Facility: DCPP Date of Examination: 4/10/2000

Examination Level (circle one): RO / SRO Operating Test Number: 1

Administrative Topic/Subject Description		Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions
A.1	Parameter Verification	ADMNRC-1RO, Determine if RIL has been exceeded (JPM) ADMNRC-1SRO, Determine if RIL has been exceeded (JPM)
	Fuel Handling	ADMNRC-2RO, Determine SFP Heat Load/Removal Parameters (JPM) ADMNRC-2SRO, Verification of Determination of SFP Heat Load/Removal Parameters (JPM)
A.2	Maintenance	ADMNRC-3SRO, Perform online Risk Assessment (JPM)
	Tagging & Clearances	ADMNRC-4RO, Re-verify Active Master Clearance - GDT on Hold (JPM)
A.3	Radiation Control	ADMNRC-5, Entry into a locked High Radiation Area (JPM) RO/SRO
A.4	Emergency Plan	ADMNRC-6SRO, Determine event classification and complete notification form. (JPM)
		Escort Requirement with an Alert. Question - RO Who can communicate with NRC. Question - RO

Facility: DCPP Date of Examination: 4/10/2000

Examination Level (circle one): RO / SRO Operating Test Number: 2

Administrative Topic/Subject Description		Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions
A.1	Parameter Verification	ADMNRC-7RO, Determine Ultimate Heat Sink temperature. (JPM) ADMNRC-7SRO, Verify a determination of Ultimate Heat Sink temperature. (JPM)
	Mode Changes	ADMNRC-8, Perform Transfer Switch alignment for common equipment. (JPM) RO/SRO
A.2	Maintenance	ADMNRC-9RO, Perform Outage Safety Checklist. (JPM) ADMNRC-9SRO, Verify Outage Safety Checklist. (JPM)
A.3	Radiation Control	ADMNRC-10RO, Perform personnel frisk upon exiting SCA
	Exposure Limits	Determine individuals TEDE for current year. Question - SRO Determine type of radiation permit for given task. Question - SRO
A.4	Emergency Plan	ADMNRC-11SRO, Classify and Recommend PARS based on accident classification (JPM)
		When USCG is notified of Emergency Events. Question - RO Activation of Site Emergency signal. Question - RO

Facility: DCPP Date of Examination: 4/10/2000

Examination Level (circle one): RO / SRO Operating Test Number: 3

Administrative Topic/Subject Description		Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions
A.1	Parameter Verification	ADMNRC-12RO, Determine if AFD is within Tech Spec Limits (JPM) ADMNRC-12SRO, Verify AFD is within Tech Spec Limits (JPM)
	Mode Change	ADMNRC-13, Performance of sealed valve checklist (JPM) - SRO/RO
A.2	Maintenance	ADMNRC-14SRO, Review AP-5 Bistable Trip Authorization form. (JPM)
	Tagging & Clearances	ADMNRC-15RO, Review a clearance for technical accuracy. (JPM)
A.3	Radiation Control	ADMNRC-16RO, Termination of a Liquid Radwaste Release. (JPM)
	Exposure Limits	Perform Dose calculation based on dose history and expected stay time in High High radiation area. Question - SRO Who can authorize an emergency exposure. Question - SRO
A.4	Emergency Plan	ADMNRC-17SRO, Perform Off-site Dose Assessment - GDT rupture (JPM)
		Lowest event classification for TSC activation. Question - RO Time to notify the NRC of classification change. Question - RO

NUCLEAR POWER GENERATION
DIABLO CANYON POWER PLANT

JOB PERFORMANCE MEASURE

Number: ADMNRC-1RO

Title: DETERMINE IF ROD INSERTION LIMIT (RIL) HAS BEEN EXCEEDED

Examinee: _____

Evaluator: _____ _____ _____
Print Signature Date

Results: Sat _____ Unsat _____ Total Time: _____ minutes

Comments:

References: STP I-1A, Routine Shift Checks Required by Licenses, Attachment 11.1, Rev. 78

COLR for DCPP Unit 1 Cycle 10, Rev. 0

Alternate Path: Yes _____ No X

Time Critical: Yes _____ No X

Time Allotment: 10 Minutes

Critical Steps: 3, 5

Job Designation: RO

Task Number: G2.1.25

Rating: 2.8

AUTHOR: DAVE BURNS DATE: 2/1/2000

REVIEWED BY: N/A DATE: N/A
JPM COORDINATOR

APPROVED BY: N/A DATE: N/A
TRAINING LEADER

Directions: **No plant controls or equipment are to be operated during the performance of this Job Performance Measure**. All actions taken by the examinee should be clearly demonstrated and verbalized to the evaluator. The student will be given the initial conditions, initiating cue, and task standard. The examiner will then ask if any clarifications are needed. The examinee may be given the procedure and told the step with which to begin.

Required Materials: None

Initial Conditions: Unit 1 was ramped down due to problems with Circulating Water Pump 1-2, Reactor power is now stabilized at approximately 50%.

Current NI readings are as follows:

NI-41B	49.5 %
NI-42B	50.5 %
NI-43B	51.0 %
NI-44B	49.0 %

Current Control Bank Step Counters:

	CB-A	CB-B	CB-C	CB-D
Group 1	225	225	178	50
Group 2	225	225	178	50

Initiating Cue: Shift Foreman directs you to determine if the Rod Insertion Limits for Unit 1 are satisfied, using STP I-1A, Routine Shift Checks Required by Licenses, Attachment 11.1, Step 14.

Task Standard: Rod Insertion Limits determined based on given information and Shift Foreman informed of results.

Start Time: _____

Step	Expected Operator Actions
1. Operator obtains correct procedure	1.1 Operator obtains STP I-1A, Attachment 11.1 ** **Cue: Provide candidate with exam copy of STP I-1A, Attachment 11.1** ** **Step was: Sat: _____ Unsat _____***
2. Operator obtains correct procedure	2.1 Operator obtains COLR for Unit 1 cycle 10, Figure 1. ** **Cue: Provide candidate with exam copy of COLR for Unit 1 cycle 10, Figure 1.** ** **Step was: Sat: _____ Unsat _____***
3. **Records Present thermal power level.	3.1 Determines present power level to be average of power ranges - 50% 3.2 Records present thermal power level on STP I-1A Data Sheet - 50% **Step was: Sat: _____ Unsat _____***

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

4. Records Insertion limit	4.1 Determines insertion limit for current power level is Bank D at 53 Steps. 4.2 Records Insertion limit on STP I-1A Data Sheet - Bank D at 53 Steps **Step was: Sat: _____ Unsat _____***
5. **Determines Rod Insertion Limit is currently being exceeded.	5.1 Determines that RIL is currently being exceeded on Control Bank D which is at 50 steps. 5.2 Notifies SFM the RIL is currently being exceeded. **Step was: Sat: _____ Unsat _____***

Stop Time: _____

Total Time: _____ (Enter total time on the cover page)

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Initial Conditions: Unit 1 was ramped down due to problems with Circulating Water Pump 1-2, Reactor power is now stabilized at approximately 50%.

Current NI readings are as follows:

NI-41B	49.5 %
NI-42B	50.5 %
NI-43B	51.0 %
NI-44B	49.0 %

Current Control Bank Step Counters:

	CB-A	CB-B	CB-C	CB-D
Group 1	225	225	178	50
Group 2	225	225	178	50

Initiating Cue: Shift Foreman directs you to determine if the Rod Insertion Limits for Unit 1 are satisfied, using STP I-1A, Routine Shift Checks Required by Licenses, Attachment 11.1, Step 14.

Task Standard: Rod Insertion Limits determined based on given information and Shift Foreman informed of results.

NUCLEAR POWER GENERATION
DIABLO CANYON POWER PLANT

JOB PERFORMANCE MEASURE

Number: ADMNRC-2RO

Title: DETERMINATION OF SPENT FUEL POOL HEAT LOAD/REMOVAL PARAMETERS

Examinee: _____

Evaluator: _____ _____ _____
Print Signature Date

Results: Sat _____ Unsat _____ Total Time: _____ minutes

Comments:

References: OP B-8DS1, Core Loading, Attachment 9.3, Rev. 25

Alternate Path: Yes X No _____

Time Critical: Yes _____ No X

Time Allotment: 10 Minutes

Critical Steps: 3, 4

Job Designation: RO

Task Number: G2.1.23

Rating: 3.0

AUTHOR: DAVE BURNS DATE: 2/14/2000

REVIEWED BY: N/A DATE: N/A
JPM COORDINATOR

APPROVED BY: N/A DATE: N/A
TRAINING LEADER

Directions: **No plant controls or equipment are to be operated during the performance of this Job Performance Measure**. All actions taken by the examinee should be clearly demonstrated and verbalized to the evaluator. The student will be given the initial conditions, initiating cue, and task standard. The examiner will then ask if any clarifications are needed. The examinee may be given the procedure and told the step with which to begin.

Required Materials: None

Initial Conditions: Unit 1 is currently in Mode 6 with fuel offload in progress during 1R11.

Current Plant parameters are as follows:

- Mode 3 was entered 6 days ago at 1500
- Current time is 1500
- 165 fuel assemblies have been offloaded to the spent fuel pool
- CCW flow rate on FI-197 is 3200 gpm
- CCW Heat exchanger outlet temperatures are : TI-181 - 72°F
  TI-182 - 75°F
- Spent Fuel Pool Pump 1-2 D/P is 38 psid
- Spent Fuel Pool Temperature is 127°F

Initiating Cue: Shift Foreman directs you to determine if Spent Fuel Pool Heat Load/Removal parameters are met by performing Attachment 9.3 of OP B-8DS1, "Core Unloading".

Task Standard: Attachment 9.3 of OP B-8DS1, "Core Unloading" completed and Shift Foreman notified of results.

Start Time: _____

Step	Expected Operator Actions
1. Operator obtains the correct procedure.	1.1 Operator obtains OP B-8DS1, Attachment 9.3. *** **Cue: Provide candidate with exam copy of Attachment 9.3.** *** **Step was: Sat: _____ Unsat _____***
2. Determine Mode 3 Entry, date & time.	2.1 Operator determines Mode 3 entry date and time and enters on data sheet. **Note: Operator should use 6 days ago from current time and date.** **Step was: Sat: _____ Unsat _____***
3. **Determines current offload status.	3.1 Determines that 144 hours have elapsed from start of core offload and enters on data sheet. 3.2 Determines that number of fuel assemblies offloaded is 165 and enters data. 3.3 Determines that elapsed time and number of assemblies removed is within the acceptable area of chart. 3.4 Marks YES box. **Step was: Sat: _____ Unsat _____***

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

4. **Determines Spent Fuel Pool Cooling System Status.	4.1 Determines CCW flow rate from FI-197 is 3200 gpm and enters on Attach. 4.2 Determines that CCW flowrate is acceptable and marks YES box. 4.3 Determines that the CCW Heat Exchanger Outlet Temperatures are 72°F on TI-181 and 75°F on TI-182 and enters on Attach. 4.4 Determines that CCW Heat Exchanger Outlet Temperature is acceptable and marks YES box. 4.5 Determines that SFP Pump 1-2 D/P is 38 psid and enters on Attach. 4.6 Determines that SFP Pump 1-2 D/P is acceptable and marks YES Box. 4.7 Determines that Spent Fuel Pool Temperature is 127°F. 4.8 Determines that the Spent Fuel Pool temperature is unacceptable and marks NO box. **Step was: Sat: _____ Unsat _____***
5. Notifies Shift Foreman	5.1 Notifies Shift Foreman that Spent Pool Heat Load/Removal Parameters are not met due to high Spent Fuel Pool Temperature. **Step was: Sat: _____ Unsat _____***

Stop Time: _____

Total Time: _____ (Enter total time on the cover page)

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Initial Conditions: Unit 1 is currently in Mode 6 with fuel offload in progress during 1R11.

Current Plant parameters are as follows:

- Mode 3 was entered 6 days ago at 1500
- Current time is 1500
- 165 fuel assemblies have been offloaded to the spent fuel pool
- CCW flow rate on FI-197 is 3200 gpm
- CCW Heat exchanger outlet temperatures are : TI-181 - 72°F
  TI-182 - 75°F
- Spent Fuel Pool Pump 1-2 D/P is 38 psid
- Spent Fuel Pool Temperature is 127°F

Initiating Cue: Shift Foreman directs you to determine if Spent Fuel Pool Heat Load/Removal parameters are met by performing Attachment 9.3 of OP B-8DS1, "Core Unloading".

Task Standard: Attachment 9.3 of OP B-8DS1, "Core Unloading" completed and any Shift Foreman notified of results.

NUCLEAR POWER GENERATION
DIABLO CANYON POWER PLANT

JOB PERFORMANCE MEASURE

Number: ADMNRC-4RO

Title: RE-VERIFY ACTIVE MASTER CLEARANCE - GDT ON HOLD

Examinee: _____

Evaluator: _____ _____ _____
Print Signature Date

Results: Sat _____ Unsat _____ Total Time: _____ minutes

Comments: Use Clearance number 63058, if points not active, create training tags for components to be re-verified.

PERFORM WHILE IN RCA

References: OP2.ID1, Clearances, Rev. 11B

Alternate Path: Yes _____ No X

Time Critical: Yes _____ No X

Time Allotment: 10 Minutes

Critical Steps: 2

Job Designation: RO

Task Number: G2.2.13

Rating: 3.6

AUTHOR: DAVE BURNS DATE: 2/2/2000

REVIEWED BY: N/A DATE: N/A
JPM COORDINATOR

APPROVED BY: N/A DATE: N/A
TRAINING LEADER

Directions: **No plant controls or equipment are to be operated during the performance of this Job Performance Measure**. All actions taken by the examinee should be clearly demonstrated and verbalized to the evaluator. The student will be given the initial conditions, initiating cue, and task standard. The examiner will then ask if any clarifications are needed. The examinee may be given the procedure and told the step with which to begin.

Required Materials: Clearance Number 63058

Initial Conditions: Gas Decay Tank 1-2 is isolated and controlled by SFM Administrative Clearance 63058.

Initiating Cue: SFM directs you to perform the 90 day re-verification of GDT 1-2 administrative clearance number 63058.

Task Standard: Clearance 63058 re-verification completed.

Start Time: _____

Step	Expected Operator Actions
1. Operator obtains correct procedure	1.1 Operator obtains OP2.ID1, Clearances, Step 5.5.3
	Note: This Step not required, if referenced provide candidate with copy.
	Step was: Sat: _____ Unsat _____*

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

2. **Checks plant configuration established by clearance still exists.	2.1 Operator verifies GDT Selector Switch is selected to B or E and CBC tag intact and legible. ********** **Cue: Selector Switch is in B Position and CBC tag is intact and legible.** **********
	2.2 Operator verifies GDT 1-2 is not selected to purge and CBC tag intact and legible. ********** **Cue: GDT 1-2 not selected to purge and CBC tag is intact and legible.** **********
	2.3 Operator verifies GDT 1-2 Nitrogen supply control switch, FCV-412 is closed and CBC tag intact and legible. ********** **Cue: GDT 1-2 Nitrogen Supply control switch, FCV-412 is closed and CBC tag is intact and legible.** **********
	2.4 Operator verifies GDT 1-2 Sample valve GW-1-22 is closed and caution tag is intact and legible. ********** **Cue: GDT 1-2 Sample valve GW-1-22 is closed and caution tag is intact and legible.** ********** **Step was: Sat: _____ Unsat _____***

Stop Time: _____

Total Time: _____ (Enter total time on the cover page)

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Initial Conditions:	Gas Decay Tank 1-2 is isolated and controlled by SFM Administrative Clearance 63058.
Initiating Cue:	SFM directs you to perform the 90 day re-verification of GDT 1-2 administrative clearance number 63058.
Task Standard:	Clearance 63058 re-verification completed.

NUCLEAR POWER GENERATION
DIABLO CANYON POWER PLANT

JOB PERFORMANCE MEASURE

Number: ADMNRC-5

Title: ENTRY INTO A LOCKED HIGH RADIATION AREA

Examinee: _____

Evaluator: _____ _____ _____
Print Signature Date

Results: Sat _____ Unsat _____ Total Time: _____ minutes

Comments: The Access Senior should be briefed ahead of time and informed that actual entry into the area will not be required and that the student will be stopped at the door to the Letdown heat exchanger rooms.

