Committed to Nuclear Excellence	JOB PERFORMANCE MEASURE (JPM)			
SITE:	MONTICELLO NUCLEAR GENERATING PLANT			
JPM TITLE:	Bulk D/W Temperature Manual Calculation			
JPM NUMBER:	JPM-001 <b>REV.</b> 1			
RELATED PRA INFORMATION:	None			
TASK NUMBER(S) / TASK TITLE(S):	CR304.103 Perform Actions Associated wi	th Primary Containment Control		
K/A NUMBERS: 2	2.1.25	Rating: SRO/RO: 3.1/2.8		
APPLICABLE METHOD	O OF TESTING:			
EVALUATION LOCATIO	Discussion: S DN: In-Plant: Simulator:	Simulate/walkthrough: Perform: X Control Room:  X Other:		
Time for Comple	Lab:			
Lime for Comple	tion: <u>15</u> Minutes	lime Critical: <u>NO</u>		
	r: SRU: SRU/	RO: <u>X</u> SRO/RO/NLO:		
Additional signatures ma	ly be added as needed.			
Developed by:	J. Ruth Instructor	Date		
Validated by:	Validation Instruction (See JPM Validation Checklis	ctor Date t, Attachment 1)		
Approved by:	Training Supervi	sor Date		

JPM-001, Bulk D/W Temperature Manual Calculation Rev. 1

JPM Number:	JPM-001		
JPM Title:	Bulk D/W Temperature Manual Calculation	on	_
Examinee:		Evaluator:	
Job Title:		Date:	
Start Time		Finish Time	
PERFORMANCE I	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-001, Bulk D/W Temperature Manual Calculation Rev. 1

### JPM BRIEFING/TURNOVER

### (See MTCP-03.32, Figure 6.2)

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 LOCA is in progress
- EOP-1200 has been entered
- SPDS is OOS
- You are an extra licensed operator in the control room

### INITIATING CUES (IF APPLICABLE):

- The CRS directs you to manually calculate and report bulk average Drywell temperature.
- INFORM EVALUATOR WHEN YOU HAVE COMPLETED THE TASK.

# JPM-001, Bulk D/W Temperature Manual Calculation Rev. 1 JPM PERFORMANCE INFORMATION

Required Materials:	Simulator
General References:	Operator Aid for Bulk Drywell Temperature Manual Calculation
Task Standards:	Operator Aid for Bulk Drywell Temperature Manual Calculation
Start Time:	

<u>NOTE</u>: 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).

<u>NOTE</u>: 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	Locates Operator Aid for Bulk Drywell Temperature Manual Calculation
Standard:	Locates Operator Aid
Evaluator Cue:	None
Performance:	
Comments:	

Performance Step: 2 Critical: Y	<ul> <li>From TR23-115 determines Drywell temperature from the following points:</li> <li>East 932' Point 22</li> <li>South 951' Point 23</li> <li>West 970' Point 21</li> <li>North 994' Point 24</li> </ul>
Standard:	<ul> <li>Determines the following temperatures:</li> <li>East 932' Point 22 = 259.2°F</li> <li>South 951' Point 23 = 267.2°F</li> <li>West 970' Point 21 = 259.8°F</li> <li>North 994' Point 24 = 275.5°F</li> </ul>
Evaluator Cue:	After operator identifies the trend recorder and applicable points, provide the sheet with a printout of the above points and their readings.
Performance:	
Comments:	

JPM-001, Bulk D/W Temperature Manual Calculation Rev. 1		
Performance Step: 3 Critical: Y	<ul> <li>Apply Weight Factor to the temperatures from previous step to determine Weight Temperatures.</li> <li>East 932' Point 22 X .400</li> <li>South 951' Point 23 X .423</li> <li>West 970' Point 21 X .093</li> <li>North 994' Point 24 X .084</li> </ul>	
Standard:	<ul> <li>Apply Weight Factor to the temperatures as follows:</li> <li>East 932' Point 22 X .400 = (259.2 x .4 = 103.68)</li> <li>South 951' Point 23 X .423 = (267.2 x .423 = 113.03)</li> <li>West 970' Point 21 X .093 = (259.8 x .093 = 24.16)</li> <li>North 994' Point 24 X .084 = (275.5 x .084 = 23.14)</li> </ul>	
Evaluator Cue:	None	
Performance:		
Comments:		
Performance Step: 4	Add Weight Temperatures to determine Bulk Average Drywell Temperature Total.	

Performance Step: 4 Critical: Y	Add Weight Temperatures to determine Bulk Average Drywell Temperature Total.
Standard:	Adds Weight Temperatures to obtain a calculated temperature of $264.01^{\circ}F$ + or - $2^{\circ}F$
Evaluator Cue:	None
Performance:	
Comments:	
Performance Step: 5 Critical: N	Reports bulk average Drywell temperature calculated above to CRS.
Performance Step: 5 Critical: N Standard:	Reports bulk average Drywell temperature calculated above to CRS. Reports bulk average Drywell temperature calculated above to CRS.
Performance Step: 5 Critical: N Standard: Evaluator Cue:	Reports bulk average Drywell temperature calculated above to CRS. Reports bulk average Drywell temperature calculated above to CRS. Acknowledge report.
Performance Step: 5 Critical: N Standard: Evaluator Cue: Performance:	Reports bulk average Drywell temperature calculated above to CRS.         Reports bulk average Drywell temperature calculated above to CRS.         Acknowledge report.         SATISFACTORY         UNSATISFACTORY

JF	PM-001, Bulk D/W Temperature Manual Calculation Rev. 1
Performance Step: 6 Critical: N	INFORM EVALUATOR THAT THE TASK HAS BEEN COMPLETED.
Standard:	Operator informs evaluator that the task is completed.
Evaluator Cue:	When informed of calculated average drywell bulk temperature, acknowledge the report and state that the JPM is complete.
Performance:	
Comments:	

**Terminating Cues:** When informed of calculated average drywell bulk temperature, acknowledge the report and state that the JPM is complete.

Stop Time:

# **TURNOVER SHEET**

# **INITIAL CONDITIONS:**

- A LOCA is in progress •
- EOP-1200 has been entered •
- SPDS is OOS
- You are an extra licensed operator in the control room •

# **INITIATING CUES (IF APPLICABLE):**

- The CRS directs manually calculate and report bulk average Drywell temperature. INFORM EVALUATOR WHEN YOU HAVE COMPLETED THE TASK. ٠
- •

JPM-001, Bulk D/W Temperature Manual Calculation Rev. 1

# SIMULATOR SET UP:

## **INITIAL CONDITIONS:**

Any simulator condition is acceptable as the only requirement for the simulator is access to the calculation instructions on the trend recorder.

# **SET UP INSTRUCTIONS:**

None

### JPM-001, Bulk D/W Temperature Manual Calculation Rev. 1

#### **ATTACHMENT 1**

### JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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

REV	IEW STATEMENTS	YES	NO	N/A
1.	Are all items on the signature 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.	Does 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.	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?			
9.	Is the K/A appropriate to the task and to the licensee level if required?			
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 and made available to the trainee?			
12.	Are all references identified, current, accurate, and available to the trainee?			
13.	Have all required cues (as anticipated) been identified for the evaluator to assist task completion?			

All questions/statements must be answered "YES" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation shall 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
Historical Record: (Optional)	

Committed to Nuclear Excellence	JOB PERFORMANCE MEASURE (JPM)			
SITE:	MONTICELLO NUCLEAR GENERATING PLANT			
JPM TITLE:	CONTROL ROOM SHIFT T	URNOVER CHECKLIST		
JPM NUMBER:	JPM-3139-001	<b>REV.</b> 0		
RELATED PRA INFORMATION:	None			
TASK NUMBER(S) / TASK TITLE(S):	CR298.103 Perform the Control Room S	Shift Turnover Checklist		
K/A NUMBERS: 2	2.1.3	Rating: SRO/RO:	3.4 /3.0	
APPLICABLE METHOD	O OF TESTING:			
	Discussion:	Simulate/walkthrough:	Perform: x	
EVALUATION LOCATIO	ON: In-Plant:	Control Room:		
	Simulator:	x Other:		
	Lab:			
Time for Comple	tion: <u>20</u> Minutes	Time Critical:	No	
Alternate Path / F	Faulted: Yes			
	<b>1:</b> SRO: SRO	D/RO: X SRO/RO/NI	_0:	
Additional signatures ma	ay be added as needed.			
Developed by:	J Ruth Instructor		Date	
Validated by:	Validation Instr	uctor	Date	
	(See JPM Validation Check	list, Attachment 1)		
Approved by:				
	Training Super	visor	Date	

JPM-3139-001 (CONTROL ROOM SHIFT TURNOVER CHECKLIST) Rev.0

JPM Number:	JPM-3139-001		
JPM Title:	Control Room Shift Turnover Checkli	st	
Examinee:		Evaluator:	
Job Title:		Date:	
Start Time		Finish Time	
PERFORMANCE I	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-3139-001 (CONTROL ROOM SHIFT TURNOVER CHECKLIST) Rev.0

### JPM BRIEFING/TURNOVER

(See MTCP-03.32, Figure 6.2)

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 reactor is operating at power
- You are the LPEO on the 19-07 shift
- The Shift Manager is "Smith"

### INITIATING CUES (IF APPLICABLE):

• Perform the front page of 3139, Control Room Shift Turnover Checklist

JPM-3139-001 (CONTROL ROOM SHIFT TURNOVER CHECKLIST) Rev.0

### JPM PERFORMANCE INFORMATION

Required	Materials:	Checklist 3139
Negunea	materials.	

