

Resolution of 8/31/00 NRC Exam Validation Comments

- A. RO ADMIN**
- A1 Knowledge of Overtime limits:
 - Editorial change (“the”)
 - A2 JPM perform STP O-63-1:
 - Add critical steps
 - LI-110X (Pzr Level) deviation at 1C43
 - A3 Knowledge of radiation exposure limits:
 - Add calculation to question
 - A3 Knowledge of 10CFR20 requirements:
 - Change to NO reference allowed
 - A4 JPM ERPIP Control Communicator:
 - Add critical steps
 - Change to have 1 center not respond, requiring a followup call
- B. SRO ADMIN**
- A1 JPM Log Review:
 - Add critical steps
 - Change log sheet for SIT levels with OOS readings not circled
 - Remove cue for 12B SIT level and pressure OOS
 - A1 JPM Risk Assessment:
 - Add critical steps
 - A2 JPM Post Maintenance Test:
 - Add critical steps
 - A3 Both questions:
 - Change covered by RO A3
 - A4 JPM ERPIP call:
 - Make time critical
 - (Formatted body of JPM to clarify the use of attachment 3, 4 and 5 for evaluator ease)
- C. B1 / B2 SYSTEM JPMs**
- Updated Outlines (RO/SROI and SROU) to reflect title changes for item B.1.b
- RO/SROI JPMs**
- B.1.a JPM Fast start 0C DG:
 - Added instructions in simulator setup to tag out the alternate 21 4KV Bus feeder and place the Start Failure malfunction for 2A DG
 - B.1.b JPM Align CS pump for SDC:
 - Added editorial to HIC 3657, page 6
 - swapped titles with SROU JPM B.1.b
 - B.1.c JPM Restore CC/trip RCPs:
 - Added cue on page 8
 - B.1.e JPM Respond to RAS actuation:
 - Added Note on page 6 to use provided EOP attachment 6
 - B.1.g JPM NI Calibration:
 - Added set in setup instructions to place a deviation at >.5% but <3%
 - Added Steps 2, 3 and 4 from OI-30 into JPM for candidate data collection
 - Added blank log sheet for data collection
 - B.2.b JPM Take local control of 1A DG:
 - Revised to recent changes to AOP-9A (Step designation changed)
 - Added 1A DG output breaker trip cue on page 6
 - Added 43/LR local position cue on page 7
 - B.2.c JPM Verify Containment Integrity:
 - Changed select canister for charging to 2ZEC1

D. WRITTEN TEST

Question Bank:

All comments were incorporated from the exit meeting.

#11 (Component Cooling 002) distractor A was changed to "particulates"

RO test has been printed out based on revised question bank with answer key

SRO test has been printed out based on revised question bank with answer key

E. SCENARIOS

No changes

Calvert Cliffs Nuclear Power Plant
ADMIN A1 Topics
Overtime limits

Knowledge of overtime limits

(RO ADMIN)

K/A 2.1.1 [3.7/X.X]

Question a:

Evaluate the following CRO Shift schedule to determine if it is in compliance with SE-1-101

Overtime limits:

	MON	TUE	WED	THU	FRI	SAT	SUN
Start	6 AM	6 AM	6 AM	6 AM	OFF	OFF	6 PM
Finish	6 PM	6PM	10 PM	6 PM	OFF	OFF	6 AM

Satisfactory

Unsatisfactory

Candidate _____

**Calvert Cliffs Nuclear Power Plant
ADMIN A1 Topics
Overtime limits**

Knowledge of overtime limits

K/A 2.1.1 [3.7/X.X]

Question a:

Evaluate the following CRO Shift schedule to determine if it is in compliance with SE-1-101

Overtime limits:

	MON	TUIE	WED	THU	FRI	SAT	SUN
Start	6 AM	6 AM	6 AM	6 AM	OFF	OFF	6 PM
Finish	6 PM	6PM	10 PM	6 PM	OFF	OFF	6 AM

12 hours 12 hours 16 hours 12 hours 0 0 12 hours

This exceeds 24 hours in any 48 hour period on 10 AM Thursday

- Limits:**
- >16 hours straight
 - >16 hours in any 24 hour period
 - >24 hours in any 48 hour period
 - >72 hours in any 7 day period

Reference Use Allowed? Yes

Reference 1 SE-1-101

Comments:

Satisfactory Unsatisfactory Candidate _____

CCNPP LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

TASK: 022100502 Channel Check Remote Shutdown Instruments

JOB PERFORMANCE MEASURE

CALVERT CLIFFS NUCLEAR POWER PLANT

LICENSED OPERATOR TRAINING

CCNPP LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

TASK: 022100502 Channel Check Remote Shutdown Instruments

PERFORMER'S NAME: _____

APPLICABILITY:

