

OPERATOR: \_\_\_\_\_

RO \_\_\_\_ SRO \_\_\_\_ DATE: \_\_\_\_\_

JPM NUMBER: Admin RO A1a

TASK NUMBER: U-000-AD-17

TASK TITLE: Determine Adequate Performance of License Reactivation

K/A NUMBER: 2.1.4 K/A RATING: RO 3.3

TASK STANDARD: Determine which of the reactivating personnel have correctly completed the reactivation requirements.

LOCATION OF PERFORMANCE: Class Room

REFERENCES/PROCEDURES NEEDED: OPDP-10

VALDATION TIME: 10 minutes

MAX. TIME ALLOWED: (Completed for Time Critical JPMs only)

PERFORMANCE TIME:

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Additional comment sheets attached? YES \_\_\_\_ NO \_\_\_\_

RESULTS: SATISFACTORY \_\_\_\_ UNSATISFACTORY \_\_\_\_

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
EXAMINER

**INITIAL CONDITIONS:**

3 off-shift licensed personnel are returning to shift from rotating assignments and are reactivating their licenses. The following table gives information as to hours worked under direction of an activated licensee, tours performed, etc.

License	Pre-activation Meeting	Shift 1	Shift 2	Shift 3	Shift 4	Shift 5	Shift 6	Plant Tour
RO1	Ops Training Manager Shift Manager	12 hrs U-3 RO	12 hrs U-3 RO	12 hrs U-1 RO	12 hrs tagging UO RO	12 hrs U-2 RO	12 hrs U-2 RO	Per SM instructions conducted complete plant tour with STA (SRO)
RO2	Ops Training Manager Ops Superintendent	12 hrs U-2 RO	12 hrs U-2 RO Called for Random Drug test during shift – missed end of shift turnover	12 hrs U-1 RO	12 hrs U-3 RO	12hrs U-3 RO		Per SM instructions conducted complete plant tour with extra RO assigned to that shift crew
RO3	Ops Training Manager Ops Superintendent	12 hrs U-2 RO	12 hrs U-2 RO	12 hrs U-3 RO	12 hrs U-3 RO	12 hrs U-1 RO		Conducted complete plant tour with U-2 RB AUO

**INITIATING CUE:**

The Shift Manager has tasked you to determine which of the personnel, if any, have completed the requirements for license reactivation. If any personnel do not meet the requirements for license reactivation state the reason(s) why.

**START TIME** \_\_\_\_\_

\*\*\*\*\*

**Performance Step 1:**

Critical  Not Critical

Analyzes information provided to determine which personnel meet the requirements for license reactivation.

**Standard:**

Determines RO 2 meets the requirements for license reactivation.

SAT \_\_\_ UNSAT \_\_\_ N/A \_\_\_ COMMENTS: \_\_\_\_\_

\_\_\_\_\_

\*\*\*\*\*

**Performance Step 2:**

Critical  Not Critical

States the reason why RO1 does not meet the requirements for license reactivation.

**Standard:**

RO1 did not interview with Ops Superintendent contrary to OPDP-10.

SAT \_\_\_ UNSAT \_\_\_ N/A \_\_\_ COMMENTS: \_\_\_\_\_

\_\_\_\_\_

\*\*\*\*\*

**Performance Step 3:**

Critical  Not Critical

States the reason why RO3 does not meet the requirements for license reactivation.

**Standard:**

RO3 performed plant tour with a non-licensed person contrary to OPDP-10

SAT \_\_\_ UNSAT \_\_\_ N/A \_\_\_ COMMENTS: \_\_\_\_\_

\_\_\_\_\_

END OF TASK

**STOP TIME** \_\_\_\_\_

\*\*\*\*\*

**Class Room**

**ANSWER KEY**

\*\*\*\*\*

**INITIAL CONDITIONS:**

3 licensed personnel are returning to shift from rotating assignments and are reactivating their licenses. The following table gives information as to hours worked under direction of an activated licensee, tours performed, etc.

License	Pre-activation Meeting	Shift 1	Shift 2	Shift 3	Shift 4	Shift 5	Shift 6	Plant Tour	Performance Step
RO1	Ops Training Manager Shift Manager	12 hrs U-3 RO	12 hrs U-3 RO	12 hrs U-1 RO	12 hrs tagging UO RO	12 hrs U-2 RO	12 hrs U-2 RO	Per SM instructions conducted complete plant tour with STA (SRO)	<b>Does Not Meet</b>
RO2	Ops Training Manager Ops Superintendent	12 hrs U-2 RO	12 hrs U-2 RO Called for Random Drug test during shift – missed end of shift turnover	12 hrs U-1 RO	12 hrs U-3 RO	12hrs U-3 RO		Per SM instructions conducted complete plant tour with extra RO assigned to that shift crew	Meets requirements
RO3	Ops Training Manager Ops Superintendent	12 hrs U-2 RO	12 hrs U-2 RO	12 hrs U-3 RO	12 hrs U-3 RO	12 hrs U-1 RO		Conducted complete plant tour with U-2 RB AUO	<b>Does Not Meet</b>

**INITIATING CUE:**

The Shift Manager has tasked you to determine which of the personnel, if any, have completed the requirements for license reactivation. If any personnel do not meet the requirements for license reactivation state the reason(s) why.

OPERATOR: \_\_\_\_\_

RO \_\_\_\_ SRO \_\_\_\_ DATE: \_\_\_\_\_

JPM NUMBER: Admin SRO A1a

TASK NUMBER: U-000-AD-17

TASK TITLE: Determine Adequate Performance of License Reactivation

K/A NUMBER: 2.1.4 K/A RATING: SRO 3.8

TASK STANDARD: Determine which of the reactivating personnel have correctly completed the reactivation requirements.

LOCATION OF PERFORMANCE: Class Room

REFERENCES/PROCEDURES NEEDED: OPDP-10

VALDATION TIME: 15 minutes

MAX. TIME ALLOWED: (Completed for Time Critical JPMs only)

PERFORMANCE TIME:

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Additional comment sheets attached? YES \_\_\_ NO \_\_\_

RESULTS: SATISFACTORY \_\_\_ UNSATISFACTORY \_\_\_

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
EXAMINER

**INITIAL CONDITIONS:**

6 off-shift licensed personnel are returning to shift from rotating assignments and are reactivating their licenses. The following table gives information as to hours worked under direction of an activated licensee, tours performed, etc.

<b>License</b>	<b>Pre-activation Meeting</b>	<b>Shift 1</b>	<b>Shift 2</b>	<b>Shift 3</b>	<b>Shift 4</b>	<b>Shift 5</b>	<b>Shift 6</b>	<b>Plant Tour</b>
<b>SRO1</b>	Ops Training Manager Ops Superintendent	12 hrs U-1 SRO	12 hrs U-2 SRO		12 hrs U-2 SRO	12 hrs U-2 SRO		Conducted complete plant tour with SM
<b>SRO2</b>	Ops Training Manager Ops Superintendent	12 hrs U-2 SRO	12 hrs U-2 SRO	12 hrs U-3 SRO		12 hrs STA		Per SM instructions conducted complete plant tour with Outside US (SRO)
<b>SRO 3</b>	Ops Training Manager Ops Superintendent		12 hrs U-1 SRO	12 hrs U-1 SRO	12 hrs U-1 SRO	12 hrs U-2 SRO	12 hrs WCC SRO	Per SM instructions conducted complete plant tour with STA (SRO)

**INITIATING CUE:**

The Shift Manager has tasked you to determine which of the personnel, if any, have completed the requirements for license reactivation. If any personnel do not meet the requirements for license reactivation state the reason(s) why.

**START TIME** \_\_\_\_\_

\*\*\*\*\*

Performance Step 1:

Critical  Not Critical

Analyzes information provided to determine which personnel meet the requirements for license reactivation.

Standard:

Determines SRO 1 and 3 meet the requirements for license reactivation.

SAT \_\_\_ UNSAT \_\_\_ N/A \_\_\_ COMMENTS: \_\_\_\_\_

\_\_\_\_\_

\*\*\*\*\*

Performance Step 2:

Critical  Not Critical

States the reason why SRO2 does not meet the requirements for license reactivation.

Standard:

SRO 2 did not complete "shift 5" under the supervision of an active licensed individual in the position (Shift Manager or Unit Supervisor as applicable for SROs), therefore he did not meet his 40 hour requirement

SAT \_\_\_ UNSAT \_\_\_ N/A \_\_\_ COMMENTS: \_\_\_\_\_

\_\_\_\_\_

END OF TASK

**STOP TIME** \_\_\_\_\_

\*\*\*\*\*

**Class Room**

**ANSWER KEY**

\*\*\*\*\*

**INITIAL CONDITIONS:**

6 licensed personnel are returning to shift from rotating assignments and are reactivating their licenses. The following table gives information as to hours worked under direction of an activated licensee, tours performed, etc.

License	Pre-activation Meeting	Shift 1	Shift 2	Shift 3	Shift 4	Shift 5	Shift 6	Plant Tour	Performance Step
<b>SRO1</b>	Ops Training Manager Ops Superintendent	12 hrs U-1 SRO	12 hrs U-2 SRO		12 hrs U-2 SRO	12 hrs U-2 SRO		Conducted complete plant tour with SM	Meets requirements
<b>SRO2</b>	Ops Training Manager Ops Superintendent	12 hrs U-2 SRO	12 hrs U-2 SRO	12 hrs U-3 SRO		12 hrs STA		Per SM instructions conducted complete plant tour with Outside US (SRO)	<b>Does Not Meet</b>
<b>SRO 3</b>	Ops Training Manager Ops Superintendent		12 hrs U-1 SRO	12 hrs U-1 SRO	12 hrs U-1 SRO	12 hrs U-2 SRO	12 hrs WCC SRO	Per SM instructions conducted complete plant tour with STA (SRO)	Meets requirements

**INITIATING CUE:**

The Shift Manager has tasked you to determine which of the personnel, if any, have completed the requirements for license reactivation. If any personnel do not meet the requirements for license reactivation state the reason(s) why.



OPERATOR: \_\_\_\_\_

RO \_\_\_\_ SRO \_\_\_\_ DATE: \_\_\_\_\_

JPM NUMBER: Admin RO A1b

TASK NUMBER: Conduct of Operations

TASK TITLE: 2-SR-2 ICS Computer points

K/A NUMBER: 2.1.19 K/A RATING: RO 3.9

TASK STANDARD: Perform Operator logs using ICS screens in accordance with 2-SR-2  
Instrument Checks and Observations for log tables 1.1, 1.6, 1.25, and 1.30.  
Verify acceptance criteria are satisfied in accordance with notes.

LOCATION OF PERFORMANCE: Unit 2 Simulator (ICS computer terminal)

REFERENCES/PROCEDURES NEEDED: 2-SR-2 Rev 71

VALIDATION TIME: 20 minutes

MAX. TIME ALLOWED: (Completed for Time Critical JPMs only)

PERFORMANCE TIME:

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Additional comment sheets attached? YES \_\_\_\_ NO \_\_\_\_

RESULTS: SATISFACTORY \_\_\_\_ UNSATISFACTORY \_\_\_\_

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
EXAMINER

**INITIAL CONDITIONS:** You are a Unit Operator assigned to Unit 2, and it is Friday morning at 0800. 2-SR-2, Instrument Checks and Observations, is being performed. All 2-SR-2 instrument checks and observations are complete with the exception of table 1.1, 1.6, 1.25, and 1.30.

**INITIATING CUE:** The Unit Supervisor directs you as the Unit Operator to complete 2-SR-2 for tables 1.1, 1.6, 1.25 and 1.30, utilizing only the ICS computer to obtain data

\*\*\*\*\*

**Simulator**

\*\*\*\*\*

**INITIAL CONDITIONS:** You are a Unit Operator assigned to Unit 2, and it is Friday morning at 0800. 2-SR-2, Instrument Checks and Observations, is being performed. All 2-SR-2 instrument checks and observations are complete with the exception of table 1.1, 1.6, 1.25, and 1.30.

**INITIATING CUE:** The Unit Supervisor directs you as the Unit Operator to complete 2-SR-2 for tables 1.1, 1.6, 1.25 and 1.30, utilizing only the ICS computer to obtain data

START TIME \_\_\_\_\_

\*\*\*\*\*

Performance Step 1:

Critical  Not Critical

Refers to 2-SR-2, Instrument Checks and Observations, table 1.1

TABLE 1.1 CORE THERMAL POWER AND CORE POWER DISTRIBUTION DAY SHIFT WEEK: \_\_\_\_\_ to \_\_\_\_\_

APPLICABILITY: Mode 1 when  $\geq 25\%$  RTP  
Record the readings as soon as possible after the generator breaker has been closed.

Criteria Source: 3.2.1.1; 3.2.2.1; 3.2.3.1; DEFINITIONS SECTION 1.1 - FSAR 3.7.7

LOCATION: ICS Computer (Case Summary - CSUM)

DAY	TIME Note 2	Core Thermal Power (MWt)	Percent Power (% RTP)	LIMIT (AC)	MFLCPR (Note 3)	MAPRAT (Note 3)	MFDLRX (Note 3)	LIMIT (AC)	Review Initials		
									Unit Operator	Unit Supvr	
Friday	0800			Notes 1 & 2				Notes 3, 4, & 5			
	1000										
	1200										
	1400										
	1600										
Saturday	0800										
	1000										
	1200										
	1400										
	1600										
Sunday	0800										
	1000										
	1200										
	1400										
	1600										
Monday	0800										
	1000										
	1200										
	1400										
	1600										

NOTES ARE FOLLOWING THE TABLE

Standard:

Selects SR-2 Group Display from the Group Display menu OR types the code "CSUM" on ICS computer to obtain data and completes table 1.1 Data for Friday at 0800, Records 3456 for MWt, 100% for RTP, .899 for MFLCPR, .672 for MAPRAT and .769 for MFDLRX

SAT\_\_ UNSAT\_\_ N/A\_\_ COMMENTS: \_\_\_\_\_

\*\*\*\*\*

Performance Step 2:

Critical X Not Critical

- (1) Compliance with the Licensed Power Limit (LPL) (3458 Mwt) is demonstrated by the following process:
  - A. No actions are allowed that would intentionally raise core thermal power above 3458 Mwt for any period of time. Small, short-term fluctuations in power that are not under the direct control of the unit operator are not considered intentional.
  - B. Closely monitor the thermal power during steady-state power operation with the goal of maintaining the two-hour average at or below 3458 Mwt. If the core thermal power average for a 2-hour period is found to exceed 3458 Mwt, Operations take timely action to ensure that thermal power is less than or equal to 3458 MWt. (This is implemented by taking action when any running average less than or equal to the 2 hour average exceeds 3458 Mwt.)
  - C. The core thermal power for an 8 hour period ( 8 hr average) is not to exceed 3458 Mwt.
  - D. If an evolution is expected to cause a transient increase in reactor power that could exceed 3458 Mwt, action should be taken to lower core power prior to performing the evolution.
  - E. IF power is > 3463, REDUCE power.
  - F. IF power is 3458 to 3463 MWt after allowing time for recent perturbations to settle, REDUCE power and EVALUATE the trend.
  - G. IF any running 30 min Avg, 1 hr average, or 2 hr average is > 3458 MWt, REDUCE power.
- (2) Core Thermal Power is normally recorded every 2 hours when required. However, these readings may be marked N/A during TIP trace runs, control rod pattern adjustments, or anytime Core Monitoring System is blocked and/or < 25% power. The Reactor Engineer is responsible for monitoring Core Thermal Limits. Monitoring of Core Thermal Power and other Core Thermal Limits is recommended following completion of planned rise in power and following any unexpected power change. If core monitoring software becomes unavailable, the Unit Supervisor/SRO and Reactor Engineer shall determine the appropriate frequency for monitoring Core Thermal Power but should not exceed 24 hours, using backup core monitoring computer, and taking into consideration current core conditions and margin to thermal limits. Power changes should not normally be made without the core monitoring software being available.
- (3)
  - A. Consult the Reactor Engineer when value  $\geq 0.955$ . Refer to 0-TI-248 for Administrative Limits.
  - B. Consult the Reactor Engineer when value  $\geq 0.835$ . Refer to 0-TI-248 for Administrative Limits.
  - C. Consult the Reactor Engineer when value  $\geq 0.985$ . Refer to 0-TI-248 for Administrative Limits.
- (4) If any Turbine Bypass valve(s) are inoperable or a Recirculation Loop is out of service, contact the Reactor Engineer and refer to the COLR for Turbine Bypass Out of Service (TBOOS) or Single Loop Operation (SLO) limits which must be applied.
- (5) MAPRAT within limits is used to verify that all APLHGRs are within the limits specified within the COLR, and <.850. MFDLRX within limits is used to verify that all LHGRs are within the limits specified within the COLR. MFLCPR within limits is used to verify that all MCPRs are within the limits specified within the COLR, and < .970 when core thermal power is > 90% RTP.

Standard:

Initial for Unit Operator for Friday at 0800 when acceptance criteria is verified in accordance with above notes.

SAT\_\_ UNSAT\_\_ N/A \_\_ COMMENTS: \_\_\_\_\_

\_\_\_\_\_

\*\*\*\*\*

Performance Step 3:

Critical X Not Critical

Refers to 2-SR-2, Instrument Checks and Observations, table 1.6

TABLE 1.6		HEAT BALANCE RELATED ICS ALARM SETPOINTS (Note 1)				DAY SHIFT	WEEK	to	
APPLICABILITY: Mode 1 when > 25% RTP(Refer To P&L Step 3.6A) RECORD the readings as soon as possible after the generator breaker has been closed.									
Criteria Source: BPPER951S14									
LOCATION: ICS Computer									
	ICS Points					MAX DEV Note 2	Verify HI and HH HI alarm setpoints listed in Table 1.B.1 & 1.B.2 are NOT exceeded. (Note 3) SAT / UNSAT / N/A.	Review Initials	
	3-48A (°F)	3-48B (°F)	3-50A (°F)	3-50B (°F)	N330017 (°F)			U/O	Unit Supvr
Friday						2°F			
Saturday									
Sunday									
Monday									
Tuesday									
Wednesday									
Thursday									

Standard:

Selects SR-2 Group Display from the Group Display menu OR types the specific codes for each ICS point into the "Single Value Display" (for example: 3-48A, 3-48B, etc...) and completes table 1.6 Data for Friday. Records 377.2 for listed ICS points

SAT\_\_ UNSAT\_\_ N/A \_\_ COMMENTS: \_\_\_\_\_

\*\*\*\*\*

Performance Step 4:

Critical X Not Critical

- (1) The computer points listed in Table 1.B.1 and 1.B.2 are inputs to the ICS Core Thermal Power Heat Balance calculations. The points are monitored to ensure the inputs are in agreement and to ensure the license limits for thermal power are maintained. In addition to the above, these points should be monitored any time reactor power changes are performed.
- (2) A difference between Feedwater temperature points 3-48A, 3-48B, 3-50A, 3-50B, and NSS0017 of greater than 2 degrees will require the notification of Site Engineering and suspending any rise in power until the discrepancy is resolved.
- (3) An alarm setpoint being exceeded will require notifying the Unit Supervisor immediately and, if action cannot be taken immediately to return the value to within limits, Site Engineering will be notified for assistance.