General References: OWI-02.01, Operations Shift Turnover

- Task Standards:Complete front page of checklist
- Start Time:

<u>NOTE</u>: 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).

<u>NOTE</u>: 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	Complete the shift complement section of the checklist.
Standard:	Fills in Shift Manager, Date, Shift.
Evaluator Cue:	None
Performance:	
Comments:	
Performance Step: 2 Critical: N	Record Mode Switch position
Performance Step: 2 Critical: N Standard:	Record Mode Switch position Checks Run box
Performance Step: 2 Critical: N Standard: Evaluator Cue:	Record Mode Switch position Checks Run box None

Comments:

JPIVI-3139	-001 (CONTROL ROOM SHIFT TORNOVER CHECKLIST) Rev.0
Performance Step: 3 Critical: N	Record Core thermal Power
Standard:	Records 1773 $\pm$ 2 MWT
Evaluator Cue:	None
Performance:	
Comments:	
Performance Step: 4 Critical: N	Record Core Flow
Standard:	Records 51 x $10^6$ Lb/Hr $\pm$ 0.5
Evaluator Cue:	None
Performance:	
Comments:	
-	
Performance Step: 5 Critical: N	Record Core/Rx dP
Performance Step: 5 Critical: N Standard:	Record Core/Rx dP Records 14.2 / 22 Psid $\pm$ 0.5
Performance Step: 5 Critical: N Standard: Evaluator Cue:	Record Core/Rx dP Records 14.2 / 22 Psid ± 0.5 None
Performance Step: 5 Critical: N Standard: Evaluator Cue: Performance:	Record Core/Rx dP           Records 14.2 / 22 Psid ± 0.5           None           SATISFACTORY
Performance Step: 5 Critical: N Standard: Evaluator Cue: Performance: Comments:	Record Core/Rx dP   Records 14.2 / 22 Psid ± 0.5   None   SATISFACTORY   UNSATISFACTORY
Performance Step: 5 Critical: N Standard: Evaluator Cue: Performance: Comments:	Record Core/Rx dP   Records 14.2 / 22 Psid ± 0.5   None   SATISFACTORY UNSATISFACTORY
Performance Step: 5 Critical: N Standard: Evaluator Cue: Performance: Comments: Performance Step: 6 Critical: N	Record Core/Rx dP   Records 14.2 / 22 Psid ± 0.5   None   SATISFACTORY   UNSATISFACTORY   Record Rx Pressure
Performance Step: 5 Critical: N Standard: Evaluator Cue: Performance: Comments: Performance Step: 6 Critical: N Standard:	Record Core/Rx dP   Records 14.2 / 22 Psid ± 0.5   None   SATISFACTORY □ UNSATISFACTORY □   Record Rx Pressure   Records 1000 Psig ± 5
Performance Step: 5 Critical: N Standard: Evaluator Cue: Performance: Comments: Performance Step: 6 Critical: N Standard: Evaluator Cue:	Record Core/Rx dP   Records 14.2 / 22 Psid ± 0.5   None   SATISFACTORY □ UNSATISFACTORY □   Record Rx Pressure   Records 1000 Psig ± 5   None
Performance Step: 5 Critical: N Standard: Evaluator Cue: Performance: Comments: Performance Step: 6 Critical: N Standard: Evaluator Cue: Performance:	Record Core/Rx dP   Records 14.2 / 22 Psid ± 0.5   None   SATISFACTORY   UNSATISFACTORY     Record Rx Pressure   Records 1000 Psig ± 5   None   SATISFACTORY   UNSATISFACTORY

M/jlg

JPM-3139-	
Performance Step: 7 Critical: N	Record Rx Level
Standard:	Records 35 inches $\pm$ 1
Evaluator Cue:	None
Performance:	
Comments:	
Performance Step: 8 Critical: N	Record Torus Level
Standard:	Records 0 inches $\pm$ .5
Evaluator Cue:	None
Performance:	
Comments:	
Performance Step: 9 Critical: N	Record RCP dP
Performance Step: 9 Critical: N Standard:	Record RCP dP Records 117 / 116 psid ± 2
Performance Step: 9 Critical: N Standard: Evaluator Cue:	Record RCP dP Records 117 / 116 psid ± 2 None
Performance Step: 9 Critical: N Standard: Evaluator Cue: Performance:	Record RCP dP           Records 117 / 116 psid ± 2           None           SATISFACTORY
Performance Step: 9 Critical: N Standard: Evaluator Cue: Performance: Comments:	Record RCP dP Records 117 / 116 psid ± 2 None SATISFACTORY UNSATISFACTORY
Performance Step: 9 Critical: N Standard: Evaluator Cue: Performance: Comments:	Record RCP dP Records 117 / 116 psid ± 2 None SATISFACTORY UNSATISFACTORY
Performance Step: 9 Critical: N Standard: Evaluator Cue: Performance: Comments: Performance Step: 10 Critical: N	Record RCP dP Records 117 / 116 psid ± 2 None SATISFACTORY UNSATISFACTORY Record Steam Flow
Performance Step: 9 Critical: N Standard: Evaluator Cue: Performance: Comments: Performance Step: 10 Critical: N Standard:	Record RCP dP         Records 117 / 116 psid $\pm 2$ None         SATISFACTORY UNSATISFACTORY         Record Steam Flow         Records 7.25 x 10 <sup>6</sup> Lb/Hr $\pm .25$
Performance Step: 9 Critical: N Standard: Evaluator Cue: Performance: Comments: Performance Step: 10 Critical: N Standard: Evaluator Cue:	Record RCP dP   Records 117 / 116 psid ± 2   None   SATISFACTORY □ UNSATISFACTORY □   Record Steam Flow   Records 7.25 x 10 <sup>6</sup> Lb/Hr ± .25   None
Performance Step: 9 Critical: N Standard: Evaluator Cue: Performance: Comments: Performance Step: 10 Critical: N Standard: Evaluator Cue: Performance:	Record RCP dP   Records 117 / 116 psid ± 2   None   SATISFACTORY □ UNSATISFACTORY □   Record Steam Flow   Records 7.25 x 10 <sup>6</sup> Lb/Hr ± .25   None   SATISFACTORY □ UNSATISFACTORY □

JPM-3139-0	001 (CONTROL ROOM SHIFT TURNOVER CHECKLIST) Rev.0
Performance Step: 11 Critical: N	Record FW Flow
Standard:	Records 7.25 x $10^6$ Lb/Hr $\pm$ .25
Evaluator Cue:	None
Performance:	
Comments:	
Performance Step: 12 Critical: N	Records status of Nuclear Instruments
Standard:	Records APRMs 2 and 5 bypassed with none above normal
Evaluator Cue:	None
Performance:	
Comments:	
Performance Step: 13 Critical: N	Records status of Rad Monitors
Standard:	Records none are bypassed and none above normal
Evaluator Cue:	
Performance:	
Comments:	
Performance Step: 14 Critical: Y	Record Rx Level Mode / Controllers
Standard:	Records 3 element, MSTR-AUTO, and notes the Lo Flow Reg Va is in AUTO and informs the CRS of the position being out of normal. Takes Lo Flow Reg Va to MAN and reports CRS.
Evaluator Cue:	Acknowledge the report of the Lo Flow Reg Va in AUTO and directs it to be placed in MAN.
Performance:	
Comments:	

JPM-3139	-001 (CONTROL ROOM SHIFT TURNOVER CHECKLIST) Rev.0
Performance Step: 15 Critical: N	Record RFP Level Trip
Standard:	Records position of RFP Level Trip in NORMAL
Evaluator Cue:	None
Performance:	
Comments:	
Performance Step: 16 Critical: N	Record Press Contr
Standard:	Records MPR # 910 $\pm$ 5 and EPR# 903 $\pm$ 1
Evaluator Cue:	None
Performance:	
Comments:	
Performance Step: 17 Critical: N	Record Switch position and Alarms for 11 & 12 D Gen
Performance Step: 17 Critical: N Standard:	Record Switch position and Alarms for 11 & 12 D Gen Records AUTO for switch positions and None for alarms
Performance Step: 17 Critical: N Standard: Evaluator Cue:	Record Switch position and Alarms for 11 & 12 D Gen Records AUTO for switch positions and None for alarms None
Performance Step: 17 Critical: N Standard: Evaluator Cue: Performance:	Record Switch position and Alarms for 11 & 12 D Gen         Records AUTO for switch positions and None for alarms         None         SATISFACTORY       UNSATISFACTORY
Performance Step: 17 Critical: N Standard: Evaluator Cue: Performance: Comments:	Record Switch position and Alarms for 11 & 12 D Gen   Records AUTO for switch positions and None for alarms   None   SATISFACTORY   UNSATISFACTORY
Performance Step: 17 Critical: N Standard: Evaluator Cue: Performance: Comments:	Record Switch position and Alarms for 11 & 12 D Gen         Records AUTO for switch positions and None for alarms         None         SATISFACTORY       UNSATISFACTORY
Performance Step: 17 Critical: N Standard: Evaluator Cue: Performance: Comments: Performance Step: 18 Critical: N	Record Switch position and Alarms for 11 & 12 D Gen         Records AUTO for switch positions and None for alarms         None         SATISFACTORY       UNSATISFACTORY         Record ADS "A", "C", "D" switch positions and alarms
Performance Step: 17 Critical: N Standard: Evaluator Cue: Performance: Comments: Performance Step: 18 Critical: N Standard:	Record Switch position and Alarms for 11 & 12 D Gen         Records AUTO for switch positions and None for alarms         None         SATISFACTORY         UNSATISFACTORY         Record ADS "A", "C", "D" switch positions and alarms         Records ADS switch positions in AUTO and None for alarms
Performance Step: 17 Critical: N Standard: Evaluator Cue: Performance: Comments: Performance Step: 18 Critical: N Standard: Evaluator Cue:	Record Switch position and Alarms for 11 & 12 D Gen         Records AUTO for switch positions and None for alarms         None         SATISFACTORY       UNSATISFACTORY         Record ADS "A", "C", "D" switch positions and alarms         Records ADS switch positions in AUTO and None for alarms         None
Performance Step: 17 Critical: N Standard: Evaluator Cue: Performance: Comments: Performance Step: 18 Critical: N Standard: Evaluator Cue: Performance:	Record Switch position and Alarms for 11 & 12 D Gen         Records AUTO for switch positions and None for alarms         None         SATISFACTORY       UNSATISFACTORY         Record ADS "A", "C", "D" switch positions and alarms         Records ADS switch positions in AUTO and None for alarms         None         SATISFACTORY         UNSATISFACTORY