References: RCP D-220, Control of Access To High, High-High and Very High Radiation Areas, Rev. 12 (do not give this to the student).

OP AP-9, Loss of Instrument Air, Rev. 18.

Alternate Path: Yes _____ No X

Time Critical: Yes _____ No X

Time Allotment: 15 minutes

Critical Steps: 1, 2, 3

Job Designation: RO/SRO

K/A Number: G2.3.1(2.6/3.0)

AUTHOR: DAVE BURNS DATE: 2/2/2000

REVIEWED BY: N/A DATE: N/A
JPM COORDINATOR

APPROVED BY: N/A DATE: N/A
TRAINING LEADER

Directions: **No plant controls or equipment are to be operated during the performance of this Job Performance Measure**. All actions taken by the examinee should be clearly demonstrated and verbalized to the evaluator. The student will be given the initial conditions, initiating cue, and task standard. The examiner will then ask if any clarifications are needed. The examinee may be given the procedure and told the step with which to begin.

Required Materials: None

Initial Conditions: Unit 2 Reactor Tripped due to a loss of Instrument Air. SFM is directing actions from Appendix B of OP AP-9, Loss of Instrument Air.

Initiating Cue: The Unit 2 SFM directs you to enter the Letdown Heat Exchanger room in preparation for locally positioning PCV-135 outlet isolation valve CVCS-2- 8408B to 50% per Step 2c, Check Letdown in service RNO of OP AP-9.

Task Standard: Entry into Letdown heat exchanger room completed.

Start Time: _____

Step	Expected Operator Actions
1. **Enters the RCA	1.1 Operator checks Area maps at Access Control to determine radiation levels at the Letdown heat exchanger room. 1.2 Obtains PED 1.3 Logs into RCA on Operations RWP. **Note: Only steps 1.2 and 1.3 are necessary to complete the critical step.** **Step was: Sat: _____ Unsat _____***
2. **Determines entry into a locked high radiation area is required.	2.1 Operator determines he needs to enter a locked high radiation area by either performing step 1.1 (above) or by observing the signs posted at the Letdown heat exchanger room. 2.2 Informs Access Senior of his need to enter a locked high radiation area. **Step was: Sat: _____ Unsat _____***
3. **Tailboards entry into the Letdown heat exchanger room.	3.1 Operator ensures he meets the radiation monitoring requirements for entry into the Letdown heat exchanger room as directed by the Access Senior. 3.2 Obtains pink "HRA" ID badge. (NOT part of critical step.) 3.3 Obtains key to the Letdown heat exchanger rooms.

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

	Note: The Access Senior may decide to send a RP tech with the operator to unlock the door and perform radiation monitoring functions.
	Step was: Sat: _____ Unsat _____*
4. Enters Letdown heat exchanger room.	4.1 Operator locates the door to the Letdown heat exchanger room.
	4.2 Prepares to unlock the door.
	**********
	Cue: The JPM is complete, entry into the Letdown heat exchanger rooms is NOT required.
	**********
	Step was: Sat: _____ Unsat _____*

Stop Time: _____

Total Time: _____ (Enter total time on the cover page)

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Initial Conditions: Unit 2 Reactor Tripped due to a loss of Instrument Air. SFM is directing actions from Appendix B of OP AP-9, Loss of Instrument Air.

Initiating Cue: The Unit 2 SFM directs you to enter the Letdown Heat Exchanger room in preparation for locally positioning PCV-135 outlet isolation valve CVCS-2- 8408B to 50% per Step 2c, Check Letdown in service RNO of OP AP-9.

Task Standard: Entry into Letdown heat exchanger room completed.

CATEGORY: A.4
TOPIC: Emergency Plan
KA: G2.4.29 (2.6)
Job Designation: RO

Reference Allowed: YES

Reference: LPE-2, Obj. 44, Pg. 34, and EP G-4, Personnel Assembly, Accountability and Site Access Control During Emergencies, Rev. 16C, Step 6.1.10.

QUESTION # 1:

While escorting 5 visitors in the Control Room the Site Emergency Signal is sounded. Per the Emergency Plan, where shall the visitors be escorted to?

ANSWER:

Visitors shall be escorted to the security building lobby for roll call.

Candidate's Response: **SAT _____** **UNSAT _____**

CATEGORY: A.4
TOPIC: Emergency Plan
KA: G2.4.39 (3.1)
Job Designation: RO

Reference Allowed: YES

Reference: LEP-2, OBJ. 34, Pg. 27 and EP G-3, Notification of Off-Site Agencies and Emergency Response Organization Personnel, Rev. 31A, Step 2.1.1.c

QUESTION # 2:

Shift Supervisor has declared an ALERT on Units 1 & 2 due to a Strong Earthquake. The NRC has requested that an open communication channel be established with the control room. Per the Emergency Procedures who can the Shift Supervisor assign this task to?

ANSWER:

A licensed operator or STA knowledgeable of the event.

Candidate's Response: **SAT _____ UNSAT _____**

CATEGORY: A.4

QUESTION # 1:

References Allowed: YES

While escorting 5 visitors in the Control Room the Site Emergency Signal is sounded. Per the Emergency Plan, where shall the visitors be escorted to?

CATEGORY: A.4

QUESTION # 2:

References Allowed: Yes

Shift Supervisor has declared an ALERT on Units 1 & 2 due to a Strong Earthquake. The NRC has requested that an open communication channel be established with the control room. Per the Emergency Procedures who can the Shift Supervisor assign this task to?

NUCLEAR POWER GENERATION
DIABLO CANYON POWER PLANT

JOB PERFORMANCE MEASURE

Number: ADMNRC-7RO

Title: DETERMINE ULTIMATE HEAT SINK TEMPERATURE

Examinee: _____

Evaluator: _____ _____ _____
Print Signature Date

Results: Sat _____ Unsat _____ Total Time: _____ minutes

Comments:

References: STP I-1A, Routine Shift Checks Required by Licenses, Attachment 11.1, Rev. 78

Technical Specifications, DCPP Units 1 & 2

Alternate Path: Yes X No _____

Time Critical: Yes _____ No X

Time Allotment: 10 Minutes

Critical Steps: 3

Job Designation: RO

Task Number: G2.1.23

Rating: 3.9

AUTHOR:	DAVE BURNS	DATE:	2/15/2000
REVIEWED BY:	N/A JPM COORDINATOR	DATE:	N/A
APPROVED BY:	N/A TRAINING LEADER	DATE:	N/A

Directions: **No plant controls or equipment are to be operated during the performance of this Job Performance Measure**. All actions taken by the examinee should be clearly demonstrated and verbalized to the evaluator. The student will be given the initial conditions, initiating cue, and task standard. The examiner will then ask if any clarifications are needed. The examinee may be given the procedure and told the step with which to begin.

Required Materials: None

Initial Conditions: Unit 1 is at 50% power with CWP 1-2 out of service for replacement of damaged screens. Unit 2 is in day 14 of a refueling outage.

Current plant conditions for the Circ Water and ASW systems are as follows:

Component	Status	Current Ocean Water Temperature	
CWP 1-1	In-service	TI-311	61°F
CWP 1-2	Cleared	TI-328	61°F
ASW Pp 1-1	In-service to CCW HX 1-1	TI-1484	60.5°F
ASW Pp 1-2	In-STBY	TI-1485	60°F
CWP 2-1	Cleared	TI-311	61°F
CWP 2-1	Cleared	TI-328	61°F
ASW Pp 2-1	In-service to CCW HX 2-1	TI-1484	61°F
ASW Pp 2-2	Cleared	TI-1485	61°F

Initiating Cue: Shift Forman directs you to determine the Ultimate Heat Sink Temperature, using STP I-1A, Routine Shift Checks Required by Licenses, Attachment 11.1, Step 39.

Task Standard: Ultimate Heat Sink temperature is determined based on given information and Shift Foreman informed of results.

Start Time: _____

Step	Expected Operator Actions
1. Operator obtains correct procedure	1.1 Operator obtains STP I-1A, Attachment 11.1, Pages 10-12 *** **Cue: Provide candidate with exam copy of STP I-1A, Attachment 11.1, Pages 10-12** *** **Step was: Sat: _____ Unsat _____***
2. Operator determines UHS temperature using method 1.	2.1 Records the Pacific Ocean water temperatures for TI-311. 2.2 Determines that Method 1 is invalid based on Notes 1 and 2, marks N/A box and goes to Method 2. **Note: Operator should refer to Notes 1 and 2, requires minimum of 2 indicators, since CWP 1-2 is not running TI-328 is not valid.** **Step was: Sat: _____ Unsat _____***

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

3. ** Operator determines UHS temperature using method 2.	3.1 Records Pacific Ocean water temperatures, 60.5°F on TI-1484 on Unit 1 & 61°F on TI-1484 on Unit 2 3.2 Records the highest of the available indicators, 61°F.
	Note: Unit 2 TI-1484 is reading highest at 61.0°F
	3.3 Determines proper correction factor based on available indications of 0.3°F. 3.4 Determines corrected Pacific Ocean water temperature to be 61.3°F, initials step. **Step was: Sat: _____ Unsat _____***
4. Operator determines UHS temperature using method 3.	4.1 Operator marks N/A box and goes to steps d & e. **Step was: Sat: _____ Unsat _____***
5. Informs Shift Foreman of results	5.1 Operator determines that corrected Pacific Ocean water temperature is satisfactory and marks boxes d & e N/A. 5.2 Operator informs Shift Foreman that corrected Pacific Ocean water temperature is satisfactory. **Step was: Sat: _____ Unsat _____***

Stop Time: _____

Total Time: _____ (Enter total time on the cover page)

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Initial Conditions: Unit 1 is at 50% power with CWP 1-2 out of service for replacement of damaged screens. Unit 2 is in day 14 of a refueling outage.

Current plant conditions for the Circ Water and ASW systems are as follows:

Component	Status	Current Ocean Water Temperature	
CWP 1-1	In-service	TI-311	61°F
CWP 1-2	Cleared	TI-328	61°F
ASW Pp 1-1	In-service to CCW HX 1-1	TI-1484	60.5°F
ASW Pp 1-2	In-STBY	TI-1485	60°F
CWP 2-1	Cleared	TI-311	61°F
CWP 2-1	Cleared	TI-328	61°F
ASW Pp 2-1	In-service to CCW HX 2-1	TI-1484	61°F
ASW Pp 2-2	Cleared	TI-1485	61°F

Initiating Cue: Shift Forman directs you to determine the Ultimate Heat Sink Temperature, using STP I-1A, Routine Shift Checks Required by Licenses, Attachment 11.1, Step 39.

Task Standard: Ultimate Heat Sink temperature is determined based on given information and Shift Foreman informed of results.

NUCLEAR POWER GENERATION
DIABLO CANYON POWER PLANT

JOB PERFORMANCE MEASURE

Number: ADMNRC-8

Title: PERFORM TRANSFER SWITCH ALIGNMENT VERIFCATION

Examinee: _____

Evaluator: _____ _____ _____
Print Signature Date

Results: Sat _____ Unsat _____ Total Time: _____ minutes

Comments: **PERFORM INPLANT DURING PLANT WALKTHRU**

References: OP K-10X27, Sealed Transfer Switch Procedure, Rev 16, Attach. 9.1
OP1.DC20, Sealed Components, Rev. 9, Attach. 6.4

Alternate Path: Yes X No _____

Time Critical: Yes _____ No X

Time Allotment: 15 Minutes

Critical Steps: 3, 4, 5, 6

Job Designation: RO/SRO

Task Number: G2.1.30

Rating: 3.9/3.4

AUTHOR: DAVE BURNS DATE: 2/3/2000

REVIEWED BY: N/A DATE: N/A
JPM COORDINATOR

APPROVED BY: N/A DATE: N/A
TRAINING LEADER

Directions: **No plant controls or equipment are to be operated during the performance of this Job Performance Measure**. All actions taken by the examinee should be clearly demonstrated and verbalized to the evaluator. The student will be given the initial conditions, initiating cue, and task standard. The examiner will then ask if any clarifications are needed. The examinee may be given the procedure and told the step with which to begin.

Required Materials: None

Initial Conditions: Units 1 and 2 are both at 100% power.

Initiating Cue: Unit 1 Shift Foreman directs you to perform the 6 month verification (per OP1.DC20 step 4.5.3) of OP K-10X27, Attachment 9.1 - "Transfer Switch Alignment Checklist", for COMMON EQUIPMENT.

Task Standard: Verification of Transfer Switch Alignment Checklist for "COMMON EQUIPMENT", is completed and Shift Foreman notified.

Start Time: _____

Step	Expected Operator Actions
1. Operator obtains correct procedures	1.1 Operator obtains OP K-10X27 attachment 9.1 for common equipment.
	Note: Provide candidate with exam copy of OP K-10X27.
	1.2 Operator obtains OP1.DC20 Attachment 6.4.
	Note: Provide candidate with exam copy of OP1.DC20 Attach. 6.4
	Step was: Sat: _____ Unsat _____*
2. Operator reviews procedure	2.1 Operator reviews OP1.DC20 instructions step 4.5.3
	Note: Candidate should review step 4.5.3 and determine that steps a, b and c apply to this task.
	Step was: Sat: _____ Unsat _____*
3. **Verifies position of DSL Fuel Oil Pp 0-2 Transfer Switch	3.1 Operator locates DSL Fuel Oil Pp 0-2 transfer switch in Unit 1 480v Bus 1G room.
	3.2 Operator visually verifies the position of the transfer switch and location of seal.
	**********
	Cue: Transfer switch is sealed in the NORMAL position.
	**********

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

4. **Verifies position of DSL Fuel Oil Pp 0-1 Transfer Switch	4.1 Operator locates DSL Fuel Oil Pp 0-1 transfer switch in Unit 1 480v Bus 1H room. 4.2 Operator visually verifies the position of the transfer switch and location of seal. ** **Cue: Transfer switch is sealed in the NORMAL position.** ** **Step was: Sat: _____ Unsat _____***
5. **Verifies position of EPTSN - Technical Support Center Power Transfer Switch	5.1 Operator locates EPTSN - Technical Support Center Power transfer switch in Unit 2 480v Bus 2F room. 5.2 Operator visually verifies the position of the transfer switch and location of seal. ** **Cue: Transfer switch is sealed in the NORMAL position.** ** **Step was: Sat: _____ Unsat _____***

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

6. **Verifies position of EPTSC - Technical Support Center Power Transfer Switch	6.1 Operator locates EPTSC - Technical Support Center Power transfer switch in Unit 2 480v Bus 2F room. 6.2 Operator visually verifies the position of the transfer switch and location of seal. *** **Cue: Transfer switch is in the NORMAL position and the SEAL is missing.** *** 6.3 Operator contacts the SFM informs him of his findings. *** **Cue: Inform candidate that the SFM directs him to re-seal the component.** *** 6.4 Operator goes to control room and locates replacement seal. **Note: Once seal is located in control room, leave seal in control room.** 6.5 Operator returns to transfer switch and installs seal. **Step was: Sat: _____ Unsat _____***
7. Operator completes 6 month verification form.	7.1 Operator signs and dates verification form and returns it to Shift Foreman. **Step was: Sat: _____ Unsat _____***

Stop Time: _____

Total Time: _____ (Enter total time on the cover page)

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Initial Conditions: Units 1 and 2 are both at 100% power.

Initiating Cue: Unit 1 Shift Foreman directs you to perform the 6 month verification (per OP1.DC20 step 4.5.3) of OP K-10X27, Attachment 9.1 - "Transfer Switch Alignment Checklist", for COMMON EQUIPMENT.

Task Standard: Verification of Transfer Switch Alignment Checklist for "COMMON EQUIPMENT", is completed and Shift Foreman notified.