RO and SRO

EVALUATION LOCATION:

_____ PLANT

 X SIMULATOR

_____ CONTROL ROOM

EVALUATION METHOD:

_____ ACTUAL PERFORMANCE

_____ DEMONSTRATE PERFORMANCE

ESTIMATED TIME
TO COMPLETE JPM:

10 MINUTES

TIME CRITICAL TASK:

NO

TOOLS AND EQUIPMENT:

None

REFERENCE PROCEDURE:

STP O-63-1

TASK STANDARDS:

This JPM is complete when administrative task 022100502 is completed per STP O-63-1, Remote Shutdown Instruments. To be performed on the Simulator to allow for selected reading deviations

CCNPP LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

TASK: 022100502 Channel Check Remote Shutdown Instruments

DIRECTIONS TO EVALUATOR:

Performance of this JPM on the simulator will allow for selected instrument deviations to be added.

Simulator driver: override PZR LVL 1-LI-110X at 1C43 to result in a 15 inch deviation (high or low)

CCNPP LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

ELEMENT (* = CRITICAL STEP)	STANDARD
TIME START _____	
CUE: Provide copy of STP O-63-1 to the candidate.	
CUE: The CRS directs the performance of Sections 6.1 and 6.3 only for a PMT for 1C43 power supply replacements. Perform Section 6.1 first.	
_____ 6.1. <u>REMOTE SHUTDOWN INSTRUMENTATION</u>	
CUE: Do not open 1C43 back panel.	
_____ A. CHECK 1C43 power supplies, upper and lower, indicating lights (4) energized. (located in 1C43 back panel) (N/A if performed in step 6.3.A)	Element is N/A
CUE: Reactor trip switchgear does not need to be checked.	
* _____ B. RECORD the parameter readings listed in ATTACHMENT 1, <u>REMOTE SHUTDOWN INSTRUMENTATION</u> from the Remote Shutdown Monitoring Instrumentation panel 1C43, RPS WRNIs at 1C15, and the Reactor Trip Switchgear.	Records all data except Reactor Trip Switchgear.
NOTE: A Channel Check is defined by TS Bases 3.3.11.1	
* _____ C. PERFORM a channel check by comparing each step's parameter recorded values to each other and verify that any channel deviation is within the Acceptance Criteria	Determines all values are SAT except for item 6, PZR LVL

CCNPP LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

ELEMENT (* = CRITICAL STEP)		STANDARD
* _____	D. DETERMINE the operability of each step by circling SAT or UNSAT.	Same as element
_____	E. IF any 1C43 WRNI instrument is outside of the Acceptance Criteria when compared to the 1C15 WRNI instrument THEN WRITE an Issue Report. (N/A if all WRNI instruments are within Acceptance Criteria values)	Writes N/A in step

CUE: Proceed to Section 6.3

_____	6.3 <u>POST ACCIDENT MONITORING INSTRUMENTATION AT THE REMOTE SHUTDOWN</u>	
_____	A. CHECK 1C43 power supplies, upper and lower, indicating lights (4) energized. (Located in 1C43 back panel) (N/A if performed in step 6.1.A)	Determines element is N/A
* _____	B. RECORD the parameter readings listed in <u>ATTACHMENT 3, POST ACCIDENT MONITORING INSTRUMENTATION AT THE REMOTE SHUTDOWN PANEL AT 1C43.-</u>	Records data on Attachment 3

NOTE: A Channel Check is defined by TS Bases 3.3.10.1

CCNPP-LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

ELEMENT (* = CRITICAL STEP)		STANDARD
* _____	C PERFORM a channel check by comparing each step's parameter recorded values to each other and verify that any channel deviation is within the Acceptance Criteria.	Determines all values are SAT
_____	D. IF any instrument is outside of the Acceptance Criteria, THEN WRITE an Issue Report. (N/A if all instruments are within Acceptance Criteria values.)	Writes N/A in step
_____	E COMPLETES review of STP data and gives it to the CRS for SRO review (Section 6.4)	Same as element

TIME STOP _____

TERMINATING CUE:	This task is complete when Attachments 1 and 3 from STP O-63-1 are completed. No further actions are required.
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CCNPP LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

TASK 022100502

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 CRS.
 - comply with industrial safety practices, radiation safety practices and use of event free tools.
2. Initial Conditions:
 - a. Unit 1 is at 100% power.
 - b. Maintenance has been completed on the power supply replacement at 1C43.
 - c. You are performing the duties of the Extra Licensed Operator.
3. Initiating Cue: The CRS has directed you to perform STP O-63-1 on the Instruments at 1C43 as a Post Maintenance Test. Are there any questions? You may begin.