JPM-3139-0	001 (CONTROL ROOM SHIFT TURNOVER CHECKLIST) Rev.0
Performance Step: 19 Critical: N	Record SRV Low-Low Set C-03 "E", "G", "H" switch positions and alarms
Standard:	Records Low-Low Set switch positions in AUTO and None for alarms
Evaluator Cue:	None
Performance:	
Comments:	
Performance Step: 20 Critical: N	Record DIV II Low-Low Set Logic switch position and alarms
Standard:	Records switch in Auto and None for alarms
Evaluator Cue:	None
Performance:	
Comments:	
Performance Step: 21 Critical: Y	Record "A" RHR switch position, alarms, and valve line-up
Standard:	Records switch position in Auto, None for alarms, and notes MO-2002 (RHR DIV 1 HX BYPASS) valve is in the CLOSED position. Reports to CRS and takes keylock switch to OPEN when directed by CRS.
Evaluator Cue:	Acknowledge report of MO-2002 (RHR DIV 1 HX BYPASS) valve is in the CLOSED position. Directs valve be opened.
Performance:	
Comments:	
Performance Step: 22 Critical: N	Record "A" RHRSW switch position, alarms, and valve line-up
Standard:	Records switch position in Auto, None for alarms, and valve line-up sat
Evaluator Cue:	None
Performance:	
Comments:	

# JPM-3139-001 (CONTROL ROOM SHIFT TURNOVER CHECKLIST) Rev.0

Performance Step: 23 Critical: N	TASK COMPLETED
Standard:	Operator acknowledges to the evaluator that the task is completed.
Evaluator Cue:	When the RHRSW check has been completed, state that the JPM is completed
Performance:	
Comments:	
Terminating Cues: Whe	en the RHRSW check is been completed, state that the JPM is completed
Stop Time:	

Critical Time <u>N/A</u>

# TURNOVER SHEET

# **INITIAL CONDITIONS:**

- The reactor is operating at power
- You are the LPEO on the 19-07 shift
- The Shift Manager is "Smith"

# INITIATING CUES (IF APPLICABLE):

• Perform the front page of 3139, Control Room Shift Turnover Checklist

# JPM-3139-001 (CONTROL ROOM SHIFT TURNOVER CHECKLIST) Rev.0

SIMULATOR SET UP:

- IC-15 or other 100% power IC.
- Place the Low Flow Reg Valve in AUTO
- Place the key lock switch for MO-2002 (RHR DIV 1 HX BYPASS) in the CLOSED position.

# SIMULATOR - MALFUNCTIONS:

	MALF ID	MALFUNCTION TITLE	DELAY	RAMP	EVENT	VALUE	FINAL.
1.							
2.							

# SIMULATOR - OVERRIDES:

	OVERRIDE ID.	OVERRIDE DESCRIPTION	DELAY	RAMP	EVENT	VALUE	FINAL
1.							
2.							

### SIMULATOR - REMOTE FUNCTIONS:

	REMOTE FUNC. No.	REMOTE FUNCTION TITLE	DELAY	RAMP	EVENT	VALUE	FINAL
1.							
2.							

## JPM-3139-001 (CONTROL ROOM SHIFT TURNOVER CHECKLIST) Rev.0 ATTACHMENT 1 JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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

REV	EW STATEMENTS	YES	NO	N/A
1.	Are all items on the signature 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.	Does 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.	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?			
9.	Is the K/A appropriate to the task and to the licensee level if required?			
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 and made available to the trainee?			
12.	Are all references identified, current, accurate, and available to the trainee?			
13.	Have all required cues (as anticipated) been identified for the evaluator to assist task completion?			

All questions/statements must be answered "YES" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation **SHALL** 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
Historical Record: (Optional)	

Committed to Nuclear Excellence	JOB PERFORMANCE MEASURE (JPM)					
SITE:	SITE: MONTICELLO NUCLEAR GENERATING PLANT					
JPM TITLE:	DETERMINE SHIFT STAFF	FING				
JPM NUMBER:	JPM OWI-01.06-003	<b>REV.</b> 0				
RELATED PRA INFORMATION:	None					
TASK NUMBER(S) / TASK TITLE(S):	SS299.289 Implement the Operations G Assignments	Group Organization and Responsibilities				
K/A NUMBERS: 2	.1.4	Rating: SRO/RO: 3.4 / 2.3				
APPLICABLE METHOD	OF TESTING:					
	Discussion:	Simulate/walkthrough: Perform:	x			
EVALUATION LOCATIO	<b>DN:</b> In-Plant:	Control Room:				
	Simulator:	Other: X				
	Lab:					
Time for Comple	tion: <u>15</u> Minutes	Time Critical: <u>No</u>				
Alternate Path / F	aulted: <u>No</u>					
TASK APPLICABILITY	: SRO: X SRO	D/RO: SRO/RO/NLO:				
Additional signatures ma	y be added as needed.					
Developed by:	I D.146					
Developed by:	Instructor	Date				
Validated by:						
valluated by.	Validation Instr	Tuctor Date				
(See JPM Validation Checklist, Attachment 1)						
Approved by:	Training Super	avisor Doto				
	Training Super	visui Dale				

JPM-OWI-01.06-003 (DETERMINE SHIFT STAFFING) Rev. 0

JPM Number:	JPM-OWI-01.06-003		
JPM Title:	Determine Shift Staffing		
Examinee:		Evaluator:	
Job Title:		Date:	
Start Time		Finish Time	
PERFORMANCE I	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

### (See MTCP-03.32, Figure 6.2)

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 fully qualified CRS at the beginning of a shift change
- The reactor is operating in MODE 1
- The following Operations personnel have reported to work:
  - Mitchell
  - Alfano
  - Mack
  - Casperson
  - Rose
  - Dowd
  - Kreidler

### INITIATING CUES (IF APPLICABLE):

- Determine if the staffing requirements are met for the Control Room and the following On-shift collateral duties:
  - Fire Brigade
  - Toxic Gas
  - S/D Outside the Control Room

#### JPM PERFORMANCE INFORMATION

Required Materials:MTF-7600-002, Monticello Fire Brigade Training Summary, Monticello Nuclear<br/>Generating Plant Operations Department Organization/QualificationGeneral References:OWI-01.06 Rev. 28

 Task Standards:
 Determine Staffing Requirements

Start Time:

<u>NOTE</u>: 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).

<u>NOTE</u>: 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.

Refers to OWI-01.06, DUTY OPERATIONS PERSONNEL REQUIREMENTS AND RESPONSIBILITIES
Refers to OWI for guidance
None
Requirements for Control Room staffing are listed in the TRM table 5.2-1
Reviews requirements of Table 5.2-1 and determines requirements are met by having a total number of operators is 4 of which 2 are SROs. (May note that both Alfano and Casperson have "no solo" status.
None
(May note that both Alfano and Casperson have "no solo" status.)

