Appendix C	pendix C Job Performance Measure Worksheet	
Facility: Calvert Cliffs 1&2	Job Performance Measur	re No.: 2008-NIS
Task Title: Calculate Tq usin	ng the excore NIs	
Task Number: 204.129		
K/A Reference: 015K5.16 (2	2.9, 3.4)	
Method of testing:		
Simulated Performance:	Actual Performance:	<u>√</u>
Classroom: $\underline{}$ S	Simulator: Plant:	

READ TO THE APPLICANT:

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. Unit 1 has been operating at 70% power for several weeks to support SGFP maintenance.
- 2. The plant computer has "crashed" and is inoperable.
- 3. You are performing the duties of the Unit-1 RO
- 4. The LAN is down and "OPS CALC" is not available.

Initiating Cue:

AOP-7H has been implemented and the CRS directs you to determine the azimuthal power tilt (Tq) using the excore NIs per Block Step IV.F.

Task Standard:

This JPM is complete when calculated azimuthal power tilt (Tq) is determined to be within acceptable limits per AOP-7H Step IV.F.

Appendix C	Job Performance Measure	Form ES-C-1
	Worksheet	

Evaluation Criteria:

- 1. All critical steps completed.
- 2. All sequential steps completed in order.
- 3. All time-critical steps completed within allotted time.
- 4. JPM completed within validated time. Completion time may exceed the validated time if satisfactory progress is being made.

Required Materials:

- 1. Calculator
- 2. Blank AOP-7H Attachment 5

General References:

- 1. AOP-7H
- 2. NEOP-13

Time Critical Task:

No

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Appen		~

Validation Time:

15 minutes

Simulator Setup:

None

TIME START_____

<u></u>	Locate AOP-7H Section IV.F.	Same as element.

CUE: The excore detector readings below are to be used on the attachment.

(3) Excore detectors are operable with the following readings:

"A" upper: "B" upper: "C" upper: "A" lower: "B" lower:	69.3% 69.2% 69.5% 70.1% 69.9%
"C" lower:	70.6%

CUE: Wher used	asked, Channel D is inoperable, and the	e LAN is down so Ops calc cannot be
1.	IF ALL four Linear Power Channels are operable, THEN perform the following:	Determines only three (3) channels are operable and step is not applicable.
1.1.	IF only 3 Linear Power Channels are operable AND Reactor Power is less than 75%, THEN calculate Tq using three Excore detectors as follows:	Determines this step is applicable
1.2.	IF only 3 Linear Power Channels are operable AND Reactor Power is greater than 75%	Determines this step is not applicable
	. Record the readings on ATTACHMENT (5), <u>Tq</u> <u>CALCULATION USING</u> <u>EXCORE DETECTORS</u> .	Records Readings on Attachment 5.
	Calculate an upper AND a lower Tq using the method in ATTACHMENT (5), <u>Tq</u> <u>CALCULATION USING</u> <u>EXCORE DETECTORS</u> .	Calculates Upper Tq to be 0.00322 (\pm .0005) if using CUE values. Calculates Lower Tq to be 0.00732 (\pm .0005) if using CUE values.

_____ 2. IF Tq is greater than 0.03,

Determines Tq is less than 0.03.

TIME STOP

Examiner Note: This JPM is complete when calculated azimuthal power tilt (Tq) is determined to be within acceptable limits per AOP-7H Step IV.F. No further actions are required. The operator is expected to end the JPM.	
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Verification of Completion

Job Performance	ce Measure Number:	2008-NIS	
Applicant:	<u> </u>		
NRC Examiner	:		
Date Performed	1:		
Facility Evalua	tor:		
Number of Atte	empts:		
Time to Compl	ete:		
Follow up Que	stion:		
Applicant Resp	oonse:		
<u></u>	····		
Result:	SAT	UNSAT	
Examiner's Sig	gnature and Date:		

APPLICANT'S CUE SHEET

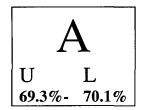
INITIAL CONDITIONS:

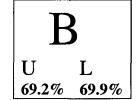
- a. Unit 1 has been operating at 70% power for several weeks to support SGFP maintenance.
- b. The plant computer has "crashed" and is inoperable.
- c. You are performing the duties of the Unit-1 RO.
- d. The LAN is down and "OPS CALC" is not available.

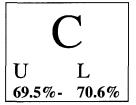
INITIATING CUE:

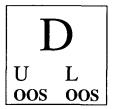
Initiating Cue: AOP-7H has been implemented and the CRS directs you to determine the azimuthal power tilt (Tq) using the excore NIs per Block Step IV.F. Are there any questions? You may begin.

CUE SHEET FOR JPM 2008-NIS









Appendix C	Job Performance Measure Worksheet	Form ES-C-1
"A" upp	er: 69.3%	
"B" upp	er: 69.2%	
"C" upp	er: 69.5%	
"A" low	er: 70.1%	
"B" lowe	er: 69.9%	
"C" lowe	er: 70.6%	

Appendix C	Job Performance Measure Worksheet	Form ES-C-1
Facility: Calvert Cliffs 1&2	Job Performance Measure I	No.: 2008-TTB-RO
Task Title: Determine Time	to Boil	
Task Number: 064.008		
K/A Reference: K/A 2.1.25	(3.9, 4.2)	
Method of testing:	Actual Performance:	1
	Simulator: Plant:	
READ TO THE APPLICANT		
-	itions, which steps to simulate or d mplete the task successfully, the o satisfied.	· -

Initial Conditions:

- 1. Unit one is in reduced inventory at 41 feet.
- 2. Containment closure deviations exists
- 3. Reactor has been shutdown for 5 days
- 4. **RCS is at 120° F**
- 5. It is near the end of your shift
- 6. The LAN is down, Ops calc is not available

Initiating Cue:

The CRS has directed you to calculate a time to boil (shiftly) for the turnover sheet.

Task Standard:

Correctly determine time to boil in accordance with OP-7, or AOP-3B.

Evaluation Criteria:

- 1. All critical steps completed.
- 2. All sequential steps completed in order.
- 3. All time-critical steps completed within allotted time.
- 4. JPM completed within validated time. Completion time may exceed the validated time if satisfactory progress is being made.

Required Materials:

- 1. **OP-7** revision 42
- 2. **OP-7** Table 3 revision 42
- 3. **OP-7** Figure 1 revision 42
- 4. AOP-3B revision 22, attachments 8 and 10
- 5. NO-1-200 revision 34, attachment 31, Lower Mode Checklist

General References:

- 1. OP-7 revision 42
- 2. NO-1-200 revision 34, Shift Turnover Sheet

Time Critical Task:

No

Validation Time:

15 minutes

Simulator Setup:

None

TIME START_____

CUE: When the applicant identifies and locates OP-7 Figure 1, and OP-7 Table 3, OR AOP-3B attachments 8 and 10, provide the applicant with a working copy of the appropriate figure and/or attachments.

CUE: Provide applicant with copy of attachment 31, Lower Mode Operation Checklist

* 1.	Identify and locate correct procedure.	OP-7., Figure 1, Table -3, OR AOP-3B, attachment 8 and 10.
*2.	Calculates a Time to Boil using OP-7 Figure 1, and Table -3, or AOP- 3B attachment 8 and 10.	TTB is 21 (\pm 2) minutes
3.	Records the TTB on the Shift Turnover Sheet	Same as element
TIME STOP		

TERMINATING CUE: This JPM is complete when the candidate calculates a TTB and records it on the turnover sheet. No further actions are required.