NUCLEAR POWER GENERATION
DIABLO CANYON POWER PLANT

JOB PERFORMANCE MEASURE

Number: ADMNRC-9RO

Title: PERFORM OUTAGE SAFETY CHECKLIST

Examinee: _____

Evaluator: _____ _____ _____
Print Signature Date

Results: Sat _____ Unsat _____ Total Time: _____ minutes

Comments:

References: AD8.DC55, Outage Safety Scheduling, Attach. 7.12, Rev. 11

Alternate Path: Yes _____ No X

Time Critical: Yes _____ No X

Time Allotment: 10 Minutes

Critical Steps: 2,3,4,5,6

Job Designation: RO

Task Number: G2.2.26

Rating: 2.5

AUTHOR: DAVE BURNS DATE: 2/3/2000

REVIEWED BY: N/A DATE: N/A
JPM COORDINATOR

APPROVED BY: N/A DATE: N/A
TRAINING LEADER

Directions: **No plant controls or equipment are to be operated during the performance of this Job Performance Measure**. All actions taken by the examinee should be clearly demonstrated and verbalized to the evaluator. The student will be given the initial conditions, initiating cue, and task standard. The examiner will then ask if any clarifications are needed. The examinee may be given the procedure and told the step with which to begin.

Required Materials: None

Initial Conditions: Unit 1 is currently in Mode 6 with Core Onload in progress.

Current plant parameters are as follows:

Offsite power sources:	Startup power - Operable Aux power - Cleared
Onsite power sources:	Diesel Generator 1 - Cleared Diesel Generator 2 - Operable Diesel Generator 3 - Operable
Onsite distribution system:	4kV & 480v Bus F - Operable 4kV & 480v Bus G - Operable 4kV & 480v Bus H - Cleared
Instrument AC Inverters :	IY1 - Operable IY2 - Operable IY3 - Cleared IY4 - Operable
FHB Ventilation Status:	Fan E-5 - Operable Fan E-6 - Operable
Charging Pump Status:	CCP1 - Operable CCP2 - Cleared

Initiating Cue: The Shift Foreman directs you to perform the AD8.DC55, Attachment 7.12, Mode 6 Outage Safety Checklist for Vital AC systems for the current plant conditions.

Task Standard: AD8.DC55, Attachment 7.12, Mode 6 Outage Safety Checklist for Vital AC systems completed and results given to Shift Foreman.

Start Time: _____

Step	Expected Operator Actions
1. Operator obtains the correct procedure.	1.1 Operator obtains AD8.DC55, Attachment 7.12, Mode 6 Outage Safety Checklist for Vital AC Sources. ** **Cue: Provide candidate with exam copy of Attachment 7.12** ** **Step was: Sat: _____ Unsat _____***
2. **Operator determines 4kV & 480v operability.	2.1 Operator determines 4kV & 480v buses F & G are operable an annotates check list. **Step was: Sat: _____ Unsat _____***
3. **Operator determines Instrument AC bus operability.	3.1 Operator determines that IY1, IY2 and IY4 are operable and annotates checklist. **Step was: Sat: _____ Unsat _____***
4. **Operator determines status of refueling cavity.	4.1 Operator determines that refueling cavity is greater than 23'and that List A is required and annotates checklist. **Step was: Sat: _____ Unsat _____***

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

5. **Operator determines status of offsite power sources	5.1 Operator determines that Startup Power is operable and annotates checklist. 5.2 Operator determines that Diesel Generators 2 & 3 are operable and annotates checklist. **Step was: Sat: _____ Unsat _____***
6. **Operator determines status of core alterations.	6.1 Operator determines core alterations are inprogress. 6.2 Operator determines that Diesel Gen 3, Fan E-5 and CCP 1 are operable. **Step was: Sat: _____ Unsat _____***
7. Operator reports status of Vital AC Outage Safety Checklist.	7.1 Operator reports to SFM that Vital AC Outage Safety Checklist is complete and Vital AC safety function is satisfied. **Step was: Sat: _____ Unsat _____***

Stop Time: _____

Total Time: _____ (Enter total time on the cover page)

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Initial Conditions: Unit 1 is currently in Mode 6 with Core Onload in progress.

Current plant parameters are as follows:

Offsite power sources:	Startup power - Operable Aux power - Cleared
Onsite power sources:	Diesel Generator 1 - Cleared Diesel Generator 2 - Operable Diesel Generator 3 - Operable
Onsite distribution system:	4kV & 480v Bus F - Operable 4kV & 480v Bus G - Operable 4kV & 480v Bus H - Cleared
Instrument AC Inverters :	IY1 - Operable IY2 - Operable IY3 - Cleared IY4 - Operable
FHB Ventilation Status:	Fan E-5 - Operable Fan E-6 - Operable
Charging Pump Status:	CCP1 - Operable CCP2 - Cleared

Initiating Cue: The Shift Foreman directs you to perform the AD8.DC55, Attachment 7.12, Mode 6 Outage Safety Checklist for Vital AC systems for the current plant conditions.

Task Standard: AD8.DC55, Attachment 7.12, Mode 6 Outage Safety Checklist for Vital AC systems completed and results given to Shift Foreman.

CATEGORY: A.4
TOPIC: Emergency Plan
KA: G4.4.29 (2.6)
Job Designation: RO

Reference Allowed: YES

Reference: LPE-2, Obj. 36, Pg. 29, and EP G-3, Notification of OFF-site Agencies and Emergency Response Organization Personnel, Rev 31A, Step 7.1.6 & Attach. 9.4.

QUESTION # 1:

Given the following:

- Unit 1 developed a Primary system leak of 75 gpm, Safety Injection was actuated and recovery actions are in progress.
- Unit 1 Shift Foreman declared an ALERT due to the primary leak rate.
- All off-site notifications have been completed for the ALERT Classification.
- During recovery actions the SFM escalates the Event Classification to a SITE AREA EMERGENCY due to the inability to maintain Pressurizer level greater than 4%.
- The Technical Support Center and Emergency Off-site Facility are not manned at this time.

Other than those agencies previously notified of the ALERT, what additional agency must be notified of the SITE AREA EMERGENCY?

ANSWER:

US Coast Guard (Marine Safety Office, Long Beach, Ca)

Candidate's Response: **SAT _____** **UNSAT _____**

CATEGORY: A.4
TOPIC: Emergency Plan
KA: G2.4.39 (3.3)

Reference Allowed: YES

Reference: LEP-2, Obj. 26 pg. 23, EP G-2, Activation and Operation of the Interim Site Emergency Organization (Control Room), Rev. 20, Attach. 6.2

QUESTION # 2:

What is the minimum emergency event level classification that requires activation of the SITE EMERGENCY ALARM (assuming the Interim Site Emergency Coordinator desires the normal assembly process)?

ANSWER:

ALERT

Candidate's Response: **SAT _____ UNSAT _____**

CATEGORY: A.4

QUESTION # 1:

References Allowed: YES

Given the following:

- Unit 1 developed a Primary system leak of 75 gpm, Safety Injection was actuated and recovery actions are in progress.
- Unit 1 Shift Foreman declared an ALERT due to the primary leak rate.
- All off-site notifications have been completed for the ALERT Classification.
- During recovery actions the SFM escalates the Event Classification to a SITE AREA EMERGENCY due to the inability to maintain Pressurizer level greater than 4%.
- The Technical Support Center and Emergency Off-site Facility are not manned at this time.

Other than those agencies previously notified of the ALERT, what additional agency must be notified of the SITE AREA EMERGENCY?

CATEGORY: A.1

QUESTION # 2:

References Allowed: YES

What is the minimum emergency event level classification that requires activation of the SITE EMERGENCY ALARM (assuming the Interim Site Emergency Coordinator desires the normal assembly process)?

NUCLEAR POWER GENERATION
DIABLO CANYON POWER PLANT

JOB PERFORMANCE MEASURE

Number: ADMNRC-12RO

Title: DETERMINE IF AFD IS WITHIN TECH SPEC LIMITS

Examinee: _____

Evaluator: _____ _____ _____
Print Signature Date

Results: Sat _____ Unsat _____ Total Time: _____ minutes

Comments:

References: STP I-1C, Routine Weekly Checks, Attachment 11.1, Rev. 66

Volume 9B, Curves and Miscellaneous Data, Figure R23-1F-1, 1/14/2000, Rev. 131

Alternate Path: Yes _____ No X

Time Critical: Yes _____ No X

Time Allotment: 10 Minutes

Critical Steps: 2, 4, 5, 6, 7, 8

Job Designation: RO

Task Number: G2.1.33

Rating: 3.4

AUTHOR: DAVE BURNS DATE: 2/6/2000

REVIEWED BY: N/A DATE: N/A
JPM COORDINATOR

APPROVED BY: N/A DATE: N/A
TRAINING LEADER

Directions: **No plant controls or equipment are to be operated during the performance of this Job Performance Measure**. All actions taken by the examinee should be clearly demonstrated and verbalized to the evaluator. The student will be given the initial conditions, initiating cue, and task standard. The examiner will then ask if any clarifications are needed. The examinee may be given the procedure and told the step with which to begin.

Required Materials: None

Initial Conditions: Unit 1 rapidly ramped down to due to a leak on the No. 2 Heater Drain Tank pump. Reactor power is currently stabilized at approximately 75%.

Current Axial Flux Difference(AFD) readings are as follows:

NI-41C -21.0%

NI-42C -23.0%

NI-43C -21.0%

NI-44C -21.0%

PK03-25 P250 RX ALM AXIAL FLUX/ROD POS input 1251 activated

Indicated Reactor Power based on U1169A05 is 75.2%

U4300A05 is not available.

PPC MAX is 100.2%

Initiating Cue: Shift Foreman directs you to determine if the AFD for each OPERABLE excore channel is within the AFD limits by performing STP I-1C, Routine Weekly Checks, Attachment 11.1, Step 1.

Task Standard: AFD limits for each OPERABLE excore channel determined based on initial conditions.

Start Time: _____

Step	Expected Operator Actions
1. Operator obtains correct procedure.	1.1 Operator obtains STP I-1C, Attachment 11.1. *** **Cue: Provide candidate with exam copy of STP-I-1C, Attachment 11.1.** *** **Step was: Sat: _____ Unsat _____***
2. **Determines and records present Reactor Power.	2.1 References Note 1 for determination of reactor power. 2.2 Uses U1169A05 value (75.2)/ PPC Max (100.2) x 100. 2.3 Determines RTP% to be 75% **Step was: Sat: _____ Unsat _____***
3. Operator obtains correct procedure.	3.1 Operator obtains Figure R23-1F-1 for Unit 1 from Volume 9. *** **Cue: Provide candidate with exam copy of Figure R23-1F-1.** *** **Step was: Sat: _____ Unsat _____***

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

4. **Determines and records Upper AFD Limit.	4.1 References R23-1F-1 4.2 Determines Upper AFD Limit to be +17.5%. 4.3 Records Upper AFD Limit. **Step was: Sat: _____ Unsat _____***
5. **Determines and records Lower AFD Limit.	5.1 References R23-1F-1 5.2 Determines Lower AFD Limit to be -22%. 5.3 Records Lower AFD Limit. **Step was: Sat: _____ Unsat _____***
6. **Records indicated AFD values	6.1 Records AFD values. **Step was: Sat: _____ Unsat _____***
7. **Determines if AFD is Within limits.	7.1 Determines that AFD is within limits for NIs 41C, 43C and 44C. 7.2 Determines that AFD is outside the limits for NI 42C. 7.3 Initials PERF line for section a. **Step was: Sat: _____ Unsat _____***
8. **Verifies no more than 1 excore channel exceeds AFD limits.	8.1 Initials PERF line for section b after verifying only 1 excore is exceeding the AFD limits. **Step was: Sat: _____ Unsat _____***

Stop Time: _____

Total Time: _____ (Enter total time on the cover page)

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Initial Conditions: Unit 1 rapidly ramped down to due to a leak on the No. 2 Heater Drain Tank pump. Reactor power is currently stabilized at approximately 75%.

Current Axial Flux Difference(AFD) readings are as follows:

NI-41C -21.0%

NI-42C -23.0%

NI-43C -21.0%

NI-44C -21.0%

PK03-25 P250 RX ALM AXIAL FLUX/ROD POS input 1251 activated

Indicated Reactor Power based on U1169A05 is 75.2%

U4300A05 is not available.

PPC MAX is 100.2%

Initiating Cue: Shift Foreman directs you to determine if the AFD for each OPERABLE excore channel is within the AFD limits by performing STP I-1C, Routine Weekly Checks, Attachment 11.1, Step 1.

Task Standard: AFD limits for each OPERABLE excore channel determined based on initial conditions.

NUCLEAR POWER GENERATION
DIABLO CANYON POWER PLANT

JOB PERFORMANCE MEASURE

Number: ADMNRC-13

Title: PERFORM SEALED VALVE CHECKLIST

Examinee: _____

Evaluator: _____ _____ _____
Print Signature Date

Results: Sat _____ Unsat _____ Total Time: _____ minutes

Comments: **Perform while in RCA**

References: OP K-10A1, CVCS Sealed Valve Checklist (Boric Acid Supply from Boric Acid Storage Tank to Blender Room), Attachment 9.2, Rev. 9

Alternate Path: Yes x No _____

Time Critical: Yes _____ No x

Time Allotment: 15 Minutes

Critical Steps: 3, 4, 5, 6, 7, 8, 9

Job Designation: RO/SRO

Task Number: G2.1.29

Rating: 3.4/3.3

AUTHOR: DAVE BURNS DATE: 2/16/2000

REVIEWED BY: N/A DATE: N/A
JPM COORDINATOR

APPROVED BY: N/A DATE: N/A
TRAINING LEADER

Directions: **No plant controls or equipment are to be operated during the performance of this Job Performance Measure**. All actions taken by the examinee should be clearly demonstrated and verbalized to the evaluator. The student will be given the initial conditions, initiating cue, and task standard. The examiner will then ask if any clarifications are needed. The examinee may be given the procedure and told the step with which to begin.

Required Materials: None

Initial Conditions: Unit 1 was shutdown 5 days ago to repair an MSIV. Unit 1 currently is in Mode 5. OP L-0, Mode 5 to 4 Transition Checklist is in progress.

All Unit 1 systems remained "controlled" during the MSIV repairs. No seals were removed from any systems during the mini-outage.

Initiating Cue: Unit 1 Shift Foreman directs you to perform the Independent Verification steps for OP K-10A1, CVCS Sealed Valve Checklist, Attachment 9.2 - Sealed Valve Check List for Boric Acid Supply NORMAL.

Task Standard: Independent Verification of Attachment 9.2 - Sealed Valve Check List for Boric Acid Supply NORMAL is completed and Shift Foreman informed.