JPM-OWI-01.06-003 (DETERMINE SHIFT STAFFING) Rev. 0				
Performance Step: 3 Critical: Y	<ul> <li>On-shift collateral duties require the following staffing:</li> <li>1. Fire Brigade:</li> <li>Five duty crew members normally filled by the following individuals: BOP, two NAPEOs, Shift Chemist, Shift Rad Prot Spec. These individuals are required to be respirator qualified.</li> </ul>			
Standard:	Assigned Casperson, and 2 of either Rose, Dowd or Kreidler to Fire Brigade.			
Evaluator Cue:	If asked, inform the candidate that all non-operations required individuals are available and respirator qualified.			
Performance: Comments:				

Performance Step: 4	On-shift collateral duties require the following staffing:
	Technical specifications requires two active SROs and two active ROs while in Startup or Run mode. The Shift Mgr, Control Room Supv, and two of the three Control room Operators satisfy this requirement. These individuals are required by A.4 (HAZARDOUS MATERIALS PROCEDURES) to be respirator qualified.
Standard:	Determines that any 2 of the 3 ROs will satisfy the requirement.
Evaluator Cue:	Acknowledges report
Performance:	
Comments:	

Performance Step: 5 Critical: Y	<ul> <li>On-shift collateral duties require the following staffing:</li> <li>3. S/D Outside the Control Room:</li> <li>Three duty crew members are required to effectively implement C.4-C</li> <li>(SHUTDOWN OUTSIDE CONTROL ROOM). Normally four individuals are available to implement this procedure. These individuals cannot simultaneously have fire Brigade duties. (Fire in the Control room or Cable spreading Room requires both Fire Brigade and C.4-C implementation). The Shift Mgr, NLPE&amp;RO, NPE&amp;RO, and NAPEO normally satisfies this requirement. There are no respirator qualifications associated with this requirement.</li> </ul>
Standard:	Determines this requirement can be met.
Evaluator Cue:	None
Performance:	
Comments:	

Performance Step: Critical: N	INFORM EVALUATOR THAT THE TASK HAS BEEN COMPLETED.
Standard:	Operator informs evaluator that the task is completed.
Evaluator Cue:	When the operator informs evaluator that the task is completed state that the JPM is complete.
Performance:	
Comments:	
Terminating Cues:	When the operator informs evaluator that the task is completed state that the JPM is complete.
Stop Time:	
Critical Time N/A	

# TURNOVER SHEET

# **INITIAL CONDITIONS:**

- You are a fully qualified CRS at the beginning of a shift change
- The reactor is operating in MODE 1
- The following Operations personnel have reported to work:
  - Mitchell
  - Alfano
  - Mack
  - Casperson
  - Rose
  - Dowd
  - Kreidler

# INITIATING CUES (IF APPLICABLE):

- Determine if the staffing requirements are met for the Control Room and the following On-shift collateral duties:
  - Fire Brigade
  - Toxic Gas
  - S/D Outside the Control Room

### SIMULATOR SET UP:

Admin JPM; no simulator setup required.

# SIMULATOR - MALFUNCTIONS:

	MALF ID	MALFUNCTION TITLE	DELAY	RAMP	EVENT	VALUE	FINAL.
1.							
2.							

# SIMULATOR - OVERRIDES:

	OVERRIDE ID.	OVERRIDE	DELAY	RAMP	EVENT	VALUE	FINAL
		DESCRIPTION					
1.							
2.							

## SIMULATOR - REMOTE FUNCTIONS:

	REMOTE	REMOTE FUNCTION TITLE	DELAY	RAMP	EVENT	VALUE	FINAL
	FUNC. No.						
1.							
2.							
				•	•	•	

# JPM-OWI-01.06-003 (DETERMINE SHIFT STAFFING) Rev. 0

**ATTACHMENT 1** 

# JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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

REVIEW STATEMENTS		YES	NO	N/A
1. Are all items on the signature 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. Does the performance steps accurately reflect trainee's ac accordance with plant procedures?	tions in			
5. Is the standard for each performance item specific as to wh controls, indications and ranges are required to evaluate if trainee properly performed the step?	nat the			
6. Has the completion time been established based on valida or incumbent experience?	tion data			
<ol> <li>If the task is time critical, is the time critical portion based u actual task performance requirements?</li> </ol>	ipon			
8. Is the Licensee level appropriate for the task being evaluat required?	ed if			
9. Is the K/A appropriate to the task and to the licensee level required?	if			
10. Have the performance steps been identified and typed (Cri Sequence / Time Critical) appropriately?	tical /			
11. Have all special tools and equipment needed to perform th been identified and made available to the trainee?	e task			
12. Are all references identified, current, accurate, and availab trainee?	le to the			
13. Have all required cues (as anticipated) been identified for t evaluator to assist task completion?	he			

All questions/statements must be answered "YES" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation **SHALL** 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
Historical Record: (Optional)	

Committed to Nuclear Excellence	JOB PERFORMANCE MEASURE (JPM)								
SITE:	MONTICELLO NUCLEAR GENERATING PLANT								
JPM TITLE:	DAILY JET PUMP OPERABILITY CHECK TEST 0133								
JPM NUMBER:	JPM-0133-001 <b>REV.</b> 0								
RELATED PRA INFORMATION:	None								
TASK NUMBER(S) / TASK TITLE(S):	CR299.349 Perform Operations Daily Log – Parts A, B, D, E, G, H, & J								
K/A NUMBERS: 2	Rating: SRO/RO:     3.4/3.0								
APPLICABLE METHOD	O OF TESTING:								
	Discussion: Simulate/walkthrough: Perform: X								
EVALUATION LOCATION	ON: In-Plant: Control Room:								
	Simulator: X Other:								
	Lab:								
Time for Comple	tion: <u>15</u> Minutes Time Critical: <u>No</u>								
Alternate Path / I	Faulted: <u>No</u>								
	Y: SRO: SRO/RO:X SRO/RO/NLO:								
Additional signatures ma	ay be added as needed.								
Developed by:	J Ruth Instructor Date								
Validated by:	Validation Instructor Date								
	(See JPM Validation Checklist, Attachment 1)								
Approved by:									
	Training Supervisor Date								

JPM Title:	Daily Jet Pump Ope	rability Check Test 0133		
Examinee:		Eva	luator:	
Job Title:			Date:	
Start Time		Finis	h Time	
PERFORMANCE R	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-0133-001 (DAILY JET PUMP OPERABILITY CHECK TEST 0133) Rev.0

### JPM BRIEFING/TURNOVER

### (See MTCP-03.32, Figure 6.2)

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 reactor is operating at power
- You are the BOP operator

### INITIATING CUES (IF APPLICABLE):

 The CRS directs you to perform Test 0133, Daily Jet Pump Operability Check per Operations Daily Log – Part B JPM-0133-001 (DAILY JET PUMP OPERABILITY CHECK TEST 0133) Rev.0

#### JPM PERFORMANCE INFORMATION

Required Materials:	Individual Jet Pum	p dP readings,	B.01.04-06 Fig	ures 15, 16 & 17.
			3	

General References: Simulator IC at 100% power.

Task Standards: Complete Test 0133 (Expected readings are provided in red.)

Start Time:

<u>NOTE</u>: 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).

<u>NOTE</u>: 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: Y	<u>NOTE:</u> STEP 3.b. and 3.c. not required to be performed until 4 hours after associated recirculation loop is in operation and until 24 hours after THERMAL POWER >25% RTP.								
	<u>IF</u> the Reactor is in MODE 1 or 2, <u>AND</u> recirculation loop(s) is in operation, <u>THEN</u> obtain and record the values for the operating loop(s) described in the matrices below and perform the following:								
	Variable	Variable Panel Item Description Value Unit							
		CRT RPV501, Core Thermal Power % ~99.9 %							
	A	C-04	SI-2-184-16A, Recirc Pump 11 %Speed	~95	%				
	В	C-04	SI-2-184-16B, Recirc Pump 12 %Speed	~96	%				
	С	C-04	FI-2-159A, Recirc Loop 11 Flow	~29.1	gpm				
	D	C-04	FI-2-159B, Recirc Loop 12 Flow	~29.3	gpm				
Standard:	Obtains and	Obtains and records the above data.							
Evaluator Cue:	None								
Performance: Comments:									
Comments:									

JPM-0133-001 (DAILY JET PUMP OPERABILITY CHECK TEST 0133) Rev.0							
Performance Step: 2 Critical: Y	On Figure 17, Recirculation Pump Flow vs Speed, of Ops Man B.01.04-06 (REACTOR RECIRCULATION SYSTEM – FIGURES) plot points for values of variables A vs C and variables B vs D. 1) Does point A vs C fall in ACCEPTABLE RANGE? Yes No						
	2) Doe	s point B ve	D fall in ACCEPTABLE RANGE?				
		Y	es 🗌 No 🗌				
Standard:	Plots points	and detern	nines values are in the acceptable rar	ige.			
Evaluator Cue:	None						
Performance:	SATISFAC						
Comments:							
Performance Step: 3 Critical: Y	Performance Step: 3 Critical: Y						
	Variable	Panel	Item Description	Value	Unit		
	E	C-04	FI-2-3-92B, Jet Pump Loop A Flow	~27.8 x 10 <sup>6</sup>	lb/hr		
	F	C-04	FI-2-3-92A, Jet Pump Loop B Flow	~27.1 x 10 <sup>6</sup>	lb/hr		
	G	calc	$(E \div L) \times 100. \%$ Loop A Flow	~97	%		

