

Facility: Oyster Creek Date of Examination: 4-19-23, 2004
 Examination Level (circle one): RO / (SRO) Operating Test Number: ILT 2004

Administrative Topic /Subject Description (see Note)	Describe activity to be performed-method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions
A.1 Conduct of Operations	Calculate DWI bulk temperature 200.0K N
Conduct of Operations	Approve Unidentified Leakback Calculation 200.0F-SRO N
A.2 Equipment Control	Determine Core Spray Surveillance Requirements (Alt. path) 200.0J N
A.3 Radiation Control	Approve Radiation Discharge Permit (Alt path) 200.0B N
A.4 Emergency Plan	Make an Emergency Classification and complete notification form (one for each scenario) 345.04N N

NOTE: All items (5 total) are required for SROs. RO applicants require only 4 items unless they are retaking only the administrative topics, when 5 are required.

Facility: <u>Oyster Creek</u>		Date of Examination: <u>4-19-03, 2004</u>	
Examination Level (circle one): <u>(RO)</u> SRO		Operating Test Number: <u>1LT 2004</u>	
Administrative Topic /Subject Description (see Note)	Describe activity to be performed method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions		
A.1 Conduct of Operations	Calculate DW bulk temperature 200.0K		N
Conduct of Operations	Calculate Unidentified leakage 200.0F		N
A.2 Equipment Control	Determine Core Spray Surveillance Requirements (Alt. path) 200.0J		N
A.3 Radiation Control	Calculate Radiation Area Stay Time 200.0M		N
A.4 Emergency Plan	N/A		
NOTE: All items (5 total) are required for SROs. RO applicants require only 4 items unless they are retaking only the administrative topics, when 5 are required.			

REFERENCE SECTION:

TASK CONDITIONS:

- Primary Containment Control EOP has been entered due to low Torus water level
- The PCS is out of service
- All Control Room indications of Drywell Temperature are unavailable.

GENERAL TOOLS AND EQUIPMENT:

Data sheet of Recorder points from IA55 & TR-100A

GENERAL REFERENCES:

Support Procedure 26, Determining Bulk Drywell Temperature, Rev. 16.

TASK STANDARD:

Attachment SP-26-1 & section 3.3 complete with calculated temperature of 148.8 (+/- 1.5) degrees.

CRITICAL ELEMENTS: (*)

5, 6, 7, [and 8 for SRO only]

PERFORMANCE SECTION:

<p>TASK CONDITIONS:</p> <ul style="list-style-type: none"> • Primary Containment Control EOP has been entered due to low Torus water level • The PCS is out of service • All Control Room indications of Drywell Temperature are unavailable. <p>INITIATING CUES:</p> <p>You are directed to calculate Bulk Drywell Temperature.</p>

START TIME _____

<u>PERFORMANCE CHECKLIST</u>	<u>STANDARD</u>	<u>INITIAL SAT/UNSAT</u>
1. Obtain controlled copy of SP-26	Obtains controlled copy of SP-26.	
2. Verifies that all prerequisites have been met.	Reviews prerequisites and determines that they have been met.	
3. Determines that computer point DWTEMP is not available.	Determines that computer point DWTEMP is not available.	
4. Calls RB NLO to obtain recorder data from IA55 and TR-100 on 51' RB.	Calls RB NLO to obtain recorder data from IA55 and TR-100 on 51' RB.	
Examiner Cue: Give Operator the data sheet.		
*5. Completes Attachment SP-26-1	Completes Attachment SP-26-1	
*6. Transfers calculated data from Attachment SP-26-1 to Step 3.3.2.	Transfers calculated data from Attachment SP-26-1 to Step 3.3.2.	
*7. Calculates Bulk Drywell Temperature to be 148.8 degrees per step 3.3.2.	Calculates Bulk Drywell Temperature to be 148.8 (+/- 1.5) degrees per step 3.3.2.	
Examiner Cue: Ask SRO candidate; "Do you have any concern with the result of this calculation?"		

<u>PERFORMANCE CHECKLIST</u>	<u>STANDARD</u>	<u>INITIAL</u> SAT/UNSAT
*8. Determine if calculated temperature is a concern <u>SRO ONLY</u>	Calculated temperature is 148.8 degrees F. This is below entry level for Primary Containment Control EOP. Currently presents NO concern.	