Verification of Completion

Job Performance Measure Nur	mber: 2008-TTB (RO)	
Applicant:		
NRC Examiner:		
Date Performed:		
Facility Evaluator:		
Number of Attempts:		
Time to Complete:		
Follow up Question:		
		·
Applicant Response:		
<u></u>		
Result: SAT	UNSAT	
Examiner's Signature and Date	e:	

APPLICANT'S CUE SHEET

INITIAL CONDITIONS:

- 1. Unit one is in reduced inventory at 41 feet.
- 2. Containment closure deviations exists
- 3. Reactor has been shutdown for 5 days
- 4. RCS is at 120° F
- 5. It is near the end of your shift

INITIATING CUE:

The CRS has directed you to calculate a time to boil (shiftly) for the turnover sheet.

Facility: Calvert Cliffs 1&2	Job Performance Measure No.: 2008-RCP
Task Title: Determine if RCP restart cri	teria are satisfied
Task Number: 201.028	
K/A Reference: 2.2.44 (4.2, 4.4)	
Method of testing:	
Simulated Performance:	Actual Performance: <u></u>
Classroom: Simulator:	<u>√</u> Plant:

READ TO THE APPLICANT:

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 station blackout resulted in a reactor trip on Unit-1.
- 2. Offsite power has been restored to Unit-1 and it is desired to restart RCPs
- **3.** Component cooling has been restored and RCP seal parameters appear satisfactory.
- 4. You are performing the duties of the Unit-1 CRO/RO.

Initiating Cue:

The CRS directs you to perform Block Step AA, Evaluate Restoring Forced Circulation, of EOP-7 to determine if RCP restart criteria are satisfied. Are there any questions? You may begin.

Task Standard:

Determine that the current plant conditions and RCP parameters allow the RCPs to be restarted.

Evaluation Criteria:

- 1. All critical steps completed.
- 2. All sequential steps completed in order.
- 3. All time-critical steps completed within allotted time.
- 4. JPM completed within validated time. Completion time may exceed the validated time if satisfactory progress is being made.

Required Materials:

1. Procedures and manuals normally available in the control room

General References:

- 1. EOP-7
- 2. OI-1A

Time Critical Task:

No

Validation Time:

15 minutes

Simulator Setup:

- 1. Reset the simulator IC-11 (MOC Hot Standby)
- 2. Secure All RCPs
- 3. Secure Condensate & Main Feed System & Start 11 or 12 AFW Pump
- 4. Establish Aux Feed to 11 & 12 S/Gs and stabilize AFW flow.
- 5. Use Malfunction to lower Condenser Vacuum to Zero
- 6. Adjust ADVs to establish Tcold at 530°F
- 7. Ensure pressurizer level is between 155 and 180 inches
- 8. Freeze simulator
- 9. Instructor to act as BOP and take care of alarms and maintain temperature

TIME START

Locates and identifies EOP-7, Block Step Same as element. AA.
--

CUE:	The CRS has directed you to evaluate and restart a RCP. CRS directs to start
	11A or 11B RCP, preference is 11A.

- 1. WHEN 500KV offsite power is restored, THEN evaluate the need and desirability of restarting RCPs based on the following:
 - Adequacy of RCS and Core Heat Removal using natural circulation Determines it is more desirable to use forced circulation.
 - Existing RCS pressure and temperatures Verifies RCS pressure and temperatures per pump curves

(OI-1A or EOP Attachments).

EXAMINER NOTE: CUES are to be provided for RCP seal bleed off temperatures due to simulator setup issues

CUE:	When the candidate checks the plant computer for RCP seal bleed off temperatures and goes to the correct group display, provide a cue that the highest Controlled Bleed-off temperature is on 11A RCP at 201°F and stable.			
	RCP Controlled Bleed-off temperatures	Looks at Controlled Bleed-off temperatures on Plant Computer.		
*	Evaluates 11A and 11B RCP seal temperatures	Determines that 11A RCP cannot be restarted, informs CRS		
2.	IF RCP operation is NOT desired,	NOT APPLICABLE		
	(NOT APPLICABLE)			
3.	<u>IF</u> T _{COLD} is less than 369°F, THEN restart the RCPs PER OI-1A <u>Reactor</u> <u>Coolant System and Pump Operations</u> .	Checks T _{COLD} indications, on 1C06, and determines that T _{COLD} is greater than 369°F.		
CUE:	SM has determined meggering is not necessar	ry.		
4.	IF RCPs have been exposed to excessive moisture,	No action required.		
CAUTION:	If an RCP Controlled Bleed-off temperature exceeds 250°F, the affected seal must be rebuilt before the RCP can be operated. Do NOT restart ANY RCP whose			

Controlled Bleed-off temperature has exceeded 250°F

5.	Check Controlled Bleed-off temperatures for the RCPs to be restarted have NOT exceeded 250°F.	Asks which RCPs are to be restarted and refers to step Q of EOP-7 for bleed-off temperature data or asks the CRS.	
temp	n the candidate checks the plant computer for peratures, provide a cue that: 11B RCP Contr F and lowering.	• 11B RCP seal bleed off olled Bleed-off temperature is	
6.	Verify RCP Controlled Bleed-off temperatures are less than 200°F or are lowering.	Checks control bleed-off temperatures indication on plant computer.	
	essurizer level is not above 155 inches direct, a raise pressurizer level to > 155 inches	pplicant to start 13 charging	
7.	Raise Pressurizer level to between 155 and 180 inches.	Checks the chart and level indication, on 1C06, to determine pressurizer level.	
* 8. 9.	Reduce T _{COLD} to less than 525°F. Verify RCP restart criteria are met by ALL of the following:	Operates ADVs in MANUAL to reduce T _{COLD} to less than 525°F.	
	 Verify electrical power is available to the RCPs. RCP BUS MCC-115 (ALL RCPs) MCC-105 (11A/11B RCP) 	Checks that 13KV Bus is energized and either the normal or alternate RCP feeder breaker shut	
	• 12/22 SERV BUS VOLTS is less than 14.8 KV.	Checks 12/22 SERV BUS volts are less than 14.8 at 1C19.	
	• 4KV Vital Bus voltage is greater than 4100 volts.	Checks 11 and 14 4KV Bus voltage indication, on 1C18 and 1C19.	
	n the candidate checks the plant computer for eratures and goes to the correct group display	, provide a cue that: 11B RCP	
temp	rolled Bleed-off temperature is 192°F and low	ering.	

•	RCS subcooling is greater than 30°F based on CET temperatures.	Determines that subcooling is ~92°F by either using the steam tables or checking CET subcooling indication, on 1C05.
	 At least ONE S/G is available for heat removal. S/G level greater than (-) 170 inches capable of being supplied with feedwater capable of being steamed 	Checks S/G level, ADV status and auxiliary feedwater status, on 1C03 and 1C04, to determine that both S/Gs are available for heat removal.
•	Pressurizer level is greater than 155 inches and NOT lowering.	Checks Pressurizer level indication, on 1C06, (1-LI-110X(Y) or digital) to determine pressurizer level at 160 and steady.
•	T _{COLD} is less than 525°F.	Checks T _{COLD} indication, on 1C06, to determine T _{COLD} to be 520°F.
•	RCS temperature and pressure are greater than the minimum operating limits PER ATTACHMENT (1), <u>RCS PRESSURE TEMPERATURE</u> <u>LIMITS</u> , for the pumps to be started.	Refers to Attachment (1) and determines that RCS pressure is greater than the minimum required and 11B RCP can be started.
*	Informs the CRS that 11B RCP can be started	Same as element

TIME STOP

Examiner Note: The JPM is complete when it is determined that all RCP restart criteria are met for 11B RCP. No further actions are required.