Calvert Cliffs Nuclear Power Plant
ADMIN A3 Topics
Radiation Control

Knowledge of radiation exposure limits

K/A 2.3.4 [2.5/3.1]

Question a:

What is the CCNPP Administrative Dose MAXIMUM limit for total dose equivalent (TEDE) that an Operator can receive as the TEDE-ALARA goal and the MAXIMUM CCNPP Administrative limit from all occupational sources?

Would either limit be exceeded if an Operator has 1.25 REM to date and it is estimated that the Operator could receive up to 275 Mrem during LLRT for the upcoming Refueling Outage?

COMMENTS:

Satisfactory

Unsatisfactory

Candidate _____

**Calvert Cliffs Nuclear Power Plant
ADMIN A3 Topics
Radiation Control**

Knowledge of radiation exposure limits

K/A 2.3.4 [2.5/3.1]

Question a:

What is the CCNPP Administrative Dose MAXIMUM limit for total dose equivalent (TEDE) that an Operator can receive as the TEDE-ALARA goal and the MAXIMUM CCNPP Administrative limit from all occupational sources?

Would either limit be exceeded if an Operator has 1.25 REM to date and it is estimated that the Operator could receive up to 275 Mrem during LLRT for the upcoming Refueling Outage?

Answer:

1.5 REM (15 mSv) is the ALARA goal, whereas 4.0 REM (40 mSv) is the maximum administrative limit from all occupational sources

The Operator would exceed the ALARA goal with a projected dose of 1.525 REM

COMMENTS:

Reference Use Allowed? YES

Reference 1 RP-1-100 Table 1, page 22

Satisfactory

Unsatisfactory

Candidate _____

Calvert Cliffs Nuclear Power Plant
ADMIN A3 Topics
Radiation Control

Knowledge of 10CFR 20 and related facility radiation control requirements

K/A 2.3.1 [2.6/3.0]

Question b:

What radiological restrictions, if any exist for workers in the RCA that have to climb to perform work?

Comments:

Satisfactory

Unsatisfactory

Candidate _____

**Calvert Cliffs Nuclear Power Plant
ADMIN A3 Topics
Radiation Control**

Knowledge of 10CFR 20 and related facility radiation control requirements

K/A 2.3.1 [2.6/3.0]

Question b:

What radiological restrictions, if any, exist for workers in the RCA that have to climb to perform work?

Answer:

Workers are NOT to work in the overhead or any other area unless radiological surveys have been performed OR checked as specified in the SWP.

(Radiological signs and postings apply to general or specific areas up to 8 feet off the floor)

Reference Use Allowed? NO

Reference 1: RP-1-100 Section 5.2 .B Note

Comments:

Satisfactory

Unsatisfactory

Candidate _____

CCNPP LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

TASK: 010610402 Use of Dedicated Telephone per ERPIP 105

JOB PERFORMANCE MEASURE

CALVERT CLIFFS NUCLEAR POWER PLANT

LICENSED OPERATOR TRAINING

CCNPP LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

TASK: 010610402 Use of Dedicated Telephone per ERPIP 105

PERFORMER'S NAME: _____

APPLICABILITY:

PO and RO

PREREQUISITES:

Completion of the knowledge requirement of the Initial License class training program for Administrative Procedures.

EVALUATION LOCATION:

_____ PLANT X SIMULATOR _____ CONTROL ROOM

EVALUATION METHOD:

_____ ACTUAL PERFORMANCE _____ DEMONSTRATE PERFORMANCE

ESTIMATED TIME TO COMPLETE JPM:

10 MINUTES

ACTUAL TIME TO COMPLETE JPM:

_____ MINUTES

TIME CRITICAL TASK:

YES (15 Minutes)

TASK LEVEL:

TRAIN

TOOLS AND EQUIPMENT:

None

REFERENCE PROCEDURE(S):

ERPIP 105

TASK STANDARDS:

This JPM is complete when administrative task 010610402 is completed per ERPIP 105 for Initial Notification within 15 minutes of receiving the Initial Notification Form

CCNPP LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

TASK: 010610402 Use of Dedicated Telephone per ERPIP 105

DIRECTIONS TO EVALUATOR:

Performance of this JPM should be done on the simulator to allow use of the dedicated phone and a booth operator to respond.

Note to Booth operator: One of the 5 Outside agency's SHOULD NOT respond initially, requiring a followup call (Calvert County).