COMPLETION TIME _____

SIMULATOR SETUP

NONE required. See attached DATA Sheet

Malfunctions:

Overrides:

Remotes:

Computer Aided Exercises:

DATA SHEET

<u>Recorder Point</u>	<u>COMP ID</u>	<u>Value (°F)</u>
PT. 35 (IA55)	TE100A	138
PT. 36 (IA55)	TE100B	144
PT. 37 (IA55)	TE100C	142
PT. 38 (IA55)	TE100D	151
PT. 39 (IA55)	TE100E	151
PT. 1 (TR-100A)	TE103A	152
PT. 2 (TR-100A)	TE103B	144
PT. 3 (TR-100A)	TE103C	149
PT. 4 (TR-100A)	TE103D	153
PT. 5 (TR-100A)	TE103E	152
PT. 6 (TR-100A)	TE104A	152
PT. 7 (TR-100A)	TE104B	155
PT. 8 (TR-100A)	TE104C	160
PT. 9 (TR-100A)	TE104D	168
PT. 10 (TR-100A)	TE104E	163
PT. 11 (TR-100A)	TE105A	161
PT. 12 (TR-100A)	TE105B	164
PT. 13 (TR-100A)	TE105C	164

TASK CONDITIONS:

- Primary Containment Control EOP has been entered due to low Torus water level
- The PCS is out of service
- All Control Room indications of Drywell Temperature are unavailable.

INITIATING CUES:

You are directed to calculate Bulk Drywell Temperature

KEY

SUPPORT PROCEDURE 26 DETERMINING BULK DRYWELL TEMPERATURE

1.0 PREREQUISITES

Determination of Bulk Drywell Temperature has been directed by the Emergency Operating Procedures.

2.0 PREPARATIONS

None

3.0 PROCEDURE

3.1 Determine Bulk Drywell Temperature using computer point DWTEMP.

IF computer point DWTEMP is unavailable or questionable ("Q" for point health),
THEN determine drywell bulk temperature by using the appropriate calculation and the following recorders:

- Recorder IA55 (Panel 8R)
- Recorder TR-100A (RB 51' Elev.)

3.2 IF an operator is not immediately available to monitor Drywell temperature at 51' elev.

OR

Temperature Recorder TR-100A is not available,

THEN determine bulk drywell temperature by averaging the inlet temperatures of the operating Drywell Recirc. Fans. (Points 11, 12, 13, 14, and 15 from recorder IA55 on Panel 8R).

3.2.1 IF less than three Drywell Recirc Fans are running,

THEN calculate bulk drywell temperature by averaging the temperatures of the GEMAC narrow and wide range reference legs (Points 40, 41, and 42 from recorder IA55 on Panel 8R).

OVER

KEY

KEY

- 3.3 IF temperature recorder TR-100A can be used,
THEN determine bulk drywell temperature as follows:

3.3.1 Complete calculation on Attachment SP-26-1.

3.3.2 Calculate Bulk Drywell Temperature (TB) using values from Attachment SP-26-1.

$$TB = 0.503 \frac{145.2}{(T \text{ Avg IA})} + 0.382 \frac{150.0}{(T \text{ Avg IB})} + 0.076 \frac{159.6}{(T \text{ Avg II})} + 0.039 \frac{163.0}{(T \text{ Avg III})}$$

$$TB = \underline{148.8}$$

1. IF temperature recorder IA55 is not available,
THEN calculate bulk drywell temperature using the following equation:

$$TB = 0.885 \frac{\quad}{(T \text{ Avg IB})} + 0.076 \frac{\quad}{(T \text{ Avg II})} + 0.039 \frac{\quad}{(T \text{ Avg III})}$$

NOTE

Thermocouple readings $\geq 395^\circ\text{F}$ must be read using Plant Computer Points or by an instrument technician using instrumentation for Type T thermocouples.

2. IF any T/C 105 indicates $\geq 395^\circ\text{F}$,
THEN check T/C 107 reading for confirmation of high temperature conditions.
3. IF two out of three T/C 105's indicate $315^\circ\text{F} \leq T < 325^\circ\text{F}$,
THEN evaluate drywell cooling using Procedure OPS-3024.09, Drywell Cooling System - Diagnostic and Restoration Actions.
4. IF two out of three T/C 105's indicate $T \geq 325^\circ\text{F}$,
THEN initiate a plant shutdown in accordance with Procedure 203.1, Plant Shutdown to Hot Standby.

KEY

KEY

ATTACHMENT SP-26-1

Temperature readings from the following thermocouples can be obtained locally from the recorder or from the plant computer by identified ID points.

NOTE

Thermocouple readings $\geq 395^{\circ}\text{F}$ must be read using Plant Computer Points or by an instrument technician using instrumentation for Type T thermocouples.