Verification of Completion

Job Performance Measure Number: 2008-RCP
Applicant:
NRC Examiner:
Date Performed:
Facility Evaluator:
Number of Attempts:
Time to Complete:
Follow up Question:
Applicant Response:
Result: SAT UNSAT
Examiner's Signature and Date:

APPLICANT'S CUE SHEET

INITIAL CONDITIONS:

- a. A station blackout resulted in a reactor trip on Unit-1.
- b. Offsite power has been restored to Unit-1 and it is desired to restart RCPs.
- c. Component cooling has been restored and RCP seal parameters appear satisfactory.
- d. You are performing the duties of the Unit-1 CRO/RO.

INITIATING CUE:

The CRS directs you to perform Block Step AA, Evaluate Restoring Forced Circulation, of EOP-7 to determine if RCP restart criteria are satisfied. Are there any questions? You may begin.

Facility:	Calvert Cliffs 18	&2	Job Performance Measure No.: 2008-RAD
Task Title	e: Determine Provide the R	. 0	ical Controls associated with manipulating a
Task Num	nber: NA		
K/A Refe	rence: 2.3.7 (3.5, 3	6.6)	
Method o	f testing:		
Simulated	l Performance:		Actual Performance:
Classroon	n: <u> </u>	Simulator: _	Plant:

READ TO THE APPLICANT:

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. You have been assigned to enter the RCA and verify 1-SI-475 is shut
- 2. Identify appropriate radiological controls associated with this evolution, including:
 - a. Protective Clothing required
 - b. Dosimetry required
 - c. Hot spots to avoid
 - d. Contaminated Areas
 - e. General Area Does Rates

Initiating Cue:

The CRS has directed you to verify 1-SI-475 is shut. The CRS has estimated a total time to accomplish this work of ~5 minutes. Identify all appropriate radiological controls as listed above in preparation for a Pre-Job brief.

Task Standard:

This JPM is complete all when radiological controls have been determined and identified

Evaluation Criteria:

- 1. All critical steps completed.
- 2. All sequential steps completed in order.
- 3. All time-critical steps completed within allotted time.
- 4. JPM completed within validated time. Completion time may exceed the validated time if satisfactory progress is being made.

Required Materials:

- 1. Procedures and manuals normally available in the plant
- 2. RWP-2008-0002 Rev 0
- 3. Survey MAP for 5' AUX BLDG Unit-1 VCT Room (Modified to show 60/30 mrem for 1-CVC-500)
- 4. P& ID for SI and CVCS systems

General References:

- 1. RWP-2008-0002 Rev 0
- 2. Survey MAP for 5' AUX BLDG Unit-1 VCT Room
- 3. P& ID for SI and CVC systems

Time Critical Task:

No

Validation Time: 5 minutes

Simulator Setup:

NONE

JOB PERFORMANCE MEASURE 2008-RAD

ELEMENT

(* = CRITICAL STEP)

STANDARD

TIME START____

CUE: You are assigned to verify shut 1-SI-475

CUE: Provide the candidate with several RWPs including RWP # 2008-002:

____* 1. Candidate refers to the proper RWP

Locates the Ops RWP 2008-0002 Rev 0

CUE: Provide the candidate with several MO's including correct MO:

* 2. Reviews survey sheet for specific areas to be entered	Locates appropriate survey map and determines that a contaminated area must be entered, and a high radiation area is located near the strainer, but he will NOT enter a high radiation area and/or south end of VCT room.
* 3. Candidate identifies protective clothing requirements	Candidate determines that Full Anti- Cs are required, or partials as per RP
* 4. Candidate identifies the general area dose levels	Candidates determines that the general area dose rate is 10 MR/hr
* 5. Candidate determines dosimetry required.	Candidate determines TLD & EPD are required for en try and NO other dosimetry is required.

TIME STOP

TERMINATING CUE:	This JPM is complete when candidate has identified all radiological controls listed above for entering the RCA,]
	evaluator will terminate this JPM.	

NOTE TO EXAMINER: Collect the applicant work sheet at the completion of the JPM

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Verification of Completion

Iob Performance Measure Number: 2008-RAD
Applicant:
NRC Examiner:
Date Performed:
Facility Evaluator:
Number of Attempts:
Fime to Complete:
Follow up Question:
Applicant Response:
Result: SAT UNSAT
Examiner's Signature and Date:

APPLICANT'S CUE SHEET

INITIAL CONDITIONS:

Initial Conditions:

- 1. You have been assigned to enter the RCA and verify 1-SI-475 is shut
- 2. Identify appropriate radiological controls associated with this evolution, including:
 - a. Protective Clothing required
 - b. Dosimetry required
 - c. Hot spots to avoid
 - d. Contaminated Areas
 - e. General Area Does Rates

INITIATING CUE:

The CRS has directed you to verify 1-SI-475 is shut. The CRS has estimated a total time to accomplish this work of ~5 minutes. Identify all appropriate radiological controls as listed above in preparation for a Pre-Job brief.

Appendix C	Job Performance Measure	Form ES-C-1
	Worksheet	

Applicants Work Sheet

Identify appropriate radiological controls associated with this evolution, including:

- a. Protective Clothing required
- b. Dosimetry required

c. Hot spots to avoid

d. Contaminated areas

e. General Area dose levels

Facility: Calvert Cliffs 1&2 Job Performance Measure No.: 2008-RM -SRO

Task Title: Determine if a reportable event has occurred

Task Number: 204.025

K/A Reference: 2.1.18 (3.6, 3.8)

Method of testing:

Simulated Performance: $\underline{\checkmark}$ Actual Performance: $\underline{}$

Classroom: $\underline{\checkmark}$ Simulator: ____ Plant: ____

READ TO THE APPLICANT:

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. Unit 1 and 2 are operating at 100% Power, and have been for the past 5 months
- 2. On Day shift today (6/15/2008) at 0730 a representative from Safety and Health has informed you of a false positive error on a blind performance test specimen that was sent to the lab for testing. A Condition Report (CR) has been written.

Initiating Cue:

You are the Shift Manager and have received notification via a condition report (CR) of a false positive error on a blind performance test specimen. You are evaluating this issue for potential reportability, and if reportable, then complete the appropriate administrative paperwork.

Task Standard:

The JPM is complete when the conditions have been analyzed to determine that a 1hour reportable event has occurred under Fitness for Duty, and part A of attachment 1 is complete. The evaluator is expected to end the JPM. No further actions are required.

Evaluation Criteria:

- 1. All critical steps completed.
- 2. All sequential steps completed in order.
- 3. All time-critical steps completed within allotted time.
- 4. JPM completed within validated time. Completion time may exceed the validated time if satisfactory progress is being made.