TABLE 1.B.1			
ICS POINT	DESCRIPTION	HI ALARM	HI HI ALARM
CALCO20	Rx Power 30 Min Avg.	3458	3483
CALCO21	Rx Power 1 Hr. Avg.	3458	3481
CALCO83	Rx Power 2 Hr. Avg.	3458	3459
CALCO88	Generator Power	1185	1190
CALCO26	Efficiency	35	36
CALCO27	Load Line	N/A	113.6
CALCO24	Rx Power %	100.2	100.5

TABLE 1.B.2			
ICS POINT	DESCRIPTION	HI ALARM	HI HI ALARM
3-48A	FW Temp	382	386
3-48B	FW Temp	382	386
3-50A	FW Temp	382	386
3-50B	FW Temp	382	386
NSS0017	Avg. FW Temp.	382	386
CONSD400	Total RWCU Flow	0.15	N/A

Standard:

Documents Sat and initials for Unit Operator for Friday when Maximum Deviation between Feedwater temperature computer points are within 2 degrees (Note 2) and the conditions of Note 3 are satisfied IAW with tables 1.B.1 and 1.B.2.

SAT\_\_\_ UNSAT\_\_\_ N/A \_\_\_ COMMENTS: \_\_\_\_\_

\*\*\*\*\*

Performance Step 5:

Critical X Not Critical

Refers to 2-SR-2, Instrument Checks and Observations, table 1.25

TABLE 1.25 LPRM INSTRUMENTATION											DAY SHIFT	WEEK: _____ to _____					
APPLICABILITY: Modes 1 & 2 Readings are required at all times.																	
Criteria Source: Technical Requirements Manual TSR 3.3.5.3																	
LOCATION: Panel 2-9-14 and ICS Computer																	
DAY	TIME	# LPRMs BYPASSED (Note 1)								Total # LPRMs Bypassed (Note 2)	# of LPRM readings $\leq$ 3% on ICS (Note 3)	MAX DEV (AC)	All Data SAT/UNSAT	Review Initials			
		APRM #2	LPRM #2	APRM #4	LPRM #4	APRM #3	LPRM #3	APRM #1	LPRM #1					UO	Unit Supvr		
Friday	0800											0 (Note 4)					
Saturday	0800																
Sunday	0800																
Monday	0800																
Tuesday	0800																
Wednesday	0800																
Thursday	0800																

Standard:

Clicks on "Live LPRM Display" in the "Nuclear Heat Balance menu" and completes table 1.25 Data for Friday, #LPRMs reading  $\leq$  3% on ICS. Records ZERO

SAT\_\_ UNSAT\_\_ N/A \_\_ COMMENTS: \_\_\_\_\_

\*\*\*\*\*

Performance Step 6:

Critical X Not Critical

- (1) Record number of LPRMs bypassed in the four APRM and LPRM cabinets as observed at Panel 2-9-14. add these values together and record as Total # LPRMs Bypassed.
- (2) Less than 20 LPRMs in OPERATE or Less than 3 per level for any APRM will result in a Rod Block and a trouble alarm on the display panel. This does not yield an automatic APRM trip, but does, however, make the associated APRM INOP.
- (3) Record number of LPRMs reading less than 3% on the LPRM printout or display on ICS.
- (4) MAX DEV is not required to be met when the APRMs are downscale; however, unexpected inconsistencies should be reported to the Reactor Engineer. The total number of LPRM's bypassed shall equal the number of LPRM's reading less than 3% on ICS.

Standard:

Documents Sat and initials for Unit Operator for Friday when the conditions of Note 4 are satisfied.

SAT\_\_ UNSAT\_\_ N/A \_\_ COMMENTS: \_\_\_\_\_



\*\*\*\*\*

Performance Step 7:

Critical X Not Critical

Refers to 2-SR-2, Instrument Checks and Observations, table 1.30

TABLE 1.30 REACTOR VESSEL STEAM DOME PRESSURE INSTRUMENTATION DAY SHIFT WEEK: \_\_\_\_\_ to \_\_\_\_\_

APPLICABILITY: Modes 1 & 2 Readings are required at all times.																				
Surveillance Requirements: 3.3.1.1.(f), 3.3.3.1.1, 3.4.10.1																				
LOCATION: ICS (Note 1 & 4)				2-9-86				2-9-85		2-9-84		2-9-83								
Reference Leg	TIME (Note 4)	3-74A	3-74B	MAX DEV (AC)	D		C		B		A		MAX DEV (AC)	MAX LIMIT	All Data SAT/UNSAT	Review Initials				
					2-PIS-3-22D	2-PIS-3-22C	2-PIS-3-22BB	2-PIS-3-22AA	UO	Unit Supvr										
Friday	0800			40 psig (Note 2)								60 psig (Note 2)	Note 3 Note 5							
Saturday	0800																			
Sunday	0800																			
Monday	0800																			
Tuesday	0800																			
Wednesday	0800																			
Thursday	0800																			

Standard:

Selects SR-2 Group Display from the Group Display menu OR types the specific codes for each ICS point into the "Single Value Display" (for example: 3-74A, 3-74B, etc...) and completes table 1.30 Data for Friday. Records approximately 1050 psig for ICS point 3-74A and approximately 1005 psig for ICS point 3-74B.

SAT\_\_ UNSAT\_\_ N/A \_\_ COMMENTS: \_\_\_\_\_

\*\*\*\*\*

Performance Step 8:

Critical  Not Critical

- (1) These readings may be obtained from ICS using the Single Value Display or from the ATU output voltage translated into a PRESSURE Signal for the specific instruments. For ICS, type in "SVD" for Single Value Display, enter the point desired as "3-74A", record reading, select F4, enter "3-74B", record the second reading.
- (2) 3-74A and 3-74B have a Maximum allowable deviation of 40 psig, AND 2-PIS-3-22D, -PIS-3-22C, 2-PIS-3-22BB, & 2-PIS-3-22AA, have a Maximum allowable deviation of 60 psig. No comparison is required between the 3-74A(B) and 2-PIS-3-22D(C)(BB)(AA).
- (3) 3-74A and 3-74B SHALL be  $\leq 1050$  psig. 2-PIS-3-22D, 2-PIS-3-22C, 2-PIS-3-22BB, & 2-PIS-3-22AA SHALL be  $\leq 1090$  psig.
- (4) 3-74A and 3-74B are to be recorded at 0800. The Auxiliary Instrument Room readings are not required to be taken at precisely 0800.
- (5) Following a change to Reactor Power and/or Pressure, verify the Steam Dome Limits are within the 0-TI-248, Administrative Limits and Design Analysis Limits (Appendix S)

Standard:

Reviews notes and documents UNSAT and initials for Unit Operator for Friday when the conditions of Notes 2 and 3 are reviewed.

SAT\_\_ UNSAT\_\_ N/A \_\_ COMMENTS: \_\_\_\_\_  
\_\_\_\_\_

END OF TASK

STOP TIME \_\_\_\_

C

C

C

<b>BFN Unit 2</b>	<b>Instrument Checks and Observations</b>	<b>2-SR-2 Rev. 0072 Page 21 of 149</b>
-----------------------	---	--

**Attachment 2  
(Page 1 of 87)**

**Surveillance Procedure Data Package - Modes 1, 2, & 3**

TABLE 1.1 CORE THERMAL POWER AND CORE POWER DISTRIBUTION DAY SHIFT WEEK:     This week     to     Next week    

APPLICABILITY:		Mode 1 when $\geq 25\%$ RIP Record the readings as soon as possible after the generator breaker has been closed.									
Criteria Source:		3.2.1.1; 3.2.2.1; 3.2.3.1; DEFINITIONS SECTION 1.1 - FSAR 3.7.7									
LOCATION:		ICS Computer (Case Summary - CSUM)									
DAY	TIME Note 2	Core Thermal Power (MWt)	Percent Power (% RTP)	LIMIT (AC)	MFLCPR (Note 3 A)	MAPRAT (Note 3 B)	MFDLRX (Note 3 C)	LIMIT (AC)	Review Initials		
									Unit Operator	Unit Supvr	
Friday	0800	345.3	100.0	Notes 1 & 2	0.999	0.672	0.769	Notes 3, 4, & 5	Initials		
	1000										
	1200										
	1400										
	1600										
Saturday	1800										
	0800										
	1000										
	1200										
	1400										
Sunday	1600										
	1800										
	0800										
	1000										
	1200										
Monday	1400										
	1600										
	1800										
	0800										
	1000										

NOTES ARE FOLLOWING THE TABLE

<b>BFN Unit 2</b>	<b>Instrument Checks and Observations</b>	<b>2-SR-2 Rev. 0072 Page 23 of 149</b>
-----------------------	---	--

**Attachment 2  
(Page 3 of 87)**

**Surveillance Procedure Data Package - Modes 1, 2, & 3**

- (1) Compliance with the Licensed Power Limit (LPL) (3458 Mwt) is demonstrated by the following process:
- A. No actions are allowed that would intentionally raise core thermal power above 3458 Mwt for any period of time. Small, short-term fluctuations in power that are not under the direct control of the unit operator are not considered intentional.
  - B. Closely monitor the thermal power during steady-state power operation with the goal of maintaining the two-hour average at or below 3458 Mwt. If the core thermal power average for a 2-hour period is found to exceed 3458 Mwt, Operations take timely action to ensure that thermal power is less than or equal to 3458 Mwt. (This is implemented by taking action when any running average less than or equal to the 2 hour average exceeds 3458 Mwt.)
  - C. The core thermal power for an 8 hour period ( 8 hr average) is not to exceed 3458 Mwt.
  - D. If an evolution is expected to cause a transient increase in reactor power that could exceed 3458 Mwt, action should be taken to lower core power prior to performing the evolution.
  - E. IF power is > 3463, REDUCE power.
  - F. IF power is 3458 to 3463 Mwt after allowing time for recent perturbations to settle, REDUCE power and EVALUATE the trend.
  - G. IF any running 30 min Avg, 1 hr average, or 2 hr average is > 3458 Mwt, REDUCE power.
- (2) Core Thermal Power is normally recorded every 2 hours when required. However, these readings may be marked N/A during TIP trace runs, control rod pattern adjustments, or anytime Core Monitoring System is blocked and/or < 25% power. The Reactor Engineer is responsible for monitoring Core Thermal Limits. Monitoring of Core Thermal Power and other Core Thermal Limits is recommended following completion of planned rise in power and following any unexpected power change. If core monitoring software becomes unavailable, the Shift Manager and Reactor Engineer shall determine the appropriate frequency for monitoring Core Thermal Power but should not exceed 24 hours, using backup core monitoring computer, and taking into consideration current core conditions and margin to thermal limits. Power changes should not normally be made without the core monitoring software being available.
- (3)
- A. Consult the Reactor Engineer when value  $\geq 0.955$ . Refer to 0-TI-248 for Administrative Limits.
  - B. Consult the Reactor Engineer when value  $\geq 0.835$ . Refer to 0-TI-248 for Administrative Limits.
  - C. Consult the Reactor Engineer when value  $\geq 0.985$ . Refer to 0-TI-248 for Administrative Limits.

<b>BFN Unit 2</b>	<b>Instrument Checks and Observations</b>	<b>2-SR-2 Rev. 0072 Page 31 of 149</b>
-----------------------	---	--

**Attachment 2  
(Page 11 of 87)**

**Surveillance Procedure Data Package - Modes 1, 2, & 3**

TABLE 1.6 HEAT BALANCE RELATED ICS ALARM SETPOINTS (Note 1) DAY SHIFT WEEK:     This week         Next week    

APPLICABILITY: Mode 1 when $\geq$ 25% RTP Record the readings as soon as possible after the generator breaker has been closed.									
Criteria Source: BFPER951914									
LOCATION: ICS Computer									
	ICS Points					MAX DEV	HI and HI HI alarm setpoints listed in Table 1.B.1 & 1.B.2 are NOT exceeded. (Note 3) SAT / UNSAT / N/A	Review Initials	
	3-48A (°F)	3-48B (°F)	3-50A (°F)	3-50B (°F)	NSS0017 (°F)			UO	Unit Supvr
Friday	37.2	37.2	37.2	37.2	37.2	2°F (Note 2)	Initials		
Saturday									
Sunday									
Monday									
Tuesday									
Wednesday									
Thursday									

- (1) The computer points listed in Table 1.B.1 and 1.B.2 are inputs to the ICS Core Thermal Power Heat Balance calculations. The points are monitored to ensure the inputs are in agreement and to ensure the license limits for thermal power are maintained. In addition to the above, these points should be monitored any time reactor power changes are performed.
- (2) A difference between Feedwater temperature points 3-48A, 3-48B, 3-50A, 3-50B, and NSS0017 of greater than 2 degrees will require the notification of Site Engineering and suspending any rise in power until the discrepancy is resolved.
- (3) An alarm setpoint being exceeded will require notifying the Unit Supervisor immediately and, if action cannot be taken immediately to return the value to within limits, Site Engineering will be notified for assistance.

ICS POINT	DESCRIPTION	HI ALARM	HI HI ALARM
CALCO20	Rx Power 30 Min Avg.	3458	3463
CALCO21	Rx Power 1 Hr. Avg.	3458	3461
CALCO83	Rx Power 2 Hr. Avg.	3458	3459
CALCO88	Generator Power	1185	1190
CALCO26	Efficiency	35	36
CALCO27	Load Line	N/A	113.6
CALCO24	Rx Power %	100.2	100.5

ICS POINT	DESCRIPTION	HI ALARM	HI HI ALARM
3-48A	FW Temp	382	386
3-48B	FW Temp	382	386
3-50A	FW Temp	382	386
3-50B	FW Temp	382	386
NSS0017	Avg. FW Temp.	382	386
CONSO400	Total RWCU Flow	0.15	N/A

<b>BFN Unit 2</b>	<b>Instrument Checks and Observations</b>	<b>2-SR-2 Rev. 0072 Page 48 of 149</b>
-----------------------	---	--

**Attachment 2  
(Page 28 of 87)**

**Surveillance Procedure Data Package - Modes 1, 2, & 3**

TABLE 1.25 LPRM INSTRUMENTATION DAY SHIFT WEEK:     This week     to     Next week    

APPLICABILITY:		Modes 1 & 2 Readings are required at all times.															
Criteria Source:		Technical Requirements Manual TSR 3.3.5.3															
LOCATION:		Panel 2-9-14 and ICS Computer													Review Initials		
DAY	TIME	# LPRMs BYPASSED (Note 1)								Total # LPRMs Bypassed (Note 2)	# of LPRM readings ≤ 3% on ICS (Note 3)	MAX DEV (AC)	All Data SAT/UNSAT		UO	Unit Supvr	
		APRM #2	LPRM #2	APRM #4	LPRM #4	APRM #3	LPRM #3	APRM #1	LPRM #1				SAT	initials			
Friday	0800	0	0	0	0	0	0	0	0	0	0	0 (Note 4)	SAT	initials			
Saturday	0800																
Sunday	0800																
Monday	0800																
Tuesday	0800																
Wednesday	0800																
Thursday	0800																

- (1) Record number of LPRMs bypassed in the four APRM and LPRM cabinets as observed at Panel 2-9-14. Add these values together and record as Total # LPRMs Bypassed.
- (2) Less than 20 LPRMs in OPERATE or Less than 3 per level for any APRM will result in a Rod Block and a trouble alarm on the display panel. This does not yield an automatic APRM trip, but does, however, make the associated APRM INOP.
- (3) Record number of LPRMs reading less than 3% on the LPRM printout or display on ICS.
- (4) MAX DEV is not required to be met when the APRMs are downscale; however, unexpected inconsistencies should be reported to the Reactor Engineer. The total number of LPRM's bypassed shall equal the number of LPRM's reading less than 3% on ICS.

<b>BFN Unit 2</b>	<b>Instrument Checks and Observations</b>	<b>2-SR-2 Rev. 0072 Page 54 of 149</b>
-----------------------	---	--

**Attachment 2  
(Page 34 of 87)**

**Surveillance Procedure Data Package - Modes 1, 2, & 3**

TABLE 1.30 REACTOR VESSEL STEAM DOME PRESSURE INSTRUMENTATION DAY SHIFT WEEK:     This week     to     Next week    

APPLICABILITY: Modes 1 & 2 Readings are required at all times.															
Surveillance Requirements: 3.3.1.1.(f3), 3.3.3.1.1, 3.4.10.1															
LOCATION: ICS (Note 1 & 4)				MAX DEV (AC)	2-9-86	2-9-85	2-9-84	2-9-83	MAX DEV (AC)	MAX LIMIT	All Data SAT/UNSAT	Review Initials			
Reference Leg	TIME (Note 4)	3-74A	3-74B		D	C	B	A				UO	Unit Supvr		
Friday	0800	1050	1005	40 psig (Note 2)	2-PIS-3-22D	2-PIS-3-22C	2-PIS-3-22BB	2-PIS-3-22AA	60 psig (Note 2)	Note 3 Note 5	UNSAT	initials			
Saturday	0800														
Sunday	0800														
Monday	0800														
Tuesday	0800														
Wednesday	0800														
Thursday	0800														

- (1) These readings may be obtained from ICS using the Single Value Display or from the ATU output voltage translated into a PRESSURE Signal for the specific instruments. For ICS, type in "SVD" for Single Value Display, enter the point desired as "3-74A", record reading, select F4, enter "3-74B", record the second reading.
- (2) 3-74A and 3-74B have a Maximum allowable deviation of 40 psig, AND 2-PIS-3-22D, 2-PIS-3-22C, 2-PIS-3-22BB, & 2-PIS-3-22AA, have a Maximum allowable deviation of 60 psig. No comparison is required between the 3-74A(B) and 2-PIS-3-22D(C)(BB)(AA).
- (3) 3-74A and 3-74B SHALL be ≤ 1050 psig. 2-PIS-3-22D, 2-PIS-3-22C, 2-PIS-3-22BB, & 2-PIS-3-22AA SHALL be ≤ 1090 psig.
- (4) 3-74A and 3-74B are to be recorded at 0800. The Auxiliary Instrument Room readings are not required to be taken at precisely 0800.
- (5) Following a change to Reactor Power or Pressure, verify the Steam Dome Limits are within the 0-TI-248, Administrative Limits and Design Analysis Limits (Appendix S)





<b>BFN Unit 2</b>	<b>Instrument Checks and Observations</b>	<b>2-SR-2 Rev. 0072 Page 21 of 149</b>
-----------------------	---	--

**Attachment 2  
(Page 1 of 87)**

**Surveillance Procedure Data Package - Modes 1, 2, & 3**

TABLE 1.1 CORE THERMAL POWER AND CORE POWER DISTRIBUTION DAY SHIFT WEEK:           This week           to           Next week          

APPLICABILITY:		Mode 1 when $\geq 25\%$ RTP Record the readings as soon as possible after the generator breaker has been closed.										
Criteria Source:		3.2.1.1; 3.2.2.1; 3.2.3.1; DEFINITIONS SECTION 1.1 - FSAR 3.7.7										
LOCATION:		ICS Computer (Case Summary - CSUM)							Review Initials			
DAY	TIME Note 2	Core Thermal Power (MWt)	Percent Power (% RTP)	LIMIT (AC)	MFLCPR (Note 3.A)	MAPRAT (Note 3.B)	MFDLRX (Note 3.C)	LIMIT (AC)	Unit Operator	Unit Supvr		
Friday	0800			Notes 1 & 2				Notes 3, 4, & 5				
	1000											
	1200											
	1400											
	1600											
Saturday	0800											
	1000											
	1200											
	1400											
	1600											
Sunday	0800											
	1000											
	1200											
	1400											
	1600											
Monday	0800											
	1000											
	1200											
	1400											
	1600											
	1800											

NOTES ARE FOLLOWING THE TABLE!

