

JPM NO. 1

Conduct An RCS Leakrate Surveillance

Job Performance Measure Exam

Submitted By Don Jackson

9/20/2003

Date

Reviewed By

Date

SME Review/Validation By

Date

Approved By

Date

JPM Tasks

Task ID: Generic- 2.1.7

Description: CONDUCT AN RCS LEAKRATE SURVEILLANCE

Trainee: _____ Evaluator: _____

Evaluator Signature _____ Date _____

Trainee Performance: Satisfactory _____ Unsatisfactory _____

Start Time _____ **Stop Time:** _____

When I tell you to begin, you are to perform the task listed above. I will describe general conditions standard(s), initiating cue(s), and answer any questions you have. I will provide access to any tools necessary to perform the task. You may use any approved reference material normally available. To satisfactory complete this task, you must perform or simulate each critical element correctly. You are to inform the examiner when you have completed the task.

General Comments (For Evaluator Use):

Task Conditions:

THERE HAVE BEEN INDICATIONS OF INCREASED RCS LEAKAGE INTO CONTAINMENT BASED ON RADIATION MONITORING EQUIPMENT READINGS. A MANUAL RCS LEAK RATE CALCULATION HAS BEEN STARTED FOUR HOURS AGO.

Task Standards :

COMPLETE THE RCS LEAK RATE CALCULATION WITHIN THE REQUIRED ACCURACY.
K&A #: 2.1.7 ABILITY TO EVALUATE PLANT PERFORMANCE AND MAKE OPERATIONAL JUDGEMENTS BASED ON OPERATING CHARACTERISTICS, REACTOR BEHAVIOR, AND INSTRUMENT INTERPRETATION
IMPORTANCE FACTOR: RO=3.7 SRO=4.4
Applicability: RO & SRO
Estimated Completion Time: 20 minutes

Tools Needed:

CALCULATOR

Initiating Cues :

USING THE FINAL VALUES LISTED BELOW, MANUALLY CALCULATE THE RCS LEAK RATE IAW SOP-RCS-004, BEGIN AT STEP 4.1.3.1.

Final Values:

- Time- T+4 hours
- Pzr Liquid Temp- 650 degrees F
- Boric Acid Integrator- 100 gallons
- Primary Water Integrator- 450 gallons
- VCT Level- 24%
- Avg Pzr Level- 50%
- RCS Tavg NR RTD- 569 degrees F

Last Identified Leak Rate From 3 Days Ago is 1.7 GPM

References :

ID	Description	Review Date	Ref Flag
SOP RCS-004	REACTOR COOLANT LEAKAGE SURVEILLANCE		

Safety Considerations :

NONE

Consequences of Inadequate Performance:

ERRANT LEAK RATE TO BASE PLANT OPERATIONAL DECISIONS FROM

Performance Checklist :

Element :

Standards :

Conditions :

1 RECORD FINAL DATA PLACE DATA FROM CUE SHEET IN THE APPROPRIATE PLACE ON Att1 Cue: Hand Out The Final Readings, and Initial Data On Att. 1

Comments :

Critical Task? N

Satisfactory

Unsatisfactory

2 **Element :** NOTIFY CHEMISTRY THAT THE LEAK RATE DATA COLLECTION IS COMPLETE
Standards : MAKES NOTIFICATION IN PERSON OR VIA PHONE
Conditions : Cue: State That Notification Is Received and Understood

Comments :

Critical Task? N

Satisfactory

Unsatisfactory

3 **Element :** CALCULATE DIFFERENCES BETWEEN INITIAL AND FINAL DATA
Standards : PERFORMS CALCULATIONS CORRECTLY
Conditions :

Comments :

Critical Task? Y

Satisfactory

Unsatisfactory

4 **Element :** PERFORM PRESSURIZER LEVEL CONVERSION FACTOR ON ATT 2
Standards : REFERS TO ATT 2, AND ENTERS DATA BASED ON PRESSURIZER TEMPERATURE
Conditions :

Comments :

Critical Task? Y

Satisfactory

Unsatisfactory

5 **Element :** PERFORM RCS TEMPERATURE
Standards : REFER TO ATT 2 AND ENTER
Conditions :

CONVERSION FACTOR CALC DATA BASED ON RCS AVG.
ON ATT 2 TEMPERATURE IN APPROPRIATE
BLOCK

Comments :

Critical Task? Y
Satisfactory

Unsatisfactory

6 Element :
CALCULATE CORRECTED
VALUES BASED ON
CONVERSION FACTOR

Standards :
PERFORMS CALCULATION
CORRECTLY

Conditions :

Comments :

