
Standard:	Containment volume calculated to be 1.18 x 10^6
Evaluator Note:	**A common error is to divide 492 by 90°F before adding 460°F. This step is adjusting for actual containment volume from designed volume using absolute 0 as the reference.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical N**	DETERMINE CONTAINMENT HYDROGEN CONCENTRATION (%).
Standard:	Containment hydrogen determined to be 0%.
Evaluator Note:	**This is information is given in the Initial Conditions.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical Y**	CALCULATE MAXIMUM HYDROGEN VOLUME THAT CAN BE VENTED. Vmax = [(3% - CONC%)/100%] X Vcont
Standard:	Calculated maximum hydrogen volume calculated to be 35,424scfm (Range of 35,400scfm to 36,000scfm is acceptable)
Evaluator Note:	**Examinee may round value to $1.2x10^6$ or $1.18x10^6$. This accounts for the 2% margin for error in the standard.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical Y**	DETERMINE HYDROGEN FLOW RATE (W) USING Figure 8.
Standard:	Determines flow rate to be 2900 scfm.
Evaluator Note:	**No tolerance is given on this value as the given RCS pressure of 1750 psig is a line on the "y" axis and intersects the graph right on the "x" axis line for 2900 scfm.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical Y**	CALCULATE MAXIMUM VENTING TIME, Tmax = Vmax/W Tmax = THE MAXIMUM VENTING TIME. Vmax = MAXIMUM HYDROGEN VOLUME THAT SHOULD BE VENTED AS CALCULATED. W = HYDROGEN FLOWRATE AS CALCULATED.
Standard:	Calculates and reports max venting time to be 12.2 minutes (12 minutes- 12.41 minutes acceptable)
Evaluator Note:	**Depending on what value the examinee used above the venting time will vary.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Terminating Cues: **When Candidate reports maximum venting time, This JPM is Complete.**

Stop Time: _____

TURNOVER SHEET

INITIAL CONDITIONS:

- The Control Room has been evacuated due to a fire.
- Both Units are being cooled down to Cold Shutdown in accordance with F5 Appendix B.
- Attachment M has been implemented for Unit 2 due to the presence of voids in the Reactor Vessel.
- The following conditions exist on Unit 2:
  - Containment Temperature is 90°F
  - Containment Hydrogen Concentration is 0%
  - RCS Pressure is 1750psig

INITIATING CUES (IF APPLICABLE):

- The Unit 2 SS directs you to determine the Maximum RCS Venting Time per F5 Appendix B, Attachment M, Page 3 and report back to the SS.

NMC Committed to Nuclear Excellence	JOB PERFORMANCE MEASURE (JPM)

SITE: **Prairie Island**

JPM TITLE: ESTABLISH APPROPRIATE HIGH FLUX AT SHUTDOWN SETPOINT

JPM NUMBER: ADMIN 5S **REV.** **3**

RELATED PRA INFORMATION: **None**

TASK NUMBERS / TASK TITLE(S): CRO 341.014.03.03

K/A NUMBERS: 2.1.23

APPLICABLE METHOD OF TESTING:

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

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

Simulator: [X] Other: [ ]

Lab: [ ]

Time for Completion: 7 Minutes Time Critical: NO

Alternate Path / Faulted: NO

TASK APPLICABILITY: **SRO, RO**

Developed by:	**Travis Ouret**	**10/13/04**
	Instructor	Date
Validated by:	J. Kempkes	5/5/05
	Validation Instructor	Date
Approved by:		
	Training Supervisor	Date

JPM Number: Admin 5S

JPM Title: ESTABLISH APPROPRIATE HIGH FLUX AT SHUTDOWN SETPOINT

Examinee: _____ **Evaluator:** _____

Job Title: _____ **Date:** _____

Start Time _____ **Finish Time** _____

PERFORMANCE RESULTS: **SAT:** ☐ **UNSAT:** ☐

COMMENTS/FEEDBACK: (Comments shall be made 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
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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 burnup is at 16625 MWD/MTU and boron concentration is 650 ppm.
- Unit 1 reactor shutdown is in progress as per 1C1.3 to repair a steam leak on 11 MSR. It is anticipated that the repairs will take less than 2 days.
- All rods have been inserted by opening the reactor trip breakers.
- A stable shutdown count rate has been reached, as follows:
  N31 background reading is 500 cps
  N32 background reading is 500 cps.