CCNPP LICENSED OPERATOR
ADMINISTRATIVE TOPIC
JOB PERFORMANCE MEASURE

ELEMENT (* = CRITICAL STEP)	STANDARD
TIME START _____	
CUE:	
____ Locate the ERPIP 105 procedure	Same as Element
____ Go to Attachment 1, OFFSITE AGENCY NOTIFICATIONS	Same as element
* ____ 1. LIFT receiver and DEPRESS "OFFSITE CONFERENCE"	Same as element
CUE: The simulator booth operator will answer the phone supplying the agency name and a person's name when requested.	
____ 2. As each agency answers, SAY , "This is Calvert Cliffs. Standby for an emergency message."	Same as element
____ 3. REQUEST agency name AND name of person.	Same as element
* ____ 4. RECORD name and time on form	Same as element
____ 5. IF no agencies answer, THEN GO TO step B.7 of this attachment. Separate calls must be made.	Determines this step is N/A
____ 6. After all agencies answer or about 2 minutes, SAY :	Same as element
a. "Please get an Initial Notification form".	
b. "I will wait for you to get the form.	

CCNPP LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

ELEMENT (* = CRITICAL STEP)	STANDARD
____ 7. After all agencies get the form or about 1 minute, SAY : a. I will give all information once then repeat it a second time b. If information is missed, please stay on the line and I will repeat what is missed.	Same as element
* ____ 8. GIVE all information from form. REPEAT all information once.	Same as element
* ____ 9. ASK each agency if full message was received. PROVIDE any missed information to respective agency. IF an agency does not answer this query, THEN PRESUME that all information is missed. GO TO next step of this attachment AND MAKE a separate agency call. IF all agencies answer this query. THEN GO TO step 8 of this attachment	Same as element, determines one outside agency did not respond (Calvert County)
* ____ 10. IF separate calls must be made, THEN DEPRESS button for respective agency.	Determines this step is N/A
____ 11. MARK on form the method of contact for each agency	Marks on form "Dedicated" -
CUE: The call to the NRC is not required.	
____ 12. "At the NRC Emergency Notification System"	Determines step is N/A

CCNPP LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

ELEMENT (* = CRITICAL STEP)	STANDARD
____ 13. SIGN form TIME STOP _____	Signs form

TERMINATING CUE:	This task is complete all Offsite agencies have been notified of the event. No further actions are required.
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CCNPP LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

TASK 010610402

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 CRS.
 - comply with industrial safety practices, radiation safety practices and use of event free tools.
2. Initial Conditions:
 - a. The ERPIP has been implemented.
 - b. ERPIP 3.0 Attachment 3 Initial Notification Form has been completed by the Shift Manager
3. Initiating Cue: The Shift Manager has directed you to transmit the Initial Notification information to the Offsite agencies according to ERPIP 105, CONTROL ROOM COMMUNICATOR, OFFSITE AGENCY NOTIFICATIONS. Are there any questions? You may begin.

CCNPP LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

CSRU ADMIN

TASK: 032120201 Determine and Apply Tech Spec Requirements

JOB PERFORMANCE MEASURE

CALVERT CLIFFS NUCLEAR POWER PLANT

LICENSED OPERATOR TRAINING

CCNPP LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

TASK: 032120201 Determine and Apply Tech Spec Requirements

PERFORMER'S NAME: _____

APPLICABILITY:

SRO

PREREQUISITES:

Completion of the knowledge requirement of the Initial License class training program for Administrative Procedures.

EVALUATION LOCATION:

_____ PLANT _____ SIMULATOR _____ CONTROL ROOM

EVALUATION METHOD:

_____ ACTUAL PERFORMANCE _____ DEMONSTRATE PERFORMANCE

ESTIMATED TIME TO COMPLETE JPM:

ACTUAL TIME TO COMPLETE JPM:

TIME CRITICAL TASK:

10 MINUTES

_____ MINUTES

NO

TASK LEVEL:

TRAIN

TOOLS AND EQUIPMENT:

CRO Log sheet

REFERENCE PROCEDURE(S):

Tech Spec

TASK STANDARDS:

This JPM is complete when administrative task 032120201 is completed per Tech Spec 3.5.1.

CCNPP LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

TASK: 032120201 Determine and Apply Tech Spec Requirements

DIRECTIONS TO EVALUATOR:

CCNPP LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

ELEMENT
(* = CRITICAL STEP)

STANDARD

TIME START _____

CUE: Provide a copy of the CRO logs for the CRS review.

* _____	1. Review the CRO log sheet for SIT data, page 5	Determines the readings for 12B SIT are out of spec
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CUE: The readings for 12B SIT on the log are verified as accurate on 1C08.