Critical Task? Y
Satisfactory

Unsatisfactory

7 Element :
CALCULATE TOTAL
LEAKAGE IN GALLONS
BY ADDING CORRECTED
VALUE COLUMN

Standards :
PERFORMS CALCULATIONS
CORRECTLY

Conditions :

Comments :

Critical Task? Y
Satisfactory

Unsatisfactory

8 Element :
CALCULATE RCS LEAK RATE
BY DIVIDING TOTAL
LEAKAGE BY ELAPSED TIME

Standards :
PERFORMS CALCULATIONS
CORRECTLY WITHIN 0.1 GPM

Conditions :

Comments :

Critical Task? Y
Satisfactory

Unsatisfactory

9 Element :
COMPLETE ATT 3, RCS
RATE REVIEW AND
APPROVAL FORM

Standards :
CALCULATION CORRECT
WITHIN 0.1 GPM

Conditions :
Actual- .85gpm
Accept- .75-.95 gpm

2-Sep-2003

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Page: 1

Comments :

Critical Task? Y

Satisfactory

Unsatisfactory

Terminating Cues :

THE CRS IS REVIEWING THE LEAK RATE CALCULATION- THIS JPM IS COMPLETE

**ATTACHMENT 1
RCS Leakrate Calculation**
(Page 1 of 1)

Date _____

NOTE

IF CFMS is NOT available, THEN alternate CCR indications may be used, document indications used in applicable comment section of Attachment 3.

Parameter	Computer Point	Indicator	(Step 4.1.2) Initial	(Step 4.1.3) Final	(Step 4.1.4) Difference	Conversion Factor	(Step 4.1.9) Corrected Value
Time	_____	Control Room Clock			(Final-Initial)	_____	_____
RZR Liquid Temp.	_____	TI-453	650°F	°F	(Final-Initial)	_____	_____
Chloric Acid	_____	Integrator	80.0gal	gal	(Final-Initial)	_____ gal	gal
Primary Water	_____	Integrator	29.3gal	gal	(Final-Initial)	_____ gal	gal
CT Level	L0112A	LT-112	22.0%	%	(Initial-Final)	19.3 gal/%	gal
Avg PRZR Level*	U0483 L0480A L0481A L0482A	_____	47.0%	%	(Initial-Final)	(Step 4.1.5) gal/%	* gal
CS Tavg NR TD Temperature (547 °F)	T0499A or U0484	CFMS or 3TR-412 TAVG Recorder	570°F	°F	(Final-Initial)	(Step 4.1.7) gal/ °F	gal
CS Tavg WR TD Temperature (547 °F)	KTAVG	CFMS	°F	°F	(Final-Initial)	(Step 4.1.7) gal/ °F	gal
					Total Leakage (Step 4.1.10) (add column)		gal
					RCS Leakrate (Step 4.1.11) (total leakage/ elapsed time)		gpm

Only one pressurizer level indicator is required. Average Level (U0483) is preferred.
 HEN pressurizer temperature is less than 650 °F,
 HEN USE Actual pressurizer level per Graph RCS-3A.

ATTACHMENT 2
PRZR And RCS Correction Calculation
(Page 1 of 1)

ZR Level Conversion Factor (Step 4.1.5)

$$\frac{125 \text{ gal/}^\circ\text{F} \times 0.01613 \text{ (specific volume for saturated liquid at 100 }^\circ\text{F)}}{\text{(specific volume for saturated liquid at average PRZR liquid temperature)}}$$

0163 ÷ _____ = _____

CS Temperature Conversion Factor (Step 4.1.7)

$$\frac{118 \text{ gal/ }^\circ\text{F} \times 0.01613 \text{ (specific volume for saturated liquid at 100 }^\circ\text{F)}}{\text{(specific volume for saturated liquid at average RCS temperature)}}$$

9033 ÷ _____ = _____

**ATTACHMENT 3
RCS Leakage Review And Approval
(Page 1 of 1)**

NOTE

The value of 0.9 gpm used below is used, as a conservatism to ensure an unidentified leakrate of 1.0 gpm is NOT exceeded without taking actions as required by Technical Specifications. LCO 3.4.13 may apply.

.0 RCS leakrate (Attachment 1) _____ gpm

.0 WHEN required for SR 3.4.13.1,
THEN PERFORM SOP-RCS-005, Reactor Coolant Leakage Evaluation, to obtain value for Identified Leak rate.

Last Reactor Coolant Leakage Evaluation performed on _____ (date)

Identified leak rate of _____ gpm

.0 DETERMINE unidentified RCS Leakrate
(RCS leakrate - Identified leakrate) _____ gpm

.0 Does unidentified RCS Leakrate exceed 0.9 gpm? Yes _____ No _____

.0 IF Step 4.0 was answered yes,
THEN PERFORM SOP-RCS-005, Reactor Coolant Leakage Evaluation.