1. IF one thermocouple reading is not available (i.e.; downscale or upscale)
THEN remove it from the T Avg calculation and decrease the denominator by one number.
2. Calculate T Avg I_A by completing the following:
 - From Recorder IA55 (Panel 8R) or the Plant Computer, record the following data:

<u>Recorder Point</u>	<u>COMP ID PT</u>	<u>Value ($^{\circ}\text{F}$)</u>
PT.35 = TE-100A, El. 33' Recirc Pump Motor Inlet Air "A"	'TE100A'	<u>138</u>
PT.36 = TE-100B, El. 33' Recirc Pump Motor Inlet Air "B"	'TE100B'	<u>144</u>
PT.37 = TE-100C, El. 33' Recirc Pump Motor Inlet Air "C"	'TE100C'	<u>142</u>
PT.38 = TE-100D, El. 33' Recirc Pump Motor Inlet Air "D"	'TE100D'	<u>151</u>
PT.39 = TE-100E, El. 33' Recirc Pump Motor Inlet Air "E"	'TE100E'	<u>151</u>

- Calculate T Avg I_A

$$\text{T Avg } I_A = \frac{\text{PT.35} + \text{PT.36} + \text{PT.37} + \text{PT.38} + \text{PT.39}}{5} = \underline{145.2} \text{ } ^{\circ}\text{F}$$

3. Calculate T Avg I_B by completing the following:
 - From Recorder TR-100A (RB 51' Elev.) or the Plant Computer, record the following data:

<u>Recorder Point</u>	<u>COMP ID PT</u>	<u>Value ($^{\circ}\text{F}$)</u>
PT.1 = TE-103A, El. 50' Safety Valve Area	'TE103A'	<u>152</u>
PT.2 = TE-103B, El. 50' Safety Valve Area	'TE103B'	<u>144</u>
PT.3 = TE-103C, El. 50' Safety Valve Area	'TE103C'	<u>149</u>
PT.4 = TE-103D, El. 50' Safety Valve Area	'TE103D'	<u>153</u>
PT.5 = TE-103E, El. 50' Safety Valve Area	'TE103E'	<u>152</u>

- Calculate T Avg I_B

$$\text{T Avg } I_B = \frac{\text{PT.1} + \text{PT.2} + \text{PT.3} + \text{PT.4} + \text{PT.5}}{5} = \underline{150.0} \text{ } ^{\circ}\text{F}$$

OVER

KEY

KEY

4. Calculate T Avg II by completing the following:

- From Recorder TR-100A (RB 51' Elev.) or the Plant Computer, record the following data:

<u>Recorder Point</u>	<u>COMP ID PT</u>	<u>Value (°F)</u>
PT.6 = TE-104A, El. 93' Rx Vessel Bellows Seal Area	'TE104A'	<u>152</u>
PT.7 = TE-104B, El. 93' Rx Vessel Bellows Seal Area	'TE104B'	<u>155</u>
PT.8 = TE-104C, El. 93' Rx Vessel Bellows Seal Area	'TE104C'	<u>160</u>
PT.9 = TE-104D, El. 93' Rx Vessel Bellows Seal Area	'TE104D'	<u>168</u>
PT.10 = TE-104E, El. 93' Rx Vessel Bellows Seal Area	'TE104E'	<u>163</u>

- Calculate T Avg II

$$T \text{ Avg II} = \frac{PT.6 + PT.7 + PT.8 + PT.9 + PT.10}{5} = \underline{159.6} \text{ } ^\circ\text{F}$$

5. Calculate T Avg III by completing the following:

- From Recorder TR-100A (RB 51' Elev.) or the Plant Computer, record the following data:

<u>Recorder Point</u>	<u>COMP ID PT</u>	<u>Value (°F)</u>
PT.11 = TE-105A, El. 95' Rx Head Flange Area	'TE105A'	<u>161</u>
PT.12 = TE-105B, El. 95' Rx Head Flange Area	'TE105B'	<u>164</u>
PT.13 = TE-105C, El. 95' Rx Head Flange Area	'TE105C'	<u>164</u>

- Calculate T Avg III

$$T \text{ Avg III} = \frac{PT.11 + PT.12 + PT.13}{3} = \underline{163.0} \text{ } ^\circ\text{F}$$



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**JOB PERFORMANCE
MEASURE
200.0F**