<b>BFN Unit 2</b>	<b>Instrument Checks and Observations</b>	<b>2-SR-2 Rev. 0072 Page 23 of 149</b>
-----------------------	---	--

**Attachment 2  
(Page 3 of 87)**

**Surveillance Procedure Data Package - Modes 1, 2, & 3**

- (1) Compliance with the Licensed Power Limit (LPL) (3458 Mwt) is demonstrated by the following process:
- A. No actions are allowed that would intentionally raise core thermal power above 3458 Mwt for any period of time. Small, short-term fluctuations in power that are not under the direct control of the unit operator are not considered intentional.
  - B. Closely monitor the thermal power during steady-state power operation with the goal of maintaining the two-hour average at or below 3458 Mwt. If the core thermal power average for a 2-hour period is found to exceed 3458 Mwt, Operations take timely action to ensure that thermal power is less than or equal to 3458 Mwt. (This is implemented by taking action when any running average less than or equal to the 2 hour average exceeds 3458 Mwt.)
  - C. The core thermal power for an 8 hour period ( 8 hr average) is not to exceed 3458 Mwt.
  - D. If an evolution is expected to cause a transient increase in reactor power that could exceed 3458 Mwt, action should be taken to lower core power prior to performing the evolution.
  - E. IF power is > 3463, REDUCE power.
  - F. IF power is 3458 to 3463 Mwt after allowing time for recent perturbations to settle, REDUCE power and EVALUATE the trend.
  - G. IF any running 30 min Avg, 1 hr average, or 2 hr average is > 3458 Mwt, REDUCE power.
- (2) Core Thermal Power is normally recorded every 2 hours when required. However, these readings may be marked N/A during TIP trace runs, control rod pattern adjustments, or anytime Core Monitoring System is blocked and/or < 25% power. The Reactor Engineer is responsible for monitoring Core Thermal Limits. Monitoring of Core Thermal Power and other Core Thermal Limits is recommended following completion of planned rise in power and following any unexpected power change. If core monitoring software becomes unavailable, the Shift Manager and Reactor Engineer shall determine the appropriate frequency for monitoring Core Thermal Power but should not exceed 24 hours, using backup core monitoring computer, and taking into consideration current core conditions and margin to thermal limits. Power changes should not normally be made without the core monitoring software being available.
- (3)
- A. Consult the Reactor Engineer when value  $\geq 0.955$ . Refer to 0-TI-248 for Administrative Limits.
  - B. Consult the Reactor Engineer when value  $\geq 0.835$ . Refer to 0-TI-248 for Administrative Limits.
  - C. Consult the Reactor Engineer when value  $\geq 0.985$ . Refer to 0-TI-248 for Administrative Limits.

<b>BFN Unit 2</b>	<b>Instrument Checks and Observations</b>	<b>2-SR-2 Rev. 0072 Page 31 of 149</b>
-----------------------	---	--

**Attachment 2  
(Page 11 of 87)**

**Surveillance Procedure Data Package - Modes 1, 2, & 3**

TABLE 1.6 HEAT BALANCE RELATED ICS ALARM SETPOINTS (Note 1) DAY SHIFT WEEK:     This week         Next week    

APPLICABILITY: Mode 1 when $\geq$ 25% RTP Record the readings as soon as possible after the generator breaker has been closed.									
Criteria Source: BFPER951914									
LOCATION: ICS Computer									
	ICS Points					MAX DEV	HI and HI HI alarm setpoints listed in Table 1.B.1 & 1.B.2 are NOT exceeded. (Note 3) SAT / UNSAT / N/A	Review Initials	
	3-48A (°F)	3-48B (°F)	3-50A (°F)	3-50B (°F)	NSS0017 (°F)			UO	Unit Supvr
Friday						2°F (Note 2)			
Saturday									
Sunday									
Monday									
Tuesday									
Wednesday									
Thursday									

- (1) The computer points listed in Table 1.B.1 and 1.B.2 are inputs to the ICS Core Thermal Power Heat Balance calculations. The points are monitored to ensure the inputs are in agreement and to ensure the license limits for thermal power are maintained. In addition to the above, these points should be monitored any time reactor power changes are performed.
- (2) A difference between Feedwater temperature points 3-48A, 3-48B, 3-50A, 3-50B, and NSS0017 of greater than 2 degrees will require the notification of Site Engineering and suspending any rise in power until the discrepancy is resolved.
- (3) An alarm setpoint being exceeded will require notifying the Unit Supervisor immediately and, if action cannot be taken immediately to return the value to within limits, Site Engineering will be notified for assistance.

ICS POINT	DESCRIPTION	HI ALARM	HI HI ALARM
CALCO20	Rx Power 30 Min Avg.	3458	3463
CALCO21	Rx Power 1 Hr. Avg.	3458	3461
CALCO83	Rx Power 2 Hr. Avg.	3458	3459
CALCO98	Generator Power	1185	1190
CALCO26	Efficiency	35	36
CALCO27	Load Line	N/A	113.6
CALCO24	Rx Power %	100.2	100.5

ICS POINT	DESCRIPTION	HI ALARM	HI HI ALARM
3-48A	FW Temp	382	386
3-48B	FW Temp	382	386
3-50A	FW Temp	382	386
3-50B	FW Temp	382	386
NSS0017	Avg. FW Temp.	382	386
CONSO400	Total RWCU Flow	0.15	N/A

<b>BFN Unit 2</b>	<b>Instrument Checks and Observations</b>	<b>2-SR-2 Rev. 0072 Page 48 of 149</b>
-----------------------	---	--

**Attachment 2  
(Page 28 of 87)**

**Surveillance Procedure Data Package - Modes 1, 2, & 3**

TABLE 1.25 LPRM INSTRUMENTATION DAY SHIFT WEEK:     This week     to     Next week    

APPLICABILITY:		Modes 1 & 2 Readings are required at all times.														
Criteria Source:		Technical Requirements Manual TSR 3.3.5.3														
LOCATION:		Panel 2-9-14 and ICS Computer													Review Initials	
DAY	TIME	# LPRMs BYPASSED (Note 1)								Total # LPRMs Bypassed (Note 2)	# of LPRM readings ≤ 3% on ICS (Note 3)	MAX DEV (AC)	All Data SAT/UNSAT	UO	Unit Supvr	
		APRM #2	LPRM #2	APRM #4	LPRM #4	APRM #3	LPRM #3	APRM #1	LPRM #1							
Friday	0800	0	0	0	0	0	0	0	0			0 (Note 4)				
Saturday	0800															
Sunday	0800															
Monday	0800															
Tuesday	0800															
Wednesday	0800															
Thursday	0800															

- (1) Record number of LPRMs bypassed in the four APRM and LPRM cabinets as observed at Panel 2-9-14. Add these values together and record as Total # LPRMs Bypassed.
- (2) Less than 20 LPRMs in OPERATE or Less than 3 per level for any APRM will result in a Rod Block and a trouble alarm on the display panel. This does not yield an automatic APRM trip, but does, however, make the associated APRM INOP.
- (3) Record number of LPRMs reading less than 3% on the LPRM printout or display on ICS.
- (4) MAX DEV is not required to be met when the APRMs are downscale; however, unexpected inconsistencies should be reported to the Reactor Engineer. The total number of LPRM's bypassed shall equal the number of LPRM's reading less than 3% on ICS.

<b>BFN Unit 2</b>	<b>Instrument Checks and Observations</b>	<b>2-SR-2 Rev. 0072 Page 54 of 149</b>
-----------------------	---	--

**Attachment 2  
(Page 34 of 87)**

**Surveillance Procedure Data Package - Modes 1, 2, & 3**

TABLE 1.30 REACTOR VESSEL STEAM DOME PRESSURE INSTRUMENTATION DAY SHIFT WEEK:     This week     to     Next week    

APPLICABILITY: Modes 1 & 2 Readings are required at all times.															
Surveillance Requirements: 3.3.1.1.1(f3), 3.3.3.1.1, 3.4.10.1															
LOCATION: ICS (Note 1 & 4)				MAX DEV (AC)	2-9-86	2-9-85	2-9-84	2-9-83	MAX DEV (AC)	MAX LIMIT	All Data SAT/UNSAT	Review Initials			
Reference Leg	TIME (Note 4)	3-74A	3-74B		D	C	B	A				UO	Unit Supvr		
					2-PIS-3-22D	2-PIS-3-22C	2-PIS-3-22BB	2-PIS-3-22AA							
Friday	0800			40 psig (Note 2)	1035	1035	1035	1035	60 psig (Note 2)	Note 3 Note 5					
Saturday	0800														
Sunday	0800														
Monday	0800														
Tuesday	0800														
Wednesday	0800														
Thursday	0800														

- (1) These readings may be obtained from ICS using the Single Value Display or from the ATU output voltage translated into a PRESSURE Signal for the specific instruments. For ICS, type in "SVD" for Single Value Display, enter the point desired as "3-74A", record reading, select F4, enter "3-74B", record the second reading.
- (2) 3-74A and 3-74B have a Maximum allowable deviation of 40 psig, AND 2-PIS-3-22D, 2-PIS-3-22C, 2-PIS-3-22BB, & 2-PIS-3-22AA, have a Maximum allowable deviation of 60 psig. No comparison is required between the 3-74A(B) and 2-PIS-3-22D(C)(BB)(AA).
- (3) 3-74A and 3-74B SHALL be ≤ 1050 psig. 2-PIS-3-22D, 2-PIS-3-22C, 2-PIS-3-22BB, & 2-PIS-3-22AA SHALL be ≤ 1090 psig.
- (4) 3-74A and 3-74B are to be recorded at 0800. The Auxiliary Instrument Room readings are not required to be taken at precisely 0800.
- (5) Following a change to Reactor Power or Pressure, verify the Steam Dome Limits are within the 0-TI-248, Administrative Limits and Design Analysis Limits (Appendix S)

OPERATOR: \_\_\_\_\_

RO \_\_\_\_ SRO \_\_\_\_ DATE: \_\_\_\_\_

JPM NUMBER: Admin RO A1b

TASK NUMBER: Conduct of Operations

TASK TITLE: 3-SR-2 ICS Computer points

K/A NUMBER: 2.1.19 K/A RATING: RO 3.9

TASK STANDARD: Perform Operator logs using ICS screens in accordance with 3-SR-2  
Instrument Checks and Observations for log tables 1.1, 1.6, 1.25, and 1.30.  
Verify acceptance criteria is satisfied in accordance with notes.

LOCATION OF PERFORMANCE: Unit 3 Simulator (ICS computer terminal)

REFERENCES/PROCEDURES NEEDED: 3-SR-2 Rev 68

VALIDATION TIME: 20 minutes

MAX. TIME ALLOWED: (Completed for Time Critical JPMs only)

PERFORMANCE TIME:

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Additional comment sheets attached? YES \_\_\_\_ NO \_\_\_\_

RESULTS: SATISFACTORY \_\_\_\_ UNSATISFACTORY \_\_\_\_

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
EXAMINER

**INITIAL CONDITIONS:** You are a Unit Operator assigned to Unit 3, and it is Friday morning at 0800. 3-SR-2, Instrument Checks and Observations, is being performed. All 3-SR-2 instrument checks and observations are complete with the exception of table 1.1, 1.6, 1.25, and 1.30.

**INITIATING CUE:** The Unit Supervisor directs you as the Unit Operator to complete 3-SR-2 for tables 1.1, 1.6, 1.25 and 1.30, utilizing only the ICS computer to obtain data



\*\*\*\*\*

**Simulator**

\*\*\*\*\*

**INITIAL CONDITIONS:** You are a Unit Operator assigned to Unit 3, and it is Friday morning at 0800. 3-SR-2, Instrument Checks and Observations, is being performed. All 3-SR-2 instrument checks and observations are complete with the exception of table 1.1, 1.6, 1.25, and 1.30.

**INITIATING CUE:** The Unit Supervisor directs you as the Unit Operator to complete 3-SR-2 for tables 1.1, 1.6, 1.25 and 1.30, utilizing only the ICS computer to obtain data

START TIME \_\_\_\_\_

\*\*\*\*\*

Performance Step 1:

Critical  Not Critical

Refers to 3-SR-2, Instrument Checks and Observations, table 1.1

TABLE 1.1 CORE THERMAL POWER AND CORE POWER DISTRIBUTION DAY SHIFT WEEK: _____ to _____										
APPLICABILITY: Mode 1 when > 25% RTP (Refer To P&L Step 3.6A) RECORD the readings as soon as possible after the generator breaker has been closed.										
Criteria Source: 3.2.1.1; 3.2.2.1; 3.2.3.1: DEFINITIONS SECTION 1.1 - PSAR 3.7.7										
LOCATION: ICS Computer (Case Summary - CSUM)										
DAY	TIME Note 2	Core Thermal Power (MW)	Percent Power (% RTP)	LIMIT (AC)	MFLCPR Note 3	MAPRAT Note 3	MFDLRX Note 3	LIMIT (AC)	Review Initials Unit Operator Unit Supvr	
Friday	0800			Notes 1 & 2				Notes 3, 4, & 5		
	1000									
	1200									
	1400									
	1600									
Saturday	0800									
	1000									
	1200									
	1400									
	1600									
Sunday	0800									
	1000									
	1200									
	1400									
	1600									
Monday	0800									
	1000									
	1200									
	1400									
	1600									

NOTES ARE FOLLOWING THE TABLE

Standard:

Selects SR-2 Group Display from the Group Display menu OR types the code "CSUM" on ICS computer to obtain data and completes table 1.1 Data for Friday at 0800, Records 3456 for MWt, 100% for RTP, .878 for MFLCPR, .780 for MAPRAT, and .854 for MFDLRX

SAT\_\_ UNSAT\_\_ N/A\_\_ COMMENTS: \_\_\_\_\_

\*\*\*\*\*

Performance Step 2:

Critical X Not Critical

- (1) Compliance with the Licensed Power Limit (LPL) (3458 Mwt) is demonstrated by the following process:
  - A. No actions are allowed that would intentionally raise core thermal power above 3458 Mwt for any period of time. Small, short-term fluctuations in power that are not under the direct control of the unit operator are not considered intentional.
  - B. Closely monitor the thermal power during steady-state power operation with the goal of maintaining the two-hour average at or below 3458 Mwt. If the core thermal power average for a 2-hour period is found to exceed 3458 Mwt, Operations take timely action to ensure that thermal power is less than or equal to 3458 MWt. (This is implemented by taking action when any running average less than or equal to the 2 hour average exceeds 3458 Mwt.)
  - C. The core thermal power for an 8 hour period ( 8 hr average) is not to exceed 3458 Mwt.
  - D. If an evolution is expected to cause a transient increase in reactor power that could exceed 3458 Mwt, action should be taken to lower core power prior to performing the evolution.
  - E. IF power is > 3463, REDUCE power.
  - F. IF power is 3458 to 3463 MWt after allowing time for recent perturbations to settle, REDUCE power and EVALUATE the trend.
  - G. IF any running 30 min Avg, 1 hr average, or 2 hr average is > 3458 MWt, REDUCE power.
  
- (2) Core Thermal Power is normally recorded every 2 hours when required. However, these readings may be marked N/A during TIP trace runs, control rod pattern adjustments, or anytime Core Monitoring System is blocked and/or < 25% power. The Reactor Engineer is responsible for monitoring Core Thermal Limits. Monitoring of Core Thermal Power and other Core Thermal Limits is recommended following completion of planned rise in power and following any unexpected power change. If core monitoring software becomes unavailable, the Unit Supervisor/SRO and Reactor Engineer shall determine the appropriate frequency for monitoring Core Thermal Power but should not exceed 24 hours, using backup core monitoring computer, and taking into consideration current core conditions and margin to thermal limits. Power changes should not normally be made without the core monitoring software being available.
  
- (3)
  - A. Consult Reactor Engineer when value  $\geq 0.965$ . Refer to 0-TI-248 for Administrative Limits.
  - B. Consult Reactor Engineer when value  $\geq 0.835$ . Refer to 0-TI-248 for Administrative Limits.
  - C. Consult Reactor Engineer when value  $\geq 0.985$ . Refer to 0-TI-248 for Administrative Limits.
  
- (4) If any Turbine Bypass valve(s) are inoperable or a Recirculation Loop is out of service, contact the Reactor Engineer and refer to the COLR for Turbine Bypass Out of Service (TBOOS) or Single Loop Operation (SLO) limits which must be applied.
  
- (5) MAPRAT within limits is used to verify that all APLHGRs are within the limits specified within the COLR, and < 0.850.  
 MFDLRX within limits is used to verify that all LHGRs are within the limits specified within the COLR.  
 MFLCPR within limits is used to verify that all MCPRs are within the limits specified within the COLR, and < 0.980 when thermal power is > 90% RTP.

Standard:

Initial for Unit Operator for Friday at 0800 when acceptance criteria is verified in accordance with above notes.