Calculation Performed by: _____
Signature Date Time

Comments: _____

Reviewed by: _____
Shift Manager Date Time

2-Sep-2003

Job Performance Measure Exam

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JPM NO. 2

CONDUCT A VALVE LINEUP VERIFICATION

Job Performance Measure Exam

Submitted By : Don Jackson

9/20/2003

Date

Reviewed By

Date

SME Review/Validation By

Date

Approved By

Date

JPM Tasks

Task ID: 2.1.29

Description: CONDUCT A VALVE LINEUP VERIFICATION
OD-35, "COMPONENT VERIFICATION
AND SYSTEM STATUS CONTROL"

Trainee: _____ Evaluator: _____

Evaluator Signature _____ Date _____

Trainee Performance: Satisfactory _____ Unsatisfactory _____

Start Time _____ Stop Time: _____

When I tell you to begin, you are to perform the task listed above. I will describe general conditions standard(s), initiating cue(s), and answer any questions you have. I will provide access to any tools necessary to perform the task. You may use any approved reference material normally available. To satisfactory complete this task, you must perform or simulate each critical element correctly. You are to inform the examiner when you have completed the task.

General Comments (For Evaluator Use):

Task Conditions:

THE CREW IS PREPARING TO DRAIN THE 32 FWST WITH THE ELECTRIC FIRE PUMP IN ACCORDANCE WITH SOP-FP-001 SECTION 4.12. THE SHIFT MANAGER HAS DIRECTED YOU TO PERFORM STEP 4.12.15 OF SOP-FP-001 TO VERIFY TO THE CORRECT ALIGNMENT OF SELECTED FIRE PROTECTION SYSTEM VALVES.

Task Standards :

CONDUCT A VALVE LINEUP VERIFICATION PER OD-35, "COMPONENT VERIFICATION AND SYSTEM STATUS CONTROL"

K&A #: 2.1.29 Knowledge of How To Conduct and Verify A Valve Lineup
IMPORTANCE FACTORS: SRO=3.3

Tools Needed:

None

Initiating Cues :

THE CREW IS PREPARING TO DRAIN THE 32 FWST WITH THE ELECTRIC FIRE PUMP IN ACCORDANCE WITH SOP-FP-001 SECTION 4.12. THE SHIFT MANAGER HAS DIRECTED YOU TO PERFORM STEP 4.12.15 OF SOP-FP-001 TO VERIFY TO THE CORRECT ALIGNMENT OF SELECTED FIRE PROTECTION SYSTEM VALVES.

Safety Considerations :

PERSONNEL PROTECTIVE EQUIPMENT REQUIRED

Consequences of Inadequate Performance:

LOSS OF PLANT STATUS CONTROL IF NOT PERFORMED CORRECTLY

Performance Checklist :

Element :	Standards :	Conditions :
1 OBTAIN A COPY OF SOP-FP-001 AND REVIEW STEP 4.12.15	OBTAINS AND REVIEWS THE SOP-FP-001 AND PREPARES FOR THE LINEUP ACTIVITY	

Comments :

Critical Task? N

Satisfactory

Unsatisfactory

Element :	Standards :	Conditions :
2 PERFORM LINEUP VERIFICATION OF VALVES IN STEP 4.12.15 OF SOP-FP-001	PERFORM LINEUP VERIFICATION OF STEP 4.12.15 OF SOP-FP-001	

Comments :

Critical Task? Y

Satisfactory

Unsatisfactory

Element :	Standards :	Conditions :
2 VERIFY POSITION OF FP-46	PER OD-35, "COMPONENT VERIFICATION AND SYSTEM STATUS CONTROL"	

Comments :

Critical Task? Y

Satisfactory

Unsatisfactory

Element :	Standards :	Conditions :
VERIFY POSITION OF FP-61	PER OD-35, "COMPONENT VERIFICATION AND SYSTEM STATUS CONTROL"	

Comments :

Critical Task? Y

Satisfactory

Unsatisfactory

5 **Element :** VERIFY POSITION OF FP-48
Standards : PER OD-35, "COMPONENT VERIFICATION AND SYSTEM STATUS CONTROL"
Conditions :

Comments :

Critical Task? Y

Satisfactory

Unsatisfactory

6 **Element :** VERIFY POSITION OF FP-39-1
Standards : PER OD-35, "COMPONENT VERIFICATION AND SYSTEM STATUS CONTROL"
Conditions :

Comments :

Critical Task? Y

Satisfactory

Unsatisfactory

7 **Element :** VERIFY POSITION OF FP-28-3
Standards : PER OD-35, "COMPONENT VERIFICATION AND SYSTEM STATUS CONTROL"
Conditions :