INITIATING CUES (IF APPLICABLE):

- The SS directs you to Establish Appropriate High Flux at Shutdown Setpoints per 1C1.3 step 5.1.21.K.

JPM PERFORMANCE INFORMATION

Required Materials: **None**

General References: **1C1.3**

Task Standards: High Flux at Shutdown set for 10 times background and placed in operation.

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).

NOTE: 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.

Performance Step: **Critical N**	At the NIS rack, the Candidate turns on the timer scaler
Standard:	Timer scaler turned on
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical Y (SEQ-1)**	Notify I&C to adjust the HIGH FLUX AT SHUTDOWN alarm setpoint.
Standard:	Directs I&C to adjust HIGH FLUX AT SHUTDOWN alarm setpoint between 9-11 times background.
Evaluator Cue:	**When directed, report that the HIGH FLUX AT SHUTDOWN setpoint has been set to the directed setpoint on both N31 and N32.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical N**	Record the setpoint on the source range drawers.
Standard:	5000 cps recorded on placard on N31 and N32 SR drawers.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical Y (SEQ-2)**	Place the rack mounted HIGH FLUX AT SHUTDOWN alarm in NORMAL.
Standard:	HIGH FLUX AT SHUTDOWN switch placed in NORMAL for N31 and N32.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical Y (SEQ-2)**	Place the panel mounted HIGH FLUX AT SHUTDOWN alarm in AUTO.
Standard:	HIGH FLUX AT SHUTDOWN switch placed in AUTO.
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Terminating Cues: After the HIGH FLUX AT SHUTDOWN switch at the deluge panel is placed in AUTO, This JPM is complete.

Stop Time: _____

SIMULATOR SETUP

INSTRUCTOR GUIDE:

- Initialize the simulator to IC-5.
- Open the Reactor Trip Breakers.
- Erase the current value on the high flux at shutdown placard.
- Place both High Flux at Shutdown switches for N31 and N32 to BLOCK.
- Ensure the Deluge panel switch (High Flux at Shutdown) is in OFF.
- Verify the Timer Scaler is OFF.
- Adjust RCS boron concentration to adjust N31 and N32 counts to approximately 500 cpm, currently Boron concentration is 1920 ppm.

Note: Turn the Scaler Timer power OFF at the end of the JPM.

TURNOVER SHEET

INITIAL CONDITIONS:

- Unit 1 burnup is at 16625 MWD/MTU and boron concentration is 650 ppm.
- Unit 1 reactor shutdown is in progress as per 1C1.3 to repair a steam leak on 11 MSR. It is anticipated that the repairs will take less than 2 days.
- All rods have been inserted by opening the reactor trip breakers.
- A stable shutdown count rate has been reached, as follows:
  N31 background reading is 500 cps
  N32 background reading is 500 cps.

INITIATING CUES (IF APPLICABLE):

- The SS directs you to Establish Appropriate High Flux at Shutdown Setpoints per 1C1.3 step 5.1.21.K.

NMC Committed to Nuclear Excellence	JOB PERFORMANCE MEASURE (JPM)

SITE: **Prairie Island**

JPM TITLE: PERFORM THE SHIFT REFUELING CHECKLIST

JPM NUMBER: FH-3S **REV.** **0**

RELATED PRA INFORMATION: **None**

TASK NUMBERS / TASK TITLE(S): CRO 034.ATI.014

K/A NUMBERS: 2.2.26

APPLICABLE METHOD OF TESTING:

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

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

Simulator: [X] Other: [ ]

Lab: [ ]

Time for Completion: 15 Minutes Time Critical: NO

Alternate Path / Faulted: NO

TASK APPLICABILITY: **SRO, RO**

Developed by:	**Travis Ouret**	**2/24/05**
	Instructor	Date
Validated by:	J. Kempkes	5/5/05
	Validation Instructor	Date
Approved by:		
	Training Supervisor	Date

JPM Number: FH-3S

JPM Title: PERFORM THE SHIFT REFUELING CHECKLIST

Examinee: _____ **Evaluator:** _____

Job Title: _____ **Date:** _____

Start Time _____ **Finish Time** _____

PERFORMANCE RESULTS: **SAT:** ☐ **UNSAT:** ☐

COMMENTS/FEEDBACK: (Comments shall be made for any steps graded unsatisfactory).