_____	2. Verify the accuracy of the recorded readings on 1C08	Determines the readings for 12B SIT are accurate
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NOTE: The candidate may direct the CRO to restore 12B SIT level and pressure per OI-3 while the Tech Specs are reviewed by the candidate.

CUE: Acknowledge the direction to restore 12B SIT level and pressure per OI-3

_____	3. Direct 12B SIT level and pressure to be restored per OI-3 while Tech Specs are reviewed.	Same as element
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CUE: Acknowledge the direction to restore 12B SIT level and pressure within 1 hour.

* _____	4. Review Tech Spec for 3.5.1, ECCS, Safety Injection Tanks	Determines LCO 3.5.1 Action B applies, Have 1 hour to restore 12B SIT level and pressure
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CCNPP LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

ELEMENT (* = CRITICAL STEP)	STANDARD
* ____ 5. Review LCO 3.5.1 Action C	<p data-bbox="1036 588 1531 693">Determines LCO 3.5.1 Action C will apply in 1 hour if the 12B SIT level and pressure are not restored.</p> <ul data-bbox="1036 714 1380 756" style="list-style-type: none"> <li data-bbox="1036 714 1380 756">• Be in Mode 3 in 6 hours <p data-bbox="987 777 1055 819">AND</p> <ul data-bbox="1036 840 1531 884" style="list-style-type: none"> <li data-bbox="1036 840 1531 884">• Be in Mode 4 in the next 12 hours

TIME STOP _____

TERMINATING CUE:	This task is complete when Tech Spec LCO 3.5.1 Action B and C are evaluated. No further actions are required.
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CCNPP LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

TASK: 032120201 DETERMINE AND APPLY TS REQUIREMENTS

Document below any instances of failure to comply with industrial safety practices, radiation safety practices and use of event free tools

COMMENTS:

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

SATISFACTORY UNSATISFACTORY

EVALUATOR'S SIGNATURE: _____ DATE: _____

CCNPP LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

TASK 032120201

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 CRS.
 - comply with industrial safety practices, radiation safety practices and use of event free tools.
2. Initial Conditions:
 - a. Unit 1 is at 100% power.
 - b. The CRO has just completed the SIT readings on his Control Room logsheet .
3. Initiating Cue: You are to perform all appropriate reviews and actions for the CRS log review, for the attached log sheet. Are there any questions? You may begin.

CCNPP LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

TASK: 032040080 Complete/Review Risk Assessment worksheets

JOB PERFORMANCE MEASURE

CALVERT CLIFFS NUCLEAR POWER PLANT

LICENSED OPERATOR TRAINING

CCNPP LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

TASK: 032040080 Complete/Review Risk Assessment worksheets

PERFORMER'S NAME: _____

APPLICABILITY:

SRO

PREREQUISITES:

Completion of the knowledge requirement of the Initial License class training program for Administrative Procedures.

EVALUATION LOCATION:

_____ PLANT _____ SIMULATOR _____ CONTROL ROOM

EVALUATION METHOD:

_____ ACTUAL PERFORMANCE _____ DEMONSTRATE PERFORMANCE

ESTIMATED TIME TO COMPLETE JPM:

15 MINUTES

ACTUAL TIME TO COMPLETE JPM:

_____ MINUTES

TIME CRITICAL TASK:

NO

TASK LEVEL:

TRAIN

TOOLS AND EQUIPMENT:

None

REFERENCE PROCEDURE(S):

- NO 1-117

TASK STANDARDS:

This JPM is complete when administrative task 032040080 is completed per NO 1-117 attachment 5

CCNPP LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

TASK: 032040080 Complete/Review Risk Assessment worksheets

DIRECTIONS TO EVALUATOR:

CCNPP LICENSED OPERATOR
ADMINISTRATIVE TOPIC
JOB PERFORMANCE MEASURE

ELEMENT (* = CRITICAL STEP)	STANDARD
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TIME START _____

CUE: Hand the candidate a copy of attachment 5 for risk assessment.

* _____ 1.	Review Attachment 5	Determines that Part A is used to assess the schedule risk
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CUE: Hand the candidate a copy of the Integrated Work Schedule.

* _____ 2.	Reviews Integrated Work Schedule	Determines STP O-7A-1 is scheduled, 12 CS pump conflicts with the STP performance Circles "YES" for A.1 for Unit 1
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CUE: Acknowledge the need to reschedule STP O-7A until 12 CS Pump is returned to service.