Comments :

Critical Task? Y

Satisfactory

Unsatisfactory

Terminating Cues :

JPM IS COMPLETE WHEN ALL 5 VALVES HAVE BEEN VERIFIED IN THE PROPER POSITION

JPM NO. 3

**RESPOND TO LOWERING REFUELING CAVITY LEVEL
WITH THE TRANSFER TUBE GATE VALVE OPEN
DURING REFUELING OPERATIONS**

Job Performance Measure Exam

Submitted By : Don Jackson

9/20/2003

Date

Reviewed By

Date

SME Review/Validation By

Date

Approved By

Date

JPM Tasks

Task ID: 2.2.27

Description: ACTIONS FOR LOWERING REFUELING POOL LEVEL DURING REFUELING PER ONOP-RP-3

Trainee: _____ Evaluator: _____

Evaluator Signature _____ Date _____

Trainee Performance: Satisfactory _____ Unsatisfactory _____

Start Time _____ Stop Time: _____

When I tell you to begin, you are to perform the task listed above. I will describe general conditions standard(s), initiating cue(s), and answer any questions you have. I will provide access to any tools necessary to perform the task. You may use any approved reference material normally available. To satisfactorily complete this task, you must perform or simulate each critical element correctly. You are to inform the examiner when you have completed the task.

General Comments (For Evaluator Use):

Task Conditions:

REFUELING ACTIVITIES ARE IN PROGRESS. THE CORE IS CURRENTLY BEING FULLY OFFLOADED FOR RHR MAINTENANCE. 42 ASSEMBLIES HAVE BEEN MOVED TO THE SPENT FUEL PIT. THERE IS CURRENTLY AN IRRADIATED FUEL ASSEMBLY IN THE REFUELING BRIDGE MAST. FUEL TRANSFER CART IS IN THE SPENT FUEL HANDLING BUILDING WITH AN IRRADIATED FUEL ASSEMBLY ON BOARD. AS THE FUEL HANDLING SUPERVISOR, YOU NOTICE THAT REFUELING CAVITY LEVEL HAS VISIBLY LOWERED OVER A 5 MINUTE PERIOD. YOU RECEIVE A REPORT FROM THE CONTROL ROOM THAT BASED ON CONTAINMENT SUMP LEVEL AND REPORTS FROM THE LOWER LEVELS OF CONTAINMENT THAT THERE IS A LEAK FROM THE REFUELING CAVITY.

Task Standards :

ACTIONS FOR LOSS OF REFUELING CAVITY LEVEL PER ONOP-RP-3
K&A #: 2.2.27 KNOWLEDGE OF THE REFUELING PROCESS
IMPORTANCE FACTORS: SRO=3.5

Tools Needed:**Initiating Cues :**

REFUELING ACTIVITIES ARE IN PROGRESS. THE CORE IS CURRENTLY BEING FULLY OFFLOADED FOR RHR MAINTENANCE. 42 ASSEMBLIES HAVE BEEN MOVED TO THE SPENT FUEL PIT. THERE IS CURRENTLY AN IRRADIATED FUEL ASSEMBLY IN THE REFUELING BRIDGE MAST. FUEL TRANSFER CART IS IN THE SPENT FUEL HANDLING BUILDING WITH AN IRRADIATED FUEL ASSEMBLY ON BOARD. AS THE FUEL HANDLING SUPERVISOR, YOU NOTICE THAT REFUELING CAVITY LEVEL HAS VISIBLY LOWERED OVER A 5 MINUTE PERIOD. YOU RECEIVE A REPORT FROM THE CONTROL ROOM THAT BASED ON CONTAINMENT SUMP LEVEL AND REPORTS FROM THE LOWER LEVELS OF CONTAINMENT THAT THERE IS A LEAK FROM THE REFUELING CAVITY. YOU ARE TO RESPOND TO THE LOSS OF REFUELING CAVITY WATER LEVEL PER ONOP-RP-3. DISCUSSION OF THE ACTIONS WILL TAKE PLACE IN THE FUEL HANDLING BUILDING, AND APPROPRIATE CUES WILL BE GIVEN BY THE EXAMINER.

