Appendix C	Job Performa WORK	Ince Measure SHEET)	Form ES-C-1
Facility: Oyster Creek		Task No.:	200030140	1
Task Title: Complete	e the Technic	al Specificatio	ons Log Shee	t
Job Performance Measure	Job Performance Measure No.: NRC JPM ADMIN RO1 (RO)			and the
K/A Reference: Generic 2.1.18 (RO 2.9)				
Examinee:		Examiner:		
Facility Evaluator:		Date:		
Method of Testing:				
Simulated Performance		Actual Perfe	ormance	X
Classroom	Simulator	X	Plant	an ana ara ar an ar

Read to the Examinee:

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

- 1. The plant is rated power.
- 2. You are the on-shift Reactor Operator on the 4-12 shift.
- 3. The current date/time is April 20, 2008 at 1700.

Task Standard: Page E1-1 of the Technical Specifications Log Sheet is correctly completed and the discrepancies are noted.

Required Materials: A completed page E1-1 (for the 11-7 and 7-3 shifts) of Procedure 681.4.004, Technical Specification Log Sheet.

General References:

1. Procedure 681.4.004, Technical Specifications Log Sheet, revision 12.

Initiating Cue: Complete page E1-1 only of the Technical Specification Log Sheet, Procedure 681.4.004, Technical Specification Log Sheet. Notify the Unit Supervisor when complete and of any discrepancies or actions that may be required.

ř	Appendix C	Job Performance Measure WORKSHEET	Form ES-C-1
	Time Critical Task:	No.	
	Validation Time:	10 Minutes.	

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Denote critical steps with a check mark \checkmark

Note 1: The values may be recorded in any order.

Note 2: The discrepancies noted while completing the log may be reported at the time of discovery or some other time during the JPM.

Note 3: Hand the Candidate the partially completed procedure.

	Performance Step: 1
	Procedure Step: Provides repeat back of initiating cue.
Standard:	Provides repeat back of initiating cue. <i>Evaluator acknowledges</i> the repeat back.
	JPM Start Time:
Comment:	
SAT/UNSAT	
	Performance Step: 2
	Procedure Step: Records position of AOG valve V-7-31.
Standard:	Records position of valve AOG V-7-31 as closed on Panel 10XF
Comment:	
SAT/UNSAT	

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	Performance Step: 3
Standard:	 Procedure Step: Records Torus water level from the following instruments: LT-37 LT-38 Narrow Range on Panel 9XR Records Torus water level from the following instruments as on the KEY: LT-37 (Indicator on Panel 1F/2F) LT-38 (Indicator on Panel 1F/2F) Narrow Range Recorder on Panel 9XR
Comment:	
SAT/UNSAT	
	Performance Step: 4
Standard:	 Procedure Step: Records Torus water temperature from the following indicators: DIV I DIV II Records Torus water temperature from the following indicators as on the KEY: (Indicator on Panel 1F/2F) DIV I DIV I
Comment:	
SAT/UNSAT	

NRC JPM ADMIN RO1

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Appendix	С
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Job Performance Measure WORKSHEET

	Performance Step: 5
Standard	 Procedure Step: Records Isolation Condenser area temperatures from the following instruments: IB06A IB06B IB06C IB06D
Standard:	 Records Isolation Condenser area temperatures from the following instruments as on the KEY: (Panel 10R) IB06A IB06B IB06C IB06D
Comment:	
SAT/UNSAT	
n	Performance Step: 6
	Procedure Step: Records Isolation Condenser levels from the following instruments: • IG06A • IG06B
Standard:	 Records Isolation Condenser levels from the following instruments as on the KEY: (Indicator on Panel 1F/2F) IG06A IG06B
Comment:	
SAT/UNSAT	

NRC JPM ADMIN RO1

Appendix C	Job Performance Measure WORKSHEET	Form ES-C-1
~	Performance Step: 7	
	Procedure Step: Record Nitrogen Makeup and calc use for the shift and for the day.	culate nitrogen
Standard:	Records Nitrogen Makeup and calculates nitrogen shift, as on the KEY.	use for the
	Calculates and records nitrogen use for the day by previous day 3-11 integrator reading from the curre integrator reading, as on the KEY.	_
	Recognizes/reports that the daily nitrogen use is >	250 units.
Comment:		
		an ang mangandan kana ang ang ang ang ang ang ang ang ang
SAT/UNSAT		anangan maga ang pang ang pang ang pang ang pang ang pang p
	Performance Step: 8	
	Procedure Step: Record RB 119' radiation levels fr	rom:
	 Radiation monitor B-9 Radiation monitor C-9 	
Standard:	Records RB 119' radiation levels from:	
	Radiation monitor B-9	
Comment:	 Radiation monitor C-9 as on the key. 	
SAT/UNSAT		, , , , <u></u>

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Appendix C	Job Performance Measure WORKSHEET	Form ES-C-1
	Performance Step: 9	
	Procedure Step: Record RB Vent Radiation Monit	or levels:
	 Radiation monitor Channel 1 	
	 Radiation monitor Channel 2 	
Standard:	Procedure Step: Records RB Vent Radiation Mon	itor levels:
	 Radiation monitor Channel 1 	
	 Radiation monitor Channel 2, as on the KE 	Y.
Comment:		
SAT/UNSAT		
	Performance Step: 10	
	Procedure Step: Record the Shutdown Cooling R temperature.	oom lowest
Standard:	Records the Shutdown Cooling Room lowest tem the KEY. (Panel 10R)	perature, as on
Comment:		
SAT/UNSAT		

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Appendix C	Job Performance Measure WORKSHEET	Form ES-C-1
	Performance Step: 11	
	Procedure Step: Calculate Fuel Pool Slab ΔT	
Standard:	Calculates Fuel Pool Slab ΔT by subtracting the S Cooling Room temperature from the Fuel Pool ter the key.	
Comment:		
SAT/UNSAT		

\checkmark	Performance Step: 12
	Procedure Step: Record the previous day lowest Torus water level, today's highest Torus water level, and the differential.
Standard:	Records the previous day lowest Torus water level, today's highest Torus water level, and the differential, as on the KEY. Reports the differential level is greater than allowed (actual is > 250 Units allowed).
Cue: Comment:	The previous day's lowest Torus water level from Panel 9XR is 150.0 °F.
SAT/UNSAT	

Terminating Cue: Page E1-1 of the Technical Specifications Log Sheet is correctly completed and the discrepancies are noted.

JPM Stop Time:

NRC JPM ADMIN RO1

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Page 8 of 11

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Validation of Completion

JPM Number:	NRC JPM ADMIN RO1	
Examinee's Name:		
Examiner's Name:		
Date Performed:		
Facility Evaluator:		
Number of Attempts:		
Time to Complete:		
Question:		
Response:		
	·	
Result:	Satisfactory/Unsatisfactory	
Examiner's Signature and Date:		

NRC JPM ADMIN RO1

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Simulator Setup

- 1. Reset to full power IC-65
- 2. Insert the following:
 - a. SWI-RMS050A to 1.1 (RB 119 B9 rad)
 - b. SWI-RMS063A to 1.1 (RN 119 rad C9)
 - c. SWI-RMS066A to 1.0 (RB vent rad mon)
 - d. SWI-RMS067A to 1.0 (RB vent rad mon)
- 3. Have ready a 681.4.004 Attachment 1, completed for the 11-7 and 7-3 shifts (see Completed 681.4.004)

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STUDENT HANDOUT

Initial Conditions:

- 1. The plant is rated power.
- 2. You are the on-shift Reactor Operator on the 4-12 shift.
- 3. The current date/time is April 20, 2008 at 1700.

Task Cue:

Complete page E1-1 only of the Technical Specification Log Sheet, Procedure 681.4.004, Technical Specification Log Sheet. Notify the Unit Supervisor when complete and of any discrepancies or actions that may be required.

* **	Appendix C	Job Performa WORK		2	Form ES-C-1
	Facility: Oyster Creek		Task No.:	2000101404	4
	Task Title: Perform	a Manual Cor	e Heat Balan	ce Calculatior	<u>}</u>
	Job Performance Measure	e No.: NRC	JPM ADMIN	RO2 (RO)	
	K/A Reference: Generic	2.1.20 (RO 4.3	3)		
	Examinee:		Examiner:		
	Facility Evaluator:		Date:		
	Method of Testing:				
	Simulated Performance		Actual Perfe	ormance	X
	Classroom	Simulator	X	Plant	

Read to the Examinee:

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

- 1. The reactor has been steady at full power for several hours.
- 2. The PPC is currently unavailable but is expected back shortly.
- 3. All prerequisites to perform this procedure have been met.

Task Standard: A manual core heat balance has been completed IAW Procedure 1001.6, Core Heat Balance and Feedwater Flow Calculation – Power Range.

Required Materials: Calculator.

General References:

1. Procedure 1001.6, Core Heat Balance and Feedwater Flow Calculation – Power Range, revision 27.

Initiating Cue: Perform a manual core heat balance IAW Procedure 1001.6, Core Heat Balance and Feedwater Flow Calculation – Power Range. Compare this calculation to the reactor power displayed on the PPC when the PPC is returned to service.

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Time Critical Task: No.

Validation Time: 19 minutes

Appendix C	Job Performance Measure WORKSHEET	Form ES-C-
	Performance Information	
Denote critica	al steps with a check mark \checkmark	
	Performance Step: 1	
	Procedure Step: Provides repeat back of initiating	ng cue.
	JPM Start Tir	ne:
Standard:	Provides repeat back of initiating cue. Evaluator the repeat back.	r acknowledges
Comment:		
SAT/UNSAT		
<u></u>	Performance Step: 2	
	Procedure Step: Reviews Precautions and Limi	tations.
Standard:	Reviews Precautions and Limitations.	
Comment:		
SAT/UNSAT		
Note: The ex	spected values are provided in the KEY.	