EVALUATOR'S SIGNATURE: _____

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

INITIAL CONDITIONS:

- Unit 1 is in Mode 3.
- New Fuel is scheduled to be unloaded and placed in the New Fuel Pool beginning one hour from now.
- Outplant portions of the checklist have been completed and signed.
- You are an extra Operator.

INITIATING CUES (IF APPLICABLE):

- You have been directed to perform D5.1 Table 2, Shift Checklist, for new fuel handling in the Spent Fuel Pool.

JPM PERFORMANCE INFORMATION

Required Materials: **D5.1 Table 2 Shift Checklist**

General References: **D5.1 Spent Fuel Pit Fuel Handling Operation**

Task Standards: **Checklist completed or actions required reported for applicable control room steps**

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).

NOTE: 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.

Performance Step: 1 **Critical N**	**Verify Spent Fuel Pool boron concentration is >= 1800 ppm.**
Standard:	**Boron concentration verified to be 2322 ppm by any of the following:** **- Checking status board on control board** **- Asking the SS for the results from the Daily Chemistry Report** **- Simulating an autolog search for "SFP boron"**
Evaluator Cue:	**If asked, the status board is updated with current Boron Concentration.** **If asked, Autolog Boron Concentration is on the status board.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: 2 **Critical N**	**Verify SFP water level is >=23 ft above the fuel.**
Standard:	**Checks alarm window 47016:0101 121 SPENT FUEL PIT LO LVL is NOT lit. (Setpoint of 752'6" corresponds to 23 ft above top of fuel).** **or** **IF local check directed, report "SFP Level is 754' 4"**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: 3 **Critical Y**	**Verify Spent Fuel Pool Normal exhaust fan is in service.**
Standard:	**Determines fan is NOT running and starts fan per C37.2 steps 5.1.1.A-C.**
Evaluator Cue:	**If asked, Prestart checklist C37.2-1 is COMPLETED and approved (5.1.1.A)** **Critical Task is met if the SFP Normal Exhaust Fan is STARTED** **When notified, acknowledge as Duty Chemist that SFP ventilation is being started.** **If asked, SFP Special Vent is NOT logged Out of Service** **If directed, Aux Building Operator reports step E and F are complete.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: 4 **Critical N**	**Verify radiation monitor R-28 is OPERABLE.**
Standard:	**R-28 locally checked to be operating properly.**
Evaluator Cue:	**R-28 verified to be powered, not in alarm and indicating onscale.** **IF asked, report "R-28 is not in the Out of Service log."**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: 5 **Critical Y**	**Verify radiation monitor R-5 or portable ARM is OPERABLE.**
Standard:	**Determines R-5 is OOS from sign on radiation monitor / fuses are pulled. Notifies SS that R-5 must be returned to OPERABLE or portable radiation monitor installed prior to fuel handling.**
Evaluator Cue:	**If asked, the portable Rad Monitor is NOT installed.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Terminating Cues: **When SS informed that Shift Checklist is complete with exceptions of step 5.**

Stop Time: _____

SIMULATOR SETUP

INSTRUCTOR GUIDE:

- Reset the Simulator to any stable IC
- The RO status board updated with SFP Boron Concentration to 2322ppm
- Stop the SFP Normal Exhaust Supply using CS-46079
- Stop the SFP Exhaust fan using CS-46071
- Place Work Requested sticker on R-5, SFP Area Radiation Monitor and remove fuses.

TURNOVER SHEET

INITIAL CONDITIONS:

- Unit 1 is in Mode 3.
- New Fuel is scheduled to be unloaded and placed in the New Fuel Pool beginning one hour from now.
- Outplant portions of the checklist have been completed and signed.
- You are an extra Operator.

INITIATING CUES (IF APPLICABLE):

- You have been directed to perform D5.1 Table 2, Shift Checklist, for new fuel handling in the Spent Fuel Pool.

NMC Committed to Nuclear Excellence

JOB PERFORMANCE MEASURE (JPM)

SITE: **Prairie Island**

TASK TITLE: CONDUCT AN EMERGENCY RADIATION SURVEY

JPM NUMBER: ADMIN-8 **REV. 3**

RELATED PRA INFORMATION: **None**

TASK NUMBERS: CRO119.010.03.01 / EP 900.901.05.04.000

K/A NUMBERS: 2.3.10

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 / Faulted: NO

TASK APPLICABILITY: **SRO, RO, NLO**

Additional signatures may be added as needed.