	E	C-04	FI-2-3-92B, Jet Pump Loop A Flow	<b>~27.8</b> x 10 <sup>6</sup>	lb/hr			
	F	C-04	FI-2-3-92A, Jet Pump Loop B Flow	<b>~27.1</b> x 10 <sup>6</sup>	lb/hr			
	G	calc	(E ÷ L) X 100, % Loop A Flow	~97	%			
	Н	calc	(F ÷ L) X 100, % Loop B Flow	~94	%			
	J	calc	(G ÷ A) % Loop Flow / % Pump	~102	ratio			
			Speed					
	K	calc	(H ÷ B) % Loop Flow / % Pump	~98	ratio			
			Speed					
	L=Constan	t	Half of rated Core Flow	28.8 x 10 <sup>6</sup>	lb/hr			
	М	calc	(E÷(L x 2)) x 100%, % Core Flow	~48.26	%			
	N	calc	(F÷(L x 2)) x 100%, % Core Flow	~47.07	%			
Standard:	Obtains and records the above data.							
Evaluator Cue:	None							
Performance:	SATISFACTORY UNSATISFACTORY							
JPM-0133-0	01 (DAILY JET PUMP OPERABILITY CHECK TEST 0133) Rev.0							
------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------							
Performance Step: 4 Critical: Y	IF THERMAL POWER IS >25% RTP, THEN on Figure 15, Loop A: Jet Pump Loop Flow/Pump Speed, of Ops Man B.01.04-06 plot points for values of variables J vs A.							
	1) Does point J vs A fall in ACCEPTABLE RANGE?							
	Yes 🗌 No 🗌 N/A 🗌							
Standard:	Plots points and determines values are in the acceptable range.							
Evaluator Cue:	None							
Performance:								
Comments:								
Performance Step: 5 Critical: Y	IF THERMAL POWER IS >25% RTP, <u>THEN</u> on Figure 16, Loop B: Jet Pump Loop Flow/Pump Speed, of Ops Man B.01.04-06 plot points for values of variables K vs B.							
	1) Does point K vs B fall in ACCEPTABLE RANGE? Yes No N/A							
Standard:	Plots points and determines values are in the acceptable range.							
Evaluator Cue:	None							
Performance:								
Comments:								
Performance Step: 6 Critical: N	IF any question in STEPs 3.a. through 3.c. is checked "No", <u>THEN</u> notify Control Room Supervisor, <u>AND</u> perform procedure 0442 (SPECIAL JET PUMP OPERABILITY TEST).							
Standard:	Determines no step is "No".							
Evaluator Cue:	None							
Performance:								
Comments:								

JPM-0133-0	01 (DAILY JET PUMP OPERABILITY CHECK TEST 0133) Rev.0
Performance Step: 7 Critical: Y	<ul> <li><u>IF</u> in MODE 1 or 2, AND both recirculation loops are in operation, <u>THEN</u>:</li> <li>1) Calculate percent of total rated core flow (M + N) <u>~95.3</u>%</li> </ul>
Standard:	Calculates percent of total rated core flow.
Evaluator Cue:	None
Performance:	
Comments:	
Performance Step: 8 Critical: Y	<ul> <li>IF in MODE 1 or 2, AND both recirculation loops are in operation, <u>THEN</u>:</li> <li>2) Calculate absolute value (M - N), Jet Pump Flow Mismatch <u>~1.19</u>%</li> </ul>
Standard:	Calculates absolute value.
Evaluator Cue:	None
Performance:	
Comments:	
Performance Step: 9 Critical: N	IF in MODE 1 or 2, AND both recirculation loops are in operation, <u>THEN</u> : 3) IF percent of total rated core flow from STEP 3.e.1) is <70%, <u>THEN</u> is the Jet Pump Flow Mismatch from STEP 3.e.2) ≤10%? Yes No N/A
Standard <sup>.</sup>	Determines this step is N/A
Evaluator Cue:	None
Performance:	
Comments:	

JPM-0133-001 (DAILY JET PUMP OPERABILITY CHECK TEST 0133) Rev.0				
Performance Step: 10 Critical: Y	IE in MODE 1 or 2, AND both recirculation loops are in operation, THEN :			
	<ol> <li>IF percent of total rated core flow from STEP 3.e.1) is ≥70%, <u>THEN</u> is the Jet Pump Flow Mismatch from STEP 3.e.2) ≤5%?</li> </ol>			
	Yes 🗌 No 🗌 N/A 🗌			
Standard:	Determines Jet Pump Flow Mismatch is ≤5%.			
Evaluator Cue:	None			
Performance:				
Comments:				

Performance Step: 11 Critical: N	<u>IF</u> any question in STEP 3.e. is checked "No", <u>THEN</u> notify Control Room Supervisor, <u>AND</u> evaluate Tech Spec 3.4.1 and enter appropriate Condition.
Standard:	Determines no step is "No".
Evaluator Cue:	None
Performance:	
Comments:	

Performance Step: 12	IF the Reactor is in MODE 1,			
Critical: Y	AND there is recirculation flow,			
	THEN perform the following:			
	<ul> <li>a. From FPR-2-3-95 (C-04), Core dP Red Pen, record dP: (~17)</li> </ul>			
	<ul> <li>Record the square root of Core dP (from a. above): (~4.1)</li> </ul>			
	c. From CRT mimic obtain and record Core Flow: (~55.2 X 10°)			
	d. Calculate and record 100 x (c. $\div$ 57.6 x10° lb/hr): (~95.8)			
	e. On Figure 20 Core Plate dP vs Core Flow, of Ops Man B.01.04-06 plot			
	point for value of b. vs d. above.			
Others devid	Obtains and records the should dete			
Standard:	Obtains and records the above data.			
Evelveter Over	Nexe			
Evaluator Cue:	None			
Destances				
Performance:				
Comments:				

JPM-0133-001 (DAILY JET PUMP (	OPERABILITY CHECK TEST 0133) Rev.0
--------------------------------	------------------------------------

Performance Step: 13 Critical: Y	On figure 20 Core Plate dP vs. Core Flow, of Ops Man B.01.04-06 plot point for value b. vs. d. above.			
	1) Does point for b. vs. d fall in ACCEPTABLE RANGE?			
	Yes 🗌 No 🗌			
	<ol> <li><u>IF</u> No, <u>THEN</u> notify Shift Supervision to determine actions and notifications.</li> </ol>			
Standard:	Plots points and determines values are in the acceptable range.			
Evaluator Cue:	None			
Performance:				
Comments:				
Performance Step: 14				

Critical: Y	<u>AND</u> THERMAL POWER >25% RTP with a recirculation loop in operation, <u>THEN</u> from FR-7288, JET PUMP FLOW RECORDER (Panel C-38), record individual Jet Pump and loop average dPs in the matrix below and perform the following:						
		Loop A				Loop B	
	Jet	Raw	DP/Loop		Jet	Raw	DP/Loop
	Pump	dP	Avg		Pump	dP	Avg
	11	2.8	1		1	2.8	1
	12	2.8	1		2	2.6	0.93
	13	2.7	0.96		3	2.7	0.96
	14	2.8	1	_	4	2.9	1.03
	15	2.6	0.93		5	2.7	0.96
	16	2.9	1.03		6	2.8	1
	17	2.8	1		7	2.7	0.96
	18	2.7	0.96		8	2.6	0.93
	19	2.8	1	-	9	2.7	0.96
	20	2.6	0.93	_	10	2.7	0.96
	Loop Avg dP	2.8			Loop Avg dP	2.8	
Standard:	Records dat	ta provided.					
Evaluator Cue:	Provide individual Jet Pump Raw dP data.						
Performance:							
Comments:							

JPM-0133-001 (DAILY JET PUMP OPERABILITY CHECK TEST 0133) Rev.0		
Performance Step: 15 Critical: Y	For each loop divide each individual Jet Pump raw dP by its Loop Average dP and record in matrix.	
Standard:	Divides and records in matrix.	
Evaluator Cue:	None	
Performance:		
Comments:		

IF the Reactor is in MODE 1,			
AND Recirc Pump speed (SI-2-184-16A&B on C04) >50%,			
THEN perform the following:			
a. Record 2-184-23A (C04), A Pump Volts, indication: (~3500 Volts)			
<ul> <li>b. Record 2-184-23B (C04), B Pump Volts, indication: (~3550 Volts)</li> </ul>			
<ul> <li>Record SI-2-184-16A, Recirc Pump 11 %Speed, indication: (~95)</li> </ul>			
<ul> <li>Record SI-2-184-16B, Recirc Pump 12 %Speed, indication: (~96)</li> </ul>			
<ul> <li>Record result of a. ÷ c.: (~36.8) Volts/% Speed for 11(35.5 – 40.5)</li> </ul>			
f. Record result of b. ÷ d.: (~37) Volts/% Speed for 12 (35.5 – 40.5)			
Obtains and records above parameters.			
None			
SATISFACTORY 📋 UNSATISFACTORY 📋			

Performance Step: 17 Critical: N	<u>IF</u> either acceptance criteria is not met, <u>THEN</u> on Panel C-21from TR-2-184-26, RECIRC MG SET WINDING TEMP, and TR-2-2-31, RECIRC PUMP AND MTR TEMP, verify MG set generator and Recirc pump motor winding temperatures are normal and not unexpectedly trending up, <u>AND</u> notify Shift Supervision to determine actions and notifications.
Standard:	Determines acceptance criteria is met.
Evaluator Cue:	None
Performance:	
Comments:	

JPM-0133-001 (DAILY JET PUMP OPERABILITY CHECK TEST 0133) Rev.0		
Performance Step: 18 Critical: N	INFORM EVALUATOR THAT THE TASK HAS BEEN COMPLETED.	
Standard:	Operator informs evaluator that the task is completed.	
Evaluator Cue:	Acknowledge report of task completion.	
Performance:		
Comments:		
Terminating Cues: AF	TER TASK COMPLETION REPORT IS MADE, STATE THAT THE JPM IS MPLETE.	
Stop Time:	_	

Critical Time <u>N/A</u>

#### JPM-0133-001 (DAILY JET PUMP OPERABILITY CHECK TEST 0133) Rev.0

### **TURNOVER SHEET**

#### **INITIAL CONDITIONS:**

- The reactor is operating at power
- You are the BOP operator

#### INITIATING CUES (IF APPLICABLE):

 The CRS directs you to perform Test 0133, Daily Jet Pump Operability Check per Operations Daily Log – Part B

#### SIMULATOR SET UP:

• IC-15 or other 100% power IC.