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Appendix C	Job Performance Measure Form ES-C WORKSHEET
	Performance Information
\checkmark	Performance Step: 3
	Procedure Step: 5.1.1.1
	Records local total Feedwater ΔP in inches of water from the venture transmitter (FT-422-1) in the Feedwater Pump Room.
Standard:	Directs EO to read local total Feedwater ΔP in inches of water from the venture transmitter (FT-422-1) in the Feedwater Pump Room, and records on the Feedwater Flow Calculation Worksheet, Line A.
Cue:	As the EO, report reading on the venture transmitter (FT-422-1) the Feedwater Pump Room as 492.5 inches.
Comment:	
SAT/UNSAT	
\checkmark	Performance Step: 4
	Procedure Step: 5.1.1.2
	Record Feedwater temperature (ID 101) from Panel 5F/6F recorder to the nearest whole degree.
Standard	Reads Feedwater temperature (ID 101) from Panel 5F/6F recorder to the nearest whole degree and records on the Feedwater Flow Calculation Worksheet, Line B.
Comment:	
0 AT/1110 AT	
SAT/UNSAT	

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Appendix C	Job Performance Measure WORKSHEET	Form ES-C
	Performance Information	
✓	Performance Step: 5	
	Procedure Step: 5.1.1.3	
	Obtain the specific volume (v) at the Feedwater the temperature recorded in Step 5.1.1.2 from A 3 or ASME approved steam tables.	ttachment 1001
Standard:	Obtain the specific volume (v) at the Feedwater the temperature recorded in Step 5.1.1.2 from A 3 or ASME approved steam tables, and records Flow Calculation Worksheet, Line C.	Attachment 1001
Comment:	Tiow Calculation worksheet, Line O.	
0.17/11/0.17		
SAT/UNSAT 	Performance Step: 6	
	Performance Step: 6	
		ring equation:
	Performance Step: 6 Procedure Step: 5.1.1.4 Calculates total Feedwater flow using the follow $F = 0.0429387$ SQRT ($\Delta P/v$) Calculates total Feedwater flow using the follow $F = 0.0429387$ SQRT ($\Delta P/v$) and records on the	ring equation:
✓	Performance Step: 6 Procedure Step: 5.1.1.4 Calculates total Feedwater flow using the follow $F = 0.0429387$ SQRT ($\Delta P/v$) Calculates total Feedwater flow using the follow $F = 0.0429387$ SQRT ($\Delta P/v$) and records on the Calculation Worksheet, Line D.	ring equation:
√ Standard:	Performance Step: 6 Procedure Step: 5.1.1.4 Calculates total Feedwater flow using the follow $F = 0.0429387$ SQRT ($\Delta P/v$) Calculates total Feedwater flow using the follow $F = 0.0429387$ SQRT ($\Delta P/v$) and records on the Calculation Worksheet, Line D.	ring equation: e Feedwater Flov
√ Standard:	Performance Step: 6 Procedure Step: 5.1.1.4 Calculates total Feedwater flow using the follow $F = 0.0429387$ SQRT ($\Delta P/v$) Calculates total Feedwater flow using the follow $F = 0.0429387$ SQRT ($\Delta P/v$) and records on the Calculation Worksheet, Line D.	ring equation: e Feedwater Flov

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Appendix C	Job Performance Measure WORKSHEET	Form ES-C-
	Performance Information	
\checkmark	Performance Step: 7	
	Procedure Step: 5.2.1	
	Record reactor pressure to the nearest whole por range recorder – Panel 5F/6F)	ound (Narrow
Standard:	Reads reactor pressure to the nearest whole pour range recorder – Panel 5F/6F) and records on the Data, Calculation, and Analysis Worksheet, Line	ne Heat Balance
Comment:		
SAT/UNSAT	Performance Step: 8	
	·	
	Procedure Step: 5.2.2 Record Feedwater temperature to the nearest w (Recorder Panel 5F/6F)	hole degree
	(necoluer maner 51701)	
Standard:	Reads Feedwater temperature to the nearest wh (Recorder Panel 5F/6F) or transfers the Feedwa obtained earlier, and records on the Heat Balance Calculation, and Analysis Worksheet, Line B.	ter temperature
Standard: Comment:	Reads Feedwater temperature to the nearest wh (Recorder Panel 5F/6F) or transfers the Feedwa obtained earlier, and records on the Heat Balance	ter temperature

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Appendix C	Job Performance Measure WORKSHEET	Form ES-C-1
<u></u>	Performance Information	
✓	Performance Step: 9	
	Procedure Step: 5.2.3 Record recirculation flow to the nearest thousand g Panel 3F).	pm (Recorder
Standard:	Reads recirculation flow to the nearest thousand gy Panel 3F), and records on the Heat Balance Data, and Analysis Worksheet, Line C.	
Comment:		
SAT/UNSAT		
	Performance Step: 10	
	Procedure Step: 5.2.4	
	Calculate the reactor absolute pressure by adding step 5.2.1 + 14.7 pounds pressure.	the value of
Standard:	Calculate the reactor absolute pressure by adding step 5.2.1 + 14.7 pounds pressure, and records on Balance Data, Calculation, and Analysis Workshee	the Heat
Comment:	·	
	· · · · · · · · · · · · · · · · · · ·	
SAT/UNSAT		

Job Performance Measure WORKSHEET

Performance Information Performance Step: 11 \checkmark Procedure Step: 5.2.5 Record Main Steam enthalpy from Attachment 1001.6-5 or an ASME approved steam table, at saturated conditions using calculated absolute pressure. Standard: Reads Main Steam enthalpy from Attachment 1001.6-5 or an ASME approved steam table, at saturated conditions using calculated absolute pressure in step 5.2.4 and records on the Heat Balance Data, Calculation, and Analysis Worksheet, Line E. Comment: SAT/UNSAT Performance Step: 12 \checkmark Procedure Step: 5.2.6 Record the Feedwater enthalpy from Attachment 1001.6-6 or ASME approved steam table for compressed water at 1100 psia using Feedwater temperature. Standard: Reads the Feedwater enthalpy from Attachment 1001.6-6 or ASME approved steam table for compressed water at 1100 psia using Feedwater temperature in step 5.2.2, and records on the Heat Balance Data, Calculation, and Analysis Worksheet, Line F. Comment: SAT/UNSAT

Appendix C	Job Performance Measure WORKSHEET	Form ES-C-*
	Performance Information	
✓	Performance Step: 13	
	Procedure Step: 5.2.7	
	Calculate the difference of the Main Steam and enthalpies.	d Feedwater
Standard:	Calculates the difference of the Main Steam an enthalpies by subtracting Feedwater enthalpy Main Steam enthalpy in step 5.2.5, and record Balance Data, Calculation, and Analysis Work	in step 5.2.6 from Is on the Heat
Comment:		
SAT/UNSAT	Performance Step: 14	
¥		
	Procedure Step: 5.2.8	
	Record total Feedwater flow FLO (tot) for diffe loop and/or local venture (single element) met Feedwater Flow Calculation Worksheet.	•
Standard:	Copies total Feedwater flow FLO (tot) for differ loop and/or local venture (single element) met Feedwater Flow Calculation Worksheet, Line I Balance Data, Calculation, and Analysis Work	hods from the D, onto the Heat
	Dalance Dala, Calculation, and Analysis work	sneet, Line n.
Comment:		Sheet, Line H.
Comment:		sneet, Line H.

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Appendix C	Job Performance Measure WORKSHEET	Form ES-C-
	Performance Information	
\checkmark	Performance Step: 15	
	Procedure Step: 5.2.9	
	Calculate the product of the Feedwater flow an difference to obtain MBTU/hr.	nd the enthalpy
Standard:	Calculates the product of the Feedwater flow in enthalpy difference in step 5.2.7 to obtain MBT on the Heat Balance Data, Calculation, and Ar Line I.	"U/hr, and records
Comment:		
SAT/UNSAT		
✓	Performance Step: 16	
	Procedure Step: 5.2.10	
	Convert MBTU/hr to Megawatts (MBTU/hr x 0.	293).
Standard:	Converts MBTU/hr to Megawatts by multiplying 5.2.9 by 0.293, records on the Heat Balance D and Analysis Worksheet, Line J.	
Standard: Comment:	5.2.9 by 0.293, records on the Heat Balance D	

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vorder Panel 3F) on order Panel 3F) and tion, and Analysis VCU and ambient following equation. es on Line L of
order Panel 3F) and tion, and Analysis VCU and ambient following equation.
order Panel 3F) and tion, and Analysis VCU and ambient following equation.
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WCU and ambient following equation, and tion, and Analysis
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Appendix C	Job Performance Measure Form ES-C- WORKSHEET
	Performance Information
✓	Performance Step: 19
	Procedure Step: 5.2.13
	Add the Fixed Losses from Line L to the Megawatts from Line J and record the Calculated CTP on Line N.
Standard:	Adds the Fixed Losses from step 5.2.12 to the Megawatts from step 5.2.10 and record the Calculated CTP on Line N on the Hear Balance Data, Calculation, and Analysis Worksheet.
Comment:	
SAT/UNSAT	Performance Step: 20
	Performance Step: 20
	Procedure Step: 5.2.14
	-
✓	Procedure Step: 5.2.14 Record PPC Core Thermal Power (CTP) in Line M. The PPC has been returned to service long enough to establish the 15 minute average Core Thermal Power (CTP). The current
√ Cue:	 Procedure Step: 5.2.14 Record PPC Core Thermal Power (CTP) in Line M. The PPC has been returned to service long enough to establish the 15 minute average Core Thermal Power (CTP). The current CTP value is 1927 MWth. Records the PPC 15 minute average Core Thermal Power (CTP) on the Heat Balance Data, Calculation, and Analysis Worksheet,

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Appendix C	Job Performance Measure WORKSHEET	Form ES-C-1
	Performance Information	
✓	Performance Step: 21	
	Procedure Step: 5.2.15	
	Subtract the Calculated CTP from the PPC Core The [Line $M - Line N$]. If this value is positive, the comparison considered conservative. If negative, the comparison conservative. Place an X in the appropriate box.	ison is
Standard:	Subtracts Calculated Core Power in step 5.2.13 from Core Thermal Power in step 5.2.14 and records on th Balance Data, Calculation, and Analysis Worksheet, I	e Heat
	Checks the negative value \rightarrow Non-Conservative box Balance Data, Calculation, and Analysis Worksheet.	on the Heat
Comment:		
SAT/UNSAT		
	Performance Step: 22	
	Procedure Step: 5.3	
	Verify that the RWCU system differential temperature F.	is < 80 deg
Cue:	Another Operator will verify the RWCU system differe temperature is < 80 deg F. This complete this JPM.	ntial
Standard:		
Comment:		

SAT/UNSAT

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Performance Information

Terminating Cue: A manual core heat balance has been completed IAW Procedure 1001.6, Core Heat Balance and Feedwater Flow Calculation – Power Range.