Developed by:	**Travis Ouret**	**3/3/05**
	Instructor	Date
Validated by:	J. Kempkes	5/5/05
	Validation Instructor	Date
Approved by:		
	Training Supervisor	Date

JPM Number: ADMIN-8

JPM Title: CONDUCT AN EMERGENCY RADIATION SURVEY

Examinee: _____ **Evaluator:** _____

Job Title: _____ **Date:** _____

Start Time _____ **Finish Time** _____

PERFORMANCE RESULTS: **SAT:** ☐ **UNSAT:** ☐

COMMENTS/FEEDBACK: (Comments shall be made for any steps graded unsatisfactory).

EVALUATOR'S SIGNATURE: _____

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JPM BRIEFING/TURNOVER
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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 2 has transferred to Recirculation on both trains following a large break LOCA.
- A leak has been detected on 22 RHR Heat Exchanger.
- A Response Team has been assembled to isolate the leaking heat exchanger.
- No Radiation Protection or Chemistry personnel are available to assist.
- Airborne and general area radiation hazards above 5R/hr may be expected near Unit 2 Containment and the RHR pit area, but exact conditions are unknown.

INITIATING CUES (IF APPLICABLE):

- The Emergency Director directs you to obtain RO-2a or RO-20 and perform General Radiation Surveys per F3-14.2 as your team enters the auxiliary building and attempts to isolate 22 RHR Heat Exchanger.

JPM PERFORMANCE INFORMATION

Required Materials: High range portable survey instrument RO-2a or RO-20. NOTE- IF OSC EMERGENCY LOCKER IS USED, CONTACT ACCESS CONTROL TO ENSURE IT IS INVENTORIED AND SEALED ONCE JPM'S ARE COMPLETE. To avoid this, consider obtaining a meter and check source from Access Control and provide the instrument once the OSC locker is simulated open.

General References: F3-14.2

Task Standards: Radiation field above 10R/hr detected and team withdraws to low dose area and informs ED

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).

NOTE: 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.

Performance Step: **Critical N**	Determine appropriate protective clothing.
Standard:	Per note in F3-14.2 step 4.2.3, determines with unknown Aux Building conditions it requires a full suitup with respirator and GRM-I canister
Evaluator Note:	**Actions prior to entry may be performed in any order.**
Evaluator Note:	**Per F3-14.2 step 4.2.3 (b), determines with unknown Aux Building conditions it requires a full suitup with respirator and GRM-I canister**
Performance:	**SATISFACTORY** **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical N**	Don protective clothing.
Standard:	Respirator and Anti-C's located at OSC.
Evaluator Cue:	**WHEN protective clothing is located, inform Candidate, " You are wearing required protective clothing."**
Performance:	**SATISFACTORY** **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical Y**	Obtain RO-2a or RO-20 portable survey meter from the OSC emergency locker or Access Control.
Standard:	Meter in hand.
Evaluator Note:	**RO-2 and RS0-5 meters do not have sufficient range.** **Meter checks per steps 2.1.1-2.1.5 may be done before or after suitup.**
Evaluator Cue:	**Provide meter when OSC locker simulated open if desired.**
Performance:	**SATISFACTORY** **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical Y**	Obtain electronic dosimeter and ensure TLD is worn.
Standard:	TLD on badge and electronic dosimeter obtained from OSC or Access Control.
Evaluator Note:	**Perform this step as part of Aux Building entry.**
Performance:	**SATISFACTORY** **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical N**	When appropriate, then remove respirator from bag, inspect, affix canister and don respirator.
Standard:	Respirator donned
Evaluator Cue:	**When Candidate indicates donning of respirator, inform Candidate "Respirator is donned"**
Performance:	**SATISFACTORY** **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical Y**	Select the appropriate PINGP form
Standard:	PINGP 605 selected.
Evaluator Note:	**When Candidate asks for PINGP 605, provide a copy.**
Performance:	**SATISFACTORY** **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical Y**	Check portable instrument battery.
Standard:	Rotary switch selected to Battery 1 and Battery 2 positions and verified within the "Good" range of the meter.
Evaluator Note:	**If battery is not charged, a different survey instrument must be selected. This step is part of PINGP 605.**
Performance:	**SATISFACTORY** **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical Y**	Meter zeroed on lowest scale
Standard:	Rotary switch selected to lowest scale and meter reading zeroed.
Evaluator Note:	**If meter cannot be zeroed, another instrument should be used.** **This step is part of PINGP 605.**
Performance:	**SATISFACTORY** **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical Y**	Perform source check on portable instrument.
Standard:	Rotary switch selected to operating position and rising count rate noted when source brought into near proximity to detector.
Evaluator Note:	**If count rate does not change, a different survey instrument must be selected.** **This step is part of PINGP 605.**
Performance:	**SATISFACTORY** **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical Y**	Enter auxiliary building and proceed to Unit 2 RHR pits while continuously monitoring radiation levels about 3 feet above the floor.
Standard:	Rotary switch selected to stay onscale, instrument continuously monitored.
Evaluator Cue:	**Radiation levels are:** **500 mr/hr on Unit 1 side and all of 715' level,** **1 R/hr on 695 level of Unit 2,** **15 R/hr and increasing when within 20 feet of RHR pits.** **Provide levels when asked OR periodically if meter is being continuously read.**
Performance:	**SATISFACTORY** **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical Y**	Dose rate above 10R/hr noted and entry stopped; team retreats to area of low background (i.e. Access Control)
Standard:	Approach to RHR pits stops when within 20 feet and reading >10R/hr; team immediately retreats to low background area.
Evaluator Cue:	**If meter is not selected to correct scale, indicate "offscale high" when checked. If RHR pits are reached and high reading is not noted, the task is failed.**
Performance:	**SATISFACTORY** **UNSATISFACTORY** _____
Comments:	_____