Safety Considerations :

NONE

Consequences of Inadequate Performance:

FUEL DAMAGE AND HIGH LEVELS OF RADIATION IN CONTAINMENT

Performance Checklist :

- | | | | |
|---|--|--|---|
| 1 | Element :
OBTAIN AND REVIEW
ONOP-RP-3
Comments :

Critical Task? N | Standards :
OBTAINS AND REVIEWS
ONOP-RP-3 | Conditions : |
| | Satisfactory | Unsatisfactory | |
| 2 | Element :
ENSURE AUTO ACTIONS
HAVE OCCURRED
Comments :

Critical Task? N | Standards :
DETERMINE CONDITION OF
R-5, "FSB AREA RAD MONITOR" | Conditions :
Cue: R-5 Has Not Annunciated |
| | Satisfactory | Unsatisfactory | |
| 3 | Element :
ORDERS CONTAINMENT
EVACUATION ALARM
AND CONTAINMENT
VENTILATION ISOLATION

Comments :

Critical Task? Y | Standards :
CONTAINMENT EVAC ALARM
AND CONTAINMENT
VENTILATION ISOLATION
ARE ORDERED TO CONT RM | Conditions :
Cue: Containment Evac Alarm
AND Cont. Vent Isol
Have Been Initiated |
| | Satisfactory | Unsatisfactory | |
| 4 | Element :
ORDERS NON-ESSENTIAL
PERSONNEL TO EVACUATE
CONTAINMENT AND FSB

Comments :

Critical Task? Y | Standards :
SELECTS WHO IS NON
ESSENTIAL AND HAS
THEM EVACUATE CONTAINMENT
AND FSB | Conditions :
Consider: Needs Refueling Machine
Operator, Upender Operator
(Cont, and FSB), Transfer Tube
Gate Valve Operator |
| | Satisfactory | Unsatisfactory | |

5 **Element :** CLOSE SPENT FUEL POOL ISOLATION GATE, AND APPLY AIR TO GATE SEAL

Standards : ORDERS SPENT FUEL POOL ISOLATION GATE SHUT, AND ORDERS STATION AIR APPLIED TO THE SEAL

Conditions : Cue: Spent Fuel Pool Isolation Gate Is Shut, and Air Is Applied To The Seal

Comments :

Critical Task? Y

Satisfactory

Unsatisfactory

6 **Element :** SEND THE FUEL TRANSFER CONVEYER TO THE CONTAINMENT AND CLOSE THE FUEL TRANSFER TUBE GATE VALVE

Standards : ORDERS THE FUEL TRANSFER CONVEYER MOVED TO THE CONTAINMENT, AND ORDERS THE FUEL TRANSFER TUBE GATE VALVE CLOSED

Conditions : Cue: The Conveyer Has Been Moved To The Containment and the Fuel Transfer Tube Gate Valve Is Shut

Comments :

Critical Task? Y

Satisfactory

Unsatisfactory

7 **Element :** DIRECT HEALTH PHYSICS TO CONSTANTLY MONITOR AND REPORT RAD LEVELS TO THE REFUELING SRO FOR THE CONTAINMENT AND FSB

Standards : DIRECTS HEALTH PHYSICS TO CONSTANTLY MONITOR AND REPORT RAD LEVELS TO HIMSELF, FOR THE CONTAINMENT AND FSB

Conditions : Cue: Rad Levels Are Currently Normal Monitoring Will Be Continuous

Comments :

Critical Task? N

Satisfactory

Unsatisfactory

Element :
 8 IF THE LEAK IS SMALL THEN INITIATE BLENDED MAKE UP OF THE RCS
Standards :
 DETERMINES THAT BLENDED MAKEUP IS APPROPRIATE AND ORDERS IT STARTED
Conditions :
 Cue: Blended Make Up Is Started
Comments :

Critical Task? Y

Satisfactory

Unsatisfactory

Element :
 9 PLACE THE IRRADIATED FUEL ASSEMBLY INTO ANY ACCESSIBLE CORE LOCATION, UNLATCH AND RAISE MAST
Standards :
 BASED ON CUE, RECOGNIZES THAT ASSEMBLY SHOULD BE PLACED BACK INTO THE CORE PER STEP 5.2.1, AND UNLATCH AND RAISE THE MAST
Conditions :
 Cue: Motion Has Just Been Initiated By The Bridge/Trolley From The Core Toward The Upender
Comments :

Critical Task? Y

Satisfactory

Unsatisfactory

Element :
 10 CHECK THAT THERE IS NO ASSEMBLY IN THE RCC CHANGE FIXTURE
Standards :
 UPON CUE, RECOGNIZES THE STEP IS N/A
Conditions :
 Cue: There Is No Assembly In The RCC Change Fixture
Comments :

Comments :

Critical Task? N

Satisfactory

Unsatisfactory

Element :
 11 CHECK THAT THERE IS NO ASSEMBLY IN THE UPENDER (EITHER SIDE).
Standards :
 UPON CUE, RECOGNIZES THE STEP IS N/A
Conditions :
 Cue: There Is No Assembly In Either Upender
Comments :