JPM Stop Time: _____

NRC JPM ADMIN RO2

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Job Performance Measure WORKSHEET

Form ES-C-1

Validation of Completion

JPM Number:	NRC JPM ADMIN RO2
Examinee's Name:	
Examiner's Name:	
Date Performed:	
Facility Evaluator:	
Number of Attempts:	
Time to Complete:	
Question:	
Response:	
Result:	Satisfactory/Unsatisfactory
Examiner's Signature	and Date:

Simulator Setup

- 1. Reset to full power IC-65.
- 2. Insert the following:
 - a. SWI-NSS021A to 1020.0 psig (Reactor press recorder 5F/6F)
 - b. SWI-CFW002A to 311 °F (FW temperature recorder 5F/6F)
 - c. SWI-NIS001B to 150090 lb/hr (recirculation flow recorder 3F)
 - d. SWI-RCU002A to 400.1 gpm (RWCU flow recorder 3F)
- 3. Have a blank copy of procedure 1001.6 ready.
- 4. Provide the Candidate a calculator.

NRC JPM ADMIN RO2

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STUDENT HANDOUT

Initial Conditions:

- 1. The reactor has been steady at full power for several hours.
- 2. The PPC is currently unavailable but is expected back shortly.
- 3. All prerequisites to perform this procedure have been met.

<u>Task Cue:</u>

Perform a manual core heat balance IAW Procedure 1001.6, Core Heat Balance and Feedwater Flow Calculation – Power Range. Compare this calculation to the reactor power displayed on the PPC when the PPC is returned to service.

Appendix C		mance Measure RKSHEET	Form ES-C-1
Facility: Oy	ster Creek	Task No.:	2150101023
Task Title:	Perform APRM Drav	wer Count	
Job Performanc	e Measure No.: NR	C JPM ADMIN R	O3 (RO)
K/A Reference:	Generic 2.2.12 (RO	3.0)	
Examinee:		Examiner:	
Facility Evaluate	or:	Date:	
Method of Testi	ng:		
Simulated Perfo	rmance	Actual Perform	mance X
Classroom	Simulator	X	Plant

Read to the Examinee:

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

1. The plant is at rated power.

Task Standard: Section 2 of Attachment 202.1-1, APRM Status Check, for APRM 8 is complete and LPRM 44-25D does not indicate bypassed.

Required Materials: A completed attachment 403-2, with no APRMs bypassed, and LPRMs 36-17B, 28-09D and 44-25D shown as bypassed.

General References:

- 1. Procedure 202.1, Power Operation, revision 109.
- 2. Procedure 403, LPRM-APRM System Operations, revision 13.

Initiating Cue: Perform Section 2 of Attachment 202.1-1, APRM Status Check, for APRM 8. Notify the Unit Supervisor of your results.

Time Critical Task: No.

Validation Time: 13 minutes

NRC JPM ADMIN RO3

Appendix C	Job Performance Measure WORKSHEET	Form ES-C-1
	Performance Information	
Denote critica	al steps with a check mark \checkmark	
	Performance Step: 1	
	Procedure Step: Provides repeat back of initiatin	ng cue.
	JPM Start Tir	ne:
Standard:	Provides repeat back of initiating cue. Evaluator the repeat back.	r acknowledges
Comment:		
SAT/UNSAT		
	Performance Step: 2	
	Procedure Step: 1 of Attachment 202.1-1.	
	Place an X in the box next to the LPRMs that a	re Bypassed.
Standard:	Places an X in the box next to LPRMs 36-17B, 44-25D in the APRM 8 column.	28-09D, and
Comment:		· · · · · · · · · · · · · · · · · ·
SAT/UNSAT		

Page 2 of 11

Appendix C	Job Performance Measure WORKSHEET	Form ES
	Performance Information	
	Performance Step: 3	
	Procedure Step: 2 of Attachment 202.1-1.	
	Place the number of un-bypassed inputs in t	
Standard:	Places the number of un-bypassed inputs (5 APRM 8, marked UN-BYPASSED.) in the last row to
Comment:		
SAT/UNSAT		
	Performance Step: 4	
	Procedure Step: 5.3 3.8.1 of Procedure 403. Obtains permission from the US for LPRM in count.	
Standard:	Obtains permission from the US for LPRM ir count.	nput to APRM dra
CUE	The candidate may or may not ask permission directed to perform the task. If the candidate they have permission to perform the APRM	does ask, state t
Comment:		
SAT/UNSAT		· · · · · · · · · · · · · · · · · · ·
NRC JPM AD	MIN RO3	Page 3

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STUDENT HANDOUT

Initial Conditions:

1. The plant is at rated power.

Task Cue:

Perform Section 2 of Attachment 202.1-1, APRM Status Check, for APRM 8. Notify the Unit Supervisor of your results.

NRC JPM ADMIN RO3

Appendix C		erformance Measur WORKSHEET	e Form ES-C-1
Facility: Oyst	er Creek	Task No.:	2000501433
Task Title:	Determine RPV	Water Level Instru	ment Availability
Job Performance	Measure No.:	NRC JPM ADMIN	RO4 (RO)
K/A Reference:	Generic 2.4.21	(RO 3.7)	
Examinee:		Examiner:	·
Facility Evaluator	•	Date:	
Method of Testing	j :		
Simulated Perform	nance	Actual Perf	ormance X
Classroom	X Simu	lator	Plant

Read to the Examinee:

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

Initial Conditions:

- 1. The Plant was at rated power when a LOCA occurred in the Primary Containment.
- 2. The Primary Containment Control EOP has been entered.
- 3. RPV pressure is 200 psig and stable.
- 4. The table below contains data recorded from Recorder TR-IA55 on Panel 8R, for the instrument reference leg vertical run temperatures, along with the current water level indications:

Level Instrument	RPV Water Level Reading	<u>Temp.</u> Instrument No.	Recorder Point	<u>Temperature</u> <u>°F</u>
NR GEMAC A	89"	TE-103-450	40	340
NR GEMAC B	91"	TE-103-451	41	335 4
WR GEMAC	130"	TE-103-452	42	360 7
YARWAY A	88"	TE-103-453	43	405 🕈
YARWAY B	83"	TE-103-454	44	375 🔨

NRC JPM ADMIN RO4



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Task Standard: IAW the reference provided, the Candidate has determined that only NR GEMAC B is available for RPV water level indication.

Required Materials: None.

General References:

1. EMG-SP28, Level Instrumentation Availability, revision 0.

Initiating Cue: IAW EMG-SP28, Level Instrumentation Availability, and the information provided, state whether each RPV water level instrument is available for RPV water level indication or is not available.

Time Critical Task: No.

Validation Time: 7 minutes

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		Performance Information
	Denote critica	I steps with a check mark \checkmark
		Performance Step: 1
		Procedure Step: Provides repeat back of initiating cue.
		JPM Start Time:
	Standard:	Provides repeat back of initiating cue. <i>Evaluator acknowledges the repeat back.</i>
	Comment:	·
	SAT/UNSAT	· · · · · · · · · · · · · · · · · · ·
	✓	Performance Step: 2
		Procedure Step: 3.4
		Verify that the instrument reference leg temperatures are in the SAFE REGION of the RPV Saturation Temperature Curve.
	Standard:	Compares the provided reference leg temperatures for all level instruments at the given RPV pressure against the RPV Saturation Temperature curve. Determines that YARWAY A is not in the SAFE REGION and thus is not available for RPV water level instrumentation.
	Comment:	· · · · · · · · · · · · · · · · · · ·
	SAT/UNSAT	

Page 3 of 8

Ice Step: 3 Step: 3.5 Instrument below, the instrument reads in the Safe its respective curve. The NR GEMAC A and NR GEMAC B indicated water he given reference leg temperatures on the GEMAC RANGE curve. Determines that NR GEMAC A is not Region and thus is not available for RPV water level tation. Is that NR GEMAC B is in the Safe Region and thus is or RPV water level instrumentation.
Step: 3.5 Instrument below, the instrument reads in the Safe its respective curve. The NR GEMAC A and NR GEMAC B indicated water he given reference leg temperatures on the GEMAC RANGE curve. Determines that NR GEMAC A is not degion and thus is not available for RPV water level tation. Is that NR GEMAC B is in the Safe Region and thus is
nstrument below, the instrument reads in the Safe its respective curve. the NR GEMAC A and NR GEMAC B indicated water he given reference leg temperatures on the GEMAC RANGE curve. Determines that NR GEMAC A is not legion and thus is not available for RPV water level tation. s that NR GEMAC B is in the Safe Region and thus is
its respective curve. the NR GEMAC A and NR GEMAC B indicated water be given reference leg temperatures on the GEMAC RANGE curve. Determines that NR GEMAC A is not begion and thus is not available for RPV water level tation. s that NR GEMAC B is in the Safe Region and thus is
The given reference leg temperatures on the GEMAC RANGE curve. Determines that NR GEMAC A is not degion and thus is not available for RPV water level tation. Is that NR GEMAC B is in the Safe Region and thus is
ce Step: 4
Step: 3.5
nstrument below, the instrument reads in the Safe its respective curve.
the YARWAY B indicated water level at the given leg temperatures on the YARWAY curve. Determines VAY B is not in the Safe Region and thus is not or RPV water level instrumentation.

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Appendix C	Job Performance Measure WORKSHEET	Form ES-C-1
	Performance Information	
~	Performance Step: 5	
	Procedure Step: 3.5	
	For each instrument below, the instrument readers Region of its respective curve.	ds in the Safe
Standard:	Compares the WR GEMAC indicated water lever reference leg temperatures on the GEMAC Wi Determines that WR GEMAC is not in the Safe not available for RPV water level instrumentation	de Range curve. Region and thus is
Comment:		
SAT/UNSAT		

Terminating Cue: IAW the reference provided, the Candidate has determined that only NR GEMAC B is available for RPV water level indication.

JPM Stop Time: _____

NRC JPM ADMIN RO4

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Appendix C	Job Performance Measure WORKSHEET	Form ES-C-1
	Validation of Occuration	
	Validation of Completion	
JPM Number:	NRC JPM ADMIN RO4	
Examinee's Name:		
Examiner's Name:		
Date Performed:		
Facility Evaluator:		
Number of Attempts:		
Time to Complete:		
Question:		
<u></u>		
······		
Response:		
	Satisfactory/Unsatisfactory	
Result:	L'atinta atawi/Lina atinta atawi	

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Page 6 of 8

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Simulator Setup

- 1. None.
- 2. Have a blank copy of Support Procedure 28, EMG-SP28, Level Instrumentation Availability ready.