Performance Step: **Critical**	Emergency director notified.
Standard:	OSC or TSC notified radiation levels too high for team to access.
Evaluator Cue:	**Respond to communication as the ED and direct the team to remain at access control for further instructions.**
Performance:	**SATISFACTORY** **UNSATISFACTORY** _____
Comments:	_____

Terminating Cues: When the entry is stopped and ED notified the team was unable to reach RHR pits due to radiation levels >10R/hr. This JPM is Complete.

NOTE- RETURN SURVEY METER TO STORAGE AND HAVE OSC EMERGENCY LOCKER INVENTORIED AND SEALED IF REQUIRED.

Stop Time: _____

TURNOVER SHEET

INITIAL CONDITIONS:

- Unit 2 has transferred to Recirculation on both trains following a large break LOCA.
- A leak has been detected on 22 RHR Heat Exchanger.
- A Response Team has been assembled to isolate the leaking heat exchanger.
- No Radiation Protection or Chemistry personnel are available to assist.
- Airborne and general area radiation hazards above 5R/hr may be expected near Unit 2 Containment and the RHR pit area, but exact conditions are unknown.

INITIATING CUES (IF APPLICABLE):

- The Emergency Director directs you to obtain RO-2a or RO-20 and perform General Radiation Surveys per F3-14.2 as your team enters the auxiliary building and attempts to isolate 22 RHR Heat Exchanger.

NMC Committed to Nuclear Excellence	JOB PERFORMANCE MEASURE (JPM)

SITE: **Prairie Island**

JPM TITLE: RESPOND TO A MEDICAL EMERGENCY

JPM NUMBER: ME-1 **REV.** **7**

RELATED PRA INFORMATION: **None**

TASK NUMBERS / TASK TITLE(S): SS 344.015.03.03.000

K/A NUMBERS: 2.1.8

APPLICABLE METHOD OF TESTING:

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

EVALUATION LOCATION:

In-Plant: [ ] Control Room: [ ]

Simulator: [ ] Other: [X]

Lab: [ ]

Time for Completion: 5 Minutes Time Critical: NO

Alternate Path / Faulted: NO

TASK APPLICABILITY: **SRO**

Developed by:	**Travis Ouret**	**9/23/04**
	Instructor	Date
Validated by:	John Kempkes	5/5/05
	Validation Instructor	Date
Approved by:		
	Training Supervisor	Date