Start Time: _____

Step	Expected Operator Actions
1. Operator obtains correct procedure.	1.1 Operator obtains OP K-10A1 Attachment 9.2 **Note: Provide candidate with exam copy of OP K-10A1** **Step was: Sat: _____ Unsat _____***
2. Operator reviews procedure.	2.1 Operator reviews OP K-10A1 Attachment 9.2 ** **Cue: Start with step A.6** ** **Step was: Sat: _____ Unsat _____***
3. ** Verifies position of BA Xfer Pp 1-2 suction valve.	3.1 Operator locates CVCS-1-8463A 3.2 Operator verifies valve is open and seal is installed. ** **Cue: Valve is open and seal is installed.** ** 3.3 Operator initials checklist **Step was: Sat: _____ Unsat _____***

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

4. ** Verifies position of BA Xfer Pp 1-1 suction valve.	4.1 Operator locates CVCS-1-8463B 4.2 Operator verifies valve is open and seal is installed. ************************************ **Cue: Valve is open and seal is installed.** ************************************ 4.3 Operator initials checklist **Step was: Sat: _______ Unsat _______***
5. ** Verifies position of BA Xfer Pp 1-2 discharge valve.	5.1 Operator locates CVCS-1-8460A 5.2 Operator verifies valve is open and seal is installed. ************************************ **Cue: Valve is open and seal is installed.** ************************************ 5.3 Operator initials checklist **Step was: Sat: _______ Unsat _______***
6. ** Verifies position of BA Xfer Pp 1-2 filter bypass valve.	6.1 Operator locates CVCS-1-8458A 6.2 Operator verifies valve is open and seal is installed. ************************************ **Cue: Valve is closed and seal is installed.** ************************************ 6.3 Operator initials checklist **Step was: Sat: _______ Unsat _______***

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

7. ** Verifies position of BA Xfer Pp 1-1 filter bypass valve.	7.1 Operator locates CVCS-1-8458B 7.2 Operator verifies valve is open and seal is installed. *** **Cue: Valve is closed and seal is installed.** *** 7.3 Operator initials checklist **Step was: Sat: _____ Unsat _____***
8. ** Verifies position of BA Xfer Pp Recirc BA Stg Tk 1-2	8.1 Operator locates CVCS-1-8459A 8.2 Operator verifies valve is open and seal is installed. *** **Cue: Valve is open and seal is installed.** *** 8.3 Operator initials checklist **Step was: Sat: _____ Unsat _____***

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

9. ** Verifies position of BA Xfer Pp Recirc BA Stg Tk 1-1	9.1 Operator locates CVCS-1-8459B 9.2 Operator verifies valve is open and seal is installed. ** **Cue: Valve is open and seal is MISSING** ** 9.3 Operator contacts Unit 1 SFM. *** **Cue: Inform candidate that the SFM directs him to obtain a new seal and reseal the valve.** *** 9.4 Operator locates sealing device at Auxiliary Control Board. **Note: Once seal is located at the auxiliary control board, leave seal at auxiliary control board.** 9.5 Operator returns to CVCS-1-8459B and installs seal **Step was: Sat: _____ Unsat _____***
10. Operator completes Sealed Valve checklist.	10.1 Operator prints name in appropriate location. 10.2 Operator signs attach. on sig. line. 10.3 Operator initials attach. on init line. 10.4 Operator inputs date and time. **Step was: Sat: _____ Unsat _____***

Stop Time: _____

Total Time: _____ (Enter total time on the cover page)

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Initial Conditions: Unit 1 was shutdown 5 days ago to repair an MSIV. Unit 1 currently is in Mode 5. OP L-0, Mode 5 to 4 Transition Checklist is in progress.

All Unit 1 systems remained "controlled" during the MSIV repairs. No seals were removed from any systems during the mini-outage.

Initiating Cue: Unit 1 Shift Foreman directs you to perform the Independent Verification steps for OP K-10A1, CVCS Sealed Valve Checklist, Attachment 9.2 - Sealed Valve Check List for Boric Acid Supply NORMAL.

Task Standard: Independent Verification of Attachment 9.2 - Sealed Valve Check List for Boric Acid Supply NORMAL is completed and Shift Foreman informed.

NUCLEAR POWER GENERATION
DIABLO CANYON POWER PLANT

JOB PERFORMANCE MEASURE

Number: ADMNRC-15RO

Title: REVIEW A CLEARANCE FOR TECHNICAL ACCURACY

Examinee: _____

Evaluator: _____ _____ _____
Print Signature Date

Results: Sat _____ Unsat _____ Total Time: _____ minutes

Comments:

References: Operator Valve Identification Diagram, 106703, Sheet 3

Alternate Path: Yes X No _____

Time Critical: Yes _____ No X

Time Allotment: 15 minutes

Critical Steps: 2

Job Designation: RO

K/A Number G2.2.13

Rating 3.6

AUTHOR: DAVE BURNS DATE: 2/6/2000

REVIEWED BY: N/A DATE: N/A
JPM COORDINATOR

APPROVED BY: N/A DATE: N/A
TRAINING LEADER

Directions: **No plant controls or equipment are to be operated during the performance of this Job Performance Measure**. All actions taken by the examinee should be clearly demonstrated and verbalized to the evaluator. The student will be given the initial conditions, initiating cue, and task standard. The examiner will then ask if any clarifications are needed. The examinee may be given the procedure and told the step with which to begin.

Required Materials: Clearance NBR: 63858, "AFW Pp 2-2 Motor PMs & Oil Sample"

Initial Conditions: Unit 1 is 100% power, steady state.

Initiating Cue: Perform a review of all clearance points on Clearance NBR: 63858, AFW Pp 2-2 Motor PMs & Oil Sample, for technical errors.

Task Standard: Find and correct three (3) technical clearance errors within the clearance points.

Start Time: __________

Step	Expected Operator Actions
1. Obtain the correct reference material.	************************************ **Cue: Provide operator with clearance sheet.** ************************************ 1.1 Operator selects Operator Valve Identification Diagram (OVID). 1.2 Selects Section 106703, Sheet 3. **Note: Operator may obtain valve and breaker number using optional reference material.** **Note: Clearance Legend** **TAGS:** **MAN-ON-LINE (M)** **CAUTION (C)** **CONTROL BOARD (CBC)** **POSITIONS:** **RACKED OUT (RO)** **RACKED IN (RI)** **CLOSED (CL)** **OPEN (OP)** **OPEN & UNCAPPED (OPU)** **Step was: Sat: _______ Unsat _______***

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

2. **Identify AFW Pp 2-2 Motor PMs & Oil Sample clearance errors.	2.1 Determines point #3 tag should be a MAN-ON-LINE (M) tag. 2.2 Determines point #4 FW-2-169 Position should be CLOSED (CL) 2.3 Determines point #6 valve FW-2-191 should be FW-2-173 for AFW Pp 2-2 **Step was: Sat: _____ Unsat _____***

Stop Time: _____

Total Time: _____ (Enter total time on the cover page)

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Initial Conditions: Unit 1 is 100% power, steady state.

Initiating Cue: Perform a review of all clearance points on Clearance NBR: 63858, AFW Pp 2-2 Motor PMs & Oil Sample, for technical errors.

Task Standard: Find and correct three (3) technical clearance errors within the clearance points.

NUCLEAR POWER GENERATION
DIABLO CANYON POWER PLANT

JOB PERFORMANCE MEASURE

Number: ADMNRC-16RO

Title: TERMINATION OF LIQUID RADWASTE RELEASE

Examinee: _____

Evaluator: _____ _____ _____
Print Signature Date

Results: Sat _____ Unsat _____ Total Time: _____ minutes

Comments:

References: OP G-1:II, Liquid Radwaste System - Processing and Discharge of Liquid Radwaste, Rev. 30

Alternate Path: Yes X No _____

Time Critical: Yes _____ No X

Time Allotment: 10 Minutes

Critical Steps: 2, 3

Job Designation: RO

Task Number: G2.3.11

Rating: 2.7

AUTHOR:	DAVE BURNS	DATE:	2/7/2000
REVIEWED BY:	N/A JPM COORDINATOR	DATE:	N/A
APPROVED BY:	N/A TRAINING LEADER	DATE:	N/A

Directions: **No plant controls or equipment are to be operated during the performance of this Job Performance Measure**. All actions taken by the examinee should be clearly demonstrated and verbalized to the evaluator. The student will be given the initial conditions, initiating cue, and task standard. The examiner will then ask if any clarifications are needed. The examinee may be given the procedure and told the step with which to begin.

Required Materials: None

Initial Conditions: Processed Waste Receiver 0-1 is being discharged per step 6.16 of OP G-1:II, Liquid Radwaste System - Processing and Discharge of Liquid Radwaste.

Initiating Cue: Unit 1 Control Operator is responding to PK11-21, High Radiation and determines that RE-18 has a valid alarm. Unit 1 Shift Foreman directs you to verify that the liquid radwaste release is terminated.

Task Standard: Liquid Radwaste Discharge is terminated and Shift Foreman is informed.

Start Time: _____

Step	Expected Operator Actions
1. Operator obtains correct procedure.	1.1 Operator obtains OP G-1:II **Note: Provide candidate with exam copy of OP G-1:II.** **Step was: Sat: _____ Unsat _____***
2. **Operator determines status of Liquid Radwaste Release.	2.1 Operator checks position of 0-RCV-18. ********** **Cue: 0-RCV-18 is open** ********** 2.2 Operator checks position of 0-FCV-477 ********** **Cue: 0-FCV-477 is closed** ********** 2.3 Operator checks position of 0-FCV-647 (Key Lock Switch) ********** **Cue: 0-FCV-647 is Open with key** ********** 2.4 Operator checks status of PWR 0-1 pump. ********** **Cue: PWR 0-1 Pump is running** ********** 2.5 Operator determines LRW discharge is in progress. **Step was: Sat: _____ Unsat _____***

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

3. **Operator terminates Liquid Radwaste Release.	**Note: Any one of the following 3 steps will satisfy the critical task to terminate the discharge.**
	3.1 Operator stops PWR 0-1 pump.
	3.2 Verifies Red light off, Green light on.
	********** **Cue: PWR 0-1 pump is off.** **********
	3.3 Operator places HIC-647 demand to Zero.
	********** **Cue: HIC-647 demand is at zero** **********
	3.4 Operator removes key from keylock switch for 0-FCV-647.
	3.5 Operator verifies 0-FCV-647 is closed, red light off, green light on.
	********** **Cue: 0-FCV-647 is closed** **********
	Step was: Sat: _____ Unsat _____*
4. Operator informs SFM	4.1 Operator informs Shift Foreman that Discharge is isolated and failure of 0-RCV-18 to close on High Radiation.
	Step was: Sat: _____ Unsat _____*

Stop Time: _____

Total Time: _____ (Enter total time on the cover page)

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Initial Conditions: Processed Waste Receiver 0-1 is being discharged per step 6.16 of OP G-1:II, Liquid Radwaste System - Processing and Discharge of Liquid Radwaste.

Initiating Cue: Unit 1 Control Operator is responding to PK11-21, High Radiation and determines that RE-18 has a valid alarm. Unit 1 Shift Foreman directs you to verify that the liquid radwaste release is terminated.

Task Standard: Liquid Radwaste Discharge is terminated and Shift Foreman is informed.

CATEGORY: A.4
TOPIC: Emergency Plan
KA: G2.4.42 (2.3)
Job Designation: RO

Reference Allowed: YES

Reference: LPE-2, Obj. 9, Pg. 23, and EP G-2, Activation and Operation of the Interim Site Emergency Organization (Control Room), Rev. 20, Attach. 6.2

QUESTION # 1:

According to the Diablo Canyon Emergency Plan, What is the minimum (lowest severity) emergency classification that requires the activation of the Technical Support Center (TSC) and the Operational Support Center (OSC)?

ANSWER:

Alert level

Candidate's Response: **SAT _____ UNSAT _____**

CATEGORY: A.4
TOPIC: Emergency Plan
KA: G2.4.29 (2.6)
Job Designation: RO

Reference Allowed: YES

Reference: LEP-2, Obj. 5 pg. 29, EP G-3, Notification of OFF-site Agencies and Emergency Response Organization Personnel, Rev 31A, Step 2.1.b.

QUESTION # 2:

Given the following:

- Unit 1 operators diagnose a 30gpm RCS leak at 0900.
- Shift Supervisor declares an Notification of Unusual Event (NUE) at 0910.
- Initial Notifications to SLO County and the State have been completed at 0915.
- Shift Supervisor upgrades event to an Alert at 0920 due to leak rate greater than 50 gpm.

Based on the above conditions and information, what is the maximum time that the NRC can be notified of the event?

ANSWER:

1010

NOTE: NRC must be notified within one hour of initial declaration.

Candidate's Response: **SAT _____ UNSAT _____**

CATEGORY: A.1

QUESTION # 1:

References Allowed: YES

According to the Diablo Canyon Emergency Plan, What is the minimum (lowest severity) emergency classification that requires the activation of the Technical Support Center (TSC) and the Operational Support Center (OSC)?

CATEGORY: A.1

QUESTION # 2:

References Allowed: Yes

Given the following:

- Unit 1 operators diagnose a 30gpm RCS leak at 0900.
- Shift Supervisor declares an Notification of Unusual Event (NUE) at 0910.
- Initial Notifications to SLO County and the State have been completed at 0915.
- Shift Supervisor upgrades event to an Alert at 0920 due to leak rate greater than 50 gpm.

Based on the above conditions and information, what is the maximum time that the NRC can be notified of the event?

Facility: DCPP Date of Examination: 4/10/2000

Examination Level (circle one): RO / SRO Operating Test Number: 1

Administrative Topic/Subject Description		Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions
A.1	Parameter Verification	ADMNRC-1RO, Determine if RIL has been exceeded (JPM) ADMNRC-1SRO, Determine if RIL has been exceeded (JPM)
	Fuel Handling	ADMNRC-2RO, Determine SFP Heat Load/Removal Parameters (JPM) ADMNRC-2SRO, Verification of Determination of SFP Heat Load/Removal Parameters (JPM)
A.2	Maintenance	ADMNRC-3SRO, Perform online Risk Assessment (JPM)
	Tagging & Clearances	ADMNRC-4RO, Re-verify Active Master Clearance - GDT on Hold (JPM)
A.3	Radiation Control	ADMNRC-5, Entry into a locked High Radiation Area (JPM) RO/SRO
A.4	Emergency Plan	ADMNRC-6SRO, Determine event classification and complete notification form. (JPM)
		Escort Requirement with an Alert. Question - RO Who can communicate with NRC. Question - RO

Facility: DCPP Date of Examination: 4/10/2000

Examination Level (circle one): RO / SRO Operating Test Number: 2

Administrative Topic/Subject Description		Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions
A.1	Parameter Verification	ADMNRC-7RO, Determine Ultimate Heat Sink temperature. (JPM) ADMNRC-7SRO, Verify a determination of Ultimate Heat Sink temperature. (JPM)
	Mode Changes	ADMNRC-8, Perform Transfer Switch alignment for common equipment. (JPM) RO/SRO
A.2	Maintenance	ADMNRC-9RO, Perform Outage Safety Checklist. (JPM) ADMNRC-9SRO, Verify Outage Safety Checklist. (JPM)
A.3	Radiation Control	ADMNRC-10RO, Perform personnel frisk upon exiting SCA
	Exposure Limits	Determine individuals TEDE for current year. Question - SRO Determine type of radiation permit for given task. Question - SRO
A.4	Emergency Plan	ADMNRC-11SRO, Classify and Recommend PARS based on accident classification (JPM)
		When USCG is notified of Emergency Events. Question - RO Activation of Site Emergency signal. Question - RO

Facility: DCPP Date of Examination: 4/10/2000

Examination Level (circle one): RO / SRO Operating Test Number: 3

Administrative Topic/Subject Description		Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions
A.1	Parameter Verification	ADMNRC-12RO, Determine if AFD is within Tech Spec Limits (JPM) ADMNRC-12SRO, Verify AFD is within Tech Spec Limits (JPM)
	Mode Change	ADMNRC-13, Performance of sealed valve checklist (JPM) - SRO/RO
A.2	Maintenance	ADMNRC-14SRO, Review AP-5 Bistable Trip Authorization form. (JPM)
	Tagging & Clearances	ADMNRC-15RO, Review a clearance for technical accuracy. (JPM)
A.3	Radiation Control	ADMNRC-16RO, Termination of a Liquid Radwaste Release. (JPM)
	Exposure Limits	Perform Dose calculation based on dose history and expected stay time in High High radiation area. Question - SRO Who can authorize an emergency exposure. Question - SRO
A.4	Emergency Plan	ADMNRC-17SRO, Perform Off-site Dose Assessment - GDT rupture (JPM)
		Lowest event classification for TSC activation. Question - RO Time to notify the NRC of classification change. Question - RO

NUCLEAR POWER GENERATION
DIABLO CANYON POWER PLANT

JOB PERFORMANCE MEASURE

Number: ADMNRC-1SRO

Title: DETERMINE IF ROD INSERTION LIMIT (RIL) HAS BEEN EXCEEDED

Examinee: _____

Evaluator: _____ _____ _____
Print Signature Date

Results: Sat _____ Unsat _____ Total Time: _____ minutes

Comments:

References: STP I-1A, Routine Shift Checks Required by Licenses, Attachment 11.1, Rev. 78

COLR for DCPP Unit 1 Cycle 10, Rev. 0

Technical Specifications, DCPP Units 1 & 2

Alternate Path: Yes _____ No X

Time Critical: Yes _____ No X

Time Allotment: 10 Minutes

Critical Steps: 3, 5, 6, 7

Job Designation: SRO

Task Number: G2.1.25

Rating: 3.1

AUTHOR:	DAVE BURNS	DATE:	2/1/2000
REVIEWED BY:	N/A JPM COORDINATOR	DATE:	N/A
APPROVED BY:	N/A TRAINING LEADER	DATE:	N/A

Directions: **No plant controls or equipment are to be operated during the performance of this Job Performance Measure**. All actions taken by the examinee should be clearly demonstrated and verbalized to the evaluator. The student will be given the initial conditions, initiating cue, and task standard. The examiner will then ask if any clarifications are needed. The examinee may be given the procedure and told the step with which to begin.