#### SIMULATOR - MALFUNCTIONS:

	MALF ID	MALFUNCTION TITLE	DELAY	RAMP	EVENT	VALUE	FINAL.
1.							
2.							

#### SIMULATOR - OVERRIDES:

	OVERRIDE ID.	OVERRIDE	DELAY	RAMP	EVENT	VALUE	FINAL
		DESCRIPTION					
1.							
2.							

#### SIMULATOR - REMOTE FUNCTIONS:

	REMOTE FUNC. No.	REMOTE FUNCTION TITLE	DELAY	RAMP	EVENT	VALUE	FINAL
1.							
2.							

#### JPM-0133-001 (DAILY JET PUMP OPERABILITY CHECK TEST 0133) Rev.0 ATTACHMENT 1 JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the signature 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. Does 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. 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?			
9. Is the K/A appropriate to the task and to the licensee level if required?			
<ol> <li>Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?</li> </ol>			
11. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?			
12. Are all references identified, current, accurate, and available to the trainee?			
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?			

All questions/statements must be answered "YES" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation **SHALL** 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
Historical Record: (Optional)	

Committed to Nuclear Excellence	JOB PERFORMANCE MEASURE (JPM)					
SITE:	MONTICELLO NUCLEAR GENERATING PLANT					
JPM TITLE:	DAILY JET PUMP OPERABILITY CHECK TEST 0133					
JPM NUMBER:	JPM-0133-002 <b>REV.</b> 0					
RELATED PRA INFORMATION:	None					
TASK NUMBER(S) / TASK TITLE(S):	CR299.349 Perform Operations Daily Log – Parts A, B, D, E, G, H, & J					
K/A NUMBERS: 2	2.1.12 Rating: SRO/RO: 3.4/3.0					
APPLICABLE METHO	D OF TESTING:					
	Discussion: Simulate/walkthrough: Perform: X					
EVALUATION LOCATI	ON: In-Plant: Control Room:					
	Simulator: X Other:					
	Lab:					
Time for Comple	etion: <u>15</u> Minutes Time Critical: <u>No</u>					
Alternate Path /	Faulted: <u>Yes</u>					
TASK APPLICABILIT	Y: SRO: X SRO/RO: SRO/RO/NLO:					
Additional signatures ma	ay be added as needed.					
Developed by:	J Ruth Instructor Date					
Validated by:	Validation Instructor Date					
	(See JPM Validation Checklist, Attachment 1)					
Approved by:						
	Training Supervisor Date					

QF-1030-11 Rev. 2 (FP-T-SAT-30) JPM-0133-002 (DAILY JET PUMP OPERABILITY CHECK TEST 0133) Rev.0

JPM Number:	JPM-0133-002	-	
JPM Title:	Daily Jet Pump Operability Check	Test 0133	
Examinee:		_ Evaluator:	
Job Title:		Date:	
Start Time		Finish Time	
PERFORMANCE I	RESULTS: SA	T:	UNSAT:

### 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-0133-002 (DAILY JET PUMP OPERABILITY CHECK TEST 0133) Rev.0

#### JPM BRIEFING/TURNOVER

(See MTCP-03.32, Figure 6.2)

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 reactor is operating at power
- Test 0133, Daily Jet Pump Operability Check per Operations Daily Log Part B has been completed by the RO
- You are the CRS

#### **INITIATING CUES (IF APPLICABLE):**

• Review the provided Test 0133, Daily Jet Pump Operability Check per Operations Daily Log – Part B

JPM-0133-002 (DAILY JET PUMP OPERABILITY CHECK TEST 0133) Rev.0

#### JPM PERFORMANCE INFORMATION

**Required Materials:** Marked up copy of completed test, B.01.04-06 Figures 15, 16 & 17.

**General References:** Simulator IC at 100% power.

Task Standards:Complete Test 0133 review.

Start Time:

<u>NOTE</u>: 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).

<u>NOTE</u>: 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	<u>NOTE:</u> STEP 3.b. and 3.c. not required to be performed until 4 hours after associated recirculation loop is in operation and until 24 hours after THERMAL POWER >25% RTP.						
	<u>IF</u> the React <u>AND</u> recircu <u>THEN</u> obtair matrices bel	<u>IF</u> the Reactor is in MODE 1 or 2, <u>AND</u> recirculation loop(s) is in operation, <u>THEN</u> obtain and record the values for the operating loop(s) described in the matrices below and perform the following:					
	Variable	Panel	Item Description	Value	Unit		
		CRT	RPV501, Core Thermal Power %	99.9	%		
	А	C-04	SI-2-184-16A, Recirc Pump 11 %Speed	94	%		
	В	C-04	SI-2-184-16B, Recirc Pump 11 %Speed	96	%		
	C	C-04	FI-2-159A, Recirc Loop 11 Flow	25	gpm		
	D	C-04	FI-2-159B, Recirc Loop 12 Flow	27	gpm		
Standard:	Reviews the above data.						
Evaluator Cue:	None						
Performance:							
Comments:							

JPM-0133-0	JPM-0133-002 (DAILY JET PUMP OPERABILITY CHECK TEST 0133) Rev.0					
Performance Step: 2 Critical: Y	On Figure 17, Recirculation Pump Flow vs Speed, of Ops Man B.01.04-06 (REACTOR RECIRCULATION SYSTEM – FIGURES) plot points for values of variables A vs C and variables B vs D. 1) Does point A vs C fall in ACCEPTABLE RANGE?					
	Yes No					
	2) Does point B vs D fall in ACCEPTABLE RANGE?					
	Yes 🗌 No 🗌					
Standard:	Reviews points and determines 1) is <b>NOT</b> in the acceptable range and 2) is in the acceptable range.					
Evaluator Cue:	None					
Performance:						
Comments:						

Performance Step: 3					
Critical: N	Variable	Panel	Item Description	Value	Unit
	E	C-04	FI-2-3-92B, Jet Pump Loop A Flow	24.9 x 10 <sup>6</sup>	lb/hr
	F	C-04	FI-2-3-92A, Jet Pump Loop B Flow	26.1 x 10 <sup>6</sup>	lb/hr
	G	calc	(E ÷ L) X 100, % Loop A Flow	86.45	%
	Н	calc	(F ÷ L) X 100, % Loop B Flow	90.62	%
	J	calc	(G ÷ A) X 100, % Loop Flow / %	0.9196	ratio
			Pump Speed		
	K	calc	(H ÷ B) X 100, % Loop Flow / %	0.9439	ratio
			Pump Speed		
	L=Constan	t	Half of rated Core Flow	28.8 x 10 <sup>⁵</sup>	lb/hr
	M	calc	(E÷(L x 2)) x 100%, % Core Flow	43.23	%
	N	calc	(F÷(L x 2)) x 100%, % Core Flow	45.31	%
Standard:	Reviews the	e above dat	a.		
Evaluator Cue:	None				
Performance:	SATISFAC	Tory 🗌			
Comments:					

JPM-0133-0	02 (DAILY JET PUMP OPERABILITY CHECK TEST 0133) Rev.0
Performance Step: 4 Critical: Y	IF THERMAL POWER IS >25% RTP, THEN on Figure 15, Loop A: Jet Pump Loop Flow/Pump Speed, of Ops Man B.01.04-06 plot points for values of variables J vs A.
	1) Does point J vs A fall in ACCEPTABLE RANGE?
	Yes 🗌 No 🗌 N/A 🗌
Standard:	Review points and determines values are <b>NOT</b> in the acceptable range.
Evaluator Cue:	If informed, acknowledge that point does not fall within the acceptable range.
Performance:	
Comments:	
Performance Step: 5 Critical: Y	<ul> <li>IE THERMAL POWER IS &gt;25% RTP, <u>THEN</u> on Figure 16, Loop B: Jet Pump Loop Flow/Pump Speed, of Ops Man B.01.04-06 plot points for values of variables K vs B.</li> <li>1) Does point K vs B fall in ACCEPTABLE RANGE? Yes □ No □ N/A □</li> </ul>
Standard:	Reviews points and determines values are <b>NOT</b> in the acceptable range.
Evaluator Cue:	If informed, acknowledge that point does not fall within the acceptable range.
Performance:	
Comments:	
Performance Step: 6 Critical: Y	IE any question in STEPs 3.a. through 3.c. is checked "No", THEN notify Control Room Supervisor, AND perform procedure 0442 (SPECIAL JET PUMP OPERABILITY TEST).
Standard:	When informed, acknowledge that performance of procedure 0442 is required and state that the JPM is complete.

SATISFACTORY 🗌 UNSATISFACTORY 🗌

Evaluator Cue:

Performance:

Comments:

None

JPM-0133-002 (DAILY JET PUMP OPERABILITY CHECK TEST 0133) Rev.0

Terminating Cues: EVALUATOR INFORMS OPERATOR THAT THE JPM IS COMPLETE.