JPM Number: ME-1

JPM Title: RESPOND TO A MEDICAL EMERGENCY

Examinee: _____ **Evaluator:** _____

Job Title: _____ **Date:** _____

Start Time _____ **Finish Time** _____

PERFORMANCE RESULTS: **SAT:** ☐ **UNSAT:** ☐

COMMENTS/FEEDBACK: (Comments shall be made 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
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. Review PITC-90, JPM Briefing Checklist with 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:
Both Units are at 100% power.
John Smith, a Construction Carpenter, has just called the control room, and informed the Unit 1 Lead of the following:

- Dave Goodfellow, his work partner has fallen from scaffolding 12 feet high.
- They were working above the 122 Diesel Fire Pump.
- Dave hit his head when he landed.
- Dave is unconscious, but <u>not</u> bleeding.

INITIATING CUES (IF APPLICABLE):
As the Unit 1 SS, respond to this event.

JPM PERFORMANCE INFORMATION

Required Materials: **Consumable copy of PINGP 788**

General References: **F4**

Task Standards: **PINGP 788, Medical Emergency Checklist, completed through establishing communications between EMT/Security Officer at the scene and Unit 1 SS.**

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).

NOTE: 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.

Performance Step: **Critical N (SEQ-1)**	Initiate PINPG 788 (per F4) • Record Time and Date
Standard:	Examinee initiates PINGP 788 and records the date and time on the top of the form.
Evaluator Note:	**F4 Directs the Candidate to complete PINGP 788**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical N (SEQ-2)**	Complete Section 1 of PINGP 788.
Standard:	Examinee records required information in Section 1 of PINGP 788: • Caller: John Smith • Location: 122 Diesel Fire Pump area scaffolding. • Injuries: Dave Goodfellow has a head injury (bump on the forehead) due to a 12 feet fall from scaffolding, victim is unconscious, but not bleeding. • Number of Casualties: One • Causality Location; Clean Area • Department: Construction Carpenters
Evaluator Cue:	**If asked, repeat any initiating cue information as Unit 1 Lead.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical N (SEQ-2)**	Announce Emergency using the Public Address System
Standard:	Examinee announces emergency in accordance with PINGP 788 using the Public Address System as follows: Attention, All Plant Personnel. There is a Medical Emergency in the 122 Diesel Fire Pump Room, in the Plant Screen House. Shift EMT's and Emergency Response Personnel, Please Respond. The announcement is repeated.
Evaluator Cue:	**When examinee indicates that he/she would make announcement of the emergency, direct the examinee to, "Simulate making the announcement."** **If asked, inform the candidate that no contacts have been made with EMT's or the Site Safety Department.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical Y (SEQ-2)**	Activate the EMT pagers.
Standard:	Examinee activates EMT pagers as follows: • Enter Radio Page program from Auto dial Telephone. • When paging system prompts with ”Please enter the pager number, enter 6824. • When paging system prompts with ”Please enter displayed digits, enter 999*4251#” • Hang up when you hear, "Page Accepted."
Evaluator Note:	**SIMULATOR phone is capable of activating plant pagers, DO NOT allow examinee to dial plant pager**
Evaluator Cue:	**When examinee indicates that he/she would activate the EMT pagers, direct the examinee to, “Simulate activation of pagers.”**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical Y (SEQ-2)**	Contact Goodhue County Dispatch and request an Ambulance
Standard:	Candidate calls 9-911 and requests an Ambulance
Evaluator Cue:	**When examinee indicates that he/she would notify Goodhue County Dispatch, direct examinee to, "simulate notification."**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical Y (SEQ-2)**	Establish communications with the Fire Brigade Chief at the scene.
Standard:	Examinee establishes communications with the Fire Brigade Chief at the scene via one of the following methods: • Select channel 1 on the radio • Phone communication.
Evaluator Cue:	**When examinee indicates that he/she would establish communications with the Fire Brigade Chief at the scene, inform examinee that, "communications have been established."**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Terminating Cues: When examinee establishes communication with the Fire Brigade Chief at the casualty scene, inform examinee that, "this JPM is complete."

Stop Time: _____

TURNOVER SHEET

INITIAL CONDITIONS:
Both Units are at 100% power.
John Smith, a Construction Carpenter, has just called the control room, and informed the Unit 1 Lead of the following:

- Dave Goodfellow, his work partner, has fallen from scaffolding 12 feet high.
- They were working above the 122 Diesel Fire Pump.
- Dave hit his head when he landed.
- Dave is unconscious, but not bleeding.