SAT\_\_ UNSAT\_\_ N/A \_\_ COMMENTS: \_\_\_\_\_

\*\*\*\*\*

Performance Step 3:

Critical X Not Critical

Refers to 3-SR-2, Instrument Checks and Observations, table 1.6

TABLE 1.6 HEAT BALANCE RELATED ICS ALARM SETPOINTS (Note 1) DAY SHIFT WEEK \_\_\_\_\_ to \_\_\_\_\_

APPLICABILITY: Mode 1 when > 25% RTP(Refer To P&L Step 3.6A) RECORD the readings as soon as possible after the generator breaker has been closed.									
Criteria Source: BPER951914									
LOCATION: ICS Computer									
	ICS Points					MAX DEV Note 2	Verify HI and HI HI alarm setpoints listed in Table 1.B.1 & 1.B.2 are NOT exceeded. (Note 3) SAT / UNSAT / N/A	Review Initials	
	3-48A (°F)	3-48B (°F)	3-50A (°F)	3-50B (°F)	N200017 (°F)			UO	Unit Supvr
Friday						2°F			
Saturday									
Sunday									
Monday									
Tuesday									
Wednesday									
Thursday									

Standard:

Selects SR-2 Group Display from the Group Display menu OR types the specific codes for each ICS point into the "Single Value Display" (for example: 3-48A, 3-48B, etc...) and Completes table 1.6 Data for Friday. Records 377.2 for listed ICS points

SAT\_\_ UNSAT\_\_ N/A \_\_ COMMENTS: \_\_\_\_\_

---

\*\*\*\*\*

Performance Step 4:

Critical X Not Critical

- (1) The computer points listed in Table 1.B.1 and 1.B.2 are inputs to the ICS Core Thermal Power Heat Balance calculations. The points are monitored to ensure the inputs are in agreement and to ensure the license limits for thermal power are maintained. In addition to the above, these points should be monitored any time reactor power changes are performed.
- (2) A difference between Feedwater temperature points 3-48A, 3-48B, 3-50A, 3-50B, and NSS0017 of greater than 2 degrees will require the notification of Site Engineering and suspending any rise in power until the discrepancy is resolved.
- (3) An alarm setpoint being exceeded will require notifying the Unit Supervisor immediately and, if action cannot be taken immediately to return the value to within limits, Site Engineering will be notified for assistance.

TABLE 1.B.1			
ICS POINT	DESCRIPTION	HI ALARM	HI HI ALARM
CALCO20	Rx Power 30 Min Avg.	3458	3463
CALCO21	Rx Power 1 Hr. Avg.	3458	3461
CALCO83	Rx Power 2 Hr. Avg.	3458	3459
CALCO88	Generator Power	1185	1190
CALCO26	Efficiency	35	36
CALCO27	Load Line	N/A	113.6
CALCO24	Rx Power %	100.2	100.5

TABLE 1.B.2			
ICS POINT	DESCRIPTION	HI ALARM	HI HI ALARM
3-48A	FW Temp	382	386
3-48B	FW Temp	382	386
3-50A	FW Temp	382	386
3-50B	FW Temp	382	386
NSS0017	Avg. FW Temp.	382	386
CONS0400	Total RWCU Flow	0.188	N/A

Standard:

Documents Sat and initials for Unit Operator for Friday when Maximum Deviation between Feedwater temperature computer points are within 2 degrees (Note 2) and the conditions of Note 3 are satisfied IAW with tables 1.B.1 and 1.B.2.

SAT\_\_ UNSAT\_\_ N/A\_\_ COMMENTS: \_\_\_\_\_

\*\*\*\*\*

Performance Step 5:

Critical  Not Critical

Refers to 3-SR-2, Instrument Checks and Observations, table 1.25

TABLE 1.25 LPRM INSTRUMENTATION											DAY SHIFT		WEEK: _____ to _____		
APPLICABILITY:		Modes 1 & 2 Readings are required at all times. (Refer To P&L Step 3.6A)													
Criteria Source:		Technical Requirements Manual TSR 3.3.5.3													
LOCATION:		Panel 3-9-14 and ICS Computer									Review Initials				
DAY	TIME	# LPRMs BYPASSED (Note 1)								Total # LPRMs Bypassed (Note 2)	# LPRMs reading ≤ 3% on ICS (Note 3)	MAX DEV (AC) (Note 4)	All Data SAT/UNSAT	UO	Unit Supvr
		APRM #2	LPRM #2	APRM #4	LPRM #4	APRM #3	LPRM #3	APRM #1	LPRM #1						
Friday	0800											0			
Saturday	0800														
Sunday	0800														
Monday	0800														
Tuesday	0800														
Wednesday	0800														
Thursday	0800														

Standard:

Clicks on "Live LPRM Display" in the "Nuclear Heat Balance menu" and completes table 1.25 Data for Friday, #LPRMs reading ≤ 3% on ICS. Records ZERO

SAT\_\_ UNSAT\_\_ N/A\_\_ COMMENTS: \_\_\_\_\_

\*\*\*\*\*

Performance Step 6:

Critical  Not Critical

- (1) Record number of LPRMs bypassed in the four APRM and LPRM cabinets as observed at Panel 3-9-14. add these values together and record as Total # LPRMs Bypassed.
- (2) Less than 20 LPRMs in OPERATE or Less than 3 per level for any APRM will result in a Rod Block and a trouble alarm on the display panel. This does not yield an automatic APRM trip, but does, however, make the associated APRM INOP.
- (3) Record number of LPRMs reading less than 3% on the LPRM printout or display on ICS.
- (4) MAX DEV is not required to be met when the APRMs are downscale; however, unexpected inconsistencies should be reported to the Reactor Engineer. The total number of LPRM's bypassed shall equal the number of LPRM's reading less than 3% on ICS.

Standard:

Documents Sat and initials for Unit Operator for Friday when the conditions of Note 4 are satisfied.

SAT\_\_ UNSAT\_\_ N/A\_\_ COMMENTS: \_\_\_\_\_

\*\*\*\*\*

Performance Step 7:

Critical X Not Critical

Refers to 3-SR-2, Instrument Checks and Observations, table 1.30

TABLE 1.30 REACTOR VESSEL STEAM DOME PRESSURE INSTRUMENTATION DAY SHIFT WEEK: \_\_\_\_\_ to \_\_\_\_\_

APPLICABILITY: Modes 1 & 2 (Refer To P&L Step 3.6A) Readings are required at all times.													
Surveillance Requirements: 3.3.1.1.(f3), 3.3.3.1.1, 3.4.10.1													
LOCATION: ICS (Notes 1 & 4)				MAX DEV (AC)	3-9-86	3-9-85	3-9-84	3-9-83	MAX DEV (AC)	MAX LIMIT	All Data SAT/UNSAT	Review Initials	
Reference Leg	TIME (Note 4)	3-74A	3-74B		D	C	B	A				UO	Unit Supvr
					3-PIS-3-22D	3-PIS-3-22C	3-PIS-3-22BB	3-PIS-3-22AA					
Friday	0900			40 psig (Note 2)					80 psig (Note 2)	(Note 3) (Note 5)			
Saturday	0900												
Sunday	0900												
Monday	0900												
Tuesday	0900												
Wednesday	0900												
Thursday	0900												

Standard:

Selects SR-2 Group Display from the Group Display menu OR types the specific codes for each ICS point into the "Single Value Display" (for example: 3-74A, 3-74B, etc...) and completes table 1.30 Data for Friday. Records approximately 1050 psig for ICS point 3-74A and approximately 1005 psig for ICS point 3-74B.

SAT\_\_ UNSAT\_\_ N/A \_\_ COMMENTS: \_\_\_\_\_

\*\*\*\*\*

Performance Step 8:

Critical  Not Critical

- (1) These readings may be obtained from ICS using the Single Value Display or from the ATU output voltage translated into a PRESSURE Signal for the specific instruments. For ICS, type in "SVD" for Single Value Display, enter the point desired as "3-74A", record reading, select F4, enter "3-74B", record the second reading.
- (2) 3-74A and 3-74B have a Maximum allowable deviation of 40 psig, AND 3-PIS-3-22D, 3-PIS-3-22C, 3-PIS-3-22BB, & 3-PIS-3-22AA, have a Maximum allowable deviation of 60 psig. No comparison is required between the 3-74A(B) and 3-PIS-3-22D(C)(BB)(AA).
- (3) 3-74A and 3-74B SHALL be  $\leq 1050$  psig. 3-PIS-3-22D, 3-PIS-3-22C, 3-PIS-3-22BB, & 3-PIS-3-22AA SHALL be  $\leq 1090$  psig.
- (4) 3-74A and 3-74B are to be recorded at 0800. The Auxiliary Instrument Room readings are not required to be taken at precisely 0800.
- (5) Following a change to Reactor Power and/or Pressure, verify the Steam Dome Limits are within the 0-TI-248, Administrative Limits and Design Analysis Limits (Appendix S)

Standard:

Reviews notes and documents UNSAT and initials for Unit Operator for Friday when the conditions of Notes 2 and 3 are reviewed.

SAT\_\_ UNSAT\_\_ N/A \_\_ COMMENTS: \_\_\_\_\_  
\_\_\_\_\_

END OF TASK

STOP TIME \_\_\_\_



C

C

C

<b>BFN Unit 3</b>	<b>Instrument Checks and Observations</b>	<b>3-SR-2 Rev. 0068 Page 20 of 146</b>
-----------------------	---	--

**Attachment 2  
(Page 1 of 86)**

**Surveillance Procedure Data Package - Modes 1, 2, & 3**

TABLE 1.1 CORE THERMAL POWER AND CORE POWER DISTRIBUTION DAY SHIFT WEEK:     This week     to     Next week    

APPLICABILITY: Mode 1 when $\geq 25\%$ RTP (Refer To P&L Step 3.6A) <b>RECORD</b> the readings as soon as possible after the generator breaker has been closed.												
Criteria Source: 3.2.1.1; 3.2.2.1; 3.2.3.1; DEFINITIONS SECTION 1.1 - FSAR 3.7.7												
LOCATION: ICS Computer (Case Summary - CSUM)												
DAY	TIME Note 2	Core Thermal Power (MWt)	Percent Power (% RTP)	LIMIT (AC)	MFLCPR Note 3	MAPRAT Note 3	MFDLRX Note 3	LIMIT (AC)	Review Initials			
Friday	0800	3456.6	100.0	Notes 1 & 2	0.978	0780	0.854	Notes 3, 4, & 5	initials			
	1000											
	1200											
	1400											
	1600											
Saturday	1800											
	0800											
	1000											
	1200											
	1400											
Sunday	1600											
	1800											
	0800											
	1000											
	1200											
Monday	1400											
	1600											
	1800											

**NOTES ARE FOLLOWING THE TABLE!**

<b>BFN Unit 3</b>	<b>Instrument Checks and Observations</b>	<b>3-SR-2 Rev. 0069 Page 22 of 146</b>
-----------------------	---	--

**Attachment 2  
(Page 3 of 86)**

**Surveillance Procedure Data Package - Modes 1, 2, & 3**

- (1) Compliance with the Licensed Power Limit (LPL) (3458 Mwt) is demonstrated by the following process:
  - A. No actions are allowed that would intentionally raise core thermal power above 3458 Mwt for any period of time. Small, short-term fluctuations in power that are not under the direct control of the unit operator are not considered intentional.
  - B. Closely monitor the thermal power during steady-state power operation with the goal of maintaining the two-hour average at or below 3458 Mwt. If the core thermal power average for a 2-hour period is found to exceed 3458 Mwt, Operations take timely action to ensure that thermal power is less than or equal to 3458 Mwt. (This is implemented by taking action when any running average less than or equal to the 2 hour average exceeds 3458 Mwt.)
  - C. The core thermal power for an 8 hour period ( 8 hr average) is not to exceed 3458 Mwt.
  - D. If an evolution is expected to cause a transient increase in reactor power that could exceed 3458 Mwt, action should be taken to lower core power prior to performing the evolution.
  - E. IF power is > 3463, REDUCE power.
  - F. IF power is 3458 to 3463 Mwt after allowing time for recent perturbations to settle, REDUCE power and EVALUATE the trend.
  - G. IF any running 30 min Avg, 1 hr average, or 2 hr average is > 3458 Mwt, REDUCE power.
  
- (2) Core Thermal Power is normally recorded every 2 hours when required. However, these readings may be marked N/A during TIP trace runs, control rod pattern adjustments, or anytime Core Monitoring System is blocked and/or < 25% power. The Reactor Engineer is responsible for monitoring Core Thermal Limits. Monitoring of Core Thermal Power and other Core Thermal Limits is recommended following completion of planned rise in power and following any unexpected power change. If core monitoring software becomes unavailable, the Unit Supervisor/SRO and Reactor Engineer shall determine the appropriate frequency for monitoring Core Thermal Power but should not exceed 24 hours, using backup core monitoring computer, and taking into consideration current core conditions and margin to thermal limits. Power changes should not normally be made without the core monitoring software being available.
  
- (3)
  - A. Consult Reactor Engineer when value  $\geq 0.965$ . Refer to O-TI-248 for Administrative Limits.
  - B. Consult Reactor Engineer when value  $\geq 0.835$ . Refer to O-TI-248 for Administrative Limits.
  - C. Consult Reactor Engineer when value  $\geq 0.985$ . Refer to O-TI-248 for Administrative Limits.
  
- (4) If any Turbine Bypass valve(s) are inoperable or a Recirculation Loop is out of service, contact the Reactor Engineer and refer to the COLR for Turbine Bypass Out of Service (TBOOS) or Single Loop Operation (SLO) limits which must be applied.
  
- (5) MAPRAT within limits is used to verify that all APLHGRs are within the limits specified within the COLR, and  $\leq 0.850$ .  
 MFDLRX within limits is used to verify that all LHGRs are within the limits specified within the COLR.  
 MFCLPR within limits is used to verify that all MCPRs are within the limits specified within the COLR, and  $\leq 0.980$  when core thermal power is  $\geq 90\%$  RTP.

<b>BFN Unit 3</b>	<b>Instrument Checks and Observations</b>	<b>3-SR-2 Rev. 0068 Page 29 of 146</b>
-----------------------	---	--

**Attachment 2  
(Page 10 of 86)**

**Surveillance Procedure Data Package - Modes 1, 2, & 3**

TABLE 1.6 HEAT BALANCE RELATED ICS ALARM SETPOINTS (Note 1) DAY SHIFT WEEK: This week to Next week

APPLICABILITY: Mode 1 when $\geq 25\%$ RTP(Refer To P&L Step 3.6A) <b>RECORD</b> the readings as soon as possible after the generator breaker has been closed.									
Criteria Source: BFPER951914									
LOCATION: ICS Computer									
	ICS Points					MAX DEV Note 2	Verify HI and HI HI alarm setpoints listed in Table 1.B.1 & 1.B.2 are NOT exceeded. (Note 3) SAT / UNSAT / N/A	Review Initials	
	3-48A (°F)	3-48B (°F)	3-50A (°F)	3-50B (°F)	NSS0017 (°F)			UO	Unit Supvr
Friday	37.2	37.2	37.2	37.2	37.2	2°F	SAT	initials	
Saturday									
Sunday									
Monday									
Tuesday									
Wednesday									
Thursday									

- (1) The computer points listed in Table 1.B.1 and 1.B.2 are inputs to the ICS Core Thermal Power Heat Balance calculations. The points are monitored to ensure the inputs are in agreement and to ensure the license limits for thermal power are maintained. In addition to the above, these points should be monitored any time reactor power changes are performed.
- (2) A difference between Feedwater temperature points 3-48A, 3-48B, 3-50A, 3-50B, and NSS0017 of greater than 2 degrees will require the notification of Site Engineering and suspending any rise in power until the discrepancy is resolved.
- (3) An alarm setpoint being exceeded will require notifying the Unit Supervisor immediately and, if action cannot be taken immediately to return the value to within limits, Site Engineering will be notified for assistance.

ICS POINT	DESCRIPTION	HI ALARM	HI HI ALARM
CALCO20	Rx Power 30 Min Avg.	3458	3463
CALCO21	Rx Power 1 Hr. Avg.	3458	3461
CALCO83	Rx Power 2 Hr. Avg.	3458	3459
CALCO98	Generator Power	1185	1190
CALCO26	Efficiency	35	36
CALCO27	Load Line	N/A	113.6
CALCO24	Rx Power %	100.2	100.5

ICS POINT	DESCRIPTION	HI ALARM	HI HI ALARM
3-48A	FW Temp	382	386
3-48B	FW Temp	382	386
3-50A	FW Temp	382	386
3-50B	FW Temp	382	386
NSS0017	Avg. FW Temp.	382	386
CONS0400	Total RWCU Flow	0.168	N/A

<b>BFN Unit 3</b>	<b>Instrument Checks and Observations</b>	<b>3-SR-2 Rev. 0068 Page 46 of 146</b>
-----------------------	---	--

**Attachment 2  
(Page 27 of 86)**

**Surveillance Procedure Data Package - Modes 1, 2, & 3**

TABLE 1.25 LPRM INSTRUMENTATION DAY SHIFT WEEK:     This week     to     Next week    

APPLICABILITY: Modes 1 & 2 Readings are required at all times. (Refer To P&L Step 3.6A)															
Criteria Source: Technical Requirements Manual TSR 3.3.5.3															
LOCATION: Panel 3-9-14 and ICS Computer															
DAY	TIME	# LPRMs BYPASSED (Note 1)								Total # LPRMs Bypassed (Note 2)	# LPRMs reading ≤ 3% on ICS (Note 3)	MAX DEV (AC) (Note 4)	All Data SAT/UNSAT	Review Initials	
		APRM #2	LPRM #2	APRM #4	LPRM #4	APRM #3	LPRM #3	APRM #1	LPRM #1					UO	Unit Supvr
Friday	0800	0	0	0	0	0	0	0	0	0	0	SAT	initials		
Saturday	0800														
Sunday	0800														
Monday	0800														
Tuesday	0800														
Wednesday	0800														
Thursday	0800														

- (1) Record number of LPRMs bypassed in the four APRM and LPRM cabinets as observed at Panel 3-9-14. add these values together and record as Total # LPRMs Bypassed.
- (2) Less than 20 LPRMs in OPERATE or Less than 3 per level for any APRM will result in a Rod Block and a trouble alarm on the display panel. This does not yield an automatic APRM trip, but does, however, make the associated APRM INOP.
- (3) Record number of LPRMs reading less than 3% on the LPRM printout or display on ICS.
- (4) MAX DEV is not required to be met when the APRMs are downscale; however, unexpected inconsistencies should be reported to the Reactor Engineer. The total number of LPRM's bypassed shall equal the number of LPRM's reading less than 3% on ICS.