Stop Time:

Critical Time <u>N/A</u>

#### JPM-0133-002 (DAILY JET PUMP OPERABILITY CHECK TEST 0133) Rev.0

### **TURNOVER SHEET**

#### **INITIAL CONDITIONS:**

- The reactor is operating at power
- Test 0133, Daily Jet Pump Operability Check per Operations Daily Log Part B has been completed by the RO
- You are the CRS

#### INITIATING CUES (IF APPLICABLE):

• Review the provided Test 0133, Daily Jet Pump Operability Check per Operations Daily Log - Part B

#### SIMULATOR SET UP:

• Admin JPM – no simulator setup is required.

#### SIMULATOR - MALFUNCTIONS:

	MALF ID	MALFUNCTION TITLE	DELAY	RAMP	EVENT	VALUE	FINAL.
1.							
2.							

#### SIMULATOR - OVERRIDES:

	OVERRIDE ID.	OVERRIDE	DELAY	RAMP	EVENT	VALUE	FINAL
		DESCRIPTION					
1.							
2.							

#### SIMULATOR - REMOTE FUNCTIONS:

	REMOTE FUNC. No.	REMOTE FUNCTION TITLE	DELAY	RAMP	EVENT	VALUE	FINAL
1.							
2.							

#### JPM-0133-001 (DAILY JET PUMP OPERABILITY CHECK TEST 0133) Rev.0 ATTACHMENT 1 JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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

REV	EW STATEMENTS	YES	NO	N/A
1.	Are all items on the signature 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.	Does 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.	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?			
9.	Is the K/A appropriate to the task and to the licensee level if required?			
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 and made available to the trainee?			
12.	Are all references identified, current, accurate, and available to the trainee?			
13.	Have all required cues (as anticipated) been identified for the evaluator to assist task completion?			

All questions/statements must be answered "YES" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation **SHALL** 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
Historical Record: (Optional)	

Committed to Nuclear Excellence	JOB PERFORMANCE MEASURE	(JPM)
SITE:	MONTICELLO NUCLEAR GENERATING PLANT	
JPM TITLE:	HIGH RADIATION AREA ENTRY	
JPM NUMBER:	JPM-4 AWI-08.04.06-002 <b>REV.</b>	1
RELATED PRA INFORMATION:	None	
TASK NUMBER(S) / TASK TITLE(S):	CR999.299 ADMINISTRATIVE PROCEDURES	
K/A NUMBERS: 2	2.3.10 Rating: SR	<b>D/RO:</b> 3.3/2.9
APPLICABLE METHOD	O OF TESTING:	
	Discussion: Simulate/walkthroug	h: X Perform:
EVALUATION LOCATIO	ON: In-Plant: Control F	Room:
	Simulator: Other:	X
Time for Complet	Lab: tion:15MinutesTime 0	Critical: <u>NO</u>
Alternate Path / F	Faulted: NO	
TASK APPLICABILITY	<b>/:</b> SRO: SRO/RO: SR	RO/RO/NLO: X
Additional signatures ma	ay be added as needed.	
Developed by	L Duth	
Developed by:	J. Ruth Instructor	Date
Validated by:		
	Validation Instructor (See JPM Validation Checklist, Attachment 1)	Date
Approved by:	Training Supervisor	Date

JPM-4 AWI-08.04.06-002 (HIGH RADIATION AREA ENTRY) Rev. 0

JPM Number:	JPM-4 AWI-08.04.06-002		
JPM Title:	HIGH RADIATION AREA ENTR	RY	
Examinee:		Evaluator:	
Job Title:		Date:	
Start Time		Finish Time	
PERFORMANCE I	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-4 AWI-08.04.06-002 (HIGH RADIATION AREA ENTRY) Rev. 0

#### JPM BRIEFING/TURNOVER

(See MTCP-03.32, Figure 6.2)

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 task conditions are as follows:

- The plant is at 100% power.
- The RWCU pump room must be entered and MO-2398 must be inspected for potential valve stem leakage.
- You are an extra operator on shift
- Provide Survey Map
- Provide RWP

#### INITIATING CUES (IF APPLICABLE):

"[STATE OPERATOR'S NAME] the CRS directs you to perform the specific instructions per 4 AWI-08.04.06 for a non routine entry into the posted locked high radiation area for the inspection.

JPM-4 AWI-08.04.06-002 (HIGH RADIATION AREA ENTRY) Rev. 0

#### JPM PERFORMANCE INFORMATION

Start Time:	
Task Standards:	PERFORM INDIVIDUAL EXPOSURE CONTROL DUTIES
General References:	4 AWI-08.04.06, AREA CONTROL
Required Materials:	SURVEY MAP AND RWP FOR HI RADIATION AREA TO BE ENTERED

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	Provided a copy of 4 AWI-08.04.06 (AREA CONTROL) reviews procedure and locates Section 4.4.2 specific instructions for high, locked high, and very high radiation areas.
Standard:	Locates appropriate section of procedure.
Evaluator Cue:	Provide copy of procedure 4 AWI-08.04.06 (AREA CONTROL)
Performance: Comments:	

Performance Step: 2 Critical: N	<ul> <li>Specific instructions for high, lock high, and very high radiation areas.</li> <li>A. Obtain any required special approvals as follows: <ol> <li>Locked High Radiation Area:</li> <li>Non-routine entries your supervisor (if on site), the Shift Manager's, or the Rad Prot Coord's approval prior to the entry. Supervisors may approve their own entries.</li> </ol> </li> <li>Very High Radiation Area <ul> <li>You SHALL obtain written approval from the plant manager, which is based on a sound operational or safety reason.</li> </ul> </li> </ul>
	Determines neither of the above conditions apply as the entry is for a high radiation area.
Standard:	Determines step is applicable.
Evaluator Cue:	If asked, state that the entry has been approved.
Performance:	
Comments:	
Performance Step: 3 Critical: N	Obtain a high radiation area pre-entry briefing from the Radiation Protection staff. This briefing and all high radiation area requirements of the RWP are required if any part of the body breaks the plane of the boundary, even if permission to reach over was granted.
Standard:	Determines that a radiological briefing must be performed.
Evaluator Cue:	State that the radiological briefing has been performed.
Performance:	
Commente	

JPM-4 AWI-08.04.06-002 (	HIGH RADIATION AREA ENTRY	) Rev. 0
		,

Performance Step: 4 Critical: Y	<ul> <li>Prepare to perform your individual exposure control duties as follows:</li> <li>1. You <i>SHALL</i> determine the expected area does rates for all regions of the area you will be entering by reviewing area surveys.</li> <li>Reviews areas surveys provided and determines the dose rate for the inspection is 1200 Mrem/hr at the valve and 180 Mrem/hr in the general vicinity of the valve.</li> </ul>
Standard:	Determines dose rates will be 1200 Mrem/hr at the valve and 180 Mrem/hr in the general vicinity of the valve.
Evaluator Cue:	None
Performance: Comments:	

Performance Step: 5 Critical: Y	<ul><li>Prepare to perform your individual exposure control duties as follows:</li><li>2. Determine the expected duration of the entry and the expected dose needed to make the entry.</li></ul>
	Operator determines expected dose using determined dose rate and given duration of entry.
Standard:	Determines expected dose to be 115 Mrem.
Evaluator Cue:	State the expected duration of the entry is 5 minutes at the valve and an additional 5 minutes in the general vicinity of the valve.
Performance:	
Comments:	

Performance Step: 6 Critical: Y	<ul> <li>Prepare to perform your individual exposure control duties as follows:</li> <li>3. Determine the allowable entry dose, either from the electronic dosimeter log-in process, from the local point, or from your dosimeter.</li> </ul>
	Operator determines the does alarm and dose rate alarm setpoints are too low for the performance of this task.
Standard:	Operator determines the does alarm and dose rate alarm setpoints are too low for the performance of this task.
Evaluator Cue:	If reported, acknowledge the report.
Performance: Comments:	

JPM-4 AWI-08.04.06-002 (HIGH RADIATION AREA ENTRY) Rev. 0				
Performance Step: 7 Critical: Y	<ul> <li>Prepare to perform your individual exposure control duties as follows:</li> <li>4. <u>IF</u> the allowable entry dose is less than the expected entry dose, <u>THEN</u> you <b>SHALL</b> report to the Rad Prot Coord for resolution.</li> </ul>			
Standard:	Operator determines the allowable entry dose is less than the expected entry dose and reports to the Rad Prot Coord.			
Evaluator Cue:	Acknowledge report as the Rad Prot Coord.			
Performance: Comments:				

Terminating Cues: WHEN REPORT IS MADE, STATE THAT THE JPM IS COMPLETE.

- Stop Time:
- Critical Time <u>N/A</u>

## TURNOVER SHEET

#### **INITIAL CONDITIONS:**

The task conditions are as follows:

- The plant is at 100% power.
- The RWCU pump room must be entered and MO-2398 must be inspected for potential valve stem leakage.
- You are an extra operator on shift
- Provide Survey Map
- Provide RWP

#### INITIATING CUES (IF APPLICABLE):

"[STATE OPERATOR'S NAME] the CRS directs you to perform the specific instructions per 4 AWI-08.04.06 for a non routine entry into the posted locked high radiation area for the inspection.

#### JPM-4 AWI-08.04.06-002 (HIGH RADIATION AREA ENTRY) Rev. 0

#### SIMULATOR SET UP:

Admin JPM; no simulator setup required.