Critical Task? N

Satisfactory

Unsatisfactory

12	Element : CHECK THAT THERE IS NO ASSEMBLY SUSPENDED FROM THE SPENT FUEL HANDLING TOOL Comments :	Standards : UPON CUE, RECOGNIZES THE STEP IS N/A	Conditions : Cue: There Is No Assembly Suspended From The Spent Fuel Handling Tool
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Terminating Cues :

MITIGATING ACTIONS ARE COMPLETE FOR THE LOSS OF REFUELING POOL LEVEL, THIS JPM IS COMPLETE

JPM NO. 4

PERFORM CALCULATIONS FOR A GASEOUS RADIOACTIVE RELEASE PERMIT

Job Performance Measure Exam

Submitted By : Don Jackson_

9/20/2003

Date

Reviewed By

Date

SME Review/Validation By

Date

Approved By

Date

JPM Tasks

Task ID: 2.3.8

Description: PERFORM CALCULATIONS FOR A GASEOUS RADIOACTIVE RELEASE PERMIT

Trainee: _____ Evaluator: _____

Evaluator Signature _____ Date _____

Trainee Performance: Satisfactory _____ Unsatisfactory _____

Start Time _____ **Stop Time:** _____

When I tell you to begin, you are to perform the task listed above. I will describe general conditions standard(s), initiating cue(s), and answer any questions you have. I will provide access to any tools necessary to perform the task. You may use any approved reference material normally available. To satisfactory complete this task, you must perform or simulate each critical element correctly. You are to inform the examiner when you have completed the task.

General Comments (For Evaluator Use):

Task Conditions:

THE CALCUALTIONS FOR THE GDT CURIE CONTENT, PLANT VENT RELEASE RATE, ALLOWABL GDT RELEASE RATE, RELEASE TIME, AND R-44 ALARM SETPOINT ARE DONE WITHIN 25% OF ACTUAL VALUES.

Task Standards :

PERFORM CALCULATIONS FOR A GASEOUS RADIOACTIVE RELEASE PERMIT IN ACCORDANCE WITH SOP-WDS-013

K&A #: SYSTEM GENERIC 2.3.8 KNOWLEDGE OF THE PROCESS FOR PERFORMING A PLANNED GASEOUS RADIOACTIVITY RELEASE

IMPORTANCE FACTORS: SRO=3.2

VALIDATION TIME 20 MINUTES

Tools Needed:

CALCULATOR

Initiating Cues :

USING THE APPROPRIATE SECTION OF SOP-WDS-013, "GASEOUS WASTE RELEASES", PERFORM INDEPENDENT VERIFICATION OF THE CALCULATIONS PERFORMED FOR ATTACHEMNT 1," GASEOUS WASTE RELEASE PERMIT" FOR 33 LARGE GAS DECAY TANK.

- 33 LGDT PRESSURE IS 87PSIG
- THE 33 LGDT HAS BEEN ISOLATED AND SAMPLED BY CHEMISTRY
- A GASEOUS WASTE RELEASE PERMIT IS BEING PREPARED TO DISCHARGE THE DECAY TANK
- DATA NECESSARY TO SUPPORT THE RELEASE PERMIT HAS BEEN COLLECTED AND RECORDED ON ATT.1 OF SOP-WDS-013
- THE CCR PERSONAL COMPUTER IS NOT AVAILABLE, AND THE SOFTWARE CAN NOT BE USED
- THE PAB/VC EXHAUST FANS ARE IN SERVICE AND DISCHARGING AT 30,000SCFM

Safety Considerations :

NONE

Consequences of Inadequate Performance:

INACCURATE RELEASE LIMITING SETPOINTS, POSSIBLE RELEASE RATE ABOVE LEVEL PERMISSIBLE

Performance Checklist :

Element :
1 OBTAIN AND REVIEW
SOP-WDS-013

Standards :
OBTAINS AND REVIEWS
SOP-WDS-013, DETERMINES
STEP 4.2.10 APPLIES

Conditions :

Comments :

Critical Task? N

Satisfactory

Unsatisfactory

Element :
2 DETERMINE GDT CURIE
CONTENT

Standards :
PERFORMS THE FOLLOWING
CALCULATION AND RECORDS
ON ATT. 1
 $A=(1.93E+03)*C*V*P$

Conditions :

Comments :

Critical Task? Y

Satisfactory

Unsatisfactory

Element :
3 DETERMINE AVAILABLE
RELEASE RATE (D), IN
Uci/sec

Standards :
WITH R-27, CHAN 4 IN
SERVICE, DETERMINE (D)
BY SUBTRACTING THE
CURRENT READING FROM
THE ALARM SETPOINT

Conditions :
Note: Determines Error
Was Made In The Original
Calculation

Comments :