Required Materials:

- 1. Procedures and manuals normally available in the control room
- 2. CR documenting the condition
- 3. Event # for log

General References:

1. CNG-NL-1.01-1004

Time Critical Task:

Yes

Validation Time:

15 minutes

Simulator Setup:

NONE

•

CCNPP LICENSED OPERATOR

JOB PERFORMANCE MEASURE CNG-NL-07-01

ELEMENT

STANDARD

(* = CRITICAL STEP)

TIME START

Identify and locate CNG-NL-1.01-1004

CUE: Provide copy of Condition Report

CUE: If asked to discuss event with Safety and Health department, inform candidate that event was that we received report of a false positive on a blind performance test specimen that should have been a negative result. The lab reported the test as positive. The cause was an administrative error.

А.		n becoming aware of a potentially reportable t or concern. the Shift Manager shall:	Reviews the Condition Report and determines this is potentially reportable.
	1.	Review Attachment 2 to determine if an immediate notification Emergency Notification System (ENS) report to the	Refers to Attachment 2, Immediate Notification and Written Reporting Requirements

ATTACHMENT 2, IMMEDIATE NOTIFICATION AND WRITTEN REPORTING REQUIREMENTS

NRC is required, if a written report is required, or if a report to another agency

B. Table of Contents, Item 21"Fitness for Duty"

is required.

C. Refers to Appendix A, B.2.8(e)(5)) Events to be reported within 1 hour of discovery:

The NRC Operations Center shall be notified promptly of a false positive error on a blind performance test specimen and the error is determined to be administrative (1-hour ENS Report)

_____* Determines a 1-hour ENS report is required.
_____ Refers to ATTACHMENT 1, Operations Checklist for Timely Notification "Part A Shift Manager or Designee"

Using the Table of Contents or by paging through Att. 2, determines the Fitness for Duty section applies.

Determines this event meets the criteria for Appendix a, B.2.8(e)(5)

Determines condition applies.

Determines a 1 hour ENS Report is required

Same as element

CCNPP LICENSED OPERATOR

JOB PERFORMANCE MEASURE CNG-NL-07-01

ELEMENT (* = CRITICAL STEP)

1.00

STANDARD

	Site/Unit	Enters CCNPP/ 1
	Date of Discovery	Enters 6/15/2008
	Time of Discovery	Enters "0730"
	Event Description	Enters description of the event from the CR
	RCS Mode	Enters "MODE 1"
	Power	Enters "100%"
	Pressure	Enters "2250 PSIA"
	Temperature	Enters " 570°F"
*	Block 1. Circles "Immediate (1 hr) Notification)	Circles Immediate (1 Hr Notification)
	Block 10 – Other	NOT APPLICABLE
*	Applicable Reporting Requirement	Enters "Fitness for Duty" 10 CFR 26, Appendix A, B.2.8(e)(5)
		(1-hour ENS Report)
	Shift Manager	Enters " Applicant's Name"
	Date	Enters "6/15/2008"
-	Time	Enters "Current Time"

TIME STOP

TERMINATING CUE:	The JPM is complete when conditions have been analyzed to determine that the event is reportable via a 1-hour report and Part A of Attachment 1, "Operations Checklist for Timely Notification is completed. The evaluator is expected to end the JPM. No further actions are required.
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Verification of Completion

ob Performance Measure Number: 2008-RM-SRO	
Applicant:	
NRC Examiner:	
Date Performed:	
acility Evaluator:	
Number of Attempts:	
Time to Complete:	
Follow up Question:	
Applicant Response:	
Result: SAT UNSAT	
Examiner's Signature and Date:	

APPLICANT'S CUE SHEET

INITIAL CONDITIONS:

- 1. Unit 1 and 2 are operating at 100% Power, and have been for the past 5 months
- 2. On Day shift today (6/15/2008) at 0730 a representative from Safety and Health has informed you of a false positive error on a blind performance test specimen that was sent to the lab for testing. A Condition Report (CR) has been written.

INITIATING CUE:

You are the Shift Manager and have received notification and a condition report (CR) of a false positive error on a blind performance test specimen. You are evaluating this issue for potential reportability. Do you have any questions? You may begin.

Appendix C Job Performance Measure

Facility: Calvert Cliffs 1&2 Job Performance Measure No.: 2008-AOP-3B-SRO
Task Title: Calculate Time to Core Uncovery
Task Number: 203.014
K/A Reference: 2.1.20 (4.3, 4.2)

Method of testing:

Simulated Performance:			Actual Performance: $\underline{}$
Classroom:	\checkmark	Simulator:	Plant:

READ TO THE APPLICANT:

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. Unit-1 was shutdown 3 days ago for a refueling outage.
- 2. Drain down to install nozzle dams is scheduled for next shift. The pressurizer manway has been removed.
- 3. Initial RCS level is 43', initial temperature is 120°F
- 4. A station blackout has occurred.
- 5. You are performing the duties of an extra SRO on shift.

Initiating Cue:

Initiating Cue: The CRS has directed you to

- Calculate a time to core uncovery.
- Determine the correct Procedure, Section and Step to maintain core heat removal.

Task Standard:

This JPM is complete when the candidate has calculated a time to core uncovery and recommends allowing boil off to the center of the hot leg and gravity fill from the RWT as the method for core heat removal

Appendix C Job Performance Measure

Evaluation Criteria:

- 1. All critical steps completed.
- 2. All sequential steps completed in order.
- 3. All time-critical steps completed within allotted time.
- 4. JPM completed within validated time. Completion time may exceed the validated time if satisfactory progress is being made.

Required Materials:

- 1. **OP-7**
- 2. AOP-3B

General References:

- 1. OP-7
- 2. AOP-3B

Time Critical Task:

No

Appendix C Job Performance Measure

 $(-a) \sim (\gamma + \cdots + q_{n-1}) + \gamma \sim 0$

Validation Time:

10 minutes

Simulator Setup:

1. NONE

1.

ELEMENT (* = CRITICAL STEP)

TIME START_____

CUE: When the candidate identifies and locates Figure 3 and Table 3 of OP-7, OR Attachments 10 and 11 of AOP-3B, supply the candidate with a working copy of each requested procedure.

1.	Identifies correct procedures needed.	OP-7 or AOP-3B
* 2.	Calculates Time to Core uncovery using OP-7 Table 3 and Figure 3 or AOP-3B Attachments 10 and Attachment 11.	Time to core uncover is 182 ^{+/-} 9 minutes
* 3.	Determines RCS should be allowed to boil off to the middle of the hot leg and the RCS will be gravity filled per AOP- 3B. Section IX, step H.	Same as element.

TERMINATING CUE:	This JPM is complete when the candidate states that Core
	uncovery is approximately 182 minutes and AOP-3B Section IX,
	step H is used for core heat removal.

TIME STOP

•

Verification of Completion

Job Performance Measure Number: 2008-AOP-3B-SI	RO
Applicant:	
NRC Examiner:	
Date Performed:	
Facility Evaluator:	
Number of Attempts:	
Time to Complete:	
Follow up Question:	
Applicant Response:	
Pogulti SAT	LINGAT
Result: SAT	UNSAT
Examiner's Signature and Date:	

APPLICANT'S CUE SHEET

INITIAL CONDITIONS:

Unit-1 was shutdown 3 days ago for a refueling outage.

- 1. Drain down to install nozzle dams is scheduled for next shift. The pressurizer manway has been removed.
- 2. Initial RCS level is 43', initial temperature is 120° F
- 3. A station blackout has occurred.
- 4. You are performing the duties of an extra SRO on shift.

INITIATING CUE

The CRS has directed you to:

- Calculate a time to core uncovery.
- Determine the correct Procedure, Section and Step to maintain core heat removal.