* _____ 3.	IF "YES", STOP and reschedule appropriate work activity or manager the risk using a Contingency Plan as a MEDIUM or HIGH Risk activity.	Determines that the scheduled STP O-7A should be deferred until 12 CS pump is returned to service.
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TIME STOP _____

TERMINATING CUE: This task is complete it is determined that STP O-7A has to be rescheduled. No further actions are required.

CCNPP LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

TASK: 032040080 COMPLETE RISK ASSESSMENT WORKSHEETS

Document below any instances of failure to comply with industrial safety practices, radiation safety practices and use of event free tools

COMMENTS:

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

SATISFACTORY UNSATISFACTORY

EVALUATOR'S SIGNATURE: _____ DATE: _____

CCNPP LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

TASK 032040080

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 CRS.
 - Comply with industrial safety practices, radiation safety practices and use of event free tools.
2. Initial Conditions:
 - a. Unit 1 is at 100% power.
 - b. Work is in progress per the Integrated Work schedule. Today is Friday morning
 - c. The CRS notifies you that 12 CS Pump has excessive seal leakage and has been placed in PTL and isolated.
 - d. You are performing the duties of the OWC.
3. Initiating Cue: The Shift Manager has requested that you assess the schedule risk of 12 CS pump being OOS using Attachment 5 in NO 1-117. Are there any questions? You may begin.

CCNPP LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

TASK: 032040506 Determine post maintenance testing of pumps and valves

JOB PERFORMANCE MEASURE

CALVERT CLIFFS NUCLEAR POWER PLANT

LICENSED OPERATOR TRAINING

CCNPP LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

TASK: 032040506 Determine post maintenance testing of pumps and valves

PERFORMER'S NAME: _____

APPLICABILITY:

SRO

PREREQUISITES:

Completion of the knowledge requirement of the Initial License class training program for Administrative Procedures.

EVALUATION LOCATION:

_____ PLANT _____ SIMULATOR _____ CONTROL ROOM

EVALUATION METHOD:

_____ ACTUAL PERFORMANCE _____ DEMONSTRATE PERFORMANCE

ESTIMATED TIME
TO COMPLETE JPM:

ACTUAL TIME
TO COMPLETE JPM:

TIME CRITICAL TASK:

15 MINUTES

_____ MINUTES

NO

TASK LEVEL:

TRAIN

TOOLS AND EQUIPMENT:

None

REFERENCE PROCEDURE(S):

NO-1-208

TASK STANDARDS:

This JPM is complete when administrative task 032040506s completed per NO 1-208.

CCNPP LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

TASK: 032040506 Determine post maintenance testing of pumps and valves

DIRECTIONS TO EVALUATOR:

CCNPP LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

ELEMENT (* = CRITICAL STEP)		STANDARD
TIME START _____		
_____ 1.	Locate NO 1-208	Same as element
* _____ 2.	Review Attachment 3, Standard Testing recommendations, to determine the recommended PMOT	Determines 12 LPSI pump is a Safety Related pump Determines 12 LPSI pump has a mechanical seal Determines the operability test for mechanical seal disassembly, is the appropriate STP to measure vibration and pump head/flow

NOTE:	The candidate should use the EPM information system to determine the STP for 12 LPSI pump.
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* _____ 3.	Access EPM to determine appropriate STP for test of 12 LPSI pump	Determines that STP O-73J-1 is used as the specified PMOT
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TIME STOP _____

TERMINATING CUE:	This task is complete when the specified PMOT is identified as STP O-73J-1 for 12 LPSI pump. No further actions are required.
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CCNPP LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

TASK: 032040506 Determine PMT of pumps and valves

Document below any instances of failure to comply with industrial safety practices, radiation safety practices and use of event free tools.

COMMENTS

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

SATISFACTORY UNSATISFACTORY

EVALUATOR'S SIGNATURE: _____ DATE: _____

CCNPP LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

TASK 032040506

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 CRS.
 - Comply with industrial safety practices, radiation safety practices and use of event free tools
2. Initial Conditions:
 - a. Unit 1 is at 100% power.
 - b. The CRS notifies you that 12 LPSI pump has been isolated due to excessive shaft seal leakage. The seal repair and re-assembly is estimated to take about 12 hours.
 - c. You are performing the duties of the OWC.
3. Initiating Cue: The Shift Manager has requested that you determine the Post Maintenance Operability Test per attachment 3 in NO-1-208 and any applicable test procedure. Are there any questions? You may begin.