Required Materials: None

Initial Conditions: Unit 1 was ramped down due to problems with Circulating Water Pump 1-2, Reactor power is now stabilized at approximately 50%.

Current NI readings are as follows:

NI-41B	49.5 %
NI-42B	50.5 %
NI-43B	51.0 %
NI-44B	49.0 %

Current Control Bank Step Counters:

	CB-A	CB-B	CB-C	CB-D
Group 1	225	225	178	50
Group 2	225	225	178	50

Initiating Cue: Determine if the Rod Insertion Limits for Unit 1 are satisfied, using STP I-1A, Routine Shift Checks Required by Licenses, Attachment 11.1, Step 14. Additionally determine the most limiting Tech Spec Action(s) based on your determination, if required.

Task Standard: Rod Insertion Limits determined based on given information and determine the most limiting Tech Spec Action(s) if required.

Start Time: _____

Step	Expected Operator Actions
1. Operator obtains correct procedure	1.1 Operator obtains STP I-1A, Attachment 11.1 ** **Cue: Provide candidate with exam copy of STP I-1A, Attachment 11.1** ** **Step was: Sat: _____ Unsat _____***
2. Operator obtains correct procedure	2.1 Operator obtains COLR for Unit 1 cycle 10, Figure 1. ** **Cue: Provide candidate with exam copy of COLR for Unit 1 cycle 10, Figure 1.** ** **Step was: Sat: _____ Unsat _____***
3. **Records Present thermal power level.	3.1 Determines present power level to be average of power ranges - 50% 3.2 Records present thermal power level on STP I-1A Data Sheet - 50% **Step was: Sat: _____ Unsat _____***

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

4. Records Insertion limit	4.1 Determines insertion limit for current power level is Bank D at 53 Steps. 4.2 Records Insertion limit on STP I-1A Data Sheet - Bank D at 53 Steps **Step was: Sat: _____ Unsat _____***
5. **Determines Rod Insertion Limit is currently being exceeded.	5.1 Determines that RIL is currently being exceeded on Control Bank D which is at 50 steps. 5.2 Notifies SFM the RIL is currently being exceeded. **Step was: Sat: _____ Unsat _____***
6. **References Tech. Spec. actions based on Rods being below the RIL for current power level.	6.1 References the following Tech Specs: • 4.1.1.1.1.b - Shutdown Margin • 3.1.3.6 - Control Rod Insertion limits • 4.1.3.6 - Control Rod Insertion limits **Step was: Sat: _____ Unsat _____***
7. **Determine most limiting Tech Spec.	7.1 Operator determines the most limiting Tech Spec is 3.1.3.6 with 2 hours to restore rods above RIL. **Step was: Sat: _____ Unsat _____***

Stop Time: _____

Total Time: _____ (Enter total time on the cover page)

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Initial Conditions: Unit 1 was ramped down due to problems with Circulating Water Pump 1-2, Reactor power is now stabilized at approximately 50%.

Current NI readings are as follows:

NI-41B	49.5 %
NI-42B	50.5 %
NI-43B	51.0 %
NI-44B	49.0 %

Current Control Bank Step Counters:

	CB-A	CB-B	CB-C	CB-D
Group 1	225	225	178	50
Group 2	225	225	178	50

Initiating Cue: Determine if the Rod Insertion Limits for Unit 1 are satisfied, using STP I-1A, Routine Shift Checks Required by Licenses, Attachment 11.1, Step 14. Additionally determine the most limiting Tech Spec Action(s) based on your determination, if required.

Task Standard: Rod Insertion Limits determined based on given information and determine the most limiting Tech Spec Action(s) if required.

NUCLEAR POWER GENERATION
DIABLO CANYON POWER PLANT

JOB PERFORMANCE MEASURE

Number: ADMNRC-2SRO

Title: VERIFICATION OF DETERMINATION OF SPENT FUEL POOL HEAT LOAD/REMOVAL PARAMETERS

Examinee: _____

Evaluator: _____ _____ _____
Print Signature Date

Results: Sat _____ Unsat _____ Total Time: _____ minutes

Comments:

References: OP B-8DS1, Core Loading, Attachment 9.3, Rev. 25

Alternate Path: Yes X No _____

Time Critical: Yes _____ No X

Time Allotment: 10 Minutes

Critical Steps: 3, 5

Job Designation: SRO

Task Number: G2.1.23

Rating: 4.0

AUTHOR: DAVE BURNS DATE: 2/14/2000

REVIEWED BY: N/A DATE: N/A
JPM COORDINATOR

APPROVED BY: N/A DATE: N/A
TRAINING LEADER

Directions: **No plant controls or equipment are to be operated during the performance of this Job Performance Measure**. All actions taken by the examinee should be clearly demonstrated and verbalized to the evaluator. The student will be given the initial conditions, initiating cue, and task standard. The examiner will then ask if any clarifications are needed. The examinee may be given the procedure and told the step with which to begin.

Required Materials: None

Initial Conditions: Unit 1 is currently in Mode 6 with fuel offload in progress during 1R11.

Current Plant parameters are as follows:

- Mode 3 was entered 6 days ago at 1500
- Current time is 1500
- 188 fuel assemblies have been offloaded to the spent fuel pool
- CCW flow rate on FI-197 is 3200 gpm
- CCW Heat exchanger outlet temperatures are : TI-181 - 72°F
  TI-182 - 75°F
- Spent Fuel Pool Pump 1-2 D/P is 38 psid
- Spent Fuel Pool Temperature is 124°F
- Fuel assembly being moved from core location to cavity upender.

Unit 1 Control Operator has just completed Attachment 9.3 of OP B-8DS1, "Core Unloading" verification of Spent Fuel Pool Heat Load/Removal parameters.

Initiating Cue: Perform a verification of the completed attachment 9.3 and determine if any corrective action(s) are required based on your review.

Task Standard: Attachment 9.3 of OP B-8DS1, "Core Unloading" verified and required action(s) determined if required.

Start Time: _____

Step	Expected Operator Actions
1. Operator obtains the correct procedure.	1.1 Operator reviews OP B-8DS1, Attachment 9.3. *** **Cue: Provide candidate with exam copy of completed Attachment 9.3.** *** **Step was: Sat: _____ Unsat _____***
2. Verifies Mode 3 Entry, date & time.	2.1 Operator verifies Mode 3 entry date and time and checks on data sheet. **Note: Should use 6 days ago from current time and date.** **Step was: Sat: _____ Unsat _____***
3. **Verifies current offload status.	3.1 Verifies that 144 hours have elapsed from start of core offload and checks data sheet. 3.2 Verifies that number of fuel assemblies offloaded is 188 and checks data sheet. 3.3 Verifies that elapsed time and number of assemblies removed is within the UNACCEPTABLE area of chart. 3.4 Determines that YES box was checked incorrectly. **Step was: Sat: _____ Unsat _____***

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

4. Verifies Spent Fuel Pool Cooling System Status.	4.1 Verifies CCW flow rate from FI-197 is 3200 gpm and checks data sheet. 4.2 Verifies that CCW flowrate is acceptable and checks data sheet. 4.3 Verifies that the CCW Heat Exchanger Outlet Temperatures are 72°F on TI-181 and 75°F on TI-182 and checks data sheet. 4.4 Verifies that CCW Heat Exchanger Outlet Temperature is acceptable and checks that YES box is marked. 4.5 Verifies that SFP Pump 1-2 D/P is 38 psid and checks data sheet. 4.6 Verifies that SFP Pump 1-2 D/P is acceptable and checks that YES box is marked. 4.7 Verifies that Spent Fuel Pool Temperature is 124°F. 4.8 Determines that the Spent Fuel Pool temperature is acceptable and checks that YES box is marked. **Step was: Sat: _____ Unsat _____***
5. **Determines effect of findings on current Core Unload.	5.1 Determines that step 2 is unsat and that step 4 applies. 5.2 Determines Fuel Handling SRO should be notified to halt core offload after completion of current fuel move. **Step was: Sat: _____ Unsat _____***

Stop Time: _____

Total Time: _____ (Enter total time on the cover page)

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Initial Conditions: Unit 1 is currently in Mode 6 with fuel offload in progress during 1R11.

Current Plant parameters are as follows:

- Mode 3 was entered 6 days ago at 1500
- Current time is 1500
- 188 fuel assemblies have been offloaded to the spent fuel pool
- CCW flow rate on FI-197 is 3200 gpm
- CCW Heat exchanger outlet temperatures are : TI-181 - 72°F
  TI-182 - 75°F
- Spent Fuel Pool Pump 1-2 D/P is 38 psid
- Spent Fuel Pool Temperature is 124°F
- Fuel assembly being moved from core location to cavity upender.

Unit 1 Control Operator has just completed Attachment 9.3 of OP B-8DS1, "Core Unloading" verification of Spent Fuel Pool Heat Load/Removal parameters.

Initiating Cue: Perform a verification of the completed attachment 9.3 and determine if any corrective action(s) are required based on your review.

Task Standard: Attachment 9.3 of OP B-8DS1, "Core Unloading" verified and required action(s) determined if required.

NUCLEAR POWER GENERATION
DIABLO CANYON POWER PLANT

JOB PERFORMANCE MEASURE

Number: ADMNRC-3SRO

Title: PERFORM RISK ASSESSMENT FOR OOS COMPONETS

Examinee: _____

Evaluator: _____ _____ _____
Print Signature Date

Results: Sat _____ Unsat _____ Total Time: _____ minutes

Comments: Requires computer with access to OLM.EXE program (J:OLM/OLM.EXE)

References: AD7.DC6, On-line Maintenance Risk Assessment

Alternate Path: Yes _____ No X

Time Critical: Yes _____ No X

Time Allotment: 10 Minutes

Critical Steps: 2, 3, 4, 5, 6

Job Designation: SRO

Task Number: G.2.17

Rating: 3.5

AUTHOR: DAVE BURNS DATE: 2/1/2000

REVIEWED BY: N/A DATE: N/A
JPM COORDINATOR

APPROVED BY: N/A DATE: N/A
TRAINING LEADER

Directions: **No plant controls or equipment are to be operated during the performance of this Job Performance Measure**. All actions taken by the examinee should be clearly demonstrated and verbalized to the evaluator. The student will be given the initial conditions, initiating cue, and task standard. The examiner will then ask if any clarifications are needed. The examinee may be given the procedure and told the step with which to begin.

Required Materials: Computer with access to OLM.EXE program (J:OLM/OLM.EXE)

Initial Conditions: Unit 1 is at 100% power. RHR Pp 1-1 is currently 2 hours into an 8 hour maintenance activity (Lube Oil change out) and is the only out of service component on Unit 1.

Initiating Cue: STA reports that following a review of the surveillance test for PORV PCV-456, that the valve may have failed to meet it's stroke time. Using the On-line Risk assessment computer program (OLM.EXE) and AD7.DC6, "On-line Maintenance Risk Assessment" attachment 9.13 perform and print out a new Risk Assessment based on the PORV being inoperable. Additionally determine if any notifications are required based on the outcome of the risk assessment.

Task Standard: Risk assessment performed and printed out using the On-line Risk Assessment computer program (OLM.EXE) and any required notifications identified.

Start Time: _____

Step	Expected Operator Actions
1. Operator references correct procedure.	1.1 Operator obtains and reviews AD7.DC6, Attachment 9.13 *** **Cue: Provide candidate with exam copy of AD7.DC6, Attachment 9.13** *** **Step was: Sat: _____ Unsat _____***
2. **Operator locates and starts OLM program.	2.1 Operator locates ICON for OLM program and starts program. **Step was: Sat: _____ Unsat _____***
3. **Operator selects Out of Service components.	3.1 Operator selects RHR Pp 1-1 3.2 Operator selects PORV PCV-456 **Step was: Sat: _____ Unsat _____***

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

4. **Operator Prints out new attachment 9.13	4.1 Selects file, print attach.9.13 from menu bar 4.2 Selects Unit 1 for applicable unit. 4.3 Selects 8 for scheduled Out of Service time. 4.4 Fills in name for evaluation performed by: 4.5 Fills in "OIL CHANGE OUT" for RHR Pp 1-1 reason for out of service. 4.6 Fills in "FAILED STP" for PORV PCV-456 reason for out of service. 4.7 May leave document actions taken blank (not required) - None Required 4.8 Selects OK button when all fields are completed. **Step was: Sat: _____ Unsat _____***
5. **Determines KSF score	5.1 Determines KSF score of 10 is greater than 8. **Step was: Sat: _____ Unsat _____***
6. **Determines Required Notifications	6.1 Determines that OPS Superintendent or higher notification is required. **Step was: Sat: _____ Unsat _____***

Stop Time: _____

Total Time: _____ (Enter total time on the cover page)

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Initial Conditions:	Unit 1 is at 100% power. RHR Pp 1-1 is currently 2 hours into an 8 hour maintenance activity (Lube Oil change out) and is the only out of service component on Unit 1.
Initiating Cue:	STA reports that following a review of the surveillance test for PORV PCV-456, that the valve may have failed to meet it's stroke time. Using the On-line Risk assessment computer program (OLM.EXE) and AD7.DC6, "On-line Maintenance Risk Assessment" attachment 9.13 perform and print out a new Risk Assessment based on the PORV being inoperable. Additionally determine if any notifications are required based on the outcome of the risk assessment.
Task Standard:	Risk assessment performed and printed out using the On-line Risk Assessment computer program (OLM.EXE) and any required notifications identified.

NUCLEAR POWER GENERATION
DIABLO CANYON POWER PLANT

JOB PERFORMANCE MEASURE

Number: ADMNRC-5

Title: ENTRY INTO A LOCKED HIGH RADIATION AREA

Examinee: _____

Evaluator: _____ _____ _____
Print Signature Date

Results: Sat _____ Unsat _____ Total Time: _____ minutes

Comments: The Access Senior should be briefed ahead of time and informed that actual entry into the area will not be required and that the student will be stopped at the door to the Letdown heat exchanger rooms.

References: RCP D-220, Control of Access To High, High-High and Very High Radiation Areas, Rev. 12 (do not give this to the student).

OP AP-9, Loss of Instrument Air, Rev. 18.

Alternate Path: Yes _____ No X

Time Critical: Yes _____ No X

Time Allotment: 15 minutes

Critical Steps: 1, 2, 3

Job Designation: RO/SRO

K/A Number: G2.3.1(2.6/3.0)

AUTHOR: DAVE BURNS DATE: 2/2/2000

REVIEWED BY: N/A DATE: N/A
JPM COORDINATOR

APPROVED BY: N/A DATE: N/A
TRAINING LEADER

Directions: **No plant controls or equipment are to be operated during the performance of this Job Performance Measure**. All actions taken by the examinee should be clearly demonstrated and verbalized to the evaluator. The student will be given the initial conditions, initiating cue, and task standard. The examiner will then ask if any clarifications are needed. The examinee may be given the procedure and told the step with which to begin.

Required Materials: None

Initial Conditions: Unit 2 Reactor Tripped due to a loss of Instrument Air. SFM is directing actions from Appendix B of OP AP-9, Loss of Instrument Air.

Initiating Cue: The Unit 2 SFM directs you to enter the Letdown Heat Exchanger room in preparation for locally positioning PCV-135 outlet isolation valve CVCS-2- 8408B to 50% per Step 2c, Check Letdown in service RNO of OP AP-9.

Task Standard: Entry into Letdown heat exchanger room completed.