Critical Task? Y

Satisfactory

Unsatisfactory

4	Element : RECORD N/A ON ATT. 1 FOR I-131 ACTIVITY, CALCULATED ALARM SETPOINT, CALCULATED R-12 AUTO CLOSURE SETPOINT, ACTUAL R-12 AUTO CLOSURE SETPOINT	Standards : RECORDS N/A ON ATT. 1 FOR I-131 ACTIVITY, CALCULATED ALARM SETPOINT, CALCULATED R-12 AUTO CLOSURE SETPOINT, ACTUAL R-12 AUTO CLOSURE SETPOINT	Conditions :
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Comments :

Critical Task? N

Satisfactory

Unsatisfactory

5	Element : RECORD DISCHARGE MONITOR AND ACTUAL ALARM SETPOINT FOR DISCHARGE MONITOR ON ATT. 1	Standards : RECORDS MONITOR AND SETPOINT	Conditions :
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Comments :

Critical Task? N

Satisfactory

Unsatisfactory

6	Element : DETERMINE MAX ALLOWED RELEASE RATE IN SCFM , USING $EMAX = D / (C * 472)$	Standards : PERFORMS CALCULATION AND RECORDS ON ATT. 1 $EMAX = D / (C * 472)$	Conditions : Note: This Calculation Is Also In Error On Supplied Form
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Comments :

Critical Task? Y

Satisfactory

Unsatisfactory

Terminating Cues :

TERMINATE THE JPM ONCE BOTH ERRORS HAVE BEEN IDENTIFIED

**JPM NO. 5
Emergency Plan Classification For General Emergency
Including PAR**

Job Performance Measure Exam

Submitted By Don Jackson

9/20/2003

Date

Reviewed By

Date

SME Review/Validation By

Date

Approved By

Date

JPM Tasks
2.4.41

Description: GENERAL EMERGENCY CLASSIFICATION AND PAR

Trainee: _____ Evaluator: _____

Evaluator Signature _____ Date _____

Trainee Performance: Satisfactory _____ Unsatisfactory _____

Start Time _____ **Stop Time:** _____

When I tell you to begin, you are to perform the task listed above. I will describe general conditions standard(s), initiating cue(s), and answer any questions you have. I will provide access to any tools necessary to perform the task. You may use any approved reference material normally available. To satisfactory complete this task, you must perform or simulate each critical element correctly. You are to inform the examiner when you have completed the task.

General Comments (For Evaluator Use):

Task Conditions:

A REACTOR TRIP AND SAFETY INJECTION HAVE OCCURRED, E-0 "REACTOR TRIP OR SAFETY INJECTION" IS COMPLETE AND A TRANSITION TO E-3, "STEAM GENERATOR TUBE RUPTURE" HAS OCCURRED. UPON ENTRY INTO E-3, "STEAM GENERATOR TUBE RUPTURE", THE STA REPORTS THAT A LEAKED PATH EXISTS ON HEAT SINK, THE CREW TRANSITIONS TO FR-H.1 "RESPONSE TO LOSS OF SECONDARY HEAT SINK". IT IS DETERMINED THAT A 300 GPM SGTR EXISTS ON 32 S/G, IN ADDITION A S/G SAFETY IS STUCK OPEN ON 32 S/G. WHILE IN FR-H.1 IT IS DETERMINED THAT DE-I 131 IS 475UCI/CC, R-25 IS READING 20 R/HR, AND R-26 IS READING 16 R/HR. WIND IS 7 METERS PER SECOND FROM 220 DEGREES. AN AFW PUMP IS QUICKLY RECOVERED AND FR-H.1 IS EXITED. AS THE SHIFT MANAGER, MAKE THE E-PLAN CLASSIFICATION AND ANY PROTECTIVE ACTION RECOMMENDATIONS IF NECESSARY.

ask Standards :

K&A #: ADMIN- 2.4.41- KNOWLEDGE OF THE EMERGENCY ACTION LEVELS THRESHOLDS AND CLASSIFICATIONS

Applicability: SRO

A GENERAL EMERGENCY IS DECLARED, AND ACTIONS PER IP-2001 HAVE BEEN COMPLETED INCLUDING THE ASSOCIATED PROTECTIVE ACTION RECOMMENDATION

Estimated Completion Time: 30 minutes

Tools Needed:

None

Initiating Cues :