Title: Calculate Tech Spec Log Sheet Unidentified Leak Rate			
Task: Operate Sumps and Drains System		2910101402	
Calculate DW Unidentified Leakrate		2910104304	
KA# 223001 A1.10	RATING :	RO- 3.4	SRO- 3. 6
Validation Time: 15 min	Alternate Path: NO	Time Critical: NO	
Name		Social Security Number	
Operator			
Examiner			
<u>DIRECTIONS TO TRAINEE:</u>			
<p>Before you start, I will state the task conditions and initiating cues and fully answer any questions. To complete this task successfully, you must perform or simulate each critical element correctly and demonstrate proper procedural adherence. Peer checking will not be provided during the performance of required tasks.</p>			
<p><i>NOTE: Directions are only required once in a given JPM session.</i></p>			
Performance			
Perform	X	Simulate	
Replica	X	In-Plant	
GRADE: Sat / Unsat		MODE: Evaluation / Training	
Comments			
Date:			

REFERENCE SECTION:

TASK CONDITIONS:

Plant is at 100% power
Both DWEDT pumps are operable
At 0000 the 1-8 sump integrator reading was 105200
At 0400 the 1-8 sump integrator reading was 105344
Torus water level yesterday was 147.8"
Torus water level today is 147.8"
The STA reports that Torus unexpected leakage is 0.02 gpm

GENERAL TOOLS AND EQUIPMENT:

Procedure 681.4.004, Tech Spec Log Sheet, Rev. 0

GENERAL REFERENCES:

Procedure 312.9, Primary Containment Control, Rev. 29

TASK STANDARD:

Determine Unidentified Leakage

CRITICAL ELEMENTS: (*)

2, 3, 4, 5, 8

INITIATING CUES:

You have been directed to determine Unidentified Leakage on the Tech Spec Log Sheet

PERFORMANCE SECTION:

TASK CONDITIONS:
 Plant is at 100% power
 Both DWEDT pumps are operable
 At 0000 the 1-8 sump integrator reading was 105200
 At 0400 the 1-8 sump integrator reading was 105344
 Torus water level yesterday was 147.8"
 Torus water level today is 147.8"
 The STA reports that Torus unexpected leakage is 0.02

INITIATING CUES:
 You have been directed to determine Unidentified Leakage on the Tech Spec Log Sheet

START TIME _____

<u>PERFORMANCE CHECKLIST</u>	<u>STANDARD</u>	<u>INITIAL SAT/UNSAT</u>
1. Obtains controlled copy of procedure.	Procedure 312.9 obtained	
*2. Records integrator readings on log sheet	Records integrator readings for 0000 and 0400 on TS log sheet	
*3. Calculates the difference between the two readings	Subtracts 105200 from 105344 to get 144 gallons	
*4. Divides to get leakage rate	Divides 144 by 240 minutes to get 0.6 gpm leakage for 1-8 sump	
*5. Enters leakage on log sheet	Enters 0.6 in 1-8 column	
6. Enters Identified Leakage Adjust	IAW '+' note enters 0 for leakage adjustment	
7. Enters Torus unexpected leakage	IAW STA report, enters 0.02 in Torus unexpected leakage column	
*8. Calculates Total Unidentified leakage	Adds 0.6 to 0 to 0.02 and gets 0.62 and enters this number in the Total column	

COMPLETION TIME _____

TASK CONDITIONS:

Plant is at 100% power

Both DWEDT pumps are operable

At 0000 the 1-8 sump integrator reading was 105200

At 0400 the 1-8 sump integrator reading was 105344

Torus water level yesterday was 147.8"

Torus water level today is 147.8"

The STA reports that Torus unexpected leakage is 0.02

INITIATING CUES:

You have been directed to determine Unidentified Leakage on the Tech Spec Log Sheet



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**JOB PERFORMANCE
MEASURE
200.0Fsro**

Title: Approve Tech Spec Log Sheet Unidentified Leak Rate			
Task: Operate Sumps and Drains System		2910101402	
Calculate DW Unidentified Leakrate		2910104304	
KA# 223001 A1.10	RATING :	RO- 3.4	SRO- 3.6
Validation Time: 15 min	Alternate Path: NO	Time Critical: NO	
	Name	Social Security Number	
Operator			
Examiner			
<u>DIRECTIONS TO TRAINEE:</u>			
<p>Before you start, I will state the task conditions and initiating cues and fully answer any questions. To complete this task successfully, you must perform or simulate each critical element correctly and demonstrate proper procedural adherence. Peer checking will not be provided during the performance of required tasks.</p>			
<i>NOTE: Directions are only required once in a given JPM session.</i>			
Performance			
Perform	X	Simulate	
Replica	X	In-Plant	
GRADE: Sat / Unsat		MODE: Evaluation / Training	
Comments			
Date:			

REFERENCE SECTION:

TASK CONDITIONS:

Plant is at 100% power
Both DWEDT pumps are operable
At 0000 the 1-8 sump integrator reading was 105200
At 0400 the 1-8 sump integrator reading was 105344
Torus water level yesterday was 147.8"
Torus water level today is 147.8"
The STA reports that Torus unexpected leakage is 0.02
The URO has calculated the Unidentified Leakage on the Tech Spec Log Sheet

GENERAL TOOLS AND EQUIPMENT:

Procedure 681.4.004, Tech Spec Log Sheet, Rev. 0

GENERAL REFERENCES:

Procedure 312.9, Primary Containment Control, Rev. 29

TASK STANDARD:

Verify Unidentified Leakage is correctly entered on the Tech Spec Log Sheet

CRITICAL ELEMENTS: (*)

2, 3, 4, 5, 8

INITIATING CUES:

You are to determine if the Unidentified Leakage has been correctly entered on the Tech Spec Log Sheet

PERFORMANCE SECTION:

TASK CONDITIONS:
 Plant is at 100% power
 Both DWEDT pumps are operable
 At 0000 the 1-8 sump integrator reading was 105200
 At 0400 the 1-8 sump integrator reading was 105344
 Torus water level yesterday was 147.8"
 Torus water level today is 147.8"
 The STA reports that Torus unexpected leakage is 0.02
 The URO has calculated the Unidentified Leakage on the Tech Spec Log Sheet

INITIATING CUES:
 You are to determine if the Unidentified Leakage has been correctly entered on the Tech Spec Log Sheet

START TIME _____

<u>PERFORMANCE CHECKLIST</u>	<u>STANDARD</u>	<u>INITIAL SAT/UNSAT</u>
1. Obtains controlled copy of procedure.	Procedure 312.9 obtained	
*2. Verifies integrator readings on log sheet	Verifies integrator readings for 0000 (105200) and 0400 (105344) on TS log sheet	
*3. Determines the correct difference between the two readings	Subtracts 105200 from 105344 to get 144 gallons	
*4. Divides to get leakage rate	Divides 144 by 240 minutes to get 0.6 gpm leakage for 1-8 sump	
*5. Verifies leakage on log sheet	Verifies 0.6 in 1-8 column	
6. Verifies Identified Leakage Adjust	IAW '+' note, verifies 0 for leakage adjustment	
7. Verifies Torus unexpected leakage	IAW STA report, verifies 0.02 in Torus unexpected leakage column	
*8. Confirms Total Unidentified leakage	Adds 0.6 to 0 to 0.02 and gets 0.62 and conforms this number in the Total column	

COMPLETION TIME _____

TASK CONDITIONS:

Plant is at 100% power

Both DWEDT pumps are operable

At 0000 the 1-8 sump integrator reading was 105200

At 0400 the 1-8 sump integrator reading was 105344

Torus water level yesterday was 147.8"

Torus water level today is 147.8"

The STA reports that Torus unexpected leakage is 0.02

The URO has calculated the Unidentified Leakage on the Tech Spec Log Sheet

INITIATING CUES:

You are to determine if the Unidentified Leakage has been correctly entered on the Tech Spec Log Sheet

Title
Technical Specification Log Sheet

Revision No.
0

**TECHNICAL SPECIFICATION LOG SHEET
ATTACHMENT 1**

Date

SHIFT	AOG	TORUS				Normal	TEMP		Limit <95°F	SUB STATION
	V-7-31	LEVEL		(9XR)	Div I		Div II	Tour**		
7A-7P	Closed	LT-37	LT-38	NARROW	>144° <153° For Limit See Attachment 312.9-7				(I)	
7P-7A										

SHIFT	Isolation Condenser						Limit ≥ 7.3
	Area Temps (10R)				Level (1F 2F)		
7A-7P	IB06A	IB06B	IB06C	IB06D	IG06A	IG06B	
7P-7A							

Shift	Nitrogen Make-up		Limit ≥ 250 Units
	Integrator	Units Differ	
7P-7A			
7A-7P			
7P-7A			

SHIFT	R.B. EB 119		RB Vent Rad (Meters)		SD Hz RM Temp Log	Fuel Pool Slab ΔT Limit < 60
	B-9	C-9	CH1	CH2		
7A-7P						
7P-7A						

Previous Day's Lowest Torus Level	Current Day's Highest Torus Level	Differential Level in the TORUS
9XR	9XR	Limit < 2°

SHIFT	Elev 119		EDG	
	Fuel Pool		Fuel Oil Tank	
7A-7P	Temp	Limit < 25 F	Lvl	Limit ≥ 14K Gal