Appe	endix	C		nance Measure rksheet		Form ES-C-1
Facil	ity:	Calvert Cliffs 1&2	2	Job Performance I	Measure No	.: 2008-MNT
Task	Title	e: Apply Technical	l Specificatio	ns to a Diesel Gen	erator Fail	ure
Task	Nun	nber: 204.094				
K/A	Refe	rence: K/A 2.2.36	(4.2, 4.4)			
Meth	<u>od o</u>	f testing:				
Simu	lated	Performance:		Actual Performance	ce: <u>√</u>	_
Class	sroon	n: <u> </u>	Simulator:	Pla	nt:	_
		O THE APPLICANT				
I will initia perfo	l exp ating orma	lain the initial cond cues. When you co nce measure will be	itions, which omplete the ta			
I will initia perfo	l exp ating orma	lain the initial cond cues. When you co nce measure will be nditions:	litions, which omplete the ta e satisfied.			
I will initia perfo	l exp ating orma	lain the initial cond cues. When you co nce measure will be <u>aditions:</u> Unit 1 &2 are at 1 2A Diesel Generat	litions, which omplete the ta e satisfied. 00% power. tor failed dur	ask successfully, th	e objective 2 run at 12	for this job 00 on
I will initia perfo	l exp ating orma dl Cor 1.	lain the initial cond cues. When you co nce measure will be <u>aditions:</u> Unit 1 &2 are at 1 2A Diesel Generat	litions, which omplete the ta e satisfied. 00% power. tor failed dur require 10 d	ask successfully, th ing an STP O-8A-:	e objective 2 run at 12	for this job 00 on
I will initia perfo	l exp ating orma dl Cor 1. 2.	lain the initial cond cues. When you co nce measure will be <u>aditions:</u> Unit 1 &2 are at 1 2A Diesel Generat 6/15/2008 and will	litions, which omplete the ta e satisfied. 00% power. tor failed dur require 10 d 8 at 0430	ask successfully, th ing an STP O-8A- ays to fix. All othe	e objective 2 run at 12 r systems a	for this job 00 on are operable.
I will initia perfo	l exp ating orma dl Cor 1. 2. 3. 4.	lain the initial cond cues. When you co nce measure will be <u>aditions:</u> Unit 1 &2 are at 1 2A Diesel Generat 6/15/2008 and will Today is 6/19/2008 23 HPSI pump mo being charred	litions, which omplete the ta e satisfied. 00% power. tor failed dur require 10 d 8 at 0430	ask successfully, th ing an STP O-8A- ays to fix. All othe	e objective 2 run at 12 r systems a	for this job 00 on are operable.

Task Standard:

This JPM is complete when the determination is made that Unit Two is in T.S 3.0.3 and must be in Mode 3 by 1530 on 6/19/08, and the required matrix notifications are identified.

Appendix C	Job Performance Measure	Form ES-C-1
	Worksheet	

Evaluation Criteria:

- 1. All critical steps completed.
- 2. All sequential steps completed in order.
- 3. All time-critical steps completed within allotted time.
- 4. JPM completed within validated time. Completion time may exceed the validated time if satisfactory progress is being made.

Required Materials:

- **1.** Technical Specifications
- 2. Technical Specification Basis
- 3. CR for 23 HPSI failure
- 4. Active Technical Specifications LCOs

General References:

- **1.** Technical Specifications
- 2. LOI-212-1-5, "TS Introduction for Licensed Operator Initial Training" Lesson Plan, Revision 12/02/2004, Objective 1.3 - Given a plant or system condition and the Tech Specs be able to apply the appropriate Action requirements.
- 3. NO-1-200, Attachment 13

Time Critical Task:

No

Appendix C

Validation Time:

15 minutes

Simulator Setup:

None

ELEMENT (* = CRITICAL STEP)

TIME START_____

	1. Review Condition Report.	Same as element.
	2. Refer to Technical Specifications	Same as element
*	3. Identify the TS LCOs that apply.	Determines TS LCO 3.5.2. Action A.1 applies for 23 HPSI pump
*	4. Review the active technical specification LCO action statements and identifies the TS LCOs Actions that are required.	Determines that TS LCO 3.8.1 Action B.3 must be completed four hours after 23 HPSI is determined to be failed since it is redundant equipment, declare both ECCS trains OOS
		Determines that T.S. 3.0.3 applies for both ECCS trains being inoperable
*	5. Identify the required completion time for the actions.	Determines that required completion time is 4 hours .tp declare both
		ECCS trains OOS per 3.8.1 B.3
	IER NOTE: IF NOT PROVIDED BY CANI D BE IN MODE #	ECCS trains OOS per 3.8.1 B.3
	ER NOTE: IF NOT PROVIDED BY CANI	ECCS trains OOS per 3.8.1 B.3
	IER NOTE: IF NOT PROVIDED BY CANI D BE IN MODE # 6. Identify when the unit must be in	ECCS trains OOS per 3.8.1 B.3 DIDATE, ASK WHEN DO WE Determines that U-1 must be in
EED T(*	VER NOTE: IF NOT PROVIDED BY CANI O BE IN MODE # 6. Identify when the unit must be in Mode 3 7. Reviews NO-1-200 attachment 13 to	ECCS trains OOS per 3.8.1 B.3 DIDATE, ASK WHEN DO WE Determines that U-1 must be in Mode 3 at 1530 on 6/19/2008 Determines that the following
EED T(*	VER NOTE: IF NOT PROVIDED BY CANI O BE IN MODE # 6. Identify when the unit must be in Mode 3 7. Reviews NO-1-200 attachment 13 to	ECCS trains OOS per 3.8.1 B.3 DIDATE, ASK WHEN DO WE Determines that U-1 must be in Mode 3 at 1530 on 6/19/2008 Determines that the following notifications are required:
EED T(*	VER NOTE: IF NOT PROVIDED BY CANI O BE IN MODE # 6. Identify when the unit must be in Mode 3 7. Reviews NO-1-200 attachment 13 to	ECCS trains OOS per 3.8.1 B.3 DIDATE, ASK WHEN DO WE Determines that U-1 must be in Mode 3 at 1530 on 6/19/2008 Determines that the following notifications are required: ≤ 24 Hr Tech Spec LCO:
EED TO *	VER NOTE: IF NOT PROVIDED BY CANI O BE IN MODE # 6. Identify when the unit must be in Mode 3 7. Reviews NO-1-200 attachment 13 to	ECCS trains OOS per 3.8.1 B.3 DIDATE, ASK WHEN DO WE Determines that U-1 must be in Mode 3 at 1530 on 6/19/2008 Determines that the following notifications are required: ≤ 24 Hr Tech Spec LCO: • GS-SO
EED TO *	VER NOTE: IF NOT PROVIDED BY CANI O BE IN MODE # 6. Identify when the unit must be in Mode 3 7. Reviews NO-1-200 attachment 13 to	ECCS trains OOS per 3.8.1 B.3 DIDATE, ASK WHEN DO WE Determines that U-1 must be in Mode 3 at 1530 on 6/19/2008 Determines that the following notifications are required: ≤ 24 Hr Tech Spec LCO: • GS-SO • M-NO
EED TO *	VER NOTE: IF NOT PROVIDED BY CANI O BE IN MODE # 6. Identify when the unit must be in Mode 3 7. Reviews NO-1-200 attachment 13 to	ECCS trains OOS per 3.8.1 B.3 DIDATE, ASK WHEN DO WE Determines that U-1 must be in Mode 3 at 1530 on 6/19/2008 Determines that the following notifications are required: ≤ 24 Hr Tech Spec LCO: • GS-SO • M-NO • PGM • Other Mngers/NRC/ Sr Safety

مستقلفهم والمنابع والمستقدة الأناب والمستقد المنابي والمنتظ والمنابي والمنابي المراب والمرابي المراب والمرابي

ELEMENT (* = CRITICAL STEP)

TIME STOP

Examiner Note:	The task is complete when the applicant has determined which TS LCOs apply, the LCO actions that must be taken, identifies when the unit must be taken offline, and identifies the required matrix notifications.
	taken online, and identifies the required matrix notifications.