<b>BFN Unit 3</b>	<b>Instrument Checks and Observations</b>	<b>3-SR-2 Rev. 0068 Page 52 of 146</b>
-----------------------	---	--

**Attachment 2  
(Page 33 of 86)  
Surveillance Procedure Data Package - Modes 1, 2, & 3**

TABLE 1.30 REACTOR VESSEL STEAM DOME PRESSURE INSTRUMENTATION DAY SHIFT WEEK     This week     to     Next week    

APPLICABILITY: Modes 1 & 2 (Refer To P&L Step 3.6A) Readings are required at all times.															
Surveillance Requirements: 3.3.1.1.(f3), 3.3.3.1.1, 3.4.10.1															
LOCATION: ICS (Notes 1 & 4)				MAX DEV (AC)	3-9-86	3-9-85	3-9-84	3-9-83	MAX DEV (AC)	MAX LIMIT	All Data SAT/UNSAT	Review Initials			
Reference Leg	TIME (Note 4)	3-74A	3-74B		D	C	B	A				UO	Unit Supvr		
					3-PIS-3-22D	3-PIS-3-22C	3-PIS-3-22BB	3-PIS-3-22AA							
Friday	0800	1050	1005	40 psig (Note 2)	1035	1035	1035	1035	00 psig (Note 2)	(Note 3) (Note 5)	UNSAT	Initials			
Saturday	0800														
Sunday	0800														
Monday	0800														
Tuesday	0800														
Wednesday	0800														
Thursday	0800														

- (1) These readings may be obtained from ICS using the Single Value Display or from the ATU output voltage translated into a PRESSURE Signal for the specific instruments. For ICS, type in "SVD" for Single Value Display, enter the point desired as "3-74A", record reading, select F4, enter "3-74B", record the second reading.
- (2) 3-74A and 3-74B have a Maximum allowable deviation of 40 psig, AND 3-PIS-3-22D, 3-PIS-3-22C, 3-PIS-3-22BB, & 3-PIS-3-22AA, have a Maximum allowable deviation of 60 psig. No comparison is required between the 3-74A(B) and 3-PIS-3-22D(C)(BB)(AA).
- (3) 3-74A and 3-74B SHALL be ≤ 1050 psig. 3-PIS-3-22D, 3-PIS-3-22C, 3-PIS-3-22BB, & 3-PIS-3-22AA SHALL be ≤ 1090 psig.
- (4) 3-74A and 3-74B are to be recorded at 0800. The Auxiliary Instrument Room readings are not required to be taken at precisely 0800.
- (5) Following a change to Reactor Power and/or Pressure, verify the Steam Dome Limits are within the D-TI-248, Administrative Limits and Design Analysis Limits (Appendix S)



<b>BFN Unit 3</b>	<b>Instrument Checks and Observations</b>	<b>3-SR-2 Rev. 0068 Page 20 of 146</b>
-----------------------	---	--

**Attachment 2  
(Page 1 of 86)**

**Surveillance Procedure Data Package - Modes 1, 2, & 3**

TABLE 1.1 CORE THERMAL POWER AND CORE POWER DISTRIBUTION DAY SHIFT WEEK:     This week     to     Next week    

APPLICABILITY: Mode 1 when  $\geq 25\%$  RTP (Refer To P&L Step 3.6A)  
**RECORD** the readings as soon as possible after the generator breaker has been closed.

Criteria Source: 3.2.1.1; 3.2.2.1; 3.2.3.1; DEFINITIONS SECTION 1.1 - FSAR 3.7.7

LOCATION: ICS Computer (Case Summary - CSUM)

DAY	TIME Note 2	Core Thermal Power (MWt)	Percent Power (% RTP)	LIMIT (AC)	MFLCPR Note 3	MAPRAT Note 3	MFDLRX Note 3	LIMIT (AC)	Review Initials		
									Unit Operator	Unit Supvr	
Friday	0800			Notes 1 & 2				Notes 3, 4, & 5			
	1000										
	1200										
	1400										
	1600										
Saturday	0800										
	1000										
	1200										
	1400										
	1600										
Sunday	0800										
	1000										
	1200										
	1400										
	1600										
Monday	0800										
	1000										
	1200										
	1400										
	1600										

**NOTES ARE FOLLOWING THE TABLE!**



<b>BFN Unit 3</b>	<b>Instrument Checks and Observations</b>	<b>3-SR-2 Rev. 0069 Page 22 of 146</b>
-----------------------	---	--

**Attachment 2  
(Page 3 of 86)**

**Surveillance Procedure Data Package - Modes 1, 2, & 3**

- (1) Compliance with the Licensed Power Limit (LPL) (3458 Mwt) is demonstrated by the following process:
  - A. No actions are allowed that would intentionally raise core thermal power above 3458 Mwt for any period of time. Small, short-term fluctuations in power that are not under the direct control of the unit operator are not considered intentional.
  - B. Closely monitor the thermal power during steady-state power operation with the goal of maintaining the two-hour average at or below 3458 Mwt. If the core thermal power average for a 2-hour period is found to exceed 3458 Mwt, Operations take timely action to ensure that thermal power is less than or equal to 3458 Mwt. (This is implemented by taking action when any running average less than or equal to the 2 hour average exceeds 3458 Mwt.)
  - C. The core thermal power for an 8 hour period ( 8 hr average) is not to exceed 3458 Mwt.
  - D. If an evolution is expected to cause a transient increase in reactor power that could exceed 3458 Mwt, action should be taken to lower core power prior to performing the evolution.
  - E. IF power is > 3463, REDUCE power.
  - F. IF power is 3458 to 3463 MWt after allowing time for recent perturbations to settle, REDUCE power and EVALUATE the trend.
  - G. IF any running 30 min Avg, 1 hr average, or 2 hr average is > 3458 MWt, REDUCE power.
- (2) Core Thermal Power is normally recorded every 2 hours when required. However, these readings may be marked N/A during TIP trace runs, control rod pattern adjustments, or anytime Core Monitoring System is blocked and/or < 25% power. The Reactor Engineer is responsible for monitoring Core Thermal Limits. Monitoring of Core Thermal Power and other Core Thermal Limits is recommended following completion of planned rise in power and following any unexpected power change. If core monitoring software becomes unavailable, the Unit Supervisor/SRO and Reactor Engineer shall determine the appropriate frequency for monitoring Core Thermal Power but should not exceed 24 hours, using backup core monitoring computer, and taking into consideration current core conditions and margin to thermal limits. Power changes should not normally be made without the core monitoring software being available.
- (3)
  - A. Consult Reactor Engineer when value  $\geq 0.965$ . Refer to 0-TI-248 for Administrative Limits.
  - B. Consult Reactor Engineer when value  $\geq 0.835$ . Refer to 0-TI-248 for Administrative Limits.
  - C. Consult Reactor Engineer when value  $\geq 0.985$ . Refer to 0-TI-248 for Administrative Limits.
- (4) If any Turbine Bypass valve(s) are inoperable or a Recirculation Loop is out of service, contact the Reactor Engineer and refer to the COLR for Turbine Bypass Out of Service (TBOOS) or Single Loop Operation (SLO) limits which must be applied.
- (5) MAPRAT within limits is used to verify that all APLHGRs are within the limits specified within the COLR, and  $\leq 0.850$ .  
 MFDLRX within limits is used to verify that all LHGRs are within the limits specified within the COLR.  
 MFCLPR within limits is used to verify that all MCPRs are within the limits specified within the COLR, and  $\leq 0.980$  when core thermal power is  $\geq 90\%$  RTP.

<b>BFN Unit 3</b>	<b>Instrument Checks and Observations</b>	<b>3-SR-2 Rev. 0068 Page 29 of 146</b>
-----------------------	---	--

**Attachment 2  
(Page 10 of 86)**

**Surveillance Procedure Data Package - Modes 1, 2, & 3**

TABLE 1.6 HEAT BALANCE RELATED ICS ALARM SETPOINTS (Note 1) DAY SHIFT WEEK: This week to Next week

APPLICABILITY: Mode 1 when $\geq 25\%$ RTP(Refer To P&L Step 3.6A) RECORD the readings as soon as possible after the generator breaker has been closed.									
Criteria Source: BFPER951914									
LOCATION: ICS Computer									
	ICS Points					MAX DEV Note 2	Verify HI and HI HI alarm setpoints listed in Table 1.B.1 & 1.B.2 are NOT exceeded. (Note 3) SAT / UNSAT / N/A	Review Initials	
	3-48A (°F)	3-48B (°F)	3-50A (°F)	3-50B (°F)	NSS0017 (°F)			UO	Unit Supvr
Friday						2°F			
Saturday									
Sunday									
Monday									
Tuesday									
Wednesday									
Thursday									

- (1) The computer points listed in Table 1.B.1 and 1.B.2 are inputs to the ICS Core Thermal Power Heat Balance calculations. The points are monitored to ensure the inputs are in agreement and to ensure the license limits for thermal power are maintained. In addition to the above, these points should be monitored any time reactor power changes are performed.
- (2) A difference between Feedwater temperature points 3-48A, 3-48B, 3-50A, 3-50B, and NSS0017 of greater than 2 degrees will require the notification of Site Engineering and suspending any rise in power until the discrepancy is resolved.
- (3) An alarm setpoint being exceeded will require notifying the Unit Supervisor immediately and, if action cannot be taken immediately to return the value to within limits, Site Engineering will be notified for assistance.

ICS POINT	DESCRIPTION	HI ALARM	HI HI ALARM
CALCO20	Rx Power 30 Min Avg.	3458	3463
CALCO21	Rx Power 1 Hr. Avg.	3458	3461
CALCO83	Rx Power 2 Hr. Avg.	3458	3459
CALCO98	Generator Power	1185	1190
CALCO26	Efficiency	35	36
CALCO27	Load Line	N/A	113.6
CALCO24	Rx Power %	100.2	100.5

ICS POINT	DESCRIPTION	HI ALARM	HI HI ALARM
3-48A	FW Temp	382	386
3-48B	FW Temp	382	386
3-50A	FW Temp	382	386
3-50B	FW Temp	382	386
NSS0017	Avg. FW Temp.	382	386
CONS0400	Total RWCU Flow	0.168	N/A

<b>BFN Unit 3</b>	<b>Instrument Checks and Observations</b>	<b>3-SR-2 Rev. 0068 Page 46 of 146</b>
-----------------------	---	--

**Attachment 2  
(Page 27 of 86)**

**Surveillance Procedure Data Package - Modes 1, 2, & 3**

TABLE 1.25 LPRM INSTRUMENTATION DAY SHIFT WEEK:     This week     to     Next week    

APPLICABILITY:		Modes 1 & 2 Readings are required at all times. (Refer To P&L Step 3.6A)													
Criteria Source:		Technical Requirements Manual TSR 3.3.5.3													
LOCATION:		Panel 3-9-14 and ICS Computer												Review Initials	
DAY	TIME	# LPRMs BYPASSED (Note 1)								Total # LPRMs Bypassed (Note 2)	# LPRMs reading ≤ 3% on ICS (Note 3)	MAX DEV (AC) (Note 4)	All Data SAT/UNSAT	UO	Unit Supvr
		APRM #2	LPRM #2	APRM #4	LPRM #4	APRM #3	LPRM #3	APRM #1	LPRM #1						
Friday	0800	0	0	0	0	0	0	0	0			0			
Saturday	0800														
Sunday	0800														
Monday	0800														
Tuesday	0800														
Wednesday	0800														
Thursday	0800														

- (1) Record number of LPRMs bypassed in the four APRM and LPRM cabinets as observed at Panel 3-9-14. add these values together and record as Total # LPRMs Bypassed.
- (2) Less than 20 LPRMs in OPERATE or Less than 3 per level for any APRM will result in a Rod Block and a trouble alarm on the display panel. This does not yield an automatic APRM trip, but does, however, make the associated APRM INOP.
- (3) Record number of LPRMs reading less than 3% on the LPRM printout or display on ICS.
- (4) MAX DEV is not required to be met when the APRMs are downscale; however, unexpected inconsistencies should be reported to the Reactor Engineer. The total number of LPRM's bypassed shall equal the number of LPRM's reading less than 3% on ICS.

<b>BFN Unit 3</b>	<b>Instrument Checks and Observations</b>	<b>3-SR-2 Rev. 0068 Page 52 of 146</b>
-----------------------	---	--

**Attachment 2  
(Page 33 of 86)**

**Surveillance Procedure Data Package - Modes 1, 2, & 3**

TABLE 1.3) REACTOR VESSEL STEAM DOME PRESSURE INSTRUMENTATION DAY SHIFT WEEK     This week     to     Next week    

APPLICABILITY: Modes 1 & 2 (Refer To P&L Step 3.6A) Readings are required at all times.															
Surveillance Requirements: 3.3.1.1.1(f), 3.3.3.1.1, 3.4.10.1															
LOCATION: ICS (Notes 1 & 4)				MAX DEV (AC)	3-9-86	3-3-85	3-9-84	3-9-83	MAX DEV (AC)	MAX LIMIT	All Data SAT/UNSAT	Review Initials			
Reference Leg	TIME (Note 4)	3-74A	3-74B		D	C	B	A				UO	Unit Supvr		
					3-PIS-3-22D	3-PIS-3-22C	3-PIS-3-22BB	3-PIS-3-22AA							
Friday	0800			40 psig (Note 2)	1035	1035	1035	1035	60 psig (Note 2)	(Note 3) (Note 5)					
Saturday	0800														
Sunday	0800														
Monday	0800														
Tuesday	0800														
Wednesday	0800														
Thursday	0800														

- (1) These readings may be obtained from ICS using the Single Value Display or from the ATU output voltage translated into a PRESSURE Signal for the specific instruments. For ICS, type in "SVD" for Single Value Display, enter the point desired as "3-74A", recrd reading, select F4, enter "3-74B", record the second reading.
- (2) 3-74A and 3-74B have a Maximum allowable deviation of 40 psig, AND 3-PIS-3-22D, 3-PIS-3-22C, 3-PIS-3-22BB, & 3-PIS-3-22AA, have a Maximum allowable deviation of 60 psig. No comparison is required between the 3-74A(B) and 3-PIS-3-22D(C)(BB)(AA).
- (3) 3-74A and 3-74B SHALL be ≤ 1050 psig. 3-PIS-3-22D, 3-PIS-3-22C, 3-PIS-3-22BB, & 3-PIS-3-22AA SHALL be ≤ 1090 psig.
- (4) 3-74A and 3-74B are to be recorded at 0800. The Auxiliary Instrument Room readings are not required to be taken at precisely 0800.
- (5) Following a change to Reactor Power and/or Pressure, verify the Steam Dome Limits are within the 0-TI-248, Administrative Limits and Design Analysis Limits (Appendix S)

OPERATOR: \_\_\_\_\_

RO \_\_\_\_ SRO \_\_\_\_ DATE: \_\_\_\_\_

JPM NUMBER: Admin SRO A1b

TASK NUMBER: Conduct of Operations

TASK TITLE: NRC Event Notification

K/A NUMBER: 2.1.18 K/A RATING: SRO 3.8

TASK STANDARD: Determine NRC Event Notification requirements, Technical Specification actions required, and proper internal notifications.

LOCATION OF PERFORMANCE: Class Room

REFERENCES/PROCEDURES NEEDED: NPG-SPP-03.5

VALIDATION TIME: 10 minutes

MAX. TIME ALLOWED: 60 Minutes

PERFORMANCE TIME:

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Additional comment sheets attached? YES \_\_\_ NO \_\_\_

RESULTS: SATISFACTORY \_\_\_ UNSATISFACTORY \_\_\_

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

EXAMINER

**INITIAL CONDITIONS:** Unit 3 is performing a normal Reactor Startup in accordance with 3-GOI-100-1A, Unit Startup. Reactor Power is 5%, Reactor pressure is 980 psig, and core flow is 9.5% of rated core flow. A feedwater transient causes a spike in Reactor Power and an automatic Scram occurs. The Reactor Engineer informs you that Reactor Power peaked at 28% RTP.

**INITIATING CUE:** As the Shift Manager, evaluate these plant conditions and determine:

(1) all required Technical Specification actions;

(2) the earliest required NRC notification;

and

(3) all required internal TVA notifications

\*\*\*\*\*

**Class Room**

\*\*\*\*\*

**INITIAL CONDITIONS:** Unit 3 is performing a normal Reactor Startup in accordance with 3-GOI-100-1A, Unit Startup. Reactor Power is 5%, Reactor pressure is 980 psig, and core flow is 9.5% of rated core flow. A feedwater transient causes a spike in Reactor Power and an automatic Scram occurs. The Reactor Engineer informs you that Reactor Power peaked at 28% RTP.

**INITIATING CUE:** As the Shift Manager, evaluate these plant conditions and determine:

(1) all required Technical Specification actions;

(2) the earliest required NRC notification;

and

(3) all required internal TVA notifications

START TIME \_\_\_\_\_

\*\*\*\*\*

Performance Step 1:

Critical  Not Critical

Refers to Technical Specification Section 2.0

2.1.1 Reactor Core SLs

2.1.1.1 With the reactor steam dome pressure < 785 psig or core flow < 10% rated core flow:

THERMAL POWER shall be  $\leq$  25% RTP.

2.2 SL Violations

With any SL violation, the following actions shall be completed within 2 hours:

2.2.1 Restore compliance with all SLs; and

2.2.2 Insert all insertable control rods.

Standard:

Determines that a safety limit was exceeded or violated, determines 2 hours to restore compliance and insert all rods. Both actions are met and complete

SAT\_\_ UNSAT\_\_ N/A \_\_ COMMENTS: \_\_\_\_\_

\_\_\_\_\_



\*\*\*\*\*

Performance Step 2:

Critical  Not Critical

Evaluates NPG-SPP-03.5

Appendix A: 3.1.B 1

B. The following criteria require 1-hour notification:

1. (Technical Specifications) - Safety Limits as defined by the Technical Specifications which have been violated.

Standard:

Determines a 1-Hr Non-Emergency notification is required.

SAT\_\_ UNSAT\_\_ N/A \_\_ COMMENTS: \_\_\_\_\_

\*\*\*\*\*

Performance Step 3:

Critical  Not Critical

Evaluates NPG-SPP-3.5 Appendix D, Site Event Notification Matrix

Standard:

For an NRC ONE hour notification at a minimum, the applicant must determine the following five individuals are required to be notified:

- Duty Plant Manager
- Plant Manager
- Operations Duty Specialist (ODS)
- Site Vice President
- Corporate Duty Officer

SAT\_\_ UNSAT\_\_ N/A \_\_ COMMENTS: \_\_\_\_\_

END OF TASK

STOP TIME \_\_\_\_

OPERATOR: \_\_\_\_\_

RO \_\_\_\_ SRO \_\_\_\_ DATE: \_\_\_\_\_

JPM NUMBER: Admin RO/SRO A2

TASK NUMBER: U-066-NO-02

TITLE: Evaluate Recombiner Performance

K/A NUMBER: 2.2.44 K/A RATING: RO 4.2 SRO 4.4

TASK STANDARD: Evaluate Off-Gas Recombiner Performance. Determine that it meets Acceptance Criteria.