Comments:

TIME	Identified Leakage (DWDT)				Unidentified Leakage (1-8 Sump & Torus)						Total DW Leak		
	Inlet	Man	GPM	Limit	1-8	8	1-8	Identified Leakage Adjust	Torus Inlet Leakage	Total	Limit	Time	GPM
0 Hr		XXXXX	XXXX	< 20.0	105200	XX	GPM	GPM	GPM	GPM	5.0 GPM	0 Hr	XXXX
4 Hr				gpm or 1.0 gpm	105344	2A0	0.6	0	0.02	0.62	0	4 Hr	
8 Hr				with both							< 2.0 GPM	8 Hr	
12 Hr				DWDT							Increase	12 Hr	
16 Hr				pumps							Increase	16 Hr	
20 Hr				inop.							24 Hr	20 Hr	
24 Hr											Period	24 Hr	

Refer to actions of Tech Spec 3.3.D

Limit < 25 gpm

Previous Day's lowest 4 hour unidentified leakage from the 1-8 sump _____ gpm

- * Calculated in accordance with Procedure 312.9
- ** Calculated in accordance with Procedure 312.11
- *** Conducted in accordance with 681.4.005. NA when generator is off line.
- **** Maximum 3°F difference between various Torus temperature indications.
- + If both DWEDT pumps are inoperable, use 3.0 gpm for identified leakage and subtract from the 1-8 value (Procedure 312.9). If DWEDT pumps are operable, use 1.0 gpm.



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JOB PERFORMANCE MEASURE
200.0J

Title: Determine Core Spray Surveillance Requirements (alternate path)

Task: Ensure Compliance to Station Procedures for all plant conditions

3410302411

KA# G2.2.12

RATING :

RO- 3.0

SRO- 3.4

Validation Time: 15 min.

Alternate Path: **YES**

Time Critical

NO

	Name	Social Security Number
Operator		
Examiner		

DIRECTIONS TO TRAINEE:

Before you start, I will state the task conditions and initiating cues and fully answer any questions. To complete this task successfully, you must perform or simulate each critical element correctly and demonstrate proper procedural adherence. Peer checking will not be provided during the performance of required tasks.

NOTE: Directions are only required once in a given JPM session.

Performance			
Perform	X	Simulate	
Replica	X	In-Plant	
Satisfactory		Un-Satisfactory	

Comments

Date:

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JPM 200.0J

REFERENCE SECTION:

TASK CONDITIONS:

Plant is at 100% power
MAPLHR is 89.23%
EDG #1 & EDG #2 have passed their most recent surveillance
The breaker for NZ03C is racked out

GENERAL TOOLS AND EQUIPMENT:

none

GENERAL REFERENCES:

Surveillance Procedure 610.4.002, Core Spray Pump Operability Test, Rev. 43
Technical Specification 3.4

TASK STANDARD:

Determine Core Spray Surveillance requirements IAW 610.4.002

CRITICAL ELEMENTS: (*)

2, 4, 6

INITIATING CUES:

You have been directed to determine if it is acceptable for Core Spray system 2 to be tested IAW 610.4.002, Core Spray Pump Operability Test.

Determine if it is acceptable to conduct 610.4.002 on Core Spray System 2

JPM 200.0J

PERFORMANCE SECTION:

START TIME _____

<u>PERFORMANCE CHECKLIST</u>	<u>STANDARD</u>	<u>INITIAL SAT/UNSAT</u>
1. Obtains controlled copy of procedure.	Procedure 610.4.002 obtained	
*2. Determines Core Spray system reduced availability is NOT permitted	IAW TS 3.4.A, determines the conditions for Core Spray to meet reduced availability do NOT apply [the reactor is not in the REFUEL mode with reactor water <212 degrees F or in the cold shutdown mode] therefore is NOT permitted	
3. Determines EDG status	Determines both EDGs are operable because they have passed their surveillance tests and have no inoperable components	
*4. Determines Core Spray system 1 component is NOT operable	Determines Core Spray system 1 must have no inoperable components and system 1 Backup Booster pump (NZO3C) breaker is racked out	
5. Verifies MAPLHGR	From task conditions, verifies MAPLHGR is less than 90%. MAPLHGR is 89.23%	
*6. Determines Surveillance 610.4.002 can NOT be performed	IAW 610.4.002, the 3.1 PREREQUISITES can NOT be met and the surveillance should not be performed	

COMPLETION TIME _____

TASK CONDITIONS:

Plant is at 100% power

MAPLHR is 89.23%

EDG #1 & EDG #2 have passed their most recent surveillance

The breaker for NZ03C is racked out

INITIATING CUES:

You have been directed to determine if it is acceptable for Core Spray system 2 to be tested IAW 610.4.002, Core Spray Pump Operability Test.