CCNPP LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

TASK: 032170415 Determine appropriate emergency response actions per the ERPIP while maintaining an overview of plant conditions

JOB PERFORMANCE MEASURE

CALVERT CLIFFS NUCLEAR POWER PLANT

LICENSED OPERATOR TRAINING

CCNPP LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

TASK: 032170415 Determine appropriate emergency response actions per the ERPIP while maintaining an overview of plant conditions

PERFORMER'S NAME: _____

APPLICABILITY:

SRO

PREREQUISITES:

Completion of the knowledge requirement of the Initial License class training program for Emergency Response Plan Implementation Procedures.

EVALUATION LOCATION:

SIMULATOR

EVALUATION METHOD:

ACTUAL PERFORMANCE

ESTIMATED TIME TO COMPLETE JPM:

10 MINUTES

TIME CRITICAL TASK:

YES

TASK LEVEL:

LEVEL 1

TOOLS AND EQUIPMENT:

Blank copy of ERPIP 3.0 Attachment 3, Initial Notification Form, DRDT screen, Emergency Response Sector Map

REFERENCE PROCEDURE(S):

ERPIP 3.0

TASK STANDARDS:

This JPM is complete when an EAL classification is determined based on given plant conditions, initial notification form completed, and on-site notification made.

CCNPP LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

TASK: 032170415 Determine appropriate emergency response actions per the ERPIP while maintaining an overview of plant conditions

DIRECTIONS TO EVALUATOR:

None

CCNPP LICENSED OPERATOR
ADMINISTRATIVE TOPIC
JOB PERFORMANCE MEASURE

ELEMENT (* = CRITICAL STEP)	STANDARD
TIME START _____	
_____ 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

NOTE: The decision to classify an emergency may **NOT** be delegated.

* _____ 1.0	EVALUATE conditions against Attachment 1, Emergency Action Level (EAL) criteria.	Determines a GENERAL EMERGENCY classification is warranted under FISSION PRODUCT BARRIER DEGRADATION, based on 3/3 barriers affected with a loss of at least 2 barriers. (Fuel Clad Barrier-Radiation, coolant activity greater than 600 μ ci/cc, RCS Barrier-Safety Function Status/Functional Recovery, EOP-8 implemented from EOP-6, Cntmt Barrier-Coolant Leakage, Steam Generator Tube Rupture in progress and unexpected/uncontrolled release to the environment from the affected Steam Generator for greater than 15 minutes).
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CCNPP LICENSED OPERATOR
ADMINISTRATIVE TOPIC
JOB PERFORMANCE MEASURE

ELEMENT (* = CRITICAL STEP)	STANDARD
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B. IMPLEMENT EMERGENCY RESPONSE PLAN ACTIONS (ATTACHMENT 2)

CUE: Provide examinee with a copy of ERPIP 3.0 Attachment 3, Initial Notification

_____	1.0	IF an EAL is satisfied THEN OBTAIN an Initial Notification form (Attachment 3 to this procedure). GO TO the respective classification tab.	Obtains Attachment 3 from the evaluator or the "Extra Forms" book. Determines Attachment 4 is applicable.
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ATTACHMENT 4 GENERAL EMERGENCY

A. COMPLETE THE INITIAL NOTIFICATION FORM

NOTE TO EVALUATOR: *Items in italics are the self explanatory items mentioned in Attachment 4.*

_____	1.0	COMPLETE Initial Notification form (Attachment 3) as follows (items not mentioned are self-explanatory).	
_____		<i>Complete Item 1.</i>	Circles "is not" in Item 1.
_____		<i>Complete Item 2.</i>	Inserts name in Item 2.
* _____		<i>Complete Item 5.</i>	Checks "General Emergency" in Item 5.
_____	a.	Item 6, Time Declared: complete this last.	Completes Item 6 last.

CCNPP LICENSED OPERATOR
ADMINISTRATIVE TOPIC
JOB PERFORMANCE MEASURE

ELEMENT (* = CRITICAL STEP)		STANDARD
* _____	b. Item 7, Nature of Incident:	
	<u>NOTE</u>	
	EAL code and number and event code are from ERPIP 3.0, Attachment 1, EALs, Page 1	Chooses and records BG1 Fission Product Barrier Degradation on Attachment 3. Circles N/A for number and enters 59 for two digit event code.
	Enter EAL code	
	Circle EAL number	
	Enter two digit event code	
* _____	c. Item 8, Radioactivity: radioactivity is being/has been released if any of the following conditions are/have been met:	Determines Radioactivity is Being released
_____	(1) the release flowpath monitor is/was in alarm	
_____	(2) the release is/was greater than Technical Spec limits	
	(3) the release is/was accidental	
* _____	<i>Complete Item 9.</i>	Checks "Airborne".
* _____	d. Item 10, Population Affected: check "YES".	Checks "YES"
* _____	e. Item 11, Protective Actions Recommended: select a protective action from Attachment 5, Prompt Protective Action Recommendation.	Refers to Attachment 5.
_____	<i>Complete Item 12.</i>	Circles "is not" in Item 12.
_____	<i>Sign initial notification form.</i>	Enters signature in I.B.