Start Time: _____

Step	Expected Operator Actions
1. **Enters the RCA	1.1 Operator checks Area maps at Access Control to determine radiation levels at the Letdown heat exchanger room. 1.2 Obtains PED 1.3 Logs into RCA on Operations RWP. **Note: Only steps 1.2 and 1.3 are necessary to complete the critical step.** **Step was: Sat: _____ Unsat _____***
2. **Determines entry into a locked high radiation area is required.	2.1 Operator determines he needs to enter a locked high radiation area by either performing step 1.1 (above) or by observing the signs posted at the Letdown heat exchanger room. 2.2 Informs Access Senior of his need to enter a locked high radiation area. **Step was: Sat: _____ Unsat _____***
3. **Tailboards entry into the Letdown heat exchanger room.	3.1 Operator ensures he meets the radiation monitoring requirements for entry into the Letdown heat exchanger room as directed by the Access Senior. 3.2 Obtains pink "HRA" ID badge. (NOT part of critical step.) 3.3 Obtains key to the Letdown heat exchanger rooms.

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

	Note: The Access Senior may decide to send a RP tech with the operator to unlock the door and perform radiation monitoring functions.
	Step was: Sat: _____ Unsat _____*
4. Enters Letdown heat exchanger room.	4.1 Operator locates the door to the Letdown heat exchanger room.
	4.2 Prepares to unlock the door.
	**********
	Cue: The JPM is complete, entry into the Letdown heat exchanger rooms is NOT required.
	**********
	Step was: Sat: _____ Unsat _____*

Stop Time: _____

Total Time: _____ (Enter total time on the cover page)

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Initial Conditions: Unit 2 Reactor Tripped due to a loss of Instrument Air. SFM is directing actions from Appendix B of OP AP-9, Loss of Instrument Air.

Initiating Cue: The Unit 2 SFM directs you to enter the Letdown Heat Exchanger room in preparation for locally positioning PCV-135 outlet isolation valve CVCS-2- 8408B to 50% per Step 2c, Check Letdown in service RNO of OP AP-9.

Task Standard: Entry into Letdown heat exchanger room completed.

NUCLEAR POWER GENERATION
DIABLO CANYON POWER PLANT

JOB PERFORMANCE MEASURE

Number: ADMNRC-6SRO

Title: DETERMINE EVENT CLASSIFICATION AND COMPLETE NOTIFICATION FORM

Examinee: _____

Evaluator: _____ _____ _____
Print Signature Date

Results: Sat _____ Unsat _____ Total Time: _____ minutes

Comments:

References: EP G-1, Emergency Classification and Emergency Plan Activation, Rev 28

EP G-3, Notification of Off-site Agencies and Emergency Response Organization Personnel, Rev. 31A

Alternate Path: Yes _____ No X

Time Critical: Yes _____ No X

Time Allotment: 5 minutes

Critical Step: 1, 3

Job Designation: SRO

Task Number: G2.4.41

Rating: 4.1

AUTHOR: DAVE BURNS DATE: 2/15/2000

REVIEWED BY: N/A DATE: N/A
JPM COORDINATOR

APPROVED BY: N/A DATE: N/A
TRAINING LEADER

Directions: **No plant controls or equipment are to be operated during the performance of this Job Performance Measure**. All actions taken by the examinee should be clearly demonstrated and verbalized to the evaluator. The student will be given the initial conditions, initiating cue, and task standard. The examiner will then ask if any clarifications are needed. After identifying the appropriate procedure for the task, the examinee may be given the procedure and told the step with which to begin.

Required Materials: None

Initial Conditions: Unit 1 is at 100% power. The BOPCO reports that radiation monitor RE-18 is in alarm. Further investigation by the BOPCO reveals that the Auxiliary Building Nuclear Operator had to manually stop the Liquid Radwaste discharge, due to a failure of the automatic isolation system.

Initiating Cue: Determine the event classification and complete Attachment 9.3 of EP G-3, DCPP Event Notification Form.

Task Standard: Event classification determined and Attachment 9.3 of EP G-3, DCPP Event Notification Form, completed.

Start Time: _____

Step	Expected Operator Actions
1. **Determine event classification	1.1 Obtains the correct procedure 1.2 References to EP G-1 Attachment 7.2 1.3 Determines that event classification is NUE - #5 **Step was: Sat: _____ Unsat _____***
2. Locates DCPP event notification form.	2.1 Locates Attachment 9.3 of EP G-3 **Note: Provide Candidate with exam copy of EP G-3 Attachment 9.3.** **Step was: Sat: _____ Unsat: _____***

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

3. **Completes Attach. 9.3 of EP G-3.	3.1 Operator enters "1" in Unit # Box.
	3.2 Operator enters "today's date" in Date Box.
	3.3 Operator enters "current time" and circles "Declared" in Time Box.
	3.4 Operator enters "1" in Notification # Box.
	3.5 Operator checks "Initial" box for Notification Type box.
	3.6 Operator checks "Unusual Event" block in classification box.
	3.7 Operator checks "NO" boxes in the "Assistance to be Requested" block..
	Note: If asked - no Off-site assistance is needed at this time.
	3.8 Operator checks "Plant Equipment Failure" and specifies RE-18 auto isolation in "What Happened?" box.
	Note: May use "Other" box.
	3.9 Operator provides short written summary of event in "Written Summary" Box.
	Note: Written summary should be short explanation of event - see answer key for example.

Step was: Sat: _____ Unsat: _____*

Stop Time: _____

Total Time: _____ (Enter total time on the cover page)

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Initial Conditions: Unit 1 is at 100% power. The BOPCO reports that radiation monitor RE-18 is in alarm. Further investigation by the BOPCO reveals that the Auxiliary Building Nuclear Operator had to manually stop the Liquid Radwaste discharge, due to a failure of the automatic isolation system.

Initiating Cue: Determine the event classification and complete Attachment 9.3 of EP G-3, DCPP Event Notification Form.

Task Standard: Event classification determined and Attachment 9.3 of EP G-3, DCPP Event Notification Form, completed.

NUCLEAR POWER GENERATION
DIABLO CANYON POWER PLANT

JOB PERFORMANCE MEASURE

Number: ADMNRC-7SRO

Title: VERIFY A DETERMINATION OF ULTIMATE HEAT SINK TEMPERATURE

Examinee: _____

Evaluator: _____ _____ _____
Print Signature Date

Results: Sat _____ Unsat _____ Total Time: _____ minutes

Comments:

References: STP I-1A, Routine Shift Checks Required by Licenses, Attachment 11.1, Rev. 78

Technical Specifications, DCPP Units 1 & 2

Alternate Path: Yes X No _____

Time Critical: Yes _____ No X

Time Allotment: 10 Minutes

Critical Steps: 3, 5, 6

Job Designation: SRO

Task Number: G2.1.23

Rating: 4.0

AUTHOR:	DAVE BURNS	DATE:	2/15/2000
REVIEWED BY:	N/A JPM COORDINATOR	DATE:	N/A
APPROVED BY:	N/A TRAINING LEADER	DATE:	N/A

Directions: **No plant controls or equipment are to be operated during the performance of this Job Performance Measure**. All actions taken by the examinee should be clearly demonstrated and verbalized to the evaluator. The student will be given the initial conditions, initiating cue, and task standard. The examiner will then ask if any clarifications are needed. The examinee may be given the procedure and told the step with which to begin.

Required Materials: None

Initial Conditions: Unit 1 is at 50% power with CWP 1-2 out of service for replacement of damaged screens. Unit 2 is in day 14 of a refueling outage.

Current plant conditions for the Circ Water and ASW systems are as follows:

Component	Status	Current Ocean Water Temperature	
CWP 1-1	In-service	TI-311	61°F
CWP 1-2	Cleared	TI-328	61°F
ASW Pp 1-1	In-service to CCW HX 1-1	TI-1484	61.5°F
ASW Pp 1-2	In-STBY	TI-1485	60°F
CWP 2-1	Cleared	TI-311	61°F
CWP 2-1	Cleared	TI-328	61°F
ASW Pp 2-1	In-service to CCW HX 2-1	TI-1484	62°F
ASW Pp 2-2	Cleared	TI-1485	61°F

Initiating Cue: Unit 1 BOPCO has just completed STP I-1A, Routine Shift Checks Required by Licenses, Attachment 11.1, Step 39.

BOPCO has determined that the Ultimate Heat Sink Temperature is satisfactory for the given conditions.

Review the completed STP data sheet and determine if his assessment is correct and implement any actions needed based on your review.

Task Standard: STP I-1A, Routine Shift Checks Required by Licenses, Attachment 11.1, Step 39 reviewed for completeness and any actions implemented based on your review.

Start Time: _____

Step	Expected Operator Actions
1. Operator obtains correct procedure	1.1 Operator obtains completed STP I-1A, Attachment 11.1, Pages 10-12 *** **Cue: Provide candidate with exam copy of STP I-1A, Attachment 11.1, Pages 10-12.** *** **Step was: Sat: _____ Unsat _____***
2. Operator verifies UHS temperature method 1.	2.1 Verifies that the Pacific Ocean water temperature of 61°F is entered for TI-311. 2.2 Verifies that Method 1 is invalid based on Notes 1 and 2, verifies N/A box is marked and goes to Method 2. **Note: Operator should refer to Note 1, requires minimum of 2 indicators, since CWP 1-2 is not running TI-328 is not valid.** **Step was: Sat: _____ Unsat _____***

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

3. ** Operator verifies UHS temperature using method 2.	3.1 Verifies Pacific Ocean water temperatures, 61.5°F on TI-1484 on Unit 1 & 62°F on TI-1484 on Unit 2 3.2 Verifies the highest of the available indicators, 62°F.
	Note: Unit 2 TI-1484 is reading highest at 62.0°F
	3.3 Verifies proper correction factor based on available indications of 0.3°F. 3.4 Determines correction factor of 0.7°F was improperly used. 3.5 Determines corrected Pacific Ocean water temperature to be 62.3°F, Verifies step initialed. **Step was: Sat: _____ Unsat _____***
4. Operator verifies UHS temperature using method 3.	4.1 Verifies operator marked N/A box. **Step was: Sat: _____ Unsat _____***
5. **Operator verifies results	5.1 Determines that N/A box for step d was marked incorrectly and that corrected Pacific Ocean water temperature is unsatisfactory. 5.2 Determines that N/A box for step e was marked correctly and that corrected Pacific Ocean water temperature is satisfactory for this step. **Step was: Sat: _____ Unsat _____***

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

6. **Operator determines appropriate actions based on review of STP.	6.1 Determines that corrected Pacific Ocean water temperature is above the Tech Spec Limit. 6.2 Operator references Tech Spec. 3.7.12 for Ultimate Heat Sink. 6.3 Operator determines that increased monitoring is required and the Unit 1 CO should record Pacific Ocean water temperature every 2 hours in his logs. **Step was: Sat: _____ Unsat _____***

Stop Time: _____

Total Time: _____ (Enter total time on the cover page)

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Initial Conditions: Unit 1 is at 50% power with CWP 1-2 out of service for replacement of damaged screens. Unit 2 is in day 14 of a refueling outage.

Current plant conditions for the Circ Water and ASW systems are as follows:

Component	Status	Current Ocean Water Temperature	
CWP 1-1	In-service	TI-311	61°F
CWP 1-2	Cleared	TI-328	61°F
ASW Pp 1-1	In-service to CCW HX 1-1	TI-1484	61.5°F
ASW Pp 1-2	In-STBY	TI-1485	60°F
CWP 2-1	Cleared	TI-311	61°F
CWP 2-1	Cleared	TI-328	61°F
ASW Pp 2-1	In-service to CCW HX 2-1	TI-1484	62°F
ASW Pp 2-2	Cleared	TI-1485	61°F

Initiating Cue: Unit 1 BOPCO has just completed STP I-1A, Routine Shift Checks Required by Licenses, Attachment 11.1, Step 39.

BOPCO has determined that the Ultimate Heat Sink Temperature is satisfactory for the given conditions.

Review the completed STP data sheet and determine if his assessment is correct and implement any actions needed based on your review.

Task Standard: STP I-1A, Routine Shift Checks Required by Licenses, Attachment 11.1, Step 39 reviewed for completeness and any actions implemented based on your review.

NUCLEAR POWER GENERATION
DIABLO CANYON POWER PLANT

JOB PERFORMANCE MEASURE

Number: ADMNRC-8

Title: PERFORM TRANSFER SWITCH ALIGNMENT VERIFCATION

Examinee: _____

Evaluator: _____ _____ _____
Print Signature Date

Results: Sat _____ Unsat _____ Total Time: _____ minutes

Comments: **PERFORM INPLANT DURING PLANT WALKTHRU**

References: OP K-10X27, Sealed Transfer Switch Procedure, Rev 16, Attach. 9.1
OP1.DC20, Sealed Components, Rev. 9, Attach. 6.4

Alternate Path: Yes X No _____

Time Critical: Yes _____ No X

Time Allotment: 15 Minutes

Critical Steps: 3, 4, 5, 6

Job Designation: RO/SRO

Task Number: G2.1.30

Rating: 3.9/3.4

AUTHOR: DAVE BURNS DATE: 2/3/2000

REVIEWED BY: N/A DATE: N/A
JPM COORDINATOR

APPROVED BY: N/A DATE: N/A
TRAINING LEADER

Directions: **No plant controls or equipment are to be operated during the performance of this Job Performance Measure**. All actions taken by the examinee should be clearly demonstrated and verbalized to the evaluator. The student will be given the initial conditions, initiating cue, and task standard. The examiner will then ask if any clarifications are needed. The examinee may be given the procedure and told the step with which to begin.

Required Materials: None

Initial Conditions: Units 1 and 2 are both at 100% power.

Initiating Cue: Unit 1 Shift Foreman directs you to perform the 6 month verification (per OP1.DC20 step 4.5.3) of OP K-10X27, Attachment 9.1 - "Transfer Switch Alignment Checklist", for COMMON EQUIPMENT.

Task Standard: Verification of Transfer Switch Alignment Checklist for "COMMON EQUIPMENT", is completed and Shift Foreman notified.

Start Time: _____

Step	Expected Operator Actions
1. Operator obtains correct procedures	1.1 Operator obtains OP K-10X27 attachment 9.1 for common equipment.
	Note: Provide candidate with exam copy of OP K-10X27.
	1.2 Operator obtains OP1.DC20 Attachment 6.4.
	Note: Provide candidate with exam copy of OP1.DC20 Attach. 6.4
	Step was: Sat: _____ Unsat _____*
2. Operator reviews procedure	2.1 Operator reviews OP1.DC20 instructions step 4.5.3
	Note: Candidate should review step 4.5.3 and determine that steps a, b and c apply to this task.
	Step was: Sat: _____ Unsat _____*
3. **Verifies position of DSL Fuel Oil Pp 0-2 Transfer Switch	3.1 Operator locates DSL Fuel Oil Pp 0-2 transfer switch in Unit 1 480v Bus 1G room.
	3.2 Operator visually verifies the position of the transfer switch and location of seal.
	**********
	Cue: Transfer switch is sealed in the NORMAL position.
	**********

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

4. **Verifies position of DSL Fuel Oil Pp 0-1 Transfer Switch	4.1 Operator locates DSL Fuel Oil Pp 0-1 transfer switch in Unit 1 480v Bus 1H room. 4.2 Operator visually verifies the position of the transfer switch and location of seal. ** **Cue: Transfer switch is sealed in the NORMAL position.** ** **Step was: Sat: _____ Unsat _____***
5. **Verifies position of EPTSN - Technical Support Center Power Transfer Switch	5.1 Operator locates EPTSN - Technical Support Center Power transfer switch in Unit 2 480v Bus 2F room. 5.2 Operator visually verifies the position of the transfer switch and location of seal. ** **Cue: Transfer switch is sealed in the NORMAL position.** ** **Step was: Sat: _____ Unsat _____***

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

6. **Verifies position of EPTSC - Technical Support Center Power Transfer Switch	6.1 Operator locates EPTSC - Technical Support Center Power transfer switch in Unit 2 480v Bus 2F room. 6.2 Operator visually verifies the position of the transfer switch and location of seal. *** **Cue: Transfer switch is in the NORMAL position and the SEAL is missing.** *** 6.3 Operator contacts the SFM informs him of his findings. *** **Cue: Inform candidate that the SFM directs him to re-seal the component.** *** 6.4 Operator goes to control room and locates replacement seal. **Note: Once seal is located in control room, leave seal in control room.** 6.5 Operator returns to transfer switch and installs seal. **Step was: Sat: _____ Unsat _____***
7. Operator completes 6 month verification form.	7.1 Operator signs and dates verification form and returns it to Shift Foreman. **Step was: Sat: _____ Unsat _____***

Stop Time: _____

Total Time: _____ (Enter total time on the cover page)

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Initial Conditions: Units 1 and 2 are both at 100% power.

