

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 DCPD Unit 1 Cycle 10, Rev. 0

Alternate Path: Yes No
Time Critical: Yes No
Time Allotment: 10 Minutes
Critical Steps: 3, 5
Job Designation: RO
Task Number: G2.1.25

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

REV. 0

Rating: 2.8

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

*Denotes an entry required on the JPM cover sheet.

**Denotes a Critical Step.

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 _____*

1.2 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 _____*

2.2 3. **Records Present thermal
power level.

3.1

*Denotes an entry required on the JPM cover sheet.

**Denotes a Critical Step.

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 _____ *

3.3

*Denotes an entry required on the JPM cover sheet.

**Denotes a Critical Step.

4. Records Insertion limit

Determines insertion limit for current power level is Bank D at 53 Steps.

4.1

4.2 Records Insertion limit on STP I-1A Data Sheet - Bank D at 53 Steps

Step was: Sat: _____ Unsat _____*

4.3 5. **Determines Rod Insertion Limit is currently being exceeded.

5.1

*Denotes an entry required on the JPM cover sheet.

**Denotes a Critical Step.

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** _____ *

5.3

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.

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 DCPD Unit 1 Cycle 10, Rev. 0

Technical Specifications, DCPD Units 1 & 2

Alternate Path: Yes No

Time Critical: Yes No

Time Allotment: 10 Minutes

Critical Steps: 3, 5, 6, 7

Job Designation: SRO

Task Number: G2.1.25

Rating: 3.1

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

*Denotes an entry required on the JPM cover sheet.

**Denotes a Critical Step.

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 _____*

1.2 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 _____*

2.2 3. **Records Present thermal
power level.

3.1

*Denotes an entry required on the JPM cover sheet.

**Denotes a Critical Step.

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 _____ *

3.3

*Denotes an entry required on the JPM cover sheet.

**Denotes a Critical Step.

4. Records Insertion limit

Determines insertion limit for current power level is Bank D at 53 Steps.

4.1

4.2 Records Insertion limit on STP I-1A Data Sheet - Bank D at 53 Steps

Step was: Sat: _____ Unsat _____*

4.3 5. **Determines Rod Insertion Limit is currently being exceeded.

5.1

*Denotes an entry required on the JPM cover sheet.

**Denotes a Critical Step.

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 _____ *

5.3 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 _____ *

6.2 7. **Determine most limiting Tech Spec.

7.1

*Denotes an entry required on the JPM cover sheet.

**Denotes a Critical Step.

Operator determines the most limiting Tech
Spec is 3.1.3.6 with 2 hours to restore
rods above RIL.

Step was: **Sat:** _____ **Unsat** _____ *

7.2

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-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 No

Time Critical: Yes No

Time Allotment: 10 Minutes

Critical Steps: 3, 4

Job Designation: RO

Task Number: G2.1.23

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

REV. 0

Rating: 3.0

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

*Denotes an entry required on the JPM cover sheet.

**Denotes a Critical Step.

Operator obtains OP B-8DS1, Attachment 9.3.

Cue: Provide candidate with exam copy of Attachment 9.3.

Step was: Sat: _____ Unsat _____*

1.2 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 _____*

2.2 3. **Determines current offload status.

3.1

*Denotes an entry required on the JPM cover sheet.

**Denotes a Critical Step.

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 _____ *

3.5

*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 _____*

4.9 5. Notifies Shift Foreman

5.1

*Denotes an entry required on the JPM cover sheet.

**Denotes a Critical Step.

Notifies Shift Foreman that Spent Pool Heat
Load/Removal Parameters are not met
due to high Spent Fuel Pool
Temperature.

Step was: Sat: _____ Unsat _____ *

5.2

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.

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 No

Time Critical: Yes No

Time Allotment: 10 Minutes

Critical Steps: 3, 5

Job Designation: SRO

Task Number: G2.1.23

Rating: 4.0

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

*Denotes an entry required on the JPM cover sheet.

**Denotes a Critical Step.

INSTRUCTOR WORKSHEET

Operator reviews OP B-8DS1, Attachment
9.3.

**Cue: Provide candidate with exam copy
of completed Attachment 9.3.**

Step was: Sat: _____ Unsat _____*

1.2 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 _____*

2.2 3. **Verifies current offload
status.

3.1

*Denotes an entry required on the JPM cover sheet.

**Denotes a Critical Step.

INSTRUCTOR WORKSHEET

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 _____ *

3.5

*Denotes an entry required on the JPM cover sheet.

**Denotes a Critical Step.

INSTRUCTOR WORKSHEET

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 _____*

4.9 5. **Determines effect of
findings on current Core Unload.

5.1

*Denotes an entry required on the JPM cover sheet.

**Denotes a Critical Step.

INSTRUCTOR WORKSHEET

*Denotes an entry required on the JPM cover sheet.

**Denotes a Critical Step.

INSTRUCTOR WORKSHEET

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** _____ *

5.3

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.

Rating: 3.5

- 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

*Denotes an entry required on the JPM cover sheet.

**Denotes a Critical Step.

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 _____*

1.2 2. **Operator locates and starts
OLM program.

2.1

Operator locates ICON for OLM program
and starts program.

Step was: Sat: _____ Unsat _____*

2.2 3. **Operator selects Out of
Service components.

3.1

*Denotes an entry required on the JPM cover sheet.

**Denotes a Critical Step.

Operator selects RHR Pp 1-1

3.2 Operator selects PORV PCV-456

Step was: Sat: _____ Unsat _____ *

3.3

*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 _____*

4.9 5. ****Determines KSF score**

5.1

*Denotes an entry required on the JPM cover sheet.

**Denotes a Critical Step.

Determines KSF score of 10 is greater than
8.

Step was: Sat: _____ **Unsat** _____*

5.2 6. **Determines Required
Notifications

6.1

Stop Time:

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

Determines that OPS Superintendent or
higher notification is required.

Step was: Sat: _____ **Unsat** _____*

6.2

*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.

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

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

- 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

*Denotes an entry required on the JPM cover sheet.

**Denotes a Critical Step.

Operator obtains OP2.ID1, Clearances, Step
5.5.3

**Note: This Step not required, if
referenced provide candidate with
copy.**

Step was: Sat: _____ Unsat _____*

1.2

*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 _____ *

*Denotes an entry required on the JPM cover sheet.

**Denotes a Critical Step.

2.5

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.

- 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

*Denotes an entry required on the JPM cover sheet.

**Denotes a Critical Step.

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 _____*

1.4 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 _____*

2.3 3. **Tailboards entry into the Letdown heat exchanger room.

3.1

*Denotes an entry required on the JPM cover sheet.

**Denotes a Critical Step.

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 _____*

3.4 4. Enters Letdown heat exchanger room.

4.1

Stop Time:

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

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 _____*

4.3

*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.

Task Number: G2.4.41

Rating: 4.1

- 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

*Denotes an entry required on the JPM cover sheet.

**Denotes a Critical Step.

INSTRUCTOR WORKSHEET

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 _____*

1.4 2. Locates DCPD 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: _____*

2.2

*Denotes an entry required on the JPM cover sheet.

**Denotes a Critical Step.

INSTRUCTOR WORKSHEET

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.

*Denotes an entry required on the JPM cover sheet.

**Denotes a Critical Step.

Note: **Written summary should be short explanation of event - see answer key for example.**

Step was: Sat: _____ Unsat: _____ *

3.10

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.

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?