CCNPP LICENSED OPERATOR
ADMINISTRATIVE TOPIC
JOB PERFORMANCE MEASURE

ELEMENT (* = CRITICAL STEP)	STANDARD
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ATTACHMENT 5 PROTECTIVE ACTION RECOMMENDATION

A. SELECT A PROTECTIVE ACTION RECOMMENDATION

NOTE: A protective action recommendation must be made for General Emergency.

CUE: The release rate is $2.7E5 \mu\text{ci /second}$.

_____ 1.0	IF a controlled release of radioactive material from containment is to be commenced in less than 2 hours AND there is assurance that the release will be a short term puff release lasting no more than 2 hours	Determines step is N/A.
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NOTE: Page 2 of this attachment may be used to determine which protective action zones (PAZs) are affected.

CUE: When DRDT screen checked, DIR10 and DIR60 indicate 340°.

* _____ 1.1	IF the criteria of A.1.0 are not satisfied THEN make the following Protective Action Recommendation: "Evacuate [select one] (PAZ 1) (PAZ 1 & 3) (PAZ 1, 2, & 3) (PAZ 1 & 2) unless conditions make evacuation dangerous, and shelter remainder of 10 mile EPZ."	Refers to Attachment 5 page 2 and selects PAZ 1 & 3.
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ATTACHMENT 3 INITIAL NOTIFICATION

_____	<i>Complete Item 6.</i>	Enters "Time" and "Date".
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CCNPP LICENSED OPERATOR
ADMINISTRATIVE TOPIC
JOB PERFORMANCE MEASURE

ELEMENT (* = CRITICAL STEP)	STANDARD
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ATTACHMENT 4 (GENERAL EMERGENCY)

B. HAVE THE INITIAL NOTIFICATION TRANSMITTED

* _____	1.0 DIRECT the Control Room Communicator to transmit the Initial Notification information to the offsite agencies in accordance with ERPIP 105, Control Room Communicator, OFFSITE AGENCY NOTIFICATIONS.	Directs Communicator to make notifications.
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C. NOTIFY ONSITE PERSONNEL

	1.0 Direct the Control Room Communicator to perform the following:	
_____	a. SOUND the emergency PA alarm for 5 seconds.	Sounds alarm for 5 seconds.
_____	b. ANNOUNCE "A GENERAL EMERGENCY exists." Give EAL category. IF site assembly has not been done THEN ANNOUNCE "All personnel report to your assembly area immediately".	Makes the following announcement: A general emergency exists under fission product barrier degradation. All personnel report to your assembly area immediately.

CCNPP LICENSED OPERATOR
ADMINISTRATIVE TOPIC
JOB PERFORMANCE MEASURE

ELEMENT
 (* = CRITICAL STEP)

STANDARD

- c. **REPEAT** step C.1.0.a and C.1.0.b of this attachment once.

Sounds alarm for 5 seconds.

Makes the following announcement:
 "A GENERAL EMERGENCY exists for Fission Product Barrier Degradation. All personnel report to your assembly area immediately."

TIME STOP _____

TERMINATING CUE:

This JPM is complete when an EAL classification is determined based on given plant conditions, initial notification form completed, and on-site notification made. No further actions are required.

CCNPP LICENSED OPERATOR

ADMINISTRATIVE TOPIC

JOB PERFORMANCE MEASURE

TASK: 032170415

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 CRS.
 - comply with industrial safety practices, radiation safety practices and use of event free tools
 - This is a time critical task
2. Initial Conditions:
 - a. Unit-1 was at 100% power when the letdown line radiation monitor alarmed.
 - b. RCS sample analysis indicated RCS activity of 650 $\mu\text{ci/cc}$ dose equivalent iodine.
 - c. A plant shutdown, to comply with technical specification requirement, was begun.
 - d. During the shutdown, an automatic reactor trip and safety injection occurred.
 - e. EOP-6 was implemented upon completion of EOP-0, for a SGTR on #11 S/G.
 - f. After failing to meet the Intermediate SFSC of EOP-6, EOP-8 was implemented 20 minutes ago (due to S/G Safety stuck open on #11 S/G).
 - g. You are performing the duties of the Shift Manager.
3. Initiating Cue: You are called to the Control Room to implement the Emergency Response Plan as per step B of EOP-8. Are there any questions? You may begin.