Initiating Cue: Unit 1 Shift Foreman directs you to perform the 6 month verification (per OP1.DC20 step 4.5.3) of OP K-10X27, Attachment 9.1 - "Transfer Switch Alignment Checklist", for COMMON EQUIPMENT.

Task Standard: Verification of Transfer Switch Alignment Checklist for "COMMON EQUIPMENT", is completed and Shift Foreman notified.

NUCLEAR POWER GENERATION
DIABLO CANYON POWER PLANT

JOB PERFORMANCE MEASURE

Number: ADMNRC-9SRO

Title: VERIFIY OUTAGE SAFETY CHECKLIST

Examinee: _____

Evaluator: _____ _____ _____
Print Signature Date

Results: Sat _____ Unsat _____ Total Time: _____ minutes

Comments:

References: AD8.DC55, Outage Safety Scheduling, Attach. 7.12, Rev. 11

Alternate Path: Yes X No _____

Time Critical: Yes _____ No X

Time Allotment: 10 Minutes

Critical Steps:

Job Designation: SRO

Task Number: G2.2.26

Rating: 3.7

AUTHOR: DAVE BURNS DATE: 2/3/2000

REVIEWED BY: N/A DATE: N/A
JPM COORDINATOR

APPROVED BY: N/A DATE: N/A
TRAINING LEADER

Directions: **No plant controls or equipment are to be operated during the performance of this Job Performance Measure**. All actions taken by the examinee should be clearly demonstrated and verbalized to the evaluator. The student will be given the initial conditions, initiating cue, and task standard. The examiner will then ask if any clarifications are needed. The examinee may be given the procedure and told the step with which to begin.

Required Materials: None

Initial Conditions: Unit 1 is currently in Mode 6 with Core Onload in progress.

Current plant parameters are as follows:

Offsite power sources:	Startup power - Cleared Aux power - Operable
Onsite power sources:	Diesel Generator 1 - Cleared Diesel Generator 2 - Operable Diesel Generator 3 - Operable Diesel Generator X-TIE - Operable
Onsite distribution system:	4kV & 480v Bus F - Operable 4kV & 480v Bus G - Operable 4kV & 480v Bus H - Cleared
Instrument AC Inverters :	IY1 - Operable IY2 - Operable IY3 - Cleared IY4 - Operable
FHB Ventilation Status:	Fan E-5 - Cleared Fan E-6 - Operable
Charging Pump Status:	CCP1 - Operable CCP2 - Cleared

Initiating Cue: Unit 1 Control Operator has just completed AD8.DC55, Attachment 7.12, Mode 6 Outage Safety Checklist for Vital AC systems for the current plant conditions.

Control Operator has determined that the Mode 6 Outage Safety Checklist for Vital AC Power is satisfactory for the given conditions.

Review the completed Outage Safety Checklist and determine if his assessment is correct and implement any actions needed based on your review.

Task Standard: AD8.DC55, Attachment 7.12, Mode 6 Outage Safety Checklist for Vital AC systems reviewed for completeness and any actions implemented based on your review.

Start Time: _____

Step	Expected Operator Actions
1. Operator obtains the correct procedure.	1.1 Operator obtains AD8.DC55, Attachment 7.12, Mode 6 Outage Safety Checklist for Vital AC Sources. *** **Cue: Provide candidate with exam copy of Attachment 7.12** *** **Step was: Sat: _____ Unsat _____***
2. **Operator verifies 4kV & 480v operability.	2.1 Operator verifies 4kV & 480v buses F & G are operable. **Step was: Sat: _____ Unsat _____***
3. **Operator verifies Instrument AC bus operability.	3.1 Operator verifies that IY1, IY2 and IY4 are operable. **Step was: Sat: _____ Unsat _____***
4. **Operator verifies status of refueling cavity.	4.1 Operator verifies that refueling cavity is greater than 23'and that List A is required. **Step was: Sat: _____ Unsat _____***

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

5. **Operator verifies status of offsite power sources	5.1 Operator verifies that Aux Power is operable and D/G X-TIE is operable. 5.2 Operator verifies that Diesel Generators 2 & 3 are operable and annotates checklist. **Step was: Sat: _____ Unsat _____***
6. **Operator verifies status of core alterations.	6.1 Operator verifies core alterations are inprogress. 6.2 Operator determines that Diesel Gen 3, Fan E-5 and CCP 1 are <u>not</u> all operable. Fan E-5 is cleared. **Step was: Sat: _____ Unsat _____***
7. Operator determines appropriate actions based on review of Vital AC Outage Safety Checklist.	7.1 Operator determines that Vital AC Outage Safety Checklist is not complete and Vital AC safety function is not satisfied. 7.2 Operator determines that Refueling SRO should be notified to stop core onload. **Step was: Sat: _____ Unsat _____***

Stop Time: _____

Total Time: _____ (Enter total time on the cover page)

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Initial Conditions: Unit 1 is currently in Mode 6 with Core Onload in progress.

Current plant parameters are as follows:

Offsite power sources:	Startup power - Cleared Aux power - Operable
Onsite power sources:	Diesel Generator 1 - Cleared Diesel Generator 2 - Operable Diesel Generator 3 - Operable Diesel Generator X-TIE - Operable
Onsite distribution system:	4kV & 480v Bus F - Operable 4kV & 480v Bus G - Operable 4kV & 480v Bus H - Cleared
Instrument AC Inverters :	IY1 - Operable IY2 - Operable IY3 - Cleared IY4 - Operable
FHB Ventilation Status:	Fan E-5 - Cleared Fan E-6 - Operable
Charging Pump Status:	CCP1 - Operable CCP2 - Cleared

Initiating Cue: Unit 1 Control Operator has just completed AD8.DC55, Attachment 7.12, Mode 6 Outage Safety Checklist for Vital AC systems for the current plant conditions.

Control Operator has determined that the Mode 6 Outage Safety Checklist for Vital AC Power is satisfactory for the given conditions.

Review the completed Outage Safety Checklist and determine if his assessment is correct and implement any actions needed based on your review.

Task Standard: AD8.DC55, Attachment 7.12, Mode 6 Outage Safety Checklist for Vital AC systems reviewed for completeness and any actions implemented based on your review.

NUCLEAR POWER GENERATION
DIABLO CANYON POWER PLANT

JOB PERFORMANCE MEASURE

Number: ADMNRC-11SRO

Title: CLASSIFY AND RECOMMEND PARS BASED ON ACCIDENT CLASSIFICATION

Examinee: _____

Evaluator: _____ _____ _____
Print Signature Date

Results: Sat _____ Unsat _____ Total Time: _____ minutes

Comments:

References: EP G-1, Accident Classification and Emergency Plan Activation, Rev. 28

EP RB-10, Protective Action Recommendations, Rev. 6

Alternate Path: Yes _____ No X

Time Critical: Yes _____ No X

Time Allotment: 15 minutes

Critical Steps: 2, 3, 4, 5

Job Designation: SRO

Task Number: G2.4.44

Rating: 4.0

AUTHOR: DAVE BURNS DATE: 2/3/2000

REVIEWED BY: N/A DATE: N/A
JPM COORDINATOR

APPROVED BY: N/A DATE: N/A
TRAINING LEADER

Directions: **No plant controls or equipment are to be operated during the performance of this Job Performance Measure**. All actions taken by the examinee should be clearly demonstrated and verbalized to the evaluator. The student will be given the initial conditions, initiating cue, and task standard. The examiner will then ask if any clarifications are needed. After identifying the appropriate procedure for the task, the examinee may be given the procedure and told the step with which to begin.

Required Materials: None

Initial Conditions: Unit 1 is in Mode 6. 15 minutes ago a Fuel Assembly was dropped in the Spent Fuel Pool this resulted in a release of radioactive material that remains in progress. The STA reports the following results from the most recent EP R-2 calculations:

Total Effective Dose Equivalent (TEDE) = 90 mrem

Thyroid Committed Dose Equivalent (TCDE) = 550 mrem

STA also reports that the current wind speed is 2.6 m/sec from 200°.

Initiating Cue: The Interim Site Emergency Coordinator directs you to Classify the event and complete Protective Action Recommendation Form 69-13216.

Task Standard: Event classified and Protective Action Recommendation Form 69-13216 is completed.

Start Time: _____

Step	Expected Operator Actions
1. Obtain the correct procedure.	1.1 Operator references G-1, Emergency Classification and Emergency Plan Activation. **Step was: Sat: _____ Unsat _____***
2. **Operator determines correct classification.	2.1 Operator determines the classification to be a Site Area Emergency. (SAE # 3) **Step was: Sat: _____ Unsat _____***
3. ** Determines the nature of the radiological release.	3.1 Operator references PAR form 69-13216 of EP RB-10. **Note: Provide candidate with exam copy of PAR form 69-13216** 3.2 References step 5. 3.3 Checks "Ongoing Release" block. **Step was: Sat: _____ Unsat _____***

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

4. ** Determines MET tower data.	4.1 Operator references step 6. 4.2 Operator determines wind speed is 2.6 m/sec based on initial conditions. 4.3 Calculates wind speed in MPH (5.72 mph). 4.4 Operator determines wind direction is blowing from 200° based on initial conditions. 4.5 Checks Box J. **Step was: Sat: _____ Unsat _____***
5. ** Determine Protective Action Recommendation.	5.1 Operator references step 7. 5.2 Circles PAR recommendation "C" 5.3 Signs form completed by line. **Step was: Sat: _____ Unsat _____***

Stop Time: _____

Total Time: _____ (Enter total time on the cover page)

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Initial Conditions: Unit 1 is in Mode 6. 15 minutes ago a Fuel Assembly was dropped in the Spent Fuel Pool this resulted in a release of radioactive material that remains in progress. The STA reports the following results from the most recent EP R-2 calculations:

Total Effective Dose Equivalent (TEDE) = 90 mrem

Thyroid Committed Dose Equivalent (TCDE) = 550 mrem

STA also reports that the current wind speed is 2.6 m/sec from 200°.

Initiating Cue: The Interim Site Emergency Coordinator directs you to Classify the event and complete Protective Action Recommendation Form 69-13216.

Task Standard: Event classified and Protective Action Recommendation Form 69-13216 is completed.

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

CATEGORY: A.3
TOPIC: Exposure Limits
KA: G2.3.1 (3.0)
Job Designation: SRO

Reference Allowed: YES

Reference: RP9T, Obj. 1.1, Pg. 4, and RP1.ID6, Personnel Dose Limits and Monitoring Requirements, Attachment 10.1, Rev 5.

QUESTION # 1:

Given the following:

A thirty five (35) year old Nuclear Operator with complete exposure records has the following exposure record for the current calendar year:

- Shallow Dose Equivalent 2.55 rem
- Committed Dose Equivalent 0.75 rem
- Deep Dose Equivalent 2.13 rem
- Lens Dose Equivalent 3.08 rem
- Committed Effective Dose Equivalent 1.95 rem

Determine this individuals Total Effective Dose Equivalent (TEDE) for the current year.

ANSWER:

4.08 rem (DDE+CEDE)

Candidate's Response: **SAT _____ UNSAT _____**

CATEGORY: A.3
TOPIC: Radiation Work Permits
KA: G2.3.7 (3.3)

Reference Allowed: YES

Reference: RP1.ID9, Radiation Work Permits, Rev. 2, Page 6

QUESTION # 2:

An Nuclear Operator has been assigned the task of entering a High High radiation area to perform a valve line-up. His expected dose for the task is 100 mrem.

What type radiation work permit work would be required for this task?

ANSWER:

Special Radiation Work Permit (SWP)

Candidate's Response: **SAT _____ UNSAT _____**

CATEGORY: A.3

QUESTION # 1:

References Allowed: YES

Given the following:

A thirty five (35) year old Nuclear Operator with complete exposure records has the following exposure record for the current calendar year:

- Shallow Dose Equivalent 2.55 rem
- Committed Dose Equivalent 0.75 rem
- Deep Dose Equivalent 2.13 rem
- Lens Dose Equivalent 3.08 rem
- Committed Effective Dose Equivalent 1.95 rem

Determine this individuals Total Effective Dose Equivalent (TEDE) for the current year.

CATEGORY: A.3

QUESTION # 2:

References Allowed: YES

An Nuclear Operator has been assigned the task of entering a High High radiation area to perform a valve line-up. His expected dose for the task is 100 mrem.

What type radiation work permit work would be required for this task?

NUCLEAR POWER GENERATION
DIABLO CANYON POWER PLANT

JOB PERFORMANCE MEASURE

Number: ADMNRC-12SRO

Title: VERIFY AFD IS WITHIN TECH SPEC LIMITS

Examinee: _____

Evaluator: _____ _____ _____
Print Signature Date

Results: Sat _____ Unsat _____ Total Time: _____ minutes

Comments:

References: STP I-1C, Routine Weekly Checks, Attachment 11.1, Rev. 65
Volume 9B, Curves and Miscellaneous Data, Figure R23-1F-1, 1/14/2000, Rev. 131
Technical Specifications, DCPP Units 1 & 2
COLR for DCPP Unit 1, Cycle 10, Rev. 0

Alternate Path: Yes _____ No X

Time Critical: Yes _____ No X

Time Allotment: 10 Minutes

Critical Steps: 2, 4, 5, 6, 7, 8, 9

Job Designation: SRO

Task Number: G2.1.33

Rating: 4.0

AUTHOR: DAVE BURNS DATE: 2/6/2000

REVIEWED BY: N/A DATE: N/A
JPM COORDINATOR

APPROVED BY: N/A DATE: N/A
TRAINING LEADER

Directions: **No plant controls or equipment are to be operated during the performance of this Job Performance Measure**. All actions taken by the examinee should be clearly demonstrated and verbalized to the evaluator. The student will be given the initial conditions, initiating cue, and task standard. The examiner will then ask if any clarifications are needed. The examinee may be given the procedure and told the step with which to begin.

Required Materials: None

Initial Conditions: Unit 1 rapidly ramped down to due to a leak on the No. 2 Heater Drain Tank pump. Reactor power is currently stabilized at approximately 75%.

Current Axial Flux Difference(AFD) readings are as follows:

NI-41C -21.0%

NI-42C -23.0%

NI-43C -23.0%

NI-44C -21.0%

PK03-25 P250 RX ALM AXIAL FLUX/ROD POS input 1251 activated

Indicated Reactor Power based on U1169A05 75.2%

U4300A05 is not available.

PPC MAX is 100.2%

Initiating Cue: Unit 1 BOPCO has just completed STP I-1C, Routine Weekly Checks, Attachment 11.1, Step 1.

BOPCO has determined that the AFD for two (2) excore channels are not within the AFD limits.

Review the completed STP Data sheet and determine if his assessment is correct and implement any actions needed based on your review.

Task Standard: STP I-1C, Routine Weekly Checks, Attachment 11.1, Step 1. reviewed for completeness and any actions implemented based on your review.