Appen	dix	С
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Verification of Completion

Job Performance Measure Number:	2008-MNT
NDC Exeminan	
Dete Deuferment	
Facility Evaluator:	
Number of Attempts:	
Time to Complete:	
Follow up Question:	
Annlicont Doctorio	
Applicant Response.	
<u></u>	
Result: SAT	LINGAT
Examiner's Signature and Date:	

APPLICANT'S CUE SHEET

INITIAL CONDITIONS:

- 1. Unit 1 &2 are at 100% power.
- 2. 2A Diesel Generator failed during an STP O-8A-2 run at 1200 on 6/15/2008 and will require 10 days to fix. All other systems are operable.
- 3. Today is 6/19/2008 at 0430
- 4. You have just been handed a CR written on 23 HPSI pump motor which was found charred

INITIATING CUE:

You are directed to review the CR and notify the Shift Manager of the operational impacts on the units and identify any notifications that are required.

JOB PERFORMANCE MEASURE CP-601(NEW)

TASK: Review and Approve a Liquid Waste Release Permit

PURPOSE: Evaluates an SRO's ability to approve a Liquid Waste Discharge Permit

JOB PERFORMANCE MEASURE CALVERT CLIFFS NUCLEAR POWER PLANT LICENSED OPERATOR TRAINING

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JOB PERFORMANCE MEASURE CP-601 (NEW)

ELEMENT (* = CRITICAL STEP)		STANDARD
PERFORMER'S NAME:		
APPLICABILITY:		
SRO		
PREREQUISITES:		
Completion of the k Administrative Proc	nowledge requirement of th cedures.	e Initial License class training program for
EVALUATION LOCATIO	DN:	
PLANT	SIMULA	TOR CONTROL ROOM
EVALUATION METHOD):	
ACTUAL	PERFORMANCE	DEMONSTRATE PERFORMANCE
ESTIMATED TIME TO COMPLETE JPM:	ACTUAL TIME TO COMPLETE JPM:	TIME CRITICAL TASK:
5 MINUTES	MINUTES	NO
TASK LEVEL:		
TRAIN		
TOOLS AND EQUIPMEN	NT:	
None		
REFERENCE PROCEDU	RE(S):	
CP-601 OI-17C-4		

TASK STANDARDS:

.

* •

This JPM is complete when the attached permit has been reviewed and the candidate does NOT approve the release permit.

JOB PERFORMANCE MEASURE CP-601 (NEW)

ELEMENT		STANDARD
(* = CRITIC)	AL STEP)	
STAI	RT	
NOTE :	Provide a copy of the Liquid Waste Re	ease Permit to the candidate
*1.	Reviews Release Source	Determines release source is correct.
CUE	: Recirc time and date are correct and accept	ptable.
2.	Reviews recirc start time and date	Same as element
3.	Reviews Pre-release Gamma Scan #	Same as element
CUE	: 12 RCWMT level is 31.5 feet.	
*4	Checks Release Source Level	Verifies level in 12 RCWMT
*5.	Reviews Discharge Point	Notes unit-1 circ.water
*6.	Reviews Min # Circ water pumps required	Determines minimum number of circulating water pumps are NOT running on Unit-1 and notifies technician to make the permit out for Unit-2

TIME STOP

.

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TERMINATING CUE:	This JPM is complete when the when the CRS has identified that the RCWMT cannot be discharged with the given permit. No other action is required
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JOB PERFORMANCE MEASURE CP-601 (NEW)

TASK: Review & Approve a Liquid Waste Release Permit

Document below any instances of failure to comply with industrial safety practices, radiation safety practices and use of event free tools. **NOTE: Violation of safety** procedures will result in failure of the JPM.

NOTES:

DID A NEAR MISS OCCUR DUE TO INAPPROPRIATE PERSONNEL ACTIONS/INACTIONS OR PROCEDURAL QUALITY? YES (If yes, provide comments below)

NO

COMMENTS:

The operator's performance was evaluated against the standards contained in this JPM and determined to be

> SATISFACTORY **UNSATISFACTORY**

EVALUATOR'S SIGNATURE: _____ DATE: _____

JOB PERFORMANCE MEASURE

DIRECTIONS TO TRAINEE:

- 1. To complete the task successfully, you must:
 - perform each critical element correctly. You must inform the evaluator of the indications you are monitoring. Where necessary, consider the evaluator to be the CRO.
 - comply with industrial safety practices, radiation safety practices and use of event free tools. <u>NOTE:</u> Violation of safety procedures will result in failure of the JPM.
- 2. Initial Conditions:
 - a. Unit 1 is at shutdown for a refueling outage.
 - b. Amertap work is being performed in 11B, 12B and 13B waterboxes.
- 3. Initiating Cue: The shift Chemistry Technician has completed a Liquid Waste Release Permit for discharging 12 RCWMT. You are the Unit-1 CRS and have been requested to review and sign the permit. Are there any questions? You may begin.