Determine if it is acceptable to conduct 610.4.002 on Core Spray System 2

Title: **Calculate Radiation Area Stay Time**

KA# 2.3.4		RATING: RO - 2.5		SRO - 3.1
Validation Time: 10 Min.	Alternate Path: NO	Time Critical	NO	

	Name	Social Security Number
Operator		
Examiner		

DIRECTIONS TO TRAINEE:

Before you start, I will state the task conditions and initiating cues and fully answer any questions. To complete this task successfully, you must perform or simulate each critical element correctly and demonstrate proper procedural adherence.

NOTE: Directions are only required once in a given JPM session.

Performance			
Perform	X	Simulate	
Replica	X	In-Plant	
GRADE: Sat / Unsat		MODE: Evaluation / Training	

Comments

Date: _____

REFERENCE SECTION:

TASK CONDITIONS:

- The plant is at 100% power.
- You are assigned a task to be performed in the Shutdown Cooling Room
- Your current accumulated exposure for the year is 630 mRem.
- The task you have been assigned is in the area marked by ##
- The task you have been assigned will take 1.5 hours

INITIATING CUES:

Determine if job can be performed **without** receiving an extension to your allowable dose.

GENERAL TOOLS AND EQUIPMENT:

GENERAL REFERENCES:

Radiological survey map [general area dose rate in work area will be 240 mr/hr]

TASK STANDARD:

Determines that job can be done without extending yearly dose allotment

CRITICAL ELEMENTS: (*)

2, 3, 4

PERFORMANCE SECTION:

<p>TASK CONDITIONS:</p> <ul style="list-style-type: none"> • The plant is at 100% power. • You are assigned a task to be performed in the Shutdown Cooling Room • Your current accumulated exposure for the year is 630 mRem. • The task you have been assigned is in the area marked by ## • The task you have been assigned will take 1.5 hours <p>INITIATING CUES: Determine if job can be performed without receiving an extension to your allowable dose.</p>
--

START TIME _____

<u>PERFORMANCE CHECKLIST</u>	<u>STANDARD</u>	<u>INITIAL SAT/UNSAT</u>
1. Reviews task conditions	Reviews task conditions	
*2. Determines amount of exposure remaining for the year.	Subtracts 630 mr from 2000 mr and gets 1370 mr remaining to yearly limit.	
*3. Determines amount of dose for assigned task.	Multiplies 1.5 hours by 240 mr/hr and gets 360 mr	
*4. Determines that job can be done without extending yearly dose allotment.	Either; add 360 to 630 to get 990 (less than 2000) Or; subtract 360 from 1370 to get 1010 (dose remaining for year) So task can be completed without extension	

COMPLETION TIME _____

TASK CONDITIONS:

- The plant is at 100% power.
- You are assigned a task to be performed in the Shutdown Cooling Room
- Your current accumulated exposure for the year is 630 mRem.
- The task you have been assigned is in the area marked by ##
- The task you have been assigned will take 1.5 hours

INITIATING CUES:

Determine if job can be performed **without** receiving an extension to your allowable dose.