NRC JPM ADMIN RO4

Page 7 of 8

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STUDENT HANDOUT

Initial Conditions:

- 1. The Plant was at rated power when a LOCA occurred in the Primary Containment.
- 2. The Primary Containment Control EOP has been entered.
- 3. RPV pressure is 200 psig and stable.
- 4. The table below contains data recorded from Recorder TR-IA55 on Panel 8R, for the instrument reference leg vertical run temperatures, along with the current water level indications:

Level Instrument	RPV Water Level Reading	<u>Temp.</u> Instrument No.	Recorder Point	<u>Temperature</u> <u>°F</u>
NR GEMAC A	89"	TE-103-450	40	340
NR GEMAC B	91"	TE-103-451	41	335
WR GEMAC	130"	TE-103-452	42	360
YARWAY A	88"	TE-103-453	43	405
YARWAY B	83"	TE-103-454	44	375

Task Cue:

IAW EMG-SP28, Level Instrumentation Availability, and the information provided, state whether each RPV water level instrument is available for RPV water level indication or is not available.

Level Instrument	Available? Yes/No
NR GEMAC A	
NR GEMAC B	
WR GEMAC	
YARWAY A	
YARWAY B	

Name: _____

NRC JPM ADMIN RO4

, 'n	Appendix C		Job Performance Measure WORKSHEET				
	Facility:	Oyster Creek		Task No.:	COO00030		
	Task Title:	Review a	Shift Turnove	er Checklist			
	Job Performa	ance Measure I	No.: NRC	JPM ADMIN	SRO1 (SRO)	_	
	K/A Reference	ce: Generic 2	2.1.3 (SRO 3.	4)			
	Examinee:			Examiner:			
	Facility Evalu	uator:		Date:			
	Method of Te	esting:					
	Simulated Pe	erformance		Actual Perfo	ormance	X	
	Classroom	Х	Simulator		Plant		

Read to the Examinee:

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

Initial Conditions:

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- 1. The plant is at rated power.
- 2. You are the oncoming Unit Supervisor after being off for the last 12 hours.
- 3. Your last shift was completed at 2400 on April 18, 2008.
- 4. The current date/time is April 19, 2008 at 1200.

Task Standard: The Candidate has reviewed the turnover checklist and noted the discrepancies and any associated actions.

Required Materials: None.

General References:

- 1. OP-OC-100-1002, Main Control Room Turnover Checklist (Operating Mode), revision 5.
- 2. Technical Specifications 3.7, Auxiliary Electrical Power.
- 3. Procedure OP-OC-108-104-1001, Guidance for Limiting and Administrative Conditions for Operations, revision 0.
- 4. Procedure 324, Thermal Dilution Pumps, revision 69.

NRC JPM ADMIN SRO1

Page 1 of 14

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Initiating Cue: As the oncoming Unit Supervisor, review the completed Main Control Room Turnover Checklist (Operating Mode) and note any discrepancies and/or any required actions.

Time Critical Task: No.

Validation Time: 22 minutes

NRC JPM ADMIN SRO1

а т . т	Appendix C	Job Performance Measure Form ES-C-1 WORKSHEET
		Performance Information
	Denote critica	al steps with a check mark \checkmark
	<u> </u>	Performance Step: 1
		Procedure Step: Provides repeat back of initiating cue.
		JPM Start Time:
	Standard:	Provides repeat back of initiating cue. Evaluator acknowledges the repeat back. Provide the completed Turnover Sheet.
	Comment:	
	SAT/UNSAT	
	Note: The fol	llowing steps may be performed in any order.
	✓	Performance Step: 2
		Procedure Step: Reviews the Turnover Checklist.
	Standard:	Reviews the Turnover Checklist and notes the following:
		 The TORUS/DW VENT & PURGE ISOL VLVS HI RAD BYP CHAN 2 switch position is not annotated. (The switch should be in NORMAL.)
	Comment:	
	SAT/UNSAT	

	Job Performance Measure Form ES-C WORKSHEET
	Performance Information
✓	Performance Step: 3
	Procedure Step: Reviews the Turnover Checklist.
Standard:	Reviews the Turnover Checklist and notes the following:
	 Technical Specification 3.7.C.2 states that if one diesel generator becomes inoperable during power operation, repairs shall be initiated immediately and the other diesel shall be operated at least one hour every 24 hours at greater than 80% rated load until repairs are completed. Procedure OP-OC-108-104-1001, Guidance for Limiting and Administrative Conditions for Operations, states that EDG 2 shall be satisfactorily tested by 2000 on April 19, 2008. This is 24 hours from when EGD 1 was declared inoperable – not 24 hours from when EDG 1 was tagged out for repair. To comply with Technical Specifications, EDG 2 needs to be tested (636.4.013, EDG 2 Load Test) by 2000 on April 19, 2008.

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Appendix C	Job Performance Measure WORKSHEET	Form ES-C-1
	Performance Information	
\checkmark	Performance Step: 4	
	Procedure Step: Reviews the Turnover Checklist.	
Standard:	Reviews the Turnover Checklist and notes the fol	lowing:
	 IAW Procedure 324, if all dilution pumps at is the case of a loss of power to the dilution cannot be immediately restarted, reduce puncessary to maintain main condenser out < 97 °F to minimize the impact on the envir 2-hour report to the DEP via the NJDEP En Hotline (1-877-927-6337) shall be made. A shall be generated IAW the NJPDES part is temperature exceeds 97 °F. 	n plant) and ower as let temperature ronment. A nvironmental written report
Comment:		
SAT/UNSAT		ar

Terminating Cue: The Candidate has reviewed the turnover checklist and noted the discrepancies and any associated actions.

JPM Stop Time: _____

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Validation of Completion

JPM Number:	NRC JPM ADMIN SRO1
Examinee's Name:	
Examiner's Name:	
Date Performed:	
Facility Evaluator:	
Number of Attempts:	
Time to Complete:	
Question:	
Response:	
Result:	Satisfactory/Unsatisfactory
Examiner's Signature	and Date:

NRC JPM ADMIN SRO1

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Simulator Setup

1. None.

NRC JPM ADMIN SRO1

Page 7 of 14

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Appendix C

STUDENT HANDOUT

Initial Conditions:

- 1. The plant is at rated power.
- 2. You are the oncoming Unit Supervisor after being off for the last 12 hours.
- 3. Your last shift was completed at 2400 on April 18, 2008.
- 4. The current date/time is April 19, 2008 at 1200.

Task Cue:

As the oncoming Unit Supervisor, review the completed Main Control Room Turnover Checklist (Operating Mode) and note any discrepancies and/or any required actions.

MAIN CONTROL ROOM TURNOVER CHECKLIST (OPERATING MODE)

Date		4-19-08		Shift	0000 - 1200		
			Plant	Status			
Р	Core	1927	MWth		Recirc	15.0	XE4GPM
0	. Electric	654	Mwe	FL	Feedwater	7.2	XE6 lbm/hr
E W	Plant Risk level	Green	Color	O W	Steam	7.2	XE6 lbm/hr
R	Condenser vac	28	"Hg		Intake temp.	51	degrees F
			Operati	ng Stat	us		
0	RAM Sentinel Risk C	olor Yel		Basis	EDG 1 Inoperable		
St	eady state power (cir	cle) (Y	N If N	explain			
	Xenon (Check one)	F	Rising		Falling	Stable	X
	Load limited by	No	ne				
Sı	urveillance(s) in progr				Test and Calibration		21.3.024.
	Activities in progress	s Fire foll	in Generator F e Hose Statior owing a fire dr rogen is being	n, Hose Hou ill earlier in	use and Fire Hydrant	Inspection, 64	5.6.003,
			Safety Sy	stem St	atus		
length of	ystem or components that a time it is degraded with the ime of the last test	re in a degraded m	ode of operation p	permitted by th	e Technical Specifications.	For each system, c system verification	compare the n or testing and
APRM	1 is in BYPASS due t	o failure of the	APRM Survei	llance Test	- Front Panel Check	(620.4.002). A	All other
	s operable. tagged out of service	at 2300 on 4/1	8/08. 7-day L	CO. EDG 2	testing every 24 hou	rs.	
			ompensat			· · · · · · · · · · · · · · · · · · ·	na nyana na mangana manana da kata da k
	compensatory actions in effe ant equipment or component			12 (Temp Moc	l), Procedure WC-AA-101 (On-Line Maintena	nce), out of
EDG 2	and associated syste	ms are protect	ed IAW Proce	edure 341 d	ue to EDG 1 inoperat	ole. (annunciat	ors T4b, T5b)
Record	ing Offgas Radiation	Monitor levels	everv hour du	e to AOG t	rip. No adverse trends	s noted.	
Recording Offgas Radiation Monitor levels every hour due to AOG trip. No adverse trends noted.							
500.1		1.0000 - 1/11	Turnovei				Maintanana
reports	declared inoperable a ground in the contr ice time. IAW Technic	ol system and	is continuing t	o investiga	te. There is currently	no estimate or	n the return-
short a	ution Plant tripped at nd are continuing to i gate. (Annunciators 12	nvestigate. Inta	ike temperatu	re is 50 °F.	No actions have occu		
AOG tr 10XF4c	ipped 1600 4/18/08 a d)	nd remains ou	t of service. A	ll required a	actions completed. (A	nnunciators 10	F3b, 10XF3d,

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s *	Reactor Operators *		Reactor Operators	
		On		Off
	· · · · · · · · · · · · · · · · · · ·	Coming		Going
*	Unit Supervisor *	Shift *	Unit Supervisor	Shift
-	Unit Supervisor	Shift *	Unit Supervisor	Shift

* Signature acknowledges all qualifications to stand watch are current and any changes in medical status have been reported IAW OP-AA-105-101.