LIQUID RADIOACTIVE WASTE RELEASE PERMIT

CP **601** Rev. 14 Page 125 of 134

CHEMISTRY

ATTACHMENT 2

12 RCWMT

LIQUID RADIOACTIVE WASTE BATCH RELEASE PERMIT

PERMIT # 08 - 00%	•		
Recirc Start Date/Time:	Pre-Release Gamma Scan#: 310065		
Release Source Level: 31.5	feet Release Volume: 2.767 ESliters		
RELEASE CRITERIA			
Discharge Point: Unit 1 🗗 Unit 2	Min # Circ Water Pumps Required: 5		
Dilution Flow Rate Pre-Release:	1 Ele gpm		
Maximum Release Flow Rate: 120 gpm	``		
RMS Number: 0-RE-2201			
RMS Background:	<u> \500 cpm</u>		
Expected RMS Reading:	\ <u>7</u> L(\ cpm		
Adjustable Setpoint:	2612 cpm		
APPROVAL (Release Criteria is within ODCM Requirer	nents)		
Independent Verification for Calculations:			
Prepared By: Denasty terlas			
Compositor Setup Contating Feel	Date/Time		
Compositor Setup Peer Check By Cherristing	Date/Time		
SCO Approval:	Date/Time		
Release Criteria is understood, Plant Systems are in operation, Required plant configuration for conducting release has been established. Chemistry Tech discussed permit with SRO/SM. SM/CRS: Date/Time			
If discharging RCWMT, tank has been flushed thru 0-R	Date/Time I-2201, and response reported to Chemistry. RMS Pre-Op checks have been		
If discharging RCWMT, tank has been flushed thru 0-R completed and release criteria reviewed. Correct Setpoints entered in computer and Peer Checl	I-2201, and response reported to Chemistry. RMS Pre-Op checks have been red.		
If discharging RCWMT, tank has been flushed thru 0-R completed and release criteria reviewed. Correct Setpoints entered in computer and Peer Checl CRO:	I-2201, and response reported to Chemistry. RMS Pre-Op checks have been		
If discharging RCWMT, tank has been flushed thru 0-R completed and release criteria reviewed. Correct Setpoints entered in computer and Peer Checl	I-2201, and response reported to Chemistry. RMS Pre-Op checks have been red.		
If discharging RCWMT, tank has been flushed thru 0-R completed and release criteria reviewed. Correct Setpoints entered in computer and Peer Checl CRO: Independent Verification of Alarm Setpoints	I-2201, and response reported to Chemistry. RMS Pre-Op checks have been ked. Date/Time		
If discharging RCWMT, tank has been flushed thru 0-R completed and release criteria reviewed. Correct Setpoints entered in computer and Peer Check CRO: Independent Verification of Alarm Setpoints CRO: RELEASE DATA	I-2201, and response reported to Chemistry. RMS Pre-Op checks have been ked. Date/Time		
If discharging RCWMT, tank has been flushed thru 0-R completed and release criteria reviewed. Correct Setpoints entered in computer and Peer Checl CRO: Independent Verification of Alarm Setpoints CRO: RELEASE DATA Release Start Date/Time: Chemis	I-2201, and response reported to Chemistry. RMS Pre-Op checks have been ked. Date/Time Date/Time		
If discharging RCWMT, tank has been flushed thru 0-R completed and release criteria reviewed. Correct Setpoints entered in computer and Peer Checl CRO: Independent Verification of Alarm Setpoints CRO: RELEASE DATA Release Start Date/Time: Chemis	I-2201, and response reported to Chemistry. RMS Pre-Op checks have been sed. Date/Time Date/Time try Informed Initial Level: feet		
If discharging RCWMT, tank has been flushed thru 0-R completed and release criteria reviewed. Correct Setpoints entered in computer and Peer Checl CRO: Independent Verification of Alarm Setpoints CRO: RELEASE DATA Release Start Date/Time: Chemis Release End Date/Time: Chemis	I-2201, and response reported to Chemistry. RMS Pre-Op checks have been ked. Date/Time Date/Time try Informed Initial Level: feet try Informed Final Level: feet		
If discharging RCWMT, tank has been flushed thru 0-R completed and release criteria reviewed. Correct Setpoints entered in computer and Peer Check CRO: Independent Verification of Alarm Setpoints CRO: RELEASE DATA Release Start Date/Time: Chemis Release End Date/Time: Chemis RMS Reading Near Start of Discharge RMS Reading at Midpoint of Discharge RMS Reading Near End of Discharge	I-2201, and response reported to Chemistry. RMS Pre-Op checks have been ked. Date/Time Date/Time try Informed Initial Level: feet try Informed Final Level: feet cpm Time:		
If discharging RCWMT, tank has been flushed thru 0-R completed and release criteria reviewed. Correct Setpoints entered in computer and Peer Check CRO: Independent Verification of Alarm Setpoints CRO: RELEASE DATA Release Start Date/Time: Chemis Release End Date/Time: Chemis RMS Reading Near Start of Discharge RMS Reading at Midpoint of Discharge	I-2201, and response reported to Chemistry. RMS Pre-Op checks have been ked. Date/Time Date/Time try Informed Initial Level: feet try Informed Final Level: feet cpm Time: cpm Time:		
If discharging RCWMT, tank has been flushed thru 0-R completed and release criteria reviewed. Correct Setpoints entered in computer and Peer Check CRO: Independent Verification of Alarm Setpoints CRO: RELEASE DATA Release Start Date/Time: Chemis Release End Date/Time: Chemis RMS Reading Near Start of Discharge RMS Reading at Midpoint of Discharge RMS Reading Near End of Discharge	I-2201, and response reported to Chemistry. RMS Pre-Op checks have been ked. Date/Time Date/Time try Informed Initial Level: feet try Informed Final Level: feet cpm Time: cpm Time:		
If discharging RCWMT, tank has been flushed thru 0-R completed and release criteria reviewed. Correct Setpoints entered in computer and Peer Check CRO: Independent Verification of Alarm Setpoints CRO: RELEASE DATA Release Start Date/Time: Chemis Release End Date/Time: Chemis RMS Reading Near Start of Discharge RMS Reading at Midpoint of Discharge RMS Reading Near End of Discharge Background Count Rate 0-RE-2201 During DI Flush	I-2201, and response reported to Chemistry. RMS Pre-Op checks have been ked. Date/Time Date/Time try Informed Initial Level: feet try Informed Final Level: feet cpm Time: cpm Time: cpm Cpm Time:		
If discharging RCWMT, tank has been flushed thru 0-R completed and release criteria reviewed. Correct Setpoints entered in computer and Peer Check CRO: Independent Verification of Alarm Setpoints CRO: RELEASE DATA Release Start Date/Time: Chemis Release End Date/Time: Chemis RMS Reading Near Start of Discharge RMS Reading at Midpoint of Discharge RMS Reading Near End of Discharge Background Count Rate 0-RE-2201 During DI Flush # Circ Water Pps Operating During Release: POST RELEASE DATA AND REVIEW	I-2201, and response reported to Chemistry. RMS Pre-Op checks have been ked. Date/Time Date/Time try Informed Initial Level: feet try Informed Final Level: feet cpm Time: cpm Time: cpm Cpm Time:		
If discharging RCWMT, tank has been flushed thru 0-R completed and release criteria reviewed. Correct Setpoints entered in computer and Peer Check CRO: Independent Verification of Alarm Setpoints CRO: Release Start Date/Time: Chemis Release End Date/Time: RMS Reading Near Start of Discharge RMS Reading Near End of Discharge Background Count Rate 0-RE-2201 During DI Flush # Circ Water Pps Operating During Release: POST RELEASE DATA AND REVIEW PERMIT COMPLETE. Release Criteria and Disc	I-2201, and response reported to Chemistry. RMS Pre-Op checks have been ked. Date/Time Date/Time try Informed Initial Level: feet try Informed Cpm Cpm Cpm Cpm Final Level: feet Time: Cpm Cpm Final Cpm Fina		
If discharging RCWMT, tank has been flushed thru 0-R completed and release criteria reviewed. Correct Setpoints entered in computer and Peer Check CRO: Independent Verification of Alarm Setpoints CRO: RELEASE DATA Release Start Date/Time: Chemis Release End Date/Time: Chemis RMS Reading Near Start of Discharge RMS Reading Near Start of Discharge RMS Reading Near End of Discharge Background Count Rate 0-RE-2201 During DI Flush # Circ Water Pps Operating During Release: POST RELEASE DATA AND REVIEW PERMIT COMPLETE. Release Criteria and Disc	I-2201, and response reported to Chemistry. RMS Pre-Op checks have been ked. Date/Time Date/Time try Informed Initial Level: feet final Level: feet Cpm Cpm Time: Cpm Cpm Time: Cpm Cpm Cpm Charge Procedure Requirements Satisfied.		
If discharging RCWMT, tank has been flushed thru 0-R completed and release criteria reviewed. Correct Setpoints entered in computer and Peer Check CRO: Independent Verification of Alarm Setpoints CRO: RELEASE DATA Release Start Date/Time: Chemis Release End Date/Time: Chemis RMS Reading Near Start of Discharge RMS Reading Near Start of Discharge RMS Reading Near End of Discharge Background Count Rate 0-RE-2201 During DI Flush # Circ Water Pps Operating During Release: POST RELEASE DATA AND REVIEW PERMIT COMPLETE. Release Criteria and Disc CRO: Post Release Gamma Scan #:	I-2201, and response reported to Chemistry. RMS Pre-Op checks have been ked. Date/Time Date/Time try Informed Initial Level: feet try Informed Final Level: feet cpm Time: cpm Time: cpm Time: cpm # Saltwater Pps Operating During Release: charge Procedure Requirements Satisfied. Post Release Volume: liters		