LOCATION OF PERFORMANCE: Classroom

REFERENCES/PROCEDURES NEEDED: 3-OI-66

VALIDATION TIME: 10 minutes

MAX. TIME ALLOWED:

PERFORMANCE TIME:

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Additional comment sheets attached? YES \_\_\_\_ NO \_\_\_\_

RESULTS: SATISFACTORY \_\_\_\_ UNSATISFACTORY \_\_\_\_

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
EXAMINER

**INITIAL CONDITIONS:** You are a Unit Operator, a startup is in progress on Unit 3. The Hydrogen Water Chemistry System is in service in accordance with 3-OI-4, Hydrogen Water Chemistry System. The Off-Gas Preheater, Recombiner and SJAEs are in operation in accordance with 3-OI-66, Off-Gas System, Section 5.0. The in-service steam jet is operating properly.

**INITIATING CUE:** The Shift Manager has directed you to perform 3-OI-66, Section 6.1, Recombiner Performance Evaluation, and identify if any actions are required. Conditions are as follows:

3-TI-66-75A	392 °F
3-TI-66-75B	320 °F
3-TRS-66-77A Center temp	612 °F
3-TRS-66-77B Center temp	380 °F
Core Thermal Power (MWth)	3400 MWth
Percent Power (% RTP)	98%
3-H2R-66-96	operable - both pens reading .26% H <sub>2</sub>

\*\*\*\*\*

**Classroom**

\*\*\*\*\*

**INITIAL CONDITIONS:** You are a Unit Operator, a startup is in progress on Unit 3. The Hydrogen Water Chemistry System is in service in accordance with 3-OI-4, Hydrogen Water Chemistry System. The Off-Gas Preheater, Recombiner and SJAEs are in operation in accordance with 3-OI-66, Off-Gas System, Section 5.0. The in-service steam jet is operating properly.

**INITIATING CUE:** The Shift Manager has directed you to perform 3-OI-66, Section 6.1, Recombiner Performance Evaluation, and identify if any actions are required. Conditions are as follows:

3-TI-66-75A	392 °F
3-TI-66-75B	320 °F
3-TRS-66-77A Center temp	612 °F
3-TRS-66-77B Center temp	380 °F
Core Thermal Power (MWth)	3400 MWth
Percent Power (% RTP)	98%
3-H2R-66-96	operable - both pens reading .26% H <sub>2</sub>

**START TIME** \_\_\_\_\_

\*\*\*\*\*

Performance Step 1:

Critical  Not Critical

6.1 Recombiner Performance Evaluation

**NOTES**

- 1) The production of hydrogen and oxygen in the reactor is dependent upon reactor power level and upon the amount of hydrogen injected by the Hydrogen Water Chemistry System if in service. Since the recombination of hydrogen and oxygen is exothermic, the operating temperature of the recombiner is also dependent upon power level and the status of the HWC System.
- 2) Following startup, while still at low power, recombiner performance and hydrogen concentration should be closely monitored.

[1] Perform a Recombiner Performance Evaluation as follows:

[1.1] DETERMINE the in-service recombiner inlet temperature as indicated on RECOMBINER 3A(3B), INLET TEMP 3-TI-66-75A(B), Panel 3-9-53.

Standard:

Determines Recombiner 3A inlet temp 3-TI-66-75A, Panel 3-9-53 (from handout)

SAT\_\_ UNSAT\_\_ N/A \_\_ COMMENTS: \_\_\_\_\_

\*\*\*\*\*

Performance Step 2:

Critical  Not Critical

[1.2] DETERMINE the in-service recombiner operating (center) temperature as indicated on RECOMBINER 3A/3B TEMPERATURE recorder, 3-TRS-66-77, Panel 3-9-53.

Standard:

Determines the in-service recombiner operating (center) temperature as indicated on Recombiner 3A temperature recorder, 3-TRS-66-77, Panel 3-9-53 (from handout)

SAT\_\_ UNSAT\_\_ N/A \_\_ COMMENTS: \_\_\_\_\_

\*\*\*\*\*

Performance Step 3:

Critical  Not Critical

[1.3] CALCULATE the temperature difference ( $\Delta T$ ) between the values obtained in Steps 6.1[1] and 6.1[2].

Standard:

Calculates Recombiner 3A inlet/center  $\Delta t$  and determines  $\Delta t$  is 220 °F

SAT\_\_ UNSAT\_\_ N/A \_\_ COMMENTS: \_\_\_\_\_

\*\*\*\*\*

Performance Step 4:

Critical  Not Critical

[1.4] DETERMINE the reactor thermal power (MWt) from process computer.

Standard:

Determines reactor thermal power from the handout

SAT\_\_ UNSAT\_\_ N/A \_\_ COMMENTS: \_\_\_\_\_

\*\*\*\*\*

Performance Step 5:

Critical  Not Critical

[1.5] USING Illustration 1, PLOT the corresponding point of reactor power in MWt and  $\Delta T$ .

Standard:

Using illustration 1, Plots corresponding point of reactor power (3400 MWth) and  $\Delta T$  (220 °F),

**OR**

Determines  $\Delta t$  corresponding to 3400 MWt is 187 °F, Calculation:  $\Delta T = 0.055 \text{ °F per MWth}$   $0.055 \times 3400 = 187$  and using illustration 1 plots this corresponding point.

SAT\_\_ UNSAT\_\_ N/A \_\_ COMMENTS: \_\_\_\_\_

\*\*\*\*\*

Performance Step 6:

Critical  Not Critical

- [1.6] VERIFY point on illustration 1 is above or equal to the appropriate line (HWC in service or HWC out of service)

Standard:

Determines from Illustration 1 that calculated  $\Delta t$  vs MWt plots ABOVE the HWC in Service line. Candidate may also use calculated  $\Delta T$  from curve factor to determine that actual  $\Delta T$  (220 °F) is well above the HWC in service line on graph

SAT\_\_ UNSAT\_\_ N/A \_\_ COMMENTS: \_\_\_\_\_  
\_\_\_\_\_

\*\*\*\*\*

Performance Step 7:

Critical  Not Critical

- [2] IF the in-service recombiner performance is below the minimum allowable, THEN:
  - [2.1] CHECK Off-Gas Preheater, Recombiner and SJAEs are in operation in accordance with Section 5.0.

Standard:

NA – Recombiner performance is satisfactory

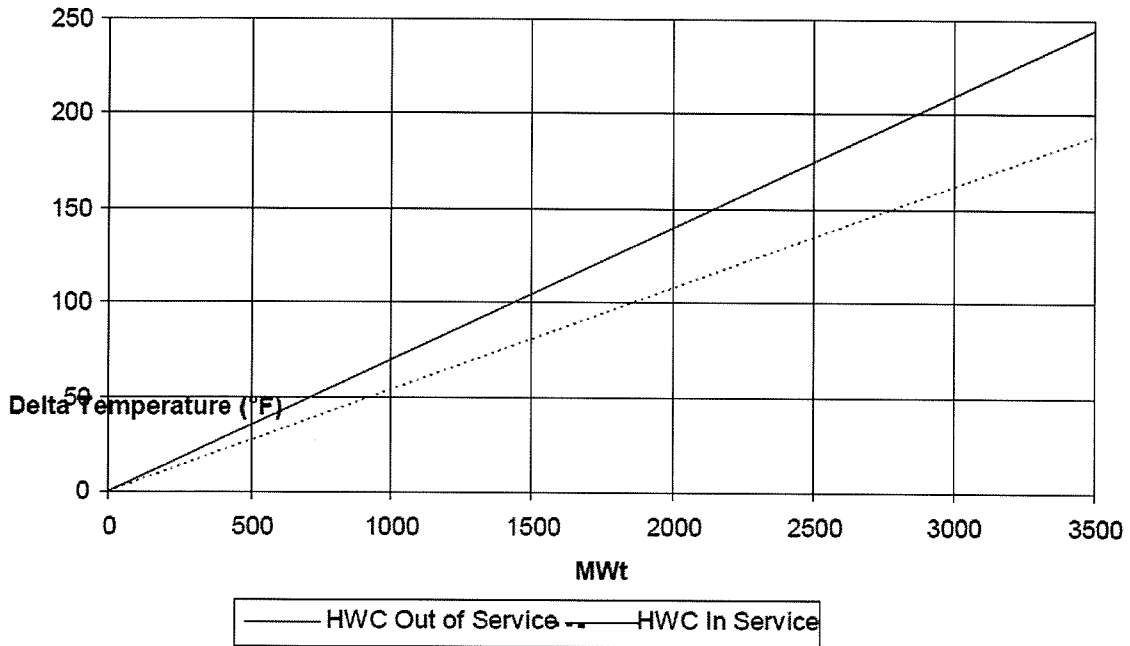
SAT\_\_ UNSAT\_\_ N/A \_\_ COMMENTS: \_\_\_\_\_  
\_\_\_\_\_

END OF TASK

STOP TIME \_\_\_\_\_

**Illustration 1  
(Page 1 of 1)**

**Recombine Performance Evaluation -  $\Delta T$  to Reactor Power**



Evaluation is satisfactory when intersection point of  $\Delta T$  to Reactor Power is above the appropriate line.

For 3458mwt

HWC in service  $\Delta T \geq 190^\circ\text{F}$

HWC out of service  $\Delta T \geq 242^\circ\text{F}$

CURVE FACTORS

Normal Water Chemistry (NWC)  $\Delta T = 0.070^\circ\text{F per MWt}$

Hydrogen Water Chemistry (HWC)  $\Delta T = 0.055^\circ\text{F per MWt}$



OPERATOR: \_\_\_\_\_

SRO \_\_\_\_ DATE: \_\_\_\_\_

JPM NUMBER: Admin SRO A3

TASK NUMBER: Radiation Control

TASK TITLE: Radiation Exposure Limits under Emergency Conditions

K/A NUMBER: 2.3.4 K/A RATING: SRO 3.7

TASK STANDARD: Determine stay time for an AUO to perform an emergency evolution due to radiation levels and authorize.

LOCATION OF PERFORMANCE: Class Room

REFERENCES/PROCEDURES NEEDED: EPIP 15

VALIDATION TIME: 15 minutes

MAX. TIME ALLOWED:

PERFORMANCE TIME:

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Additional comment sheets attached? YES \_\_\_ NO \_\_\_

RESULTS: SATISFACTORY \_\_\_ UNSATISFACTORY \_\_\_

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

EXAMINER

### **INITIAL CONDITIONS:**

Unit 2 is in a General Emergency and YOU are currently the Site Emergency Director. Because of the emergency, an emergency exposure in excess of 10 CFR 20.1201 limits is required to prevent damage to the Main Turbine. An AUO has volunteered to replace blown fuses in the EBOP DC control cabinet next to the MTOT on EL' 586 in the Turbine Building. Radiation Protection Supervision states that the dose rate at the cabinet is 15 REM/hr and travel path dose rates are 10 REM/hr to and from the cabinet. It is estimated that it will take him 12 minutes of total travel time to and from the cabinet. The AUO has received 500 mrem TEDE, year to date, and he has been briefed of the radiological hazards associated with this evolution per appendix A of the applicable EPIP.

### **INITIATING CUE:**

As the Site Emergency Director YOU, are directed to 1) determine how much dose can be authorized for the AUO to perform this mission, 2) determine how much time this AUO has to replace the fuses, without exceeding Emergency Dose Limits, and 3) complete all required paperwork to authorize the emergency exposure.

\*\*\*\*\*

**Class Room**

\*\*\*\*\*

**INITIAL CONDITIONS:**

Unit 2 is in a General Emergency and YOU are currently the Site Emergency Director. Because of the emergency, an emergency exposure in excess of 10 CFR 20.1201 limits is required to prevent damage to the Main Turbine. An AUO has volunteered to replace blown fuses in the EBOP DC control cabinet next to the MTOT on EL' 586 in the Turbine Building. Radiation Protection Supervision states that the dose rate at the cabinet is 15 REM/hr and travel path dose rates are 10 REM/hr to and from the cabinet. It is estimated that it will take him 12 minutes of total travel time to and from the cabinet. The AUO has received 500 mrem TEDE, year to date, and he has been briefed of the radiological hazards associated with this evolution per appendix A of the applicable EPIP.

**INITIATING CUE:**

As the Site Emergency Director YOU, are directed to 1) determine how much dose can be authorized for the AUO to perform this mission, 2) determine how much time this AUO has to replace the fuses, without exceeding Emergency Dose Limits, and 3) complete all required paperwork to authorize the emergency exposure.

START TIME \_\_\_\_\_

\*\*\*\*\*

Performance Step 1: Critical  Not Critical

Determine the radiation dose that he may receive to protect valuable property

Standard:

Determines he may receive 10 REM to protect valuable property

SAT \_\_\_ UNSAT \_\_\_ N/A \_\_\_ COMMENTS: \_\_\_\_\_

\*\*\*\*\*

Performance Step 2: Critical  Not Critical

Determine the radiation dose that AUO may receive without exceeding 10 REM, based on previous exposure

Standard:

Determines that the AUO may receive 9.5 REM, based on previous exposure of 500 mrem TEDE, year to date, to protect valuable property

SAT \_\_\_ UNSAT \_\_\_ N/A \_\_\_ COMMENTS: \_\_\_\_\_

**NRC Information: Reference is EPIP 15 Section 3.4.3**

**CUE: Provide EPIP 15 Appendix B form which is partially completed**

\*\*\*\*\*

Performance Step 3:

Critical  Not Critical

Determines the amount of time the AUO has to replace the blown fuses without exceeding the 10 REM Emergency Exposure limit to protect valuable property, based on previous exposure and travel time

Standard:

Determines that the AUO has 30 minutes to replace the blown fuses, without exceeding Emergency Exposure Limit of 10 REM (Including travel time and previous exposure), If calculated in hours - 0.5 hours

SAT \_\_\_ UNSAT \_\_\_ N/A \_\_\_ COMMENTS: \_\_\_\_\_

\*\*\*\*\*

Performance Step 4:

Critical  Not Critical

Completes Acknowledgment and Authorization to Exceed Occupational Dose Limits form Appendix B of EPIP 15

Standard:

Determines that as the Shift Manager and acting Site Emergency Director he can authorize the Emergency Dose

SAT \_\_\_ UNSAT \_\_\_ N/A \_\_\_ COMMENTS: \_\_\_\_\_

**NOTE: Critical Data** on form is the authorized 10 Rem and Approval signature

END OF TASK

STOP TIME \_\_\_\_\_



OPERATOR: \_\_\_\_\_

RO \_\_\_\_ SRO \_\_\_\_ DATE: \_\_\_\_\_

JPM NUMBER: Admin RO A4

TASK NUMBER: U-000-EM-87

TASK TITLE: EPIP-3, Appendix B, Unit Operator Notification

K/A NUMBER: 2.4.43 K/A RATING: RO 3.2

TASK STANDARD: Completion of Emergency Call-out for TSC Manning

LOCATION OF PERFORMANCE: Simulator

REFERENCES/PROCEDURES NEEDED: EPIP 3

VALIDATION TIME: 15 minutes

MAX. TIME ALLOWED: (Completed for Time Critical JPMs only)

PERFORMANCE TIME:

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Additional comment sheets attached? YES \_\_\_\_ NO \_\_\_\_

RESULTS: SATISFACTORY \_\_\_\_ UNSATISFACTORY \_\_\_\_

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
EXAMINER

**INITIAL CONDITIONS:**

You are the Unit 1 Operator. Unit 2 was operating at 100% (BOL) when indications of a primary system leak into the Drywell developed. Conditions have continued to the point that the SED has declared an ALERT.

**INITIATING CUES:**

The SHIFT MANAGER has informed you that Unit 2 is in an ALERT status. The SHIFT MANAGER/SED directs you to COMPLETE APPENDIX B, Unit Operator NOTIFICATIONS and determine if a Fitness for Duty question is required.



\*\*\*\*\*

**Class Room**

\*\*\*\*\*

**INITIAL CONDITIONS:**

You are the Unit 1 Operator. Unit 2 was operating at 100% (BOL) when indications of a primary system leak into the Drywell developed. Conditions have continued to the point that the SED has declared an ALERT.

**INITIATING CUES:**

The SHIFT MANAGER has informed you that Unit 2 is in an ALERT status. The SHIFT MANAGER/SED directs you to COMPLETE APPENDIX B, Unit Operator NOTIFICATIONS and determine if a Fitness for Duty question is required.

START TIME \_\_\_\_\_

\*\*\*\*\*

Performance Step 1:

Critical X Not Critical

**NOTE**

- The Emergency Paging System (EPS) consists of a dedicated touch screen CRT. Activation of any screen feature requires the user place their fingertip within the boundary of the select button and leave it there for at least 1 second. The CRT Screen will normally display a large rectangle that indicates that the paging system is available but currently inactive.
- If the EPS fails to operate, contact the SM/SED immediately. Request that the ODS be contacted to initiate the system from his location.

**1.0 Activate the Emergency Paging System (EPS)**

1.1 **PRESS** the EPS CRT screen once to activate the paging options

Standard:

**OPERATOR** activates the Emergency Paging System using the touch screen.

SAT \_\_\_ UNSAT \_\_\_ N/A \_\_\_ COMMENTS: \_\_\_\_\_

\*\*\*\*\*

Performance Step 2:

Critical X Not Critical

1.2 **PRESS** the appropriate option as instructed by the SED

- PAGER TEST
- DRILL
- EMERGENCY
- STAGING AREA
- ABORT

Standard:

Operator presses either DRILL or EMERGENCY.

SAT \_\_\_ UNSAT \_\_\_ N/A \_\_\_ COMMENTS: \_\_\_\_\_

\*\*\*\*\*

Performance Step 3:

Critical  Not Critical

1.3 **PRESS** the *START* button to initiate the option

**OR**

**PRESS** the *ABORT* button to deny the option request

Standard:

Presses the START button.

SAT \_\_\_ UNSAT \_\_\_ N/A \_\_\_ COMMENTS: \_\_\_\_\_  
\_\_\_\_\_

**CUE:** **Immediately after operator depresses the "START" button on the touch screen:**

**TIME COMPRESSION: 20 minutes has elapsed, provide candidate with "Paging System Status Display Handout"**

\*\*\*\*\*

Performance Step 4:

Critical \_\_\_ Not Critical

1.4 IF the EPS fails to operate locally THEN **CONTACT** the ODS at 5-751-1700 or 5-751-2495 AND **DIRECT** the ODS to activate the EPS for BFN.

Standard:

NA

SAT \_\_\_ UNSAT \_\_\_ N/A \_\_\_ COMMENTS: \_\_\_\_\_  
\_\_\_\_\_

\*\*\*\*\*

Performance Step 5:

Critical  Not Critical

1.5 WHEN the EPS FAILS to operate either locally or by the ODS THEN exit this step and re-enter this Appendix at Step 2.0 Otherwise continue in this procedure.

Standard:

NA

SAT  UNSAT  N/A  COMMENTS: \_\_\_\_\_

\*\*\*\*\*

Performance Step 6:

Critical  Not Critical

1.6. **MONITOR** the Paging System Terminal Display

**NOTE**

Monitor ERO positions through OSC Document Control. Positions below OSC Document Control are courtesy pages and are not subject to call-out requirements.