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MAIN CONTROL ROOM TURNOVER CHECKLIST (CONTINUED)

		Co	ntro	ol Pane	el Switch C	heck				
Panel 1F/2F	· · · · · · · · · · · · · · · · · · ·			: AL/7	-	•				
EMRVs not in auto (list	any)			in AU1	U					
Panel 4F SRM/IRM/APRM bypass		and the second s	AP	RM 1	·				· · · · ·	
LPRM to APRM bypass (RWM bypassed (Check)	list an	у)		X		Yes			N	10
Panel 8F/9F					······································	· · · · · · · · · · · · · · · · · · ·				
EDG1 Status		Availa	ble	X	Inoperable	Mode Swit	ch in p	eaking	X	Yes
X EDG2 Status	X	Availa	ble		Inoperable	Mode Swit	ch in p	eaking	X	Yes
S1A Breaker up light lit	X	Yes		No	S1B Break	er up light lit	X	Yes	Ţ	No
Panel 11F										
V-24-29 isolation signal k	voass	switch in	n nor	mal	Х	Yes		·	No	
V-24-30 isolation signal t					X	Yes			No	
TORUS/DW VENT & PU					Х	Yes		A 100 TO 100	No	
BYP CHAN 1 in normal TORUS/DW VENT & PU BYP CHAN 2 in normal	RGEI	SOL VLV	/S HI	RAD	\bigcirc	Yes			No	
Panel 11R										
SBGTS select switch			<u></u>			system 1		X	svst	em 2
EF 1-8 control switch in a	uto				X	Yes			No	
EF 1-9 control switch in a	uto				X	Yes			No	
Panel 13R					na je na na se					
Pond Pump select switch One pump in auto, one p		n manual			X	Yes			No	
Panel 12XR						· · · · · · · · · · · · · · · · · · ·				
CNTMT VENT AND PUF BYPASS in normal	RGE IS	OLATIO	N		X	Yes			No	
Panel 11XR									an, manuf ^{or} Historical (WWW),	**
Main Generator Digital P (DPRS A and B) operatir indications					X	Yes			No	
Panels 12XR, 13R, 14	R (rea	ar of par	nels)						
Confirm fans on rear of p					X	Yes			No	
Panels 1R,2R,3R,4R,5	5R					· · · · · · · · · · · · · · · · · · ·				
Confirm Drawers are pus	hed in	and sec	ured		Х	Yes			No	
Panel 10XF						· · · · · · · · · · · · · · · · · · ·		· .		
AOG in service						Yes		Х	No	

NRC JPM ADMIN SRO1

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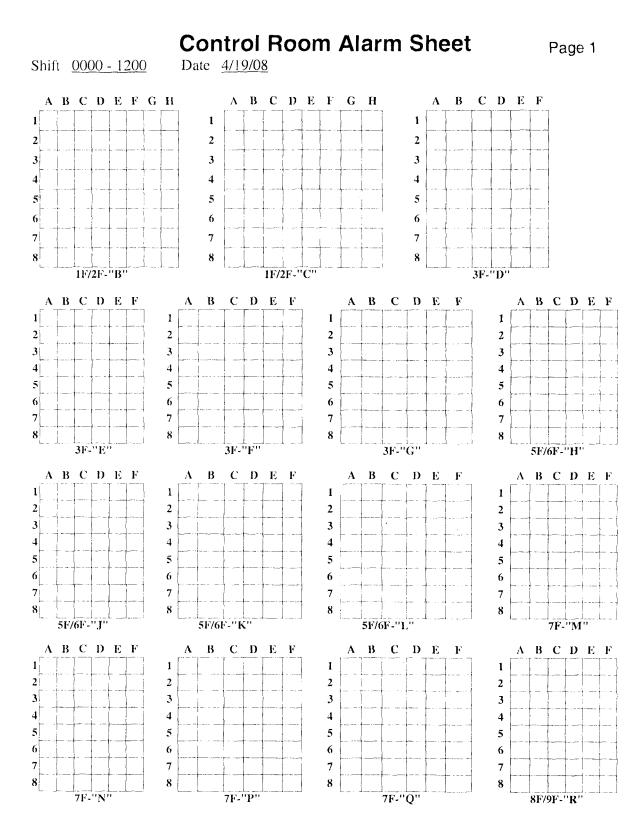
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General Turnover Checks		
Core Maneuvering Daily Instruction Sheet, Attachment 1001.22-3 is current and reflects plant operating conditions.	X	Yes
Control room panel walkdown performed near end of shift.	Х	Yes
Reviewed reasons for annunciated alarms with all operators	X	Yes
Control room panel walkdown performed with oncoming shift.	X	Yes
Performed light test on alarm windows.	X	Yes

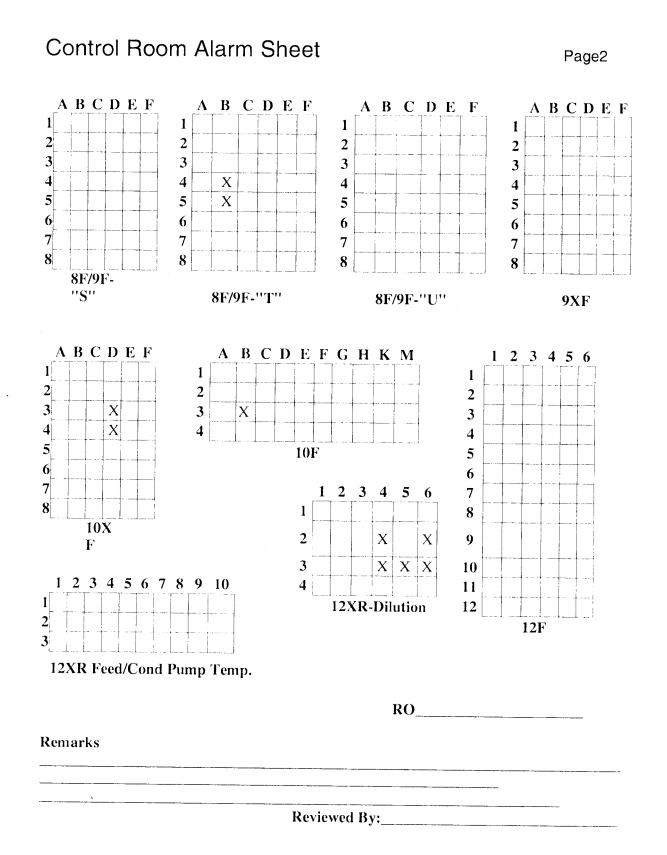
NRC JPM ADMIN SRO1

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NRC JPM ADMIN SRO1

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Appendix C		ance Measure <sheet< th=""><th>Form ES-C-1</th></sheet<>	Form ES-C-1			
Facility: Oyster Cree	ek	Task No.:				
Task Title: Plant I	Personnel Even	t Notification				
Job Performance Measu	re No.: NRC	JPM ADMIN SRO2 (SRO)				
K/A Reference: Gener	K/A Reference: Generic 2.1.14 (SRO 3.3)					
Examinee:	· · · · · · · · · · · · · · · · ·	Examiner:				
Facility Evaluator:	· · ·	Date:				
Method of Testing:						
Simulated Performance	X					
Classroom X	Simulator	Plant				

Read to the Examinee:

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

Initial Conditions:

- 1. A plant startup is in progress.
- 2. The REACTOR MODE SELECTOR switch is in STARTUP.
- 3. All IRMs indicate midscale on Range 8.
- 4. All APRMs indicate 1%.
- 5. Annunciator 9XF7d, 24 VDC PP-A PWR LOST alarmed 20 minutes ago.
- 6. Electrical maintenance suspects a short circuit.
- 7. The current date/time is April 19, 2008 at 1000.
- 8. A recovery plan has not been established.

Task Standard: The Candidate completes the Shift Manager's Notification Worksheet IAW OP-AA-106-101, Significant Event Reporting, and determines notification is required due to an unexpected $\frac{1}{2}$ scram and entry into a \leq 72-hour shutdown LCO.

Required Materials: None.

NRC JPM ADMIN SRO2

Page 1 of 14

General References:

- 1. Technical Specifications. (have available)
- 2. Procedure OP-AA-106-101, Significant Event Reporting, revision 8. (Note: ONLY provide Attachment 2 of the procedure.) (handout)
- 3. Procedure RAP-9XF7d, 24 VDC PP-A LOST, revision 0. (handout)
- 4. Procedure OP-OC-108-104-1001, Guidance for Limiting and Administrative Conditions for Operations, revision 0.
- 5. EP-AA-1010, Exelon Nuclear Radiological Emergency Plan Annes for Oyster Creek Station, revision 0 (have available)
- 6. Exelon Reportability Manual (have available)

Initiating Cue: Complete Attachment 2, Shift Manager's Notification Worksheet, of OP-AA-106-101, Significant Event Reporting, for receipt of the 24 VDC PP-A PWR LOST annunciator. Determine who the Shift Manager notifies of this event. Determining the requirement for a written report and LER will be performed by another Operator.

Time Critical Task: No.

Validation Time: 22 minutes

Appendix C	Job Performance Measure WORKSHEET	Form ES-C-
	Performance Information	
Denote critica	al steps with a check mark \checkmark	
	Performance Step: 1	
	Procedure Step: Provides repeat back of initiatin	ig cue.
	JPM Start Tin	ne:
Standard:	Provides repeat back of initiating cue. Evaluator the repeat back.	acknowledges
Comment:	·····	
SAT/UNSAT		
	Performance Step: 2	
	Procedure Step: Record date/time of the event of	on Attachment 2.
Standard:	Records date/time of the event on Attachment 2	as 4/19/08 1000
Note: Comment:	Completion of the Attachment may be performed	d in any order.