INITIATING CUES (IF APPLICABLE):

- As the Unit 1 SS, respond to this event.

NMC Committed to Nuclear Excellence	JOB PERFORMANCE MEASURE (JPM)

SITE: **Prairie Island**

JPM TITLE: AUTHORIZE EMERGENCY RADIATION EXPOSURE

JPM NUMBER: ADMIN-37 **REV.** **0**

RELATED PRA INFORMATION: **None**

TASK NUMBERS / TASK TITLE(S): SS 344.023.03.03

K/A NUMBERS: 2.4.40

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 / Faulted: NO

TASK APPLICABILITY: **SRO**

Developed by:	**Travis Ouret**	**2/25/05**
	Instructor	Date
Validated by:	J. Kempkes	5/5/05
	Validation Instructor	Date
Approved by:		
	Training Supervisor	Date

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: (Comments shall be made 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
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. Review PITC-90, JPM Briefing Checklist with 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 Emergency Director during an accident at the plant.
- 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):

- Complete Part 1 of the PINGP 600 EMERGENCY EXPOSURE AUTHORIZATION FORM for Roger Reactor and Joe Radpro.

JPM PERFORMANCE INFORMATION

Required Materials:	**PINGP 600** **Emergency Procedures F3 series (JPM may be performed in classroom, simulator or EOF)**
General References:	**F3-12 Emergency Exposure Control** **F3-11 Search and Rescue**
Task Standards:	**Roger Reactor authorized to receive exposure, Joe Radpro NOT authorized.** **Steps may be performed in any logical order.**

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).

NOTE: 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.

Performance Step: **Critical N**	**Verify neither person is female.**
Standard:	**Step 4.1 marked "N/A"**
Evaluator Cue:	**IF asked, reply "both are male."**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical Y**	**Verify neither individual has received an emergency exposure before.**
Standard:	**Candidate determines Roger Reactor CAN be authorized and Candidate determines Joe Radpro CAN NOT be authorized emergency exposure.**
Evaluator Note:	**IF Candidate determines Joe Radpro cannot be authorized, it is acceptable to not continue with his PINGP 600.**
Evaluator Cue:	**IF asked, state "Roger Reactor has not, but Joe Radpro 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 N**	**Verify dose rate in area is known/measurable.**
Standard:	**References initial conditions and determines dose rate in area is known/measurable.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical N**	**Verifies individual is a radiation worker or professional rescue person.**
Standard:	**Based on initial conditions, may check off without question.**
Evaluator Cue:	**IF asked, reply "Personnel are qualified radiation workers."**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical N**	**Verify individual is broadly familiar with radiological consequences of exposure.**
Standard:	**May check off without question based on occupation or verify Page 2 signed.**
Evaluator Cue:	**IF asked, reply "Personnel are familiar with the consequences of the exposure."**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical N**	**Recognize exposure not due to protection of property or medical/decontamination.**
Standard:	**Refers to initial conditions and determines search and rescue operation. Marks 4.6 "N/A"**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical N**	**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 Y**	**Authorizes emergency exposure for Roger Reactor ONLY.**
Standard:	**PINGP 600 for Roger Reactor is signed by the ED on Page 1 #7. IF returned without signature, determine by questioning if Roger's form would be approved if a different qualified person was available as the second rescue person.** **PINGP 600 for Joe Radpro is NOT signed and may only be partially completed.**
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 during an accident at the plant.
- 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 up to 50 REM during the course of the rescue.

INITIATING CUES (IF APPLICABLE):

- Complete Part 1 of the PINGP 600 EMERGENCY EXPOSURE AUTHORIZATION FORM for Roger Reactor and Joe Radpro and return to the evaluator.