OCNGS RADIOLOGICAL SURVEY

No. PFA-12-0001

Date 00-MM-YY

Building 14 PRAC FAC AREA

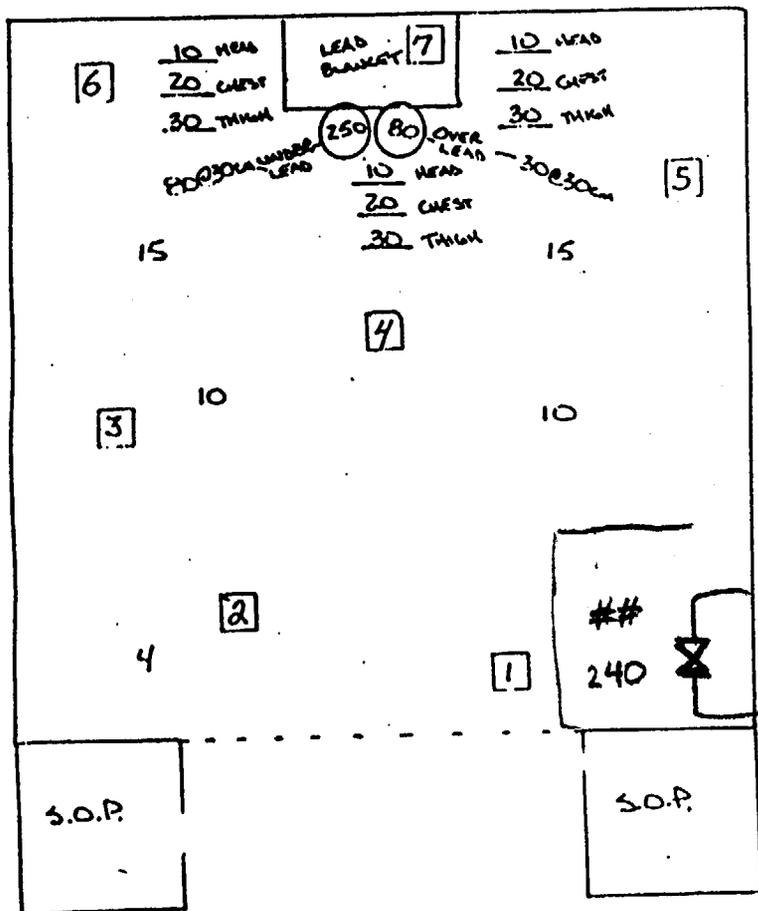
Time 1320

Location Building 14 PRAC FAC AREA

RWP 502730

Reason Assess TRAINING Conditions

Rx Power 100 %



SMEARABLE CONTAMINATION

LOCATION	BSI (1) MRAD/HR	CPM	RDPM	MDPM	AREA
1 7100R	2K	NA	100%		
2 7100R	2K				
3 7100R	5K				
4 7100R	8K				
5 7100R	5K				
6 7100R	18K				
7 TOP OF LEAD	18K				
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

INSTRUMENTATION DATA

RADIATION SURVEY

INST R0-2A
SN 1385 BCF4
CDD 00-MM-YY

INST
SN BCF
CDD

CONTAMINATION SURVEY

INST ZM-14
SN 2104 BCF 4
CDD 00-MM-YY

EFF 10% BKG 1000

INST
SN
CDD

CF BKG C

AIR SAMPLE DATA
FC 2E-10 US

NOTES

NC = Not Counted

GW = Gross Wipe

NA = Not Applicable

NT = Not Taken

H = Head C = Chest T = Thigh

Surveyor: (print name)

H. FERMI

00-MM-YY

Signature

[Signature]

Date

Reviewer: (print name)

D. CAMP

00-MM-YY

Signature

[Signature]

Date

(#) Circled Dose Rates are Circled [] Smear Locations are Boxed

All Dose Rates are General Area Readings in mR/hr Unless Otherwise Noted

[x] No BETA Detected Unless Otherwise Noted

[] No BETA Readings Taken

Remarks: FOR TRAINING ONLY

JPM 200.0B

REFERENCE SECTION:

TASK CONDITIONS:

Plant at 100%
Water is to be released overboard from 1-5 Sump
Dilution flow is 460,000 gpm

GENERAL TOOLS AND EQUIPMENT:

Calculator

GENERAL REFERENCES:

Procedure 101.9, Release of Water to the Environment from 1-5 Sump, Rev. 10,
Attachment 101.9-2 (1-5 sump release to environs)

TASK STANDARD:

Deny approval of discharge permit – (based on incomplete calculations and/or missing approvals)

CRITICAL ELEMENTS: (*)

4

INITIATING CUES:

You are directed to review the provided discharge permit for approval

JPM 200.0B

PERFORMANCE SECTION:

TASK CONDITIONS:

Plant at 100%

Water is to be released overboard from 1-5 Sump

Dilution flow is 460,000 gpm

INITIATING CUES:

You are directed to review the provided discharge permit for approval

START TIME

<u>PERFORMANCE CHECKLIST</u>	<u>STANDARD</u>	<u>INITIAL SAT/UNSAT</u>
1. Obtains controlled copy of procedure	Obtains controlled copy of procedure 101.9	
2. Review the analysis results	Recognize analysis results are above the limit of 1.0E-6 uci/ml, which requires additional calculations that were NOT performed	
3. Review required signatures/approvals are complete	Recognize verification of calculation and Chemistry Manager signatures were NOT obtained	
*4. Denies approval for release	Release cannot be approved based on incomplete calculations and/or missing approvals	

COMPLETION TIME

TASK CONDITIONS:

Plant at 100%

Water is to be released overboard from 1-5 Sump

Dilution flow is 460,000 gpm

INITIATING CUES:

You are directed to review the provided discharge permit for approval