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Appendix C	Job Performance Measure WORKSHEET	Form ES-C-1
	Performance Information	
	Performance Step: 3	
	Procedure Step: Records current power/mode on a	Attachment 2.
Standard:	Records current power/mode on Attachment 2 as midscale on Range 8 of the IRMs, Startup.	1%, Startup, or
Note:	Only Performance Step 3 or performance Step 4 is STARTUP mode listed.	s critical, with
Comment:		
SAT/UNSAT		
	Performance Step: 4	
	Procedure Step: Records prior power/mode on Atta	achment 2.
Standard:	Records prior power/mode on Attachment 2 as 1% midscale on Range 8 of the IRMs, Startup.	, Startup, or
Comment:		
SAT/UNSAT		

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Appendix C	Job Performance Measure WORKSHEET	Form ES-C-1
	Performance Information	
	Performance Step: 5	
	Procedure Step: Records description.	
Standard:	Records a short description of the event: receipt of VDC PP-A LOST, or loss of 24 VDC PP-A, or sim description may contain the plant impact of ½ scra	ilar wording. The
Comment:		
SAT/UNSAT		
	Performance Step: 6	
	Procedure Step: Determines if the event requires declaration.	an EP
Standard:	Determines that the event does not require an EP	declaration.
Comment:		
SAT/UNSAT		

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Appendix C	Job Performance Measure WORKSHEET	Form ES-C-1
	Performance Information	
<u></u>	Devlarmance Stary 7	
	Performance Step: 7	
	Procedure Step: Determines if the event requires NRC via ENS or to an outside agency per the Exe Reference Manual.	
Standard:	Determines that the event does not require report via ENS or to an outside agency per the Exelon F Reference Manual.	
Comment:		
		······································
SAT/UNSAT		
L	Performance Step: 8	
	Procedure Step: Determines if an oil discharge in or adjoining shoreline.	to/upon waters
Standard:	Determines there is no oil discharge into/upon wa shoreline.	ters or adjoining
Comment:		
		· · · · · · · · · · · · · · · · · · ·
SAT/UNSAT		

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Appendix C	Job Performance Measure Form ES-C- WORKSHEET
	Performance Information
✓	Performance Step: 9
	Procedure Step: Determines if a leak or discharge of petroleum product or hazardous substance from the warehouse drop tank; a spill or discharge of hazardous materials in a quantity that constitutes a reportable discharge into or upon surface waters, groundwater, or onto the ground.
Standard:	Determines there is no leak or discharge of petroleum product or hazardous substance from the warehouse drop tank; or a spill or discharge of hazardous materials in a quantity that constitutes a reportable discharge ii onto the ground.
Comment:	onto the ground. WHY IS THIS STEP CRITICAL?
SAT/UNSAT	
	Performance Step: 10
	Procedure Step: Determines if a release of designated hazardou substances in amounts equal to or in excess of EPA reportable quantity.
Standard:	Determines no release of designated hazardous substances in amounts equal to or in excess of EPA reportable quantity.
Comment:	
SAT/UNSAT	

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Appendix C	Job Performance Measure WORKSHEET	Form ES-C-1
	Performance Information	
	Performance Step: 11	
	Procedure Step: Determines if any of the followir RCRA Program Exception Report submitted, or I Noncompliance endangering health or environme	Environmental
Standard:	Determines none of the following occurred: RCR Exception Report submitted, or Environmental N endangering health or environment.	
Comment:		
SAT/UNSAT		
	Performance Step: 12	
	Procedure Step: Determines if the event is threat environment or release equal to or in excess of E quantity.	
Standard:	Determines the event is not threatening health or release equal to or in excess of EPA reportable of	
Comment:		
SAT/UNSAT		

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Appendix C	Job Performance Measure Form ES-C WORKSHEET
	Performance Information
	Performance Step: 13
	Procedure Step: Determines if any of the following occurred: los of 10 or more sirens, or spurious activation signal with 1 or more sirens still sounding.
Standard:	Determines none of the following occurred: loss of 10 or more sirens, or spurious activation signal with 1 or more sirens still sounding.
Comment:	
SAT/UNSAT	
✓	Performance Step: 14
	Procedure Step: Determines if any of the following occurred: reactivity management event; hazardous material incident; fitne for duty; injury resulting in offsite medical attention; major enforcement action; non-routine communication to/from the NR reactor water condition above EPRI Action Level II; any event outside the plant design basis; any event proceeds differently th expected: unexpected ½ scram, unexpected and significant pla transient, LCO action that will not be met within deadline, initiation of a prompt investigation, or, an unexplained risk change.
Standard	reactivity management event; hazardous material incident; fitne for duty; injury resulting in offsite medical attention; major enforcement action; non-routine communication to/from the NR reactor water condition above EPRI Action Level II; any event outside the plant design basis; any event proceeds differently th expected: unexpected ½ scram, unexpected and significant pla transient, LCO action that will not be met within deadline, initiation of a prompt investigation, or, an unexplained risk change.
Standard: Comment:	reactivity management event; hazardous material incident; fitner for duty; injury resulting in offsite medical attention; major enforcement action; non-routine communication to/from the NR reactor water condition above EPRI Action Level II; any event outside the plant design basis; any event proceeds differently th expected: unexpected ½ scram, unexpected and significant pla transient, LCO action that will not be met within deadline, initiat of a prompt investigation, or, an unexplained risk change. Determines that an unexpected ½ scram has occurred. Checks YES to perform notifications and notifies the SOS/OD, DSM, ar NRC Resident Inspector.
	reactivity management event; hazardous material incident; fitne for duty; injury resulting in offsite medical attention; major enforcement action; non-routine communication to/from the NR reactor water condition above EPRI Action Level II; any event outside the plant design basis; any event proceeds differently th expected: unexpected ½ scram, unexpected and significant pla transient, LCO action that will not be met within deadline, initiati of a prompt investigation, or, an unexplained risk change. Determines that an unexpected ½ scram has occurred. Checks YES to perform notifications and notifies the SOS/OD, DSM, an

NRC JPM ADMIN SRO2

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Appendix C	Job Performance Measure WORKSHEET	Form ES-C-1
	Performance Information	
\checkmark	Performance Step: 15	
	Procedure Step: Determines if any of the followin event forced entry into a \leq 72 hour shutdown LCC forced a plant shutdown or unplanned power redu involved a significant breakdown of plant radiolog environmental controls.	D; the event action; the event
Standard:	Procedure Step: Determines that the event forced 72 hour shutdown LCO (loss of this Bus is a 30 h IAW TS 3.7.B. Checks YES to perform notification the SOS/OD, DSM, and NRC Resident Inspector	our shutdown ns and notifies
Comment:	•	
SAT/UNSAT		

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Appendix C	Job Performance Measure WORKSHEET	Form ES-C-1
	Performance Information	
	Performance Step: 16	
	Procedure Step: Determines if any of the TS 6.9 Reportability Requirements occurred.	9.3 Unique
Standard:	Determines that none of the TS 6.9.3 Unique Re Requirements occurred.	eportability
Comment:		
SAT/UNSAT		-

Terminating Cue: The Candidate completes the Shift Manager's Notification Worksheet IAW OP-AA-106-101, Significant Event Reporting, and determines notification is required due to an unexpected $\frac{1}{2}$ scram and entry into a \leq 72-hour shutdown LCO. SOS/OD, DSM and NRC Resident Inspector notifications are required.

JPM Stop Time: _____

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Job Performance Measure WORKSHEET

Validation of Completion

JPM Number:	NRC JPM ADMIN SRO2		
Examinee's Name:			
Examiner's Name:			
Date Performed:			
Facility Evaluator:			
Number of Attempts:			
Time to Complete:			
Question:			
Response:			
Rocult	Satisfactory/Lineatisfactory		
Result:	Satisfactory/Unsatisfactory		
Examiner's Signature and Date:			

NRC JPM ADMIN SRO2

Page 12 of 14

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Simulator Setup

1. None.

NRC JPM ADMIN SRO2

Page 13 of 14

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STUDENT HANDOUT

Initial Conditions:

- 1. A plant startup is in progress.
- 2. The REACTOR MODE SELECTOR switch is in STARTUP.
- 3. All IRMs indicate midscale on Range 8.
- 4. All APRMs indicate 1%.
- 5. Annunciator 9XF7d, 24 VDC PP-A PWR LOST alarmed 20 minutes.
- 6. Electrical maintenance suspects a short circuit.
- 7. The current date/time is April 19, 2008 at 1000.
- 8. A recovery plan has not been established.

Task Cue:

- Complete Attachment 2, Shift Manager's Notification Worksheet, of OP-AA-106-101, Significant Event Reporting, for receipt of the 24 VDC PP-A PWR LOST annunciator.
- Determine who the Shift Manager notifies of this event.
- Determining the requirement for a written report and LER will be performed by another Operator.

.7	Appendix C			nance Measure KSHEET)	Form ES-C-1
	Facility:	Oyster Cree	<u>k</u>	Task No.:	2260201402	2
	Task Title:	Review	Acceptance	Criteria for a Co	ompleted Sur	veillance Test
	Job Perform	ance Measu	e No.: NRC		SRO3	
	K/A Referen	ice: Generi	c 2.2.12 (SRC	3.4)		
	Examinee:			Examiner:		
	Facility Eval	uator:		Date:		
	Method of T	esting:				
	Simulated P	erformance		Actual Perfo	ormance	X
	Classroom	X	Simulator		Plant	

Read to the Examinee:

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

- 1. The plant is at rated power.
- 2. Surveillance test, 607.4.004, Containment Spray and Emergency Service Water System 1 Pump Operability and Comprehensive/Preservice/Post-Maintenance Inservice Test, has just been completed.
- 3. The test was a normally scheduled test.

Task Standard: The Candidate reviews the surveillance test Acceptance Criteria, recognizes the component discrepancies, and states the required action for each component discrepancy.

Required Materials: None.

General References:

- 1. Procedure 607.4.004, Containment Spray and Emergency Service Water System 1 Pump Operability and Comprehensive/Preservice/Post-Maintenance Inservice Test, revision 62.
- 2. AD-AA-101, Processing of Procedures and T&RMs, revision 18.

Initiating Cue: Perform the Acceptance Criteria section of the completed surveillance test, 607.4.004. Write your observations on the attached sheets. State any test discrepancies and any required actions for any noted discrepancy. Some Steps have already been evaluated as Satisfactory and are complete.

- State if the step is SAT or UNSAT
- If UNSAT, state the reason and the required actions

Time Critical Task: No.

Validation Time: 20 minutes.