Start Time: _____

Step	Expected Operator Actions
1. Operator obtains correct procedure.	1.1 Operator obtains STP I-1C, Attachment 11.1. *** **Cue: Provide candidate with exam copy of STP-I-1C, Attachment 11.1.** *** **Step was: Sat: _____ Unsat _____***
2. **Verifies present Reactor Power.	2.1 References Note 1 for determination of reactor power. 2.2 Uses U1169A05 value (75.2)/ PPC Max (100.2) x 100. 2.3 Verifies RTP% to be 75% **Step was: Sat: _____ Unsat _____***
3. Operator obtains correct procedure.	3.1 Operator obtains Figure R23-1F-1 for Unit 1 from Volume 9. *** **Cue: Provide candidate with exam copy of Figure R23-1F-1.** *** **Step was: Sat: _____ Unsat _____***

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

4. **Verifies Upper AFD Limit.	4.1 References R23-1F-1 4.2 Determines Upper AFD Limit to be +17.5%. 4.3 Verifies +17.5% recorded for Upper AFD Limit. **Step was: Sat: _____ Unsat _____***
5. **Verifies Lower AFD Limit.	5.1 References R23-1F-1 5.2 Determines Lower AFD Limit to be -22%. 5.3 Verifies -22% recorded for Lower AFD Limit. **Step was: Sat: _____ Unsat _____***
6. **Verifies indicated AFD values	6.1 Verifies indicated AFD values recorded for each NI. **Step was: Sat: _____ Unsat _____***
7. **Verifies AFD is Within limits.	7.1 Verifies that AFD is within limits for NIs 41C and 44C and boxes marked. 7.2 Verifies that AFD is outside the limits for NIs 42C and 43C and boxes marked. **Step was: Sat: _____ Unsat _____***
8. **Verifies that 2 excore channels exceed AFD Limit.	8.1 Verifies BOPCO notes that AFD limit is currently being exceeded. **Step was: Sat: _____ Unsat _____***

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

9. **Determines AFD exceeds Tech Spec Limits.	9.1 Refers to Tech Spec 3.2.1. 9.2 Refers to Unit 1 COLR 1-10 **Note: Figure R23-1F-1 provides same information as COLR 1-10 and may be used.** 9.3 Determines AFD is outside limits specified in the COLR. 9.4 Determines actions to be either to return AFD within limits within 15 minutes, or reduce thermal power to less than 50% within 30 minutes. **Step was: Sat: _____ Unsat _____***

Stop Time: _____

Total Time: _____ (Enter total time on the cover page)

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Initial Conditions: Unit 1 rapidly ramped down to due to a leak on the No. 2 Heater Drain Tank pump. Reactor power is currently stabilized at approximately 75%.

Current Axial Flux Difference(AFD) readings are as follows:

NI-41C -21.0%

NI-42C -23.0%

NI-43C -23.0%

NI-44C -21.0%

PK03-25 P250 RX ALM AXIAL FLUX/ROD POS input 1251 activated

Indicated Reactor Power based on U1169A05 75.2%

U4300A05 is not available.

PPC MAX is 100.2%

Initiating Cue: Unit 1 BOPCO has just completed STP I-1C, Routine Weekly Checks, Attachment 11.1, Step 1.

BOPCO has determined that the AFD for two (2) excore channels are not within the AFD limits.

Review the completed STP Data sheet and determine if his assessment is correct and implement any actions needed based on your review.

Task Standard: STP I-1C, Routine Weekly Checks, Attachment 11.1, Step 1. reviewed for completeness and any actions implemented based on your review.

NUCLEAR POWER GENERATION
DIABLO CANYON POWER PLANT

JOB PERFORMANCE MEASURE

Number: ADMNRC-13

Title: PERFORM SEALED VALVE CHECKLIST

Examinee: _____

Evaluator: _____ _____ _____
Print Signature Date

Results: Sat _____ Unsat _____ Total Time: _____ minutes

Comments: **Perform while in RCA**

References: OP K-10A1, CVCS Sealed Valve Checklist (Boric Acid Supply from Boric Acid Storage Tank to Blender Room), Attachment 9.2, Rev. 9

Alternate Path: Yes x No _____

Time Critical: Yes _____ No x

Time Allotment: 15 Minutes

Critical Steps: 3, 4, 5, 6, 7, 8, 9

Job Designation: RO/SRO

Task Number: G2.1.29

Rating: 3.4/3.3

AUTHOR: DAVE BURNS DATE: 2/16/2000

REVIEWED BY: N/A DATE: N/A
JPM COORDINATOR

APPROVED BY: N/A DATE: N/A
TRAINING LEADER

Directions: **No plant controls or equipment are to be operated during the performance of this Job Performance Measure**. All actions taken by the examinee should be clearly demonstrated and verbalized to the evaluator. The student will be given the initial conditions, initiating cue, and task standard. The examiner will then ask if any clarifications are needed. The examinee may be given the procedure and told the step with which to begin.

Required Materials: None

Initial Conditions: Unit 1 was shutdown 5 days ago to repair an MSIV. Unit 1 currently is in Mode 5. OP L-0, Mode 5 to 4 Transition Checklist is in progress.

All Unit 1 systems remained "controlled" during the MSIV repairs. No seals were removed from any systems during the mini-outage.

Initiating Cue: Unit 1 Shift Foreman directs you to perform the Independent Verification steps for OP K-10A1, CVCS Sealed Valve Checklist, Attachment 9.2 - Sealed Valve Check List for Boric Acid Supply NORMAL.

Task Standard: Independent Verification of Attachment 9.2 - Sealed Valve Check List for Boric Acid Supply NORMAL is completed and Shift Foreman informed.

Start Time: _____

Step	Expected Operator Actions
1. Operator obtains correct procedure.	1.1 Operator obtains OP K-10A1 Attachment 9.2 **Note: Provide candidate with exam copy of OP K-10A1** **Step was: Sat: _____ Unsat _____***
2. Operator reviews procedure.	2.1 Operator reviews OP K-10A1 Attachment 9.2 ** **Cue: Start with step A.6** ** **Step was: Sat: _____ Unsat _____***
3. ** Verifies position of BA Xfer Pp 1-2 suction valve.	3.1 Operator locates CVCS-1-8463A 3.2 Operator verifies valve is open and seal is installed. ** **Cue: Valve is open and seal is installed.** ** 3.3 Operator initials checklist **Step was: Sat: _____ Unsat _____***

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

4. ** Verifies position of BA Xfer Pp 1-1 suction valve.

4.1 Operator locates CVCS-1-8463B

4.2 Operator verifies valve is open and seal is installed.

****
Cue: Valve is open and seal is installed.
****

4.3 Operator initials checklist

Step was: Sat: _______ Unsat _______*

5. ** Verifies position of BA Xfer Pp 1-2 discharge valve.

5.1 Operator locates CVCS-1-8460A

5.2 Operator verifies valve is open and seal is installed.

****
Cue: Valve is open and seal is installed.
****

5.3 Operator initials checklist

Step was: Sat: _______ Unsat _______*

6. ** Verifies position of BA Xfer Pp 1-2 filter bypass valve.

6.1 Operator locates CVCS-1-8458A

6.2 Operator verifies valve is open and seal is installed.

****
Cue: Valve is closed and seal is installed.
****

6.3 Operator initials checklist

Step was: Sat: _______ Unsat _______*

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

7. ** Verifies position of BA Xfer Pp 1-1 filter bypass valve.	7.1 Operator locates CVCS-1-8458B 7.2 Operator verifies valve is open and seal is installed. *** **Cue: Valve is closed and seal is installed.** *** 7.3 Operator initials checklist **Step was: Sat: _____ Unsat _____***
8. ** Verifies position of BA Xfer Pp Recirc BA Stg Tk 1-2	8.1 Operator locates CVCS-1-8459A 8.2 Operator verifies valve is open and seal is installed. *** **Cue: Valve is open and seal is installed.** *** 8.3 Operator initials checklist **Step was: Sat: _____ Unsat _____***

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

9. ** Verifies position of BA Xfer Pp Recirc BA Stg Tk 1-1	9.1 Operator locates CVCS-1-8459B 9.2 Operator verifies valve is open and seal is installed. ** **Cue: Valve is open and seal is MISSING** ** 9.3 Operator contacts Unit 1 SFM. *** **Cue: Inform candidate that the SFM directs him to obtain a new seal and reseal the valve.** *** 9.4 Operator locates sealing device at Auxiliary Control Board. **Note: Once seal is located at the auxiliary control board, leave seal at auxiliary control board.** 9.5 Operator returns to CVCS-1-8459B and installs seal **Step was: Sat: _____ Unsat _____***
10. Operator completes Sealed Valve checklist.	10.1 Operator prints name in appropriate location. 10.2 Operator signs attach. on sig. line. 10.3 Operator initials attach. on init line. 10.4 Operator inputs date and time. **Step was: Sat: _____ Unsat _____***

Stop Time: _____

Total Time: _____ (Enter total time on the cover page)

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Initial Conditions: Unit 1 was shutdown 5 days ago to repair an MSIV. Unit 1 currently is in Mode 5. OP L-0, Mode 5 to 4 Transition Checklist is in progress.

All Unit 1 systems remained "controlled" during the MSIV repairs. No seals were removed from any systems during the mini-outage.

Initiating Cue: Unit 1 Shift Foreman directs you to perform the Independent Verification steps for OP K-10A1, CVCS Sealed Valve Checklist, Attachment 9.2 - Sealed Valve Check List for Boric Acid Supply NORMAL.

Task Standard: Independent Verification of Attachment 9.2 - Sealed Valve Check List for Boric Acid Supply NORMAL is completed and Shift Foreman informed.

NUCLEAR POWER GENERATION
DIABLO CANYON POWER PLANT

JOB PERFORMANCE MEASURE

Number: ADMNRC-17SRO

Title: PERFORM AN OFF-SITE DOSE ASSESSMENT - GDT RUPTURE

Examinee: _____

Evaluator: _____ _____ _____
Print Signature Date

Results: Sat _____ Unsat _____ Total Time: _____ minutes

Comments:

References: EP G-1, Emergency Classification and Emergency Plan Activation, Rev. 28

EP R-2, Release of Airborne Radioactive Materials Initial Assessment, Attachments 10.1 & 10.2, Rev. 19C

Alternate Path: Yes X No _____

Time Critical: Yes _____ No X

Time Allotment: 15 minutes

Critical Steps: 2, 3, 5

Job Designation: SRO

Task Number: G2.4.41

Rating: 4.1

AUTHOR: DAVE BURNS DATE: 2/6/2000

REVIEWED BY: N/A DATE: N/A
JPM COORDINATOR

APPROVED BY: N/A DATE: N/A
TRAINING LEADER

Directions: **No plant controls or equipment are to be operated during the performance of this Job Performance Measure**. All actions taken by the examinee should be clearly demonstrated and verbalized to the evaluator. The student will be given the initial conditions, initiating cue, and task standard. The examiner will then ask if any clarifications are needed. After identifying the appropriate procedure for the task, the examinee may be given the procedure and told the step with which to begin.

Required Materials: Calculator

Initial Conditions: Both units are at 100% power, MOL, equilibrium conditions. Gas decay tank 11 rupture disk failed and the relief valve will not reseat.

The following plant conditions exist:

Plant Vent Flow Rate on FR-12 is 23 X 10^4 CFM

RE14/14R and 87 are overranged

RE-29 is reading 4.0 mR/hr

No MET Tower data is available

Initiating Cue: The Shift Supervisor directs you to perform a dose assessment and recommend an emergency classification based on your dose assessment. The PPC program for R-2 calculations is unavailable.

Task Standard: Dose assessed and a recommendation made for the emergency classification.

Start Time: _____

Step	Expected Operator Actions
1. Obtain the correct procedure.	1.1 References EP R-2 **Note: Provide candidate exam copy of Attachment 10.1 and 10.2 from EP-R2.** **Step was: Sat: _____ Unsat: _____***
2. Calculate the plant vent release.	2.1 References Attachment 10.1, page 1, of EP R-2. 2.2 Fills out section 1. 2.3 Determines plant vent flow rate from FR-12 chart recorder is 230000 CFM 2.4 Determines RE-14/14R/87 reading from the radiation monitors. *** **Cue: RE-14/14R/87 are reading overranged.** *** 2.5 Determines RE-29 reading is 4.0 mR/hr 2.6 Determines Noble Gas Release Rate to be 4.3 Ci/sec. 2.7 Determines Total Effluent Conversion Factor is RCS from Page 3 of Attach.10.1. 2.8 Determines Total Effluent Release Rate is 4.3 Ci/Sec. **Step was: Sat: _____ Unsat: _____***

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

3. ** Perform dose calculations.	3.1 References Attach. 10.2 of EP R-2. 3.2 Fills out section 1 3.3 Obtains met data from PPC. *** **Cue: Inputs to the PPC from the primary and backup met towers are bad quality.** *** 3.4 Determines X/Q from default value to be 5.29 E-4 sec/m^3. 3.5 Determines DCF to be RCS. 3.6 Calculates TEDE rate of 250 mR/hr (±20 mR/hr) and a total dose of 750 mR (±50mR). 3.7 Determines thyroid CDE calculation to be N/A. **Step was: Sat: _____ Unsat: _____***
4. Obtain correct procedure.	4.1 References EP G-1. **Step was: Sat: _____ Unsat: _____***
5. ** Recommend event classification.	5.1 Recommends event classification as a SITE AREA EMERGENCY (G-1, SAE #3) **Step was: Sat: _____ Unsat: _____***

Stop Time: _____

Total Time: _____ (Enter total time on the cover page)

*Denotes an entry required on the JPM cover sheet.
**Denotes a Critical Step.

Initial Conditions: Both units are at 100% power, MOL, equilibrium conditions. Gas decay tank 11 rupture disk failed and the relief valve will not reseat.

The following plant conditions exist:

Plant Vent Flow Rate on FR-12 is 23 X 10^4 CFM

RE14/14R and 87 are overranged

RE-29 is reading 4.0 mR/hr

No MET Tower data is available

Initiating Cue: The Shift Supervisor directs you to perform a dose assessment and recommend an emergency classification based on your dose assessment. The PPC program for R-2 calculations is unavailable.

Task Standard: Dose assessed and a recommendation made for the emergency classification.

CATEGORY: A.3
TOPIC: Exposure Limits
KA: G2.3.4 (3.1)
Job Designation: SRO

Reference Allowed: YES

Reference: RP10T, Obj. 2.1, Pg.5; RP1.ID6, Personnel Dose Limits and Monitoring Requirements, Step 7.3.5, Rev 5.

QUESTION # 1:

An Auxiliary Operator has a Total Effective Dose Equivalent exposure of 1.5 R for the current year.

How long can this operator stay in a radiation area which has just exceeded the limit to be posted as a **High High Radiation Area**, without exceeding the DCPP Administrative Guideline?

ANSWER:

30 Minutes (2000mr - 1500mr = 500mr 1000mr/hr / 500mr = 30 min)

Candidate's Response: **SAT** _____ **UNSAT** _____

CATEGORY: A.3
TOPIC: Emergency Exposure Limits
KA: G2.3.1 (3.0)
Job Designation: SRO

Reference Allowed: YES

Reference: LEP 3, Rev. 1, Page 5; EP RB-2, Emergency Exposure Guides, Rev. 4B, Page 4

QUESTION # 2:

A Senior Control Operator was in Unit 1 Containment investigating a leak when a small break LOCA occurred.

Unit 1 SFM declared an Alert and the Technical Support Center has just been activated.

The Emergency Operations Facility has not been activated at this time.

The SCO is now trapped in Containment with radiation levels of 10 R/hr.

Who can authorize an emergency exposure to rescue the Senior Control Operator?

ANSWER:

Site Emergency Coordinator

Candidate's Response: **SAT _____ UNSAT _____**

CATEGORY: A.3

QUESTION # 1:

References Allowed: YES

An Auxiliary Operator has a Total Effective Dose Equivalent exposure of 1.5 R for the current year.

How long can this operator stay in a radiation area which has just exceeded the limit to be posted as a **High High Radiation Area**, without exceeding the DCPP Administrative Guideline?

CATEGORY: A.3

QUESTION # 2:

References Allowed: YES

A Senior Control Operator was in Unit 1 Containment investigating a leak when a small break LOCA occurred.

Unit 1 SFM declared an Alert and the Technical Support Center has just been activated.

The Emergency Operations Facility has not been activated at this time.

The SCO is now trapped in Containment with radiation levels of 10 R/hr.

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