#### SIMULATOR - MALFUNCTIONS:

	MALF ID	MALFUNCTION TITLE	DELAY	RAMP	EVENT	VALUE	FINAL.
1.							
2.							

#### SIMULATOR - OVERRIDES:

	OVERRIDE ID.	OVERRIDE	DELAY	RAMP	EVENT	VALUE	FINAL
		DESCRIPTION					
1.							
2.							

#### SIMULATOR - REMOTE FUNCTIONS:

	REMOTE FUNC. No.	REMOTE FUNCTION TITLE	DELAY	RAMP	EVENT	VALUE	FINAL
1.							
2.							

### JPM-0045-001, ROD BLOCK MONITOR FUNCTIONAL TEST, Rev. 0 ATTACHMENT 1

### JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the signature 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. Does 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. 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?			
9. Is the K/A appropriate to the task and to the licensee level if required?			
<ol> <li>Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?</li> </ol>			
11. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?			
12. Are all references identified, current, accurate, and available to the trainee?			
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?			

All questions/statements must be answered "YES" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation shall 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
Historical Record: (Optional)	

Committed to Nuclear Excellence	JOB PERFORMANCE MEASURE (JPM)			
SITE:	MONTICELLO NUCLEAR GENERATING PLANT			
JPM TITLE:	OFF-SITE PROTECTIVE ACTION RECOMMENDATIONS			
JPM NUMBER:	JPM-A.2-204-004 <b>REV.</b> 2			
RELATED PRA INFORMATION:	None			
TASK NUMBER(S) / TASK TITLE(S):	SS304.121 Formulate off-site protective action recommendations for the general the early phase of an emergency.	public during		
K/A NUMBERS:	Generic 2.4.44 Rating: SRO/RO: 4.0/2.1			
APPLICABLE METHO	DD OF TESTING:			
	Discussion: Simulate/walkthrough: Per	form: X		
EVALUATION LOCATI	FION:     In-Plant:     Control Room:	]		
	Simulator: X Other:	]		
	Lab:			
Time for Comple	letion: <u>12</u> Minutes Time Critical: <u>YES</u>			
Alternate Path /	/ Faulted: <u>NO</u>			
TASK APPLICABILIT	TY: SRO: <u>X</u> SRO/RO: SRO/RO/NLO:			
Additional signatures m	nay be added as needed.			
Developed by:				
	Instructor Date			
Validated by:				
	Validation Instructor Date (See JPM Validation Checklist Attachment 1)			
Approved by:	Training Supervisor Date			

JPM Number:	JPM-A.2-204-004		
JPM Title:	Off-Site Protective Action Recom	mendations	
Examinee:		Evaluator:	
Job Title:		Date:	
Start Time		Finish Time	
PERFORMANCE I	RESULTS: S	AT:	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

#### (See MTCP-03.32, Figure 6.2)

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:

- THIS IS A DRILL.
- The plant is shutdown in an Emergency Condition. An escalation to a General Emergency has just been declared (EAL RG1.1, Stack Effluent Monitor "A" exceeds 2.1E+8 µcuries/second).
- Current Met Data is:
  - Wind direction (from): 0 degrees
  - Wind speed: 13 mph
  - Temperature: 85°F
  - Precipitation: none
  - Ch. 11 Diff. Temp: -0.79
- Dose assessment is not currently available

#### INITIATING CUES (IF APPLICABLE):

- THIS IS A DRILL.
- Initiate and complete Form 5790-102-02 (MONTICELLO EMERGENCY NOTIFICATION REPORT FORM) and provide to Shift Manager/Emergency Director when complete.
- THIS IS A DRILL.

# <u>INSTRUCTOR NOTE</u>: This JPM is time critical. Start time is when the initiating cue is acknowledged by the examinee. Stop time is when the examinee returns the JPM paper work to you or verbally states the task is complete.

#### JPM PERFORMANCE INFORMATION

Regu	ired	Materials:	None

General References: Simulator

Task Standards: A.2-204 rev 20

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	Locate General Emergency form packet. (May also reference procedure A.2-204 OFF-SITE PROTECTION ACTON RECOMMENDATIONS)
Standard:	Locates General Emergency packet.
Evaluator Cue:	<ul> <li>When examinee locates General Emergency packet, hand them a copy of the material from the packet.</li> <li><u>NOTE</u>: The items covered by JPM steps 2 and 3 may be done in any order as long as the standard for each step is met.</li> </ul>
Performance: Comments:	

Performance Step: 2 Critical: Y	<ul> <li>6.1.1 Initiate Form 5790-102-02 (MONTICELLO EMERGENCY NOTIFICATION REPORT FORM)</li> <li>A. Complete the Protective Action Recommendations section recommending sheltering or an evacuation of a 2 mile radius and 5 miles downwind and advise the remainder of the plume EPZ to go indoors to monitor EAS broadcasts. (See Figure 7.3.A for assistance.)</li> <li>B. Determine which geopolitical subareas are affected by referring to the Sector-Subarea Conversion Table on Form 5790-102-02</li> </ul>
Standard:	<ul> <li>Complete Section 10 of Form 5790-102-02. The grading standard is as follows:</li> <li>Item B is circled.</li> <li>The blank in front of "Sectors out to 2 miles" contains the word "ALL"</li> <li>The blank in front of "Sectors out to 5 miles" contains "H,J,K"</li> <li>Only the following subareas are circled: 2, 5W and 5S.</li> </ul>
Evaluator Cue:	None <u>NOTE</u> : See attached form with data filled in.
Performance:	
Comments:	

Performance Step: 3	Initiate Form 5790-102-02
Critical: Y	C. Ensure completion of the remaining sections of Form 5790-102-02 and submit the completed form to the ED for approval.
Standard:	<ul> <li>The grading standard is as follows:</li> <li>Section 1: item B should be circled (not critical).</li> <li>Section 2: item B should be circled.</li> <li>Section 4: item D should be circled.</li> <li>Section 5: item A circled (not critical) and date and time filled in and EAL RG1.1.</li> <li>Section 6: item B should be circled.</li> <li>Section 7: item B should be circled (not critical).</li> <li>Section 8: Wind direction is 0 degrees and affected downwind sectors H, J and K should be circled.</li> <li>Section 9: Wind speed of 13 mph and stability class E circled (stability class not critical).</li> <li>Section 11: Examinee should indicate that they would use the label from the General emergency packet here (specifically the label for RG1.1) or they may write the IC description for RG1 in the space provided.</li> </ul>
Evaluator Cue:	None NOTE: See attached form with data filled in.
Performance:	
Comments:	

Performance Step: 4 Critical: N	INFORM EVALUATOR THAT THE TASK HAS BEEN COMPLETED.
Standard:	Operator informs evaluator that the task is completed.
Evaluator Cue:	None
Performance:	
Comments:	

**Terminating Cues:** When told the actions are complete, acknowledge, and state the JPM is complete.

Stop Time:

Critical Time \_\_\_\_

## TURNOVER SHEET

#### INITIAL CONDITIONS:

- THIS IS A DRILL.
- The plant is shutdown in an Emergency Condition. An escalation to a General Emergency has just been declared (EAL RG1.1, Stack Effluent Monitor "A" exceeds 2.1E+8 µcuries/second).
- Current Met Data is:
  - Wind direction (from): 0 degrees
  - Wind speed: 13 mph
  - Temperature: 85°F
  - Precipitation: none
  - Ch. 11 Diff. Temp: -0.79
- Dose assessment is not currently available

#### INITIATING CUES (IF APPLICABLE):

- THIS IS A DRILL.
- Initiate and complete Form 5790-102-02 (MONTICELLO EMERGENCY NOTIFICATION REPORT FORM) and provide to Shift Manager/Emergency Director when complete.
- THIS IS A DRILL.
QF-1030-11 Rev. 2 (FP-T-SAT-30)

JPM-A.2-204-004 (OFF-SITE PROTECTIVE ACTION RECOMMENDATIONS) Rev. 2

SIMULATOR SET UP:

Admin JPM; no simulator setup required.

# SIMULATOR - MALFUNCTIONS:

	MALF ID	MALFUNCTION TITLE	DELAY	RAMP	EVENT	VALUE	FINAL.
1.							
2.							

### SIMULATOR - OVERRIDES:

	OVERRIDE ID.	OVERRIDE DESCRIPTION	DELAY	RAMP	EVENT	VALUE	FINAL
1.							
2.							

# SIMULATOR - REMOTE FUNCTIONS:

	REMOTE FUNC. No.	REMOTE FUNCTION TITLE	DELAY	RAMP	EVENT	VALUE	FINAL
1.							
2.							

#### QF-1030-11 Rev. 2 (FP-T-SAT-30)

## JPM-A.2-204-004 (OFF-SITE PROTECTIVE ACTION RECOMMENDATIONS) Rev. 2 ATTACHMENT 1 JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the signature page filled in correctly?			
2. Has the JPM been reviewed and validated by SMEs?	$\square$		
<ol> <li>Can the required conditions for the JPM be appropriately established in the simulator if required?</li> </ol>			
4. Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	$\square$		
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. 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?			
9. Is the K/A appropriate to the task and to the licensee level if required?			
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 and made available to the trainee?			
12. Are all references identified, current, accurate, and available to the trainee?			
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?			

All questions/statements must be answered "YES" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation shall 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
Historical Record: (Optional)	