•	Appendix C	Job Performance Measure WORKSHEET	Form ES-C-1				
	Denote critical steps with a check mark ✓						
	 	Performance Step: 1					
	Procedure Step: Provides repeat back of initiating cue.						
		JPM Start Tir	JPM Start Time:				
	Standard:	Provides repeat back of initiating cue. Evaluato	r acknowledges				
		the repeat back. Provide the Candidate with the completed procedure and the attached sheets.	e section of the				
	Comment:	•	e section of the				
	Comment:	•	e section of the				

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ACCEPTANCE CRITERIA

<u>Step</u>	<u>SAT/UNSAT</u>	Required Action if UNSAT/Reason
7.1.1	SAT	None
7.1.2	SAT	None
7.1.3	SAT	None
7.1.4	UNSAT CRITICAL	Incorrect use of temporary procedure change for TS surveillance acceptance criteria of ESW flow > 3000 gpm. Declare ESW Pump 52A inoperable and apply TS due to low flow.
7.1.5	SAT	None
7.1.6	SAT	None
7.2.1	SAT	None

· · Appendix C

Job Performance Measure WORKSHEET

ACCEPTANCE CRITERIA

<u>Step</u>	SAT/UNSAT	Required Action if UNSAT/Reason
7.2.2	SAT	-
7.2.3	UNSAT CRITICAL	Containment Spray Pump 51B vibration 4A is above the action range. Declare Containment Spray Pump 51B inoperable and apply TS.
7.2.4	UNSAT CRITICAL	Valve V-21-17 strokes outside the accept range but less than the limiting value. Retest immediately or declare inoperable and apply TS.
7.3	SAT	None
7.4	SAT	None

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Validation of Completion

JPM Number:	NRC JPM ADMIN SRO3	
Examinee's Name:		
Examiner's Name:		
Date Performed:		
Facility Evaluator:		
Number of Attempts:		
Time to Complete:		
Question:		
Response:		
Result:	Satisfactory/Unsatisfactory	
Examiner's Signature and Date:		

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Simulator Setup

- 1. None.
- 2. Provide pages 43 through E4-4 ONLY of 607.4.004.
- 3. Make the following steps unsat on the test:
 - a. Step 7.1.4: Lineout 3100 and insert 3000. Initial and date.
 - b. On the IST Pump Summary Sheet table, insert ESW 52A flow at 3050 gpm. Have all other flows acceptable.
 - c. On the vibration table for point 4A for Containment Spray Pump 51B, insert a value greater than the ACTION limit. Mark all other vibrations below the ALERT values. (0.26 in/sec)
 - In the valve stroke summary table, make the OPENING time for V-21-18 greater than the ACCEPT RANGE, but less than the LIMITING VALUE. Mark all others in the ACCEPT RANGE (37.4 seconds)
 - e. In the IST Valve Summary Sheet, lineout 3100 gpm and insert 3000 gpm for ESW Pump 52A flow. Initial and date.

STUDENT HANDOUT

Initial Conditions:

- 1. The plant is at rated power.
- 2. Surveillance test, 607.4.004, Containment Spray and Emergency Service Water System 1 Pump Operability and Comprehensive/Preservice/Post-Maintenance Inservice Test, has just been completed.
- 3. The test was a normally scheduled test.

Task Cue:

Perform the Acceptance Criteria section of the completed surveillance test, 607.4.004. Write your observations on the attached sheets. State any test discrepancies and any required actions for any noted discrepancy. Some Steps have already been evaluated as Satisfactory and are complete.

- State if the step is SAT or UNSAT
- If UNSAT, state the reason and the required actions

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STUDENT HANDOUT ACCEPTANCE CRITERIA

<u>Step</u>	SAT/UNSAT		Required Action if UNSAT/Reason
7.1.1	SAT	None	
7.1.2	SAT	None	
7.1.3	SAT	None	
7.1.4			· · · · · · · · · · · · · · · · · · ·
7.1.5			
			· · · · · · · · · · · · · · · · · · ·
7.1.6			
,			·
7.2.1			
1.2.1			

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STUDENT HANDOUT ACCEPTANCE CRITERIA

<u>Step</u>	<u>SAT/UNSAT</u>	Required Action if UNSAT/Reason
7.2.2		
700		
7.2.3		
7.2.4		
		•
7.3	SAT	None
7.4	SAT	None

NRC JPM ADMIN SRO3

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Appendix C		ormance Measure ORKSHEET	Form ES-C-1
Facility: Oyster	Creek	Task No.:	
Task Title: In	itiate Dose Cont	rol Extension Forms	
Job Performance M	easure No.: N	NRC JPM ADMIN SRO4 (SR	O)
K/A Reference: G	eneric 2.3.1 (SR	O 3.0)	
Examinee:		Examiner:	
Facility Evaluator:		Date:	
Method of Testing:			
Simulated Performa	nce	Actual Performance	X
Classroom	Simulato	or Plant	
Read to the Examin		nich steps to simulate or disc	auce and provide

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

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Initial Conditions:

- 1. The plant was shutdown for an extended outage to replace valves in Reactor Recirculation Loop A.
- 2. No Reactor Recirculation Pumps are running.
- 3. The following job is scheduled for next shift:
 - a. Grease the suction valve limitorque in Recirculation Loops B and C.
 - b. Manually cycle the valve once (O \rightarrow C, C \rightarrow O) after lubrication.
 - c. Perform RBCCW valve lineups on Reactor Recirculation Pumps and Motors B and C.
 - d. The job will be performed by 2 Equipment Operators; each performing the work on 1 Reactor Recirculation Pumps/Motors.
 - e. The dose rate in the work area is 325 mrem/hr.
 - f. Greasing each valve will take 10 minutes.
 - g. Manually cycling the valve ($O \rightarrow C, C \rightarrow O$) will take 10 minutes.
 - h. The RBCCW valve lineup for each pump/motor will take 10 minutes.
 - i. Independent verifications on the valve lineup will be performed later.
- 4. The available Equipment Operators next shift are listed below. No other qualified individuals with lower current year routine TEDE will be available to perform this work.

<u>Name</u>	<u>SSN</u>	Current year TEDE mrem	EO Status
Bill Block	111-11-1111	1950	Fully qualified EO
Carol Casper	222-22-2222	350	Fully qualified EO; Declared pregnant on 1/1/08
Dave Draper	333-33-3333	1750	Fully qualified EO
Frank Fick	444-44-4444	1575	EO candidate in the OJT Phase
Greg Galler	555-55-5555	1875	Fully qualified EO



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Task Standard: Dave Draper and Greg Galler are selected to perform the job. A Dose Control Level Extension Form is initiated for each individual.

Required Materials: Calculator.

General References:

1. Procedure RP-AA-203, Exposure Control and Authorization, revision 3.

Initiating Cue:

- Select the 2 Equipment Operators to perform the job.
- Initiate Section 1 of Attachment 1, Dose Control Level Extension Form, to Procedure RP-AA-203, Exposure Control and Authorization, for the individuals selected to perform the job, if required.
- The selected individual(s) will sign the form if the form is required, after initiation.

Time Critical Task: No.

Validation Time: 22 minutes

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Performance Information

Denote critical steps with a check mark ✓

• · · · · · · · · · · · · · · · · · · ·	Performance Step: 1
	Procedure Step: Provides repeat back of initiating cue.
	JPM Start Time:
Standard:	Provides repeat back of initiating cue. <i>Evaluator acknowledges</i> the repeat back.
Comment:	, .
SAT/UNSAT	
	p below is not proceduralized but is necessary to determine the ceived while performing the job.
~	Performance Step: 2
	Procedure Step: Determines dose received to each worker.
Standard	 Determines dose received to each worker: 10 minutes to grease the suction valve limitorque 10 minutes to cycle the suction valve
	 10 minutes to byte the suction value 10 minutes to perform value lineup Total time per pump: 30 minutes Total exposure for each worker: 0.5 hr x 325 mrem/hr = 162.5 mrem
Comment:	 10 minutes to perform valve lineup Total time per pump: 30 minutes Total exposure for each worker: 0.5 hr x 325 mrem/hr =
Comment:	 10 minutes to perform valve lineup Total time per pump: 30 minutes Total exposure for each worker: 0.5 hr x 325 mrem/hr =

Appendix C	Job Performance Measure Form ES-C-1 WORKSHEET				
Performance Information					
~	Performance Step: 3				
	Procedure Step: Determines who is eligible to perform the job.				
Standard:	Determines who is eligible to perform the job.				
	 Determines that Carol Casper cannot perform the job since the dose received is greater than allowed for a declared pregnant worker (500 mR) 				
	 Determines that Frank Fick cannot perform the job since his not qualified. 				
	 Determines that of the 3 workers left, that Dave Draper and Greg Galler have the lowest current yearly accumulated dose and should be selected. 				
Comment:					
SAT/UNSAT					
✓	Performance Step: 4				
✓	Performance Step: 4 Procedure Step: Determines total dose to the workers				
√ Standard:	-				
√ Standard:	Procedure Step: Determines total dose to the workers				
√ Standard:	 Procedure Step: Determines total dose to the workers Dave Draper: 1750 + 162.5 = 1912.5 mrem Because his total does is less than the administrative 				
√ Standard:	 Procedure Step: Determines total dose to the workers Dave Draper: 1750 + 162.5 = 1912.5 mrem Because his total does is less than the administrative limit of 2000 mrem, no dose extension is required Greg Galler: 1875 + 162.5 = 2037.5 mrem Because his total does is greater than the 				
✓ Standard: Comment:	 Procedure Step: Determines total dose to the workers Dave Draper: 1750 + 162.5 = 1912.5 mrem Because his total does is less than the administrative limit of 2000 mrem, no dose extension is required Greg Galler: 1875 + 162.5 = 2037.5 mrem Because his total does is greater than the administrative limit of 2000 mrem, a Dose Control Leve Extension Form is required 				
	 Procedure Step: Determines total dose to the workers Dave Draper: 1750 + 162.5 = 1912.5 mrem Because his total does is less than the administrative limit of 2000 mrem, no dose extension is required Greg Galler: 1875 + 162.5 = 2037.5 mrem Because his total does is greater than the administrative limit of 2000 mrem, a Dose Control Leve Extension Form is required 				
	 Procedure Step: Determines total dose to the workers Dave Draper: 1750 + 162.5 = 1912.5 mrem Because his total does is less than the administrative limit of 2000 mrem, no dose extension is required Greg Galler: 1875 + 162.5 = 2037.5 mrem Because his total does is greater than the administrative limit of 2000 mrem, a Dose Control Leve Extension Form is required 				

Appendix C	Job Performance Measure WORKSHEET	Form ES-C
	Performance Information	
\checkmark	Performance Step: 4	
	Procedure Step: Initiates Section 1 of the Dose Extension Form for Greg Galler.	Control Level
Standard:	Initiates Section 1 of the Dose Control Level Ext Greg Galler:	ension Form for
	Name: Greg Galler (critical step)	
	 SSN: 555-55-5555 (critical step) 	
	 Answers NO to the question: Are other question with a lower current year routine TEDE as this work? (not critical step) 	
	 States why an extension above 2000 mre for the year is necessary for this individua limitorque greasing, valve cycling, and va similar). (not critical) 	al: To perform
	 Requests a dose extension to 2500 mren 2037.5 mrem.) (critical step) 	n (1875 + 162.5 s
	 Signs the form as the Requestor and date 	es (not critical)
Comment:		
		· ···· ····
SAT/UNSAT		

Terminating Cue: Dave Draper and Greg Galler are selected to perform the job. A Dose Control Level Extension Form is initiated for Greg Galler.