A REACTOR TRIP AND SAFETY INJECTION HAVE OCCURRED, E-0 "REACTOR TRIP OR SAFETY INJECTION" IS COMPLETE AND A TRANSITION TO E-3, "STEAM GENERATOR TUBE RUPTURE" HAS OCCURRED. UPON ENTRY INTO E-3, "STEAM GENERATOR TUBE RUPTURE", THE STA REPORTS THAT A LEAKED PATH EXISTS ON HEAT SINK, THE CREW TRANSITIONS TO FR-H.1 "RESPONSE TO LOSS OF SECONDARY HEAT SINK". IT IS DETERMINED THAT A 300 GPM SGTR EXISTS ON 32 S/G, IN ADDITION A 1/2" S/G SAFETY IS STUCK OPEN ON 32 S/G. WHILE IN FR-H.1 IT IS DETERMINED THAT DE-I 131 IS 475UCI/CC, R-25 IS READING 20 R/HR, AND R-26 IS READING 16 R/HR. WIND IS 7 METERS PER SECOND FROM 220 DEGREES. AN AFW PUMP IS QUICKLY RECOVERED AND FR-H.1 IS EXITED. AS THE SHIFT MANAGER, MAKE THE E-PLAN CLASSIFICATION AND ANY PROTECTIVE ACTION RECOMMENDATIONS IF NECESSARY.

References :

ID	Description	Review Date	Ref Flag
IP-2001	EMERGENCY PLAN PROCEDURE FOR ED,POM, SM		X
	EMERGENCY ACTION LEVELS		X

Safety Considerations :

None

Consequences of Inadequate Performance:
DELAY OF PROTECTIVE ACTIONS FOR PUBLIC HEALTH AND SAFETY

Performance Checklist :

- | | | | |
|---|---|--|--|
| 1 | Element :
OBTAIN & REVIEW IP-3
EMERGENCY RESPONSE
ACTIVATION PROCEDURES

Comments :

Critical Task? N | Standards :
EMERGENCY RESPONSE PLAN
IS REVIEWED | Conditions : |
| | Satisfactory | Unsatisfactory | |
| 2 | Element :
REVIEW ATT 5.1 TO SELECT
GENERAL EMERGENCY
PER CATEGORY 4.2.2

Comments :

Critical Task? Y | Standards :
GENERAL EMERGENCY
IS DECLARED PER
CATEGORY 4.2.2 | Conditions :
MUST COMPLETE IN 15 MINUTES |
| | Satisfactory | Unsatisfactory | |
| 3 | Element :
SM ENTERS IP-2001 AND
ASSUMES ED, AND
ENTERS ATT 5.4

Comments :

Critical Task? N | Standards :
ENTERS IP-2001 ASSUMES ED
AND ENTERS ATT 5.4 | Conditions :
MUST COMPLETE IMMEDIATE
ACTIONS IN 15 MINUTES
THIS INCLUDES EP FORM 1 |
| | Satisfactory | Unsatisfactory | |

4 **Element :**
 SM/ED COMPLETES
 CONTROL ROOM
 INITIAL NOTIFICATION
 CHECKLIST

Standards :
 CONTROL ROOM INITIAL
 NOTIFICATION CHECKLIST
 FORM EP-4

Conditions :

Comments :

Critical Task? N

Satisfactory

Unsatisfactory

5 **Element :**
 NOTIFY SECURITY OF
 GENERAL EMERGENCY

Standards :
 CONTACTS SECURITY PER
 ATT 5.4

Conditions :

Critical Task? N

Satisfactory

Unsatisfactory

6 **Element :**
 BEGIN SITE
 ACCOUNTABILITY

Standards :
 SM TAKES ACTION PER ATT 5.4

Conditions :

CUE: SIMULATE
SOUNDING ALARMS
AND ANNOUNCEMENTS

Comments :

Critical Task? N

Satisfactory

Unsatisfactory

6 **Element :**
 COMPLETE PART 1-
 NYS RADIOLOGICAL EMER
 DATA FORM

Standards :
 EP FORM 1 PART 1 IS COMPLETED
 PER ATTACHED EXAMPLE

Conditions :

CUE: STABILITY CLASS
IS "C"

Comments :

Critical Task? Y

Satisfactory

Unsatisfactory

Element :
 7 PROTECTIVE ACTION
 RECOMMENDATION MADE
 PER IP-EP-410 "PROTECTIVE
 ACTION
 RECOMMENDATIONS"

Standards :
 EVACUATE AND IMPLEMENT
 KI ALL ERPAS 0-2 MILES (1,2,3,4,
 7,29,30,38,39,42,43,44,45,46), AND 2-5 MILES
 DOWNWIND (8,9,16,18,49) , RECOMMEND
 SHELTERING NON- EVACUATED
 ERPAS

Conditions :

Comments :

Critical Task? N

Satisfactory

Unsatisfactory

Terminating Cues :

THIS JPM IS TERMINATED ONCE THE EP FORM 1 NYS RADIOLOGICAL EMERGENCY DATA FORM IS COMPLETED WITH THE APPROPRIATE EVENT CLASSIFICATION AND PAR