1.6.1 IF A "NO" response is observed,

**OR**

The position being paged has not responded promptly or within approximately 20 minutes,

THEN **UTILIZE** the Weekly Duty List and attempt to contact the position representative with available information. (No Fitness for Duty question is required.)

Standard:

Operator determines that the TSC TAT RX ENGINEER has not responded within 20 minutes. Operator utilizes the weekly duty list and calls the TSC TAT RX Engineer; NO answer by TSC TAT RX Engineer, Operator will determine he must call alternate position from the Call-Out List.

SAT  UNSAT  N/A  COMMENTS: \_\_\_\_\_

**Driver: When called as the TSC TAT RX Engineer do not answer the phone to force Operator to utilize Call-Out list.**

\*\*\*\*\*

Performance Step 7:

Critical  Not Critical

1.6.2 IF The individual cannot be reached utilizing the Weekly Duty List,  
**THEN UTILIZE** the Call-Out List and attempt to contact an alternate position  
representative. (Fitness for Duty question is required when utilizing the Call-  
Out List.)

Standard:

**OPERATOR** utilizes the Call-Out List and contacts an alternate position representative,  
once contacted Operator asks if the contacted alternate position representative is Fit For  
Duty

SAT \_\_\_ UNSAT \_\_\_ N/A \_\_\_ COMMENTS: \_\_\_\_\_  
\_\_\_\_\_

**Driver:** When called as the alternate, answer the phone and allow Operator to call you in  
for emergency duty. Only respond to the questions you are asked do NOT  
volunteer any information; When asked, you are available and you are FIT FOR  
DUTY.

**CUE:** Another operator will perform the remaining actions

END OF TASK

STOP TIME \_\_\_\_\_

C

C

C

TODAY  
NOW

# PAGING SYSTEM STATUS DISPLAY

Browns Ferry Nuclear Plant

Start Time: 21 MIN AGO  
Page 1 of 4

POSITION	PAGER NUMBER		PAGE TIME	RESPONSE TIME	CONFIRMED
SED – STONE	10473	(01)	09:29	09:31	YES
TAM – THOMAS	30364	(01)	09:29	09:31	YES
TSC TAT RX ENGR	60959	(01)	09:29		
TSC TAT – ICE	30361	(01)	09:29	09:31	YES
TSC TAT – NSSS	40232	(01)	09:29	09:31	YES
TSC TAT – BOP	90323	(01)	09:29	09:31	YES
TSC TATL – THOMPSON	90485	(01)	09:30	09:32	YES
TSC RAD MGR – HALL	70454	(01)	09:30	09:32	YES
TSC CHEM MGR – BLACK	40842	(01)	09:30	09:32	YES
TSC OPS MGR – SELLS	15751	(01)	09:30	09:32	YES
TSC OPS SPEC – RICE	60252	(01)	09:30	09:31	YES
TSC NUC SEC – SMITH	70692	(01)	09:30	09:33	YES
WESTINGHOUSE – WELLS	20700	(01)	09:30	09:33	YES
TSC NRCC – LUCAS	90944	(01)	09:30	09:33	YES

ABORT

NEXT  
PAGE

PREVIOUS  
PAGE

TODAY  
NOW

# PAGING SYSTEM STATUS DISPLAY

Browns Ferry Nuclear Plant

Start Time: 21 MIN AGO  
Page 2 of 4

POSITION	PAGER NUMBER		PAGE TIME	RESPONSE TIME	CONFIRMED
TSC EP MGR – GRAY	30379	(01)	09:30	09:33	YES
SVP – CARTER	40127	(01)	09:30	09:33	YES
OSC COMM – SHARP	70670	(01)	09:30	09:33	YES
TSC LOGWRITER – WHITE	10163	(01)	09:30	09:32	YES
OSC EPC – WILLIAMS	90470	(01)	09:30	09:32	YES
OSC ASST. MGR. – MAY	30950	(01)	09:30	09:33	YES
OSC ASST MGR – BLACK	30560	(01)	09:30	09:32	YES
OSC MGR – CUNNINGHAM	90255	(01)	09:30	09:33	YES
OSC RAD SUPV – WEST	90469	(01)	09:30	09:31	YES
OSC MM – NELSON	90325	(01)	09:30	09:33	YES
OSC MM – NIXON	90306	(01)	09:30	09:31	YES
OSC EM – HECK	90265	(01)	09:30	09:33	YES
OSC EM – HENLEY	30821	(01)	09:30	09:33	YES
OSC IM – CORDELL	90347	(01)	09:30	09:30	YES

ABORT

NEXT  
PAGE

PREVIOUS  
PAGE



TODAY  
NOW

# PAGING SYSTEM STATUS DISPLAY

Browns Ferry Nuclear Plant

Start Time: 21 MIN AGO  
Page 3 of 4

POSITION	PAGER NUMBER		PAGE TIME	RESPONSE TIME	CONFIRMED
OSC IMB – ARNOLD	90348	(01)	09:30	09:32	YES
OSC PPM – COLEMAN	90555	(01)	09:30	09:33	YES
OSC NUC SEC – SHIFT LT.	90284	(01)	09:30	09:31	YES
OSC SAFETY – MILLER	40059	(01)	09:30	09:31	YES
OSC SAFETY – WALKER	70485	(01)	09:30	09:32	YES
OSC FIRE OPS – RUSSELL	90478	(01)	09:30	09:33	YES
TSC CLERK – DOLITTLE	40209	(01)	09:30	09:32	YES
tsc clerk – steve	90473	(01)	09:30	09:34	YES
tsc clerk – Jackie	40205	(01)	09:30	09:34	YES
tsc clerk – diane	60381	(01)	09:30	09:34	YES
OSC OPS ADV – MOSS	10319	(01)	09:30	09:34	YES
MEDIA SPECIALIST	40891	(01)	09:30	09:34	YES
NRC – POWELL	11020	(01)	09:30	09:34	YES
nrc – Brenda	11023	(01)	09:30	09:34	YES

**ABORT**

**NEXT  
PAGE**

**PREVIOUS  
PAGE**

TODAY  
NOW

# PAGING SYSTEM STATUS DISPLAY

Browns Ferry Nuclear Plant

Start Time: 21 MIN AGO  
Page 4 of 4

POSITION	PAGER NUMBER		PAGE TIME	RESPONSE TIME	CONFIRMED
NRC – HOWARD	11030	(01)	09:30	09:31	YES
OSC CLERK – SYKES	50779	(01)	09:30	09:33	YES
OPS ADV TAT – MCKEE	90143	(01)	09:30	09:32	YES
OPS ADV TAT – TURNER	30487	(01)	09:30	09:32	YES
OPS ADV TAT – PATTON	10802	(01)	09:30	09:34	YES
OSC CLERK – PAT	20608	(01)	09:30	09:34	YES
osc mgr – Robert	90663	(01)	09:30	09:31	YES

ABORT

NEXT  
PAGE

PREVIOUS  
PAGE

C

C

C

## ORANGE WEEKLY DUTY LIST

**[From: This Tuesday 7:00am to Next Tuesday 7:00am]**

**Pager Response Phone # 800-323-7915 or # 423-751-1799**

**Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.**

	<i>Position</i>	<i>Employee</i>	<i>Site Phone</i>	<i>Home Phone</i>	<i>Pager</i>
	SITE EMERGENCY DIRECTOR	STONE, STEVEN	3781	(256) 555-1001	55511
#	TSC OPERATIONS MANAGER	SELLS, DAVID	2389	(256) 555-2389	15751
	CONTROL RM COMMUNICATOR	DUNSTON, MIKE	2783	(256) 555-1003	55513
#	TECHNICAL ASSESSMENT MGR	THOMAS, MICHAEL	2503	(256) 555-1004	55514
#	TSC RADCON MANAGER	FERGUSON, PAUL	2617	(256) 555-1005	55515
	MAINTENANCE MANAGER	FLOYD, DAN	3646	(256) 555-1006	55516
#	OSC DIRECTOR	KEMPER, RANDY	2431	(256) 555-1007	55517
#	OSC ELECTRICAL SUPERVISOR	MILLER, KATHY	6954	(256) 555-1008	55518
#	OSC I/C SUPERVISOR	TRUNK, WILLIAM	6204	(256) 555-1009	55519
#	OSC MECHANICAL SUPERVISOR	MERRY, SCOTT	6970	(256) 555-1010	55520
	OSC RADCON MANAGER	ON SHIFT RADCON SUPV.	3104	(256) 555-1011	55521
*	TECHNICAL ASSESSOR #1	KINGSTON, JESSE	4751	(256) 555-1012	55522
	OSC ELECTRICAL ENGINEER	SAMSON, JAMES	7420	(256) 555-1013	55523
	OSC MECHANICAL ENGINEER	ELLIOTT, MICHAEL	7734	(256) 555-1014	55524
#	TSC CHEMISTRY MANAGER	HAMILTON, BRIAN	2682	(256) 555-1015	55525
	SITE VICE PRESIDENT	MALINOW, DAVE	3439	(256) 555-1016	55526
# *	TSC OPERATIONS SPECIALIST	RICE, TODD	7972	(256) 555-1017	55527
#	TSC TECH ASSESSMENT TM LDR	THOMPSON, KELLY	2097	(256) 555-1018	55528
	ASST. RADCON MANAGER	CRAMER, CHRIS	2983	(256) 555-1019	55529
	TSC COMMUNICATOR	TOMEN, JENNIFER	7327	(256) 555-1020	55530
#	TECHNICAL ASSESSOR #2	MOORE, ALLEN	7521	(256) 555-1021	55531
	EP MANAGER	FELT, ANTHONY	3666	(256) 555-1022	55532
	NUCLEAR SECURITY MANAGER	ON SHIFT SECURITY SUPV.	2219	(256) 555-1023	55533
#	SITE ENGINEERING MANAGER	COVIN, JOHN	2427	(256) 555-1024	55534
#	ASSISTANT OSC DIRECTOR	HARRIS, JAMES	3195	(256) 555-1025	55535
	OSC TEAM MANAGER	SHULTY, RANDY	2040	(256) 555-1026	55536
	FIRE PROTECTION MANAGER	STEVEN, TERRY	2555	(256) 555-1027	55537
*	OSC CHEMISTRY MANAGER	BELCHER, WILLIAM	7129	(256) 555-1028	55538
	OSC OPERATIONS MANAGER	JULY, JOHN	7677	(256) 555-1029	55539
	TSC TAT RX ENGINEER	WEATHER, WILLIAM	2389	(256) 555-1030	55540
#	NRC COORDINATOR	DUSTIN, STEVE	2070	(256) 555-1031	55541
	TSC STATUSBOARD WRITER	KENTSOM, JAMES	3177	(256) 555-1032	55542
	OSC STATUSBOARD WRITER #1	TANDIVER, LESLIE	7729	(256) 555-1033	55543
	OSC STATUSBOARD WRITER #2	GENTRIE, KELLY	7593	(256) 555-1034	55544
#	MATERIALS COORDINATOR	OCH, TIM	3868	(256) 555-1035	55545
	OSC STAGING AREA MANAGER	HILLMAN, TILLY	6171	(256) 555-1036	55546
	OSC DOCUMENT CONTROL	KURT, SUSAN	4654	(256) 555-1037	55547
	NRC RESIDENT #1	ROSSLYN, TERRY	2573	(256) 555-1038	55548
	NRC RESIDENT #2	TRESSEL, DAN	7583	(256) 555-1039	55549
	NRC RESIDENT #3	NEBAM, PHILLIP	2584	(256) 555-1040	55550
	NRC RESIDENT #4	STAN, WILLIAM	2594	(256) 555-1041	55551

## ORANGE WEEKLY DUTY LIST

# - Incident Team Position

\* - Position Change

FOR A DUTY CHANGE CONTACT EP, AT EXT. 2692 (IF THERE IS NO ANSWER PLEASE LEAVE A MESSAGE) & CONTACT THE UNIT 1, UNIT OPERATOR AT EXT. 2191.

## Duty List Changes

### ORANGE WEEKLY DUTY LIST

**Note:** Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

<i>Position</i>	<i>Name</i>	<i>Time Frame</i>	<i>Site Phone</i>	<i>Home Phone</i>	<i>Pager</i>
SITE EMERGENCY DIRECTOR					
OPERATIONS MANAGER					
CONTROL RM COMMUNICATOR					
TECHNICAL ASSESSMENT MGR					
RADCON MANAGER					
MAINTENANCE MANAGER					
OSC DIRECTOR					
OSC ELECTRICAL SUPERVISOR					
OSC I/C SUPERVISOR					
OSC MECHANICAL SUPERVISOR					
OSC RADCON MANAGER					
TECHNICAL ASSESSOR #1	HAMES, WILLIAM	This Tuesday - Next Tuesday	4743	(256) 555-1042	55552
OSC ELECTRICAL ENGINEER					
OSC MECHANICAL ENGINEER					
CHEMISTRY MANAGER					
SITE VICE PRESIDENT					
OPERATIONS SPECIALIST	ROBERTS, DONALD	This Tuesday - Next Tuesday	7971	(256) 555-1043	55553
TECH ASSESSMENT TM LEADER					
ASST. RADCON MANAGER					
TSC COMMUNICATOR					
TECHNICAL ASSESSOR #2					
EP MANAGER					
NUCLEAR SECURITY MANAGER					
SITE ENGINEERING MANAGER					
ASSISTANT OSC DIRECTOR					
OSC TEAM MANAGER					
FIRE PROTECTION MANAGER					
OSC CHEMISTRY MANAGER	PITCHER, ROBERT	This Tuesday - Next Tuesday	7442	(256) 555-1044	55554
OSC OPERATIONS MANAGER					
OSC I/C ENGINEER					
NRC COORDINATOR					
TSC STATUSBOARD WRITER					
OSC STATUSBOARD WRITER #1					
OSC STATUSBOARD WRITER #2					
MATERIALS COORDINATOR					
OSC STAGING AREA MANAGER					
OSC DOCUMENT CONTROL					
NRC RESIDENT #1					
NRC RESIDENT #2					
NRC RESIDENT #3					
NRC RESIDENT #4					

**ORANGE WEEKLY DUTY LIST**



## Radiological Emergency Personnel Callout List

**Instructions:**

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

**SITE EMERGENCY DIRECTOR** (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	BONO, STEVEN M.	ORANGE	(555) 555-3781	(555) 555-1149	10177	, AL
	HUGHES, DANIEL L.	RED	(555) 555-2555	(555) 555-6518	11704	, AL
	KIMBERLIN, JEFFREY A.	GREEN	(555) 555-6213	(555) 555-0969	10181	, AL
	RASMUSSEN, MATTHEW	BLUE	(555) 555-2555	(555) 555-0174	19116	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

**ASK THE FOLLOWING QUESTIONS:**

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature

## Radiological Emergency Personnel Callout List

**Instructions:**

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

**OPERATIONS MANAGER** (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	BAKER, WILLIAM J.	GREEN	(555) 555-3271	(555) 555-6340	11741	, AL
	HAMMETT, MICKEY S.	BLUE	(555) 555-7616	(555) 555-4245	91445	, AL
	MORRISON, JEFFERY D.	ORANGE	(555) 555-7921	(555) 555-0360	95939	, AL
	VAUGHN, CHRIS L.	RED	(555) 555-2213	(555) 555-7232	10889	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

**ASK THE FOLLOWING QUESTIONS:**

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature



## Radiological Emergency Personnel Callout List

### Instructions:

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

### CONTROL RM COMMUNICATOR (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	BINKLEY, DONALD C. JR	RED	(555) 555-3959	(555) 555-6485	30413	, AL
	GIBSON, MICHAEL	GREEN	(555) 555-2783	(555) 555-0655	11829	, AL
	RUBY, JORDEN	ORANGE	(555) 555-2783	(555) 555-6506	15751	, AL
	THARPE, MICHAEL	BLUE	(555) 555-3949	(555) 555-4048	15750	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

### ASK THE FOLLOWING QUESTIONS:

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature

## Radiological Emergency Personnel Callout List

**Instructions:**

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

**TECHNICAL ASSESSMENT MGR** (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	BRUCE, MICHAEL B.	ORANGE	(555) 555-3079	(555) 555-5280	11845	, AL
	DONAHUE, PETE	RED	(555) 555-2660	(555) 555-8003	11920	, AL
	DURR, MICHAEL J.	ORANGE	(555) 555-2503	(555) 555-5119	15433	, AL
	FREVOLD, ERIC J.	BLUE	(555) 555-7826	(555) 555-3218	10600	, AL
	KING, RONALD	GREEN	(555) 555-2016	(555) 555-5255	70942	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

**ASK THE FOLLOWING QUESTIONS:**

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature

## Radiological Emergency Personnel Callout List

**Instructions:**

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

**RADCON MANAGER** (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	COLE, TONY ALLEN	BLUE	(555) 555-2400	(555) 555-1570	95775	, AL
	COWAN, STEVEN R.	RED	(555) 555-6262	(555) 555-2261	15336	, AL
	FERGUSON, JOE	ORANGE	(555) 555-2617	(555) 555-1843	11244	, AL
	NORRIS, ROBERT	GREEN	(555) 555-2490	(555) 555-0013	19184	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

**ASK THE FOLLOWING QUESTIONS:**

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature

## Radiological Emergency Personnel Callout List

### Instructions:

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

### **MAINTENANCE MANAGER** (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	BROWN, STEVE	RED	(555) 555-2647	(555) 555-8046	15300	, AL
	FLOYD, MARK	GREEN	(555) 555-3646	(555) 555-6495	15090	, AL
	MCBAY, BLAKE	BLUE	(555) 555-7799	(555) 555-1321	20640	, AL
	REDING, RICHARD J.	ORANGE	(555) 555-6483	(555) 555-6919	91347	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

### ASK THE FOLLOWING QUESTIONS:

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature

# Radiological Emergency Personnel Callout List

**Instructions:**

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

**OSC DIRECTOR** (Contact 1 )

**Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.**

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	FLOWERS, DAVID F.	ORANGE	(555) 555-7400	(555) 555-1398	95065	, AL
	GANDENBERGER, DONALD J.	RED	(555) 555-3170	(555) 555-5861	15681	, AL
	KELLEY, SCOTT	BLUE	(555) 555-3160	(555) 555-1771	40374	, AL
	KEMP, REGINALD A.	GREEN	(555) 555-2431	(555) 555-6419	10107	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