JPM Stop Time: _____

NRC JPM ADMIN SRO4

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Appendix (2
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Form ES-C-1

Validation of Completion

JPM Number:	NRC JPM ADMIN SRO4
Examinee's Name:	
Examiner's Name:	
Date Performed:	
Facility Evaluator:	
Number of Attempts:	·
Time to Complete:	
Question:	
Response:	
Result:	Satisfactory/Unsatisfactory
Examiner's Signature	

NRC JPM ADMIN SRO4

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Simulator Setup

1. None.

NRC JPM ADMIN SRO4

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STUDENT HANDOUT

Initial Conditions:

- 1. The plant was shutdown for an extended outage to replace valves in Reactor Recirculation Loop A.
- 2. No Reactor Recirculation Pumps are running.
- 3. The following job is scheduled for next shift:
 - a. Grease the suction valve limitorque in Recirculation Loops B and C.
 - b. Manually cycle the valve once $(O \rightarrow C, C \rightarrow O)$ after lubrication.
 - c. Perform RBCCW valve lineups on Reactor Recirculation Pumps and Motors B and C.
 - d. The job will be performed by 2 Equipment Operators; each performing the work on 1 Reactor Recirculation Pumps/Motors.
 - e. The dose rate in the work area is 325 mrem/hr.
 - f. Greasing each valve will take 10 minutes.
 - g. Manually cycling the value ($O \rightarrow C, C \rightarrow O$) will take 10 minutes.
 - h. The RBCCW valve lineup for each pump/motor will take 10 minutes.
 - i. Independent verifications on the valve lineup will be performed later.
- The available Equipment Operators next shift are listed below. No other qualified individuals with lower current year routine TEDE will be available to perform this work.

Name	<u>SSN</u>	Current year TEDE mR	<u>EO Status</u>
Bill Block	111-11-1111	1950	Fully qualified EO
Carol Casper	222-22-2222	300	Fully qualified EO; Declared pregnant on 1/1/08
Dave Draper	333-33-3333	1750	Fully qualified EO
Frank Fick	444-44-4444	1575	EO candidate in the OJT Phase
Greg Galler	555-55-5555	1875	Fully qualified EO

NRC JPM ADMIN SRO4

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Task Cue:

- Select the 2 Equipment Operators to perform the job.
- Initiate Section 1 of Attachment 1, Dose Control Level Extension Form, to Procedure RP-AA-203, Exposure Control and Authorization, for the individuals selected to perform the job, if required.
- The selected individual(s) will sign the form if the form is required after initiation.

ý y	Appendix C			ance Measure SHEET	9	Form ES-C-1
	Facility: Oy	ster Creeł	٢	Task No.:	200050240	1
	Task Title:		ne Emergency nendations	/ Classificatio	n and Protect	ive Action
	Job Performanc	e Measure	e No.: NRC	JPM ADMIN	SRO5 (SRO))
	K/A Reference: Generic 2.4.29 (SRO 4.0)					
	Examinee:			Examiner:		
	Facility Evaluate)r:		Date:		
	Method of Testing:					
	Simulated Perfo		Actual Perfo	ormance	X	
	Classroom	Х	Simulator		Plant	

Read to the Examinee:

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

Initial Conditions:

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The plant was at rated power when an automatic scram occurred 45 minutes ago. The following conditions currently exist:

- All but 8 control rods indicate full-in
- APRMs indicate downscale
- Reactor Engineering has determined that the reactor will remain shutdown under all conditions without boron
- RPV water level is -60" with Core Spray injecting
- Drywell pressure is 28 psig
- Drywell temperature is 270 °F
- Main Stack RAGEMS indicates 4.1 µCi/cc HRN
- Drywell hydrogen indicates 3.1%
- CHRRMS #1 indicates 1320 R/hr
- CHRRMS #2 is downscale due to a loss of power
- Dose assessment shows the highest dose at or beyond the site boundary is 115 mRem



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Task Standard: The emergency has been classified and the PARs have been determined.

Required Materials: None.

General References:

- 1. EP-AA-1010, Radiological Emergency Plan Annez for Oyster Creek Station, revision 0.
- 2. EP-AA-111, Emergency Classification and Protective Action Recommendations, revision 13.
- 3. EP-AA-111-F-10, Oyster Creek Plant Based PAR Flowchart, revision A.

Initiating Cue: Classify the emergency event IAW EP-AA-1010 (include the EAL designation). State the reason for this classification.

Time Critical Task: Yes.

Validation Time: 12 minutes Part 1

10 minutes Part 2

Appendix C	Job Performance Measure Form ES-C-1 WORKSHEET
	Performance Information
Denote critica	al steps with a check mark \checkmark
**************************************	Performance Step: 1
	Procedure Step: Provides repeat back of initiating cue.
	JPM Start Time:
Standard:	Provides repeat back of initiating cue. Evaluator acknowledges the repeat back. Handout first page of STUDENT HANDOUT.
Comment:	
SAT/UNSAT	
✓	Performance Step: 2
	Procedure Step: Classifies the emergency as a General Emergency (FG1).
Standard:	Classifies the emergency as a General Emergency (FG1). This classification is made within 15 minutes from the JPM Start Time.
	Reasons: Loss of Fuel Clad barrier (RPV water level < -20"); Loss of Reactor Coolant barrier (RPV water level < 0"); and Potential Loss of Primary Containment barrier (CHRRMS > 1210 R/hr less than 2 hours after shutdown).
Note:	Record time that the first page of the STUDENT HANOUT is received from each Candidate.
Comment:	
SAT/UNSAT	

NRC JPM ADMIN SRO5

Appendix C	Job Performance Measure WORKSHEET	Form ES-C-			
	Performance Information				
\checkmark	Performance Step: 3 JPM Start Time:	·····			
Note:	Once the first page of the STUDENT HANDOU all Candidates, provide the second page, read t Conditions, the Cue, and record new start time	the Additional			
Cue:	Determine the Protective Action Recommendations (PARs) IAW EP-AA-111 and EP-AA-111-F-10. Provides repeat back of initiating cue. <i>Evaluator acknowledges the repeat back</i>				
	Procedure Step: Determines the Protective Act Recommendations (PARs):	ion			
	 Evacuate 2-mile radius and 5-mile downwind; shelter areas not evacuated (since there are no travel impediments). These areas 5-miles downwind include the SSW, SW, and WSW 				
	 Recommend KI for the General Public within the EPZ 				
	Advise the EPZ to monitor EAS messages				
Standard:	Determines the Protective Action Recommendation	ations (PARs):			
	• Evacuate 2-mile radius and 5-mile downwind; shelter areas not evacuated (since there are no travel impediments). These areas 5-miles downwind include the SSW, SW, and WSW				
	 Recommend KI for the General Public within the EPZ 				
	Advise the EPZ to monitor EAS messages				
	 The PARs are determined within 15 minutes Emergency classification. 	s from the Genera			
Note:	Record time that the second page of the STUD received from each Candidate.	ENT HANOUT is			
Comment:					
CATUNCAT					
SAT/UNSAT					

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Performance Information

Terminating Cue: The emergency has been classified and the PARs have been determined. Record stop time on each Candidates' second page.

NRC JPM ADMIN SRO5

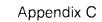
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Appendix C	Job Performance Measure WORKSHEET	Form ES-C-1
	Validation of Completion	
JPM Number:	NRC JPM ADMIN SRO5	
Examinee's Name:		
Examiner's Name:		
Date Performed:		
Facility Evaluator:		
Number of Attempts:		
Time to Complete:		
Question:		
Response:		
Result:	Satisfactory/Unsatisfactory	
Examiner's Signature	and Date:	

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NRC JPM ADMIN SRO5

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Simulator Setup

1. None.

NRC JPM ADMIN SR05

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STUDENT HANDOUT

Initial Conditions:

The plant was at rated power when an automatic scram occurred 45 minutes ago. The following conditions currently exist:

- All but 8 control rods indicate full-in
- APRMs indicate downscale
- Reactor Engineering has determined that the reactor will remain shutdown under all conditions without boron
- RPV water level is -60" with Core Spray injecting
- Drywell pressure is 28 psig
- Drywell temperature is 270 °F
- Main Stack RAGEMS indicates 4.1 µCi/cc HRN
- Drywell hydrogen indicates 3.1%
- CHRRMS #1 indicates 1320 R/hr
- CHRRMS #2 is downscale due to a loss of power
- Dose assessment shows the highest dose at or beyond the site boundary is 115 mRem

Task Cue:

Classify the emergency event IAW EP-AA-1010 (include the EAL designation) and state the reason for this classification.

Emergency Classification:	
Emergency Action Level designation:	
Reason:	
Name:	Time:
	(NRC Only)
When complete, hand in this page.	

NRC JPM ADMIN SRO5

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STUDENT HANDOUT

Initial Conditions:

The plant was at rated power when an automatic scram occurred 45 minutes ago. The following conditions currently exist:

- All but 8 control rods indicate full-in
- APRMs indicate downscale
- Reactor Engineering has determined that the reactor will remain shutdown under all conditions without boron
- RPV water level is -60" with Core Spray injecting
- Drywell pressure is 28 psig
- Drywell temperature is 270 °F
- Main Stack RAGEMS indicates 4.1 µCi/cc HRN
- Drywell hydrogen indicates 3.1%
- CHRRMS #1 indicates 1320 R/hr
- CHRRMS #2 is downscale due to a loss of power
- Dose assessment shows the highest dose at or beyond the site boundary is 115 mRem

Additional Initial Conditions:

- Environmental conditions show that the wind is from 50° at 20 mph
- There are no travel impediments

Task Cue:

lostante

Determine the Protective Action Recommendations (PARs) AW EP-AA-111 and EP-AA-114-P-10.

Protective Action Recommendations:

1 1	ame:	
1 1	ane.	

Time: _____

(NRC Only)

NRC JPM ADMIN SRO5

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