NMC Committed to Nuclear Excellence	JOB PERFORMANCE MEASURE (JPM)

SITE:	**Prairie Island**
JPM TITLE:	ISSUE UPDATED PAR BASED ON WIND CHANGE
JPM NUMBER:	ADMIN-39 **REV. 0**
RELATED PRA INFORMATION:	**None**
TASK NUMBERS / TASK TITLE(S):	SS 344.023.03.03
K/A NUMBERS:	2.4.44

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 / Faulted: NO

TASK APPLICABILITY: **SRO**

Developed by:	**Travis Ouret**	**3/2/05**
	Instructor	Date
Validated by:	J. Kempkes	5/5/05
	Validation Instructor	Date
Approved by:		
	Training Supervisor	Date

JPM Number: ADMIN-39

JPM Title: ISSUE UPDATED PAR BASED ON WIND CHANGE

Examinee: _____ **Evaluator:** _____

Job Title: _____ **Date:** _____

Start Time _____ **Finish Time** _____

PERFORMANCE RESULTS: **SAT:** ☐ **UNSAT:** ☐

COMMENTS/FEEDBACK: (Comments shall be made 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
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. Review PITC-90, JPM Briefing Checklist with 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:

- A magnitude 9.5 earthquake occurred at 0655 this morning.
- Unit 1 Containment has partially collapsed and the RCS has been breached.
- A General Emergency was declared based on condition 19N (see attached copy).
- Bridge collapses, rockslides and damaged roadways have prevented travel in the area and the site Emergency Centers are NOT operational yet.
- You are the Emergency Director.
- PINGP-1125 Control Room Shift Manager/Shift Supervisor Emergency Director Checklist for a GENERAL EMERGENCY has been completed through Step 14.
- A cold front has moved through. Current meteorological conditions are:
  - Wind 10 mph from 015 degrees.
  - Stability class E
  - Temperature 75°F

INITIATING CUES (IF APPLICABLE):

- Evaluate current conditions and approve an updated PINGP 577.
- This JPM is time critical. The clock stops when you return the PINGP 577 to me as the Shift Emergency Communicator.

JPM PERFORMANCE INFORMATION

Required Materials: **F3-2, F3-8**
PINGP-577 (have extra copies available)
PINGP-1125 (general emergency section signed through step 14)
F3-2 EAL 19N

General References: **PINGP-1125**

Task Standards: **Completed 577 returned for signature with correct PAR**

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).

NOTE: 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.

NOTE: STEPS MAY BE PERFORMED IN ANY ORDER. CRITICAL PORTIONS ARE IN ONE STEP, NON-CRITICAL IN THE OTHER.

Performance Step: 1 **Critical Y**	**Complete a PINGP-577 with the following boxes/information:** **2- Drill/Exercise (B) circled (site policy is to circle (b) unless it is an actual plant emergency)** **4- Classification is (D) General Emergency** **6- Release status is (B) Occurring** **7- Type of release is (B) Airborne** **11- "None" per note**
Standard:	**Information circled or written.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Performance Step: **Critical Y**	**Following boxes completed for updating PAR:** **1- Reason for call (C) PAR change** **5- Time and date is (B) PAR change with current date and time entered** **8- Wind direction from 015°, downwind sectors HJKLM** **9- Wind speed 10 mph, stability class E circled** **10- PAR (B) circled, shelter ALL sectors to 2 miles, shelter sectors CDEFGHJKLM out to 5 miles. Circle subareas 2, 5N, 5E, 5S, 5W.**
Standard:	**Sheltering recommended for all subareas to 5 miles and sectors C-M AND PINGP 577 presented for signature within 15 minutes of receiving updated meteorological data.**
Performance:	**SATISFACTORY** ☐ **UNSATISFACTORY** ☐
Comments:	_____

Terminating Cues: **PINGP 577 returned for ED signature.**

Stop Time: _____

TURNOVER SHEET

INITIAL CONDITIONS:

- A magnitude 9.5 earthquake occurred at 0655 this morning.
- Unit 1 Containment has partially collapsed and the RCS has been breached.
- A General Emergency was declared based on condition 19N (see attached copy).
- Bridge collapses, rockslides and damaged roadways have prevented travel in the area and the site Emergency Centers are NOT operational yet.
- You are the Emergency Director.
- PINGP-1125 Control Room Shift Manager/Shift Supervisor Emergency Director Checklist for a GENERAL EMERGENCY has been completed through Step 14.
- A cold front has moved through. Current meteorological conditions are:
  - Wind 10 mph from 015 degrees.
  - Stability class E
  - Temperature 75°

INITIATING CUES (IF APPLICABLE):

- Evaluate current conditions and approve an updated PINGP 577.
- This JPM is time critical. The clock stops when you return the PINGP 577 to me as the Shift Emergency Communicator.