Appendix		formance Measure Worksheet	Form ES-C-1
Facility:	Calvert Cliffs 1&2	Job Performance Measure No.:	2008-ERPIP
Task Titl	e: Determine Appropriate I	Emergency Response Actions	
Task Nur	nber: 204.097		
K/A Refe	erence: K/A 2.4.29 (2.6, 4.0)	,	
Method of	<u>f testing:</u>		
Simulated	d Performance:	Actual Performance:	
Classroon	n: <u> </u>	: Plant:	
READ T	O THE APPLICANT:		
initiating perform	cues. When you complete the satisfied ance measure will be satisfied and the satisfied states of the satisfied states and	hich steps to simulate or discuss he task successfully, the objecti 1.	
Initial Co			
1.	A total loss of feed flow has		
2.	The reactor tripped on low S/G level at 2355 on 6/14/08 and auxiliary feed failed to initiate automatically or manually		
3.	Once-through core cooling	was initiated at 00:30 on 6/15/0)8
Initiating	Cue:		
	ı are the Shift Manager comj fication form.	pleting the emergency response	initial
<u>Task Star</u>	dard:		
	ermine EAL classification an plete the emergency respons	nd protective action recommend re form.	lations and

Appendix C	Job Performance Measure	Form ES-C-1
	Worksheet	

Evaluation Criteria:

- 1. All critical steps completed.
- 2. All sequential steps completed in order.
- 3. All time-critical steps completed within allotted time.
- 4. JPM completed within validated time. Completion time may exceed the validated time if satisfactory progress is being made.

Required Materials:

- 1. ERPIP 3.0, "Immediate Actions", Revision 04001
- 2. ERPIP 3.0 Attachment 1, "EAL Criteria", Revision 39
- 3. ERPIP Basis
- 4. Blank Copy of ERPIP 3.0 Attachment 3, "Initial Notification Form" (ERPIP 3.0 Pages 19 and 20)

General References:

- 1. ERPIP 3.0, "Immediate Actions", Revision 04 (Pages 18 thru 25)
- 2. ERPIP 3.0 Attachment 1, "EAL Criteria", Revision 39
- 3. ERPIP Basis

Time Critical Task:

Yes – 15 Minutes to Classify the event , 15 minutes after classification to give form to the examiner

Validation Time:

15 minutes

Simulator Setup:

None

ELEMENT (* = CRITICAL STEP)

TIME START

EXAMINER's NOTE: Read candidate the current time at start of the JPM and record it as start time.

1.	Identify and locate ERPIP.	Same as element.

2. Refers to Immediate Actions and identifies the appropriate category from the listing and go to the appropriate Attachment.

Selects and goes to attachment 2, Emergency Classification.

ATTACHMENT 2 EMERGENCY CLASSIFICATION

A. CLASSIFY THE EMERGENCY

<u>NOTE:</u> The <u>decision</u> to classify an emergency may <u>NOT</u> be delegated.

*_1.0 <u>EVALUATE</u> conditions against Attachment 1, Emergency Action	Fills in Notification Form to indicate an ALERT classification is
Level (EAL) criteria.	warranted under Emergency Director Judgment, once through

core cooling initiated A.A.7.1.2

Determines from above evaluation

that an EAL is satisfied and obtains

an Initial Notification form from the

working copy or the extra forms

Determines Attachment 11, Alert

Actions, is applicable.

book.

B. IMPLEMENT EMERGENCY RESPONSE PLAN ACTIONS (ATTACHMENT 2)

_____ 1.0 If an EAL is satisfied,

THEN OBTAIN an Attachment 3, Initial Notification Form (from this procedure).

GO TO the respective classification tab.

ATTACHMENT 11 Alert Actions

1.0 **COMPLETE** Attachment 3, page 1 of 2, Initial Notification Form, using directions on page 2 of 2. Refers to Attachment 3, Initial Notification Form.

NOTE TO EXAMINER: The following page 2 instructions may or may not be referred to as the applicant completes page 1.

ATTACHMENT 3-Page 2

_____ 1.a. Item A4

Enters A.A.7.1.2 on Attachment 3.

RETRIEVE this information from the EAL chart in ERPIP-3.0, Immediate

2008-ERPIP

Page 3 of 8

NUREG-1021, Revision 9

Actions, Attachment 1, Emergency Action Level Criteria.

1.b. Item A5 IF any of the following conditions are/have been met, THEN Radioactivity is being/has been released:		ny of the following conditions have been met, THEN ioactivity is being/has been	Determines that radioactivity is being released.
	1)	The release flowpath monitor is/was in alarm.	
	2)	The release is/was greater than Technical Specification limits.	
	3)	The release is/was accidental.	
	1.c.	Item A6	Determines that NONE is entered
	in Ita appr Reco Zone Atta Prote Reco corre only IF C chec	General Emergency is checked em 4, THEN DETERMINE copriate Protective Action commendatein and downwind es(z) from ERPIP 3.0, chment 5, General Emergency ective Action commendations, AND CHECK esponding box (check one box). General Emergency is not ked in Item 3, THEN ECK "NONE."	
	form	Item A7 rgency Director must sign a after Items 1 through 7 have completed	Signs Attachment 3 after items 1 through 7 have been completed
ATTACI	HMENT 3-	Page 1	
1.	Comp	blete Item 1.	Checks "is" in Item 1.
* 2.	Comp	olete Item 2.	Checks Unit 2
* 3.	Comp	olete Item 3.	Checks "'Alert"
*4.	Comp	lete Item 4.	Enters A.A.7.1.2

ELEMENT (* = CRITICAL STEP)

*5.	Complete Item 5.	Checks "YES"
* 5.a	Complete Item 5a	Check "YES"
* 5.b	Complete Item 5b	Check "AIRBORNE"
* 6.	Complete Item 6.	Checks 'NONE
* 7.	Complete Item 7.	Enter current time
TIME STOP		

TERMINATING CUE: This JPM is complete when initial notification form Parts A 1 -7 are completed. No further actions are required.

1	A:	0
Appen	aix	C

Verification of Completion

Job Performance Measure Number:	2008-ERPIP		
Applicant:			
NRC Examiner:			
Date Performed:			
Facility Evaluator:			
Number of Attempts:			
Time to Complete:			
Follow up Question:			
<u>.</u>			
Applicant Response:			
<u></u>			
Result: SAT	UNSAT		
Examiner's Signature and Date:			

APPLICANT'S CUE SHEET

INITIAL CONDITIONS:

- 1. A total loss of feed flow has occured on Unit-2.
- 2. The reactor tripped on low S/G level and auxiliary feed failed to initiate automatically or manually
- 3. Once-through core cooling has been initiated

INITIATING CUE:

You are to complete the emergency response initial notification form. Are there any questions? You may begin