**ASK THE FOLLOWING QUESTIONS:**

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature

## Radiological Emergency Personnel Callout List

### Instructions:

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

### OSC ELECTRICAL SUPERVISOR (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	BAXTER, BEN		(555) 555-6015	(555) 555-6068	91349	, AL
	CAMARGO, SUSAN M.		(555) 555-7983	(555) 555-6187	92623	, AL
	HARROLD, STEVEN		(555) 555-7735	(555) 555-0772	15099	, AL
	POWERS, JAMES J.		(555) 555-7735	(555) 555-7343	15022	, AL
	PULLER, EDGAR L.		(555) 555-7735	(555) 555-0685	10977	, AL
	SPEARS, STEPHEN		(555) 555-7735	(555) 555-1744	15098	, AL
	WALTON, M. SHAWN		(555) 555-3265	(555) 555-5094	95300	, AL
	WENDELL, RODNEY		(555) 555-7735	(555) 555-0085	95531	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

### ASK THE FOLLOWING QUESTIONS:

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature



## Radiological Emergency Personnel Callout List

### Instructions:

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

### OSC I/C SUPERVISOR (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	WEAVER, DWIGHT A.	BLUE	(555) 555-3253	(555) 555-9115	60824	, AL
	BURCHAM, JOSHUA J.	ORANGE	(555) 555-2039	(555) 555-6967	15711	, AL
	CRUNK, WILLIAM T.	ORANGE	(555) 555-6204	(555) 555-2766	60593	, AL
	JOHNSON, DAVID L.	GREEN	(555) 555-2039	(555) 555-0823	14962	, AL
	JOHNSON, MICHEAL P.	RED	(555) 555-3642	(555) 555-9188	11772	, AL
	SOLLEY, JACKIE L.	BLUE	(555) 555-2422	(555) 555-4404	30850	, AL
	TOMLINSON, MARK E.	RED	(555) 555-3638	(555) 555-8821	14680	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

### ASK THE FOLLOWING QUESTIONS:

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature

## Radiological Emergency Personnel Callout List

### Instructions:

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

### OSC MECHANICAL SUPERVISOR (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	BORDER, JUDI B.	BLUE	(555) 555-3080	(555) 555-6235	90721	, AL
	ATCHLEY, DELMER D.	RED	(555) 555-7504	(555) 555-2376	95467	, AL
	MERRINER, SCOTT E.	ORANGE	(555) 555-6970	(555) 555-2806	14408	, AL
	VIDALIER, KELLY J.	GREEN	(555) 555-2403	(555) 555-6654	15091	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

### ASK THE FOLLOWING QUESTIONS:

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature



## Radiological Emergency Personnel Callout List

**Instructions:**

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

**OSC RADCON MANAGER** (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	CAGLE-JAUDON, TERRI		(555) 555-6186	(555) 555-9762	96007	, AL
	CARSON, DONNA D.		(555) 555-7179	(555) 555-9076	12407	, AL
	HAMILTON, ANTHONY T.		(555) 555-2576	(555) 555-3031	95641	, AL
	HENRY, KENNETH		(555) 555-3063	(555) 555-5651	11773	, AL
	JOHNSON, DAVID S.		(555) 555-3104	(555) 555-9938	95779	, AL
	KELLER, JOE E.		(555) 555-3104	(555) 555-7339	12412	, TN
	ON SHIFT RADCON SUPV.		(555) 555-3104		90500	
	SCONE, GEORGE E.		(555) 555-3793	(555) 555-3586	15334	, AL
	WEBB, ROBERT G.		(555) 555-3104	(555) 555-9484	95773	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

**ASK THE FOLLOWING QUESTIONS:**

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature

## Radiological Emergency Personnel Callout List

### Instructions:

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

### TECHNICAL ASSESSOR #1 (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	DE LA GARZA, RODRIGO		(555) 555-4704	(555) 555-1570	70935	, AL
	HAYES, WILLIAM R.		(555) 555-4743	(555) 555-4938	10218	, AL
	KING, JESSE V.		(555) 555-4751	(555) 555-2720	70565	, AL
	LONG, TELISSA K.		(555) 555-4748	(555) 555-3593	90228	, AL
	MARSH, DAVID		(555) 555-4782	(555) 555-4664	15016	, AL
	STORCH, ROBERT H.		(555) 555-4740	(555) 555-9463	13427	, AL
	WILLIAMSON, BILL T.		(555) 555-4725	(555) 555-5007	10292	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

### ASK THE FOLLOWING QUESTIONS:

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature

## Radiological Emergency Personnel Callout List

**Instructions:**

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

**OSC ELECTRICAL ENGINEER** (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	BELCHER, AMOS H.	BLUE	(555) 555-3169	(555) 555-2113	40962	, AL
	BOUSLOG, WILLIAM	GREEN	(555) 555-7589	(555) 555-9432	15213	, AL
	HOANG, WILL	RED	(555) 555-3140	(555) 555-1158	14338	, AL
	SAMPSON, JAMES R.	ORANGE	(555) 555-7420	(555) 555-8250	10178	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

**ASK THE FOLLOWING QUESTIONS:**

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature

## Radiological Emergency Personnel Callout List

### Instructions:

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

### OSC MECHANICAL ENGINEER (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	CURTHS, DAVID W.	BLUE	(555) 555-7955	(555) 555-4488	60275	, AL
	KIRBY, EDWARD E.	ORANGE	(555) 555-3168	(555) 555-2706	14213	, AL
	MINGUS, III THOMAS M.	RED	(555) 555-7315	(555) 555-1665	60826	, AL
	ELLETT, MICHAEL	ORANGE	(555) 555-7734	(555) 555-2997	11980	, AL
	GRONEK, JAMES W.		(555) 555-6903	(555) 555-8046	95555	, AL
	HENDERSON, MICHAEL	GREEN	(555) 555-7494	(555) 555-1392	70504	, AL
	INGRAM, SANDY	RED	(555) 555-2685	(555) 555-9461	20015	, AL
	ROBBINS, LUKE	GREEN	(555) 555-3149	(555) 555-3180	14891	, AL
	STAFFORD, LARRY T.	BLUE	(555) 555-5553	(555) 555-6741	11756	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

### ASK THE FOLLOWING QUESTIONS:

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature

## Radiological Emergency Personnel Callout List

**Instructions:**

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

**CHEMISTRY MANAGER** (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	BLACK, JOHNNIE S.	RED	(555) 555-2036	(555) 555-1473	20103	, AL
	CAMP, H. ARNIE	GREEN	(555) 555-2640	(555) 555-5108	20107	, AL
	FENTON, JEFFERY D.	BLUE	(555) 555-2974	(555) 555-5810	20124	, AL
	HAMILTON, BRYAN W.	ORANGE	(555) 555-2682	(555) 555-1565	60731	, AL
	UNDERWOOD, JOHN W.		(555) 555-3707	(555) 555-2887	11162	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

**ASK THE FOLLOWING QUESTIONS:**

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature

## Radiological Emergency Personnel Callout List

**Instructions:**

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

**SITE VICE PRESIDENT** (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	CHASE, PHIL L.	BLUE	(555) 555-3035	(555) 555-5967	14574	, AL
	MALINOWSKI, DAVID A.	ORANGE	(555) 555-3439	(555) 555-6658	60885	, AL
	MARLOW, THOMAS A.	GREEN	(555) 555-3078	(555) 555-6473	14043	, AL
	MORRIS, JEFF	RED	(555) 555-3957	(555) 555-9609	15943	, AL
	PIERCE, BILLY W.	RED	(555) 555-3607	(555) 555-6944	55584	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

**ASK THE FOLLOWING QUESTIONS:**

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature



## Radiological Emergency Personnel Callout List

### Instructions:

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

### OPERATIONS SPECIALIST (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	BARKER, JEFFREY S.	BLUE	(555) 555-7953	(555) 555-5559	30547	, AL
	BENNETT, JOSEPH G.	RED	(555) 555-7545	(555) 555-6083	13487	, AL
	ROBERTSON, DONALD T.	ORANGE	(555) 555-7971	(555) 555-3502	94801	, AL
	STOVALL, MICHAEL G.	GREEN	(555) 555-3227	(555) 555-2365	13146	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

### ASK THE FOLLOWING QUESTIONS:

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature

## Radiological Emergency Personnel Callout List

### Instructions:

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

### **TECH ASSESSMENT TM LEADER** (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	FORD, DAVID K.	ORANGE	(555) 555-2097	(555) 555-8347	11776	, AL
	GROOM, KEVIN L.	BLUE	(555) 555-7491	(555) 555-2122	90241	, AL
	KECK, JAMES M.	RED	(555) 555-4750	(555) 555-3128	10255	, AL
	NILSEN, FREDERICK J.	GREEN	(555) 555-2958	(555) 555-2093	10244	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

### ASK THE FOLLOWING QUESTIONS:

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature



## Radiological Emergency Personnel Callout List

**Instructions:**

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

**ASST. RADCON MANAGER** (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	COLE, AIMEE	GREEN	(555) 555-6276	(555) 555-1570	95778	, AL
	CREAMER, CHARLES E.	ORANGE	(555) 555-2983	(555) 555-8021	30053	, AL
	DUNCAN, JOSHUA A.	BLUE	(555) 555-2996	(555) 555-4733	14508	, AL
	HARRIS, JIM		(555) 555-2968	(555) 555-1186	55585	, AL
	PETE, WENDELL F.		(555) 555-6364	(555) 555-1141	96012	, AL
	SCHMEHL, RICHARD S.	RED	(555) 555-2007	(555) 555-4617	30213	, TN

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

**ASK THE FOLLOWING QUESTIONS:**

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature

## Radiological Emergency Personnel Callout List

### Instructions:

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

### TSC COMMUNICATOR (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	BURTON, JAMES W.	BLUE	(555) 555-7938	(555) 555-8772	10599	, AL
	JACKSON, JASON	GREEN	(555) 555-7666	(555) 555-6592	10133	, AL
	COMEENS, JENNIFER	ORANGE	(555) 555-7327	(555) 555-4285	14889	, AL
	FOWLER, LAKESHA M.	GREEN	(555) 555-3089	(555) 555-8580	14888	, AL
	LEONARD, QUINN	BLUE	(555) 555-7320	(555) 555-9979	20083	, AL
	MITCHELL, CHANNING	ORANGE	(555) 555-7754	(555) 555-8796	15159	, AL
	PEYTON, ANDREW	RED	(555) 555-2474	(555) 555-9935	10028	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

### ASK THE FOLLOWING QUESTIONS:

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature

## Radiological Emergency Personnel Callout List

**Instructions:**

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

**TECHNICAL ASSESSOR #2** (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	DOLLAR, CHARLES K.	ORANGE	(555) 555-3141	(555) 555-1387	70853	, AL
	JONES III, W. CASEY	BLUE	(555) 555-7388	(555) 555-5031	11780	, AL
	MOORE, SAMUEL W.	GREEN	(555) 555-7521	(555) 555-2197	10504	, AL
	BAILLES, CHARLES	RED	(555) 555-7651	(555) 555-3454	12549	, AL
	MOXLEY, ROBERT	RED	(555) 555-2754	(555) 555-9787	40936	, AL
	OATES, JANE CZKA	BLUE	(555) 555-7623	(555) 555-6170	15921	, AL
	REISCHMAN, CHRIS	GREEN	(555) 555-8452	(555) 555-2244	95921	, AL
	WILSON, CHRIS	ORANGE	(555) 555-6070	(555) 555-7960	15920	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

**ASK THE FOLLOWING QUESTIONS:**

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature

## Radiological Emergency Personnel Callout List

**Instructions:**

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

**EP MANAGER** (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	FELTMAN, ANTHONY H.	ORANGE	(555) 555-3666	(555) 555-5062	90759	, AL
	COLEMAN, ROB L.	BLUE	(555) 555-3958	(555) 555-4490	55581	, AL
	TIDWELL, BRADLEY F.	RED	(555) 555-3108	(555) 555-6792	11934	, AL
	WALDREP, JOHN R.	GREEN	(555) 555-2038	(555) 555-0296	60561	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

**ASK THE FOLLOWING QUESTIONS:**

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature

## Radiological Emergency Personnel Callout List

**Instructions:**

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

**NUCLEAR SECURITY MANAGER** (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	BRYANT, GRADY L.		(555) 555-3150	(555) 555-1018		, AL
	CHURCHWELL, SHANNON D.		(555) 555-3479	(555) 555-6907	30105	, AL
	ELLENBURG, GREGORY A.		(555) 555-4955	(555) 555-2064	91870	, AL
	EMBERY, DONALD L.		(555) 555-3692	(555) 555-9571		, AL
	ISBELL, JUSTIN T.		(555) 555-2219	(555) 555-9892		, AL
	NEWTON, JAMES R.		(555) 555-3150	(555) 555-8844	10214	, AL
	ON SHIFT SECURITY SUPV.		(555) 555-2219	(555) 555-2219	10214	
	PARKER, PATRICK L.		(555) 555-3028	(555) 555-1030	60812	, AL
	SLOAN, DAVID C.		(555) 555-2219	(555) 555-4628		, AL
	ULTZ, RONALD B.		(555) 555-2219	(555) 555-1389		, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

**ASK THE FOLLOWING QUESTIONS:**

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature

## Radiological Emergency Personnel Callout List

### Instructions:

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

### **SITE ENGINEERING MANAGER** (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	BOONE, MICHAEL J.	GREEN	(555) 555-7402	(555) 555-2851	95013	, AL
	COLVIN, JOHN E.	ORANGE	(555) 555-2427	(555) 555-2316	15131	, AL
	LOVVORN, SHANNON	BLUE	(555) 555-7618	(555) 555-6939	12413	, AL
	SAMARAS, STEPHEN	BLUE	(555) 555-7509	(555) 555-4060	30461	, AL
	WEBSTER, DAN	RED	(555) 555-7902	(555) 555-5265	95809	, AL
	YARBROUGH, J. ANGEL	GREEN	(555) 555-2524	(555) 555-3042	11723	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

### ASK THE FOLLOWING QUESTIONS:

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature



## Radiological Emergency Personnel Callout List

### Instructions:

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

### ASSISTANT OSC DIRECTOR (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	HARRIS, PAUL	ORANGE	(555) 555-3195	(555) 555-2232	90414	, AL
	PATTERSON, THOMAS B.	RED	(555) 555-4841	(555) 555-1368	15149	, AL
	SKARP, ROGER T.	BLUE	(555) 555-6974	(555) 555-8340	15314	, AL
	STARBUCK, WILLIAM C.	GREEN	(555) 555-2039	(555) 555-7720	15224	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

### ASK THE FOLLOWING QUESTIONS:

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature

## Radiological Emergency Personnel Callout List

**Instructions:**

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

**OSC TEAM MANAGER** (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	QUINN, BERNARD		(555) 555-7137	(555) 555-9973	96032	, AL
	CABLE, JEFFREY C.		(555) 555-6074	(555) 555-1025	96037	, AL
	HOGAN, STEVE		(555) 555-7783	(555) 555-5077	30087	, AL
	HUNTER, DOUGLAS E.		(555) 555-6496	(555) 555-6766	96031	, AL
	LEINNEWEBER, VERNON E.		(555) 555-6211	(555) 555-0035	40378	, AL
	SHULTS, TRAVIS		(555) 555-2040	(555) 555-7136	70562	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

**ASK THE FOLLOWING QUESTIONS:**

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature



## Radiological Emergency Personnel Callout List

### Instructions:

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

### **FIRE PROTECTION MANAGER** (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	BRYANT, MICHAEL R.	GREEN	(555) 555-2971	(555) 555-5856	10297	, AL
	SMITH, HAYDEN	RED	(555) 555-2468	(555) 555-0619	60274	, AL
	STEPHENS, THOMAS B. JR	ORANGE	(555) 555-2555	(555) 555-2555	10923	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

### ASK THE FOLLOWING QUESTIONS:

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature

## Radiological Emergency Personnel Callout List

**Instructions:**

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

**OSC CHEMISTRY MANAGER** (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	PITCOCK, ROBERT E.		(555) 555-7442	(555) 555-5095	20117	, AL
	LOUALLEN, BARRY E.		(555) 555-2959	(555) 555-4045	10868	, AL
	OLIVER-BELCHER, TRACI		(555) 555-7129	(555) 555-2113	90392	, AL
	REYNOLDS, ALBERT		(555) 555-3242	(555) 555-9040	11326	, AL
	ROBINSON, DOUGLAS C.		(555) 555-2913	(555) 555-0123	10888	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

**ASK THE FOLLOWING QUESTIONS:**

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature

## Radiological Emergency Personnel Callout List

### Instructions:

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

### OSC OPERATIONS MANAGER (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	BRANAM, DANA L.	RED	(555) 555-2927	(555) 555-8848	14765	, AL
	TAYLOR, THOMAS P.	BLUE	(555) 555-2171	(555) 555-8559	60088	, AL
	BOHANAN, TODD A.	GREEN	(555) 555-7972	(555) 555-3874	15444	, AL
	BOLAND, TIMOTHY D.	ORANGE	(555) 555-7109	(555) 555-5321	14155	, AL
	HOLLIDAY, JOHN E.	RED	(555) 555-2489	(555) 555-8984	15563	, AL
	HOLM, RANDALL O.	BLUE	(555) 555-3002	(555) 555-2261	12696	, AL
	SCOTT, TIMOTHY L.		(555) 555-2190	(555) 555-4328	15237	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

### ASK THE FOLLOWING QUESTIONS:

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature

## Radiological Emergency Personnel Callout List

**Instructions:**

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

**TSC TAT RX ENGINEER** (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	HIPPS, ANTHONY R.	BLUE	(555) 555-2389	(555) 555-5182	55550	, AL
	STEVENS, LEONARD G.	GREEN	(555) 555-2389	(555) 555-6217	55578	, AL
	MERGY, STEPHEN D.	RED	(555) 555-2389	(555) 555-1067	55528	, AL
	WEATHER, WILLIAM C.	ORANGE	(555) 555-2389	(555) 555-6962	55501	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

**ASK THE FOLLOWING QUESTIONS:**

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature

## Radiological Emergency Personnel Callout List

**Instructions:**

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

**NRC COORDINATOR** (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	AUSTIN, STEVE W.	ORANGE	(555) 555-2070	(555) 555-9567	60737	, AL
	OLIVER, MICHAEL W.	RED	(555) 555-7874	(555) 555-2028	14110	, AL
	BATES, RICHARD ERIC	GREEN	(555) 555-7180	(555) 555-4314	15257	, AL
	EMENS, JAMES E. JR	BLUE	(555) 555-2636	(555) 555-4669	10980	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

**ASK THE FOLLOWING QUESTIONS:**

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature

## Radiological Emergency Personnel Callout List

### Instructions:

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

### **TSC STATUSBOARD WRITER** (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	SKINNER, KEITH	GREEN	(555) 555-2649	(555) 555-2009	14111	, AL
	WETZEL, STEWART A.	RED	(555) 555-7556	(555) 555-9919	90591	, AL
	CRITTENDEN, GERALD L.	ORANGE	(555) 555-7886	(555) 555-4693	15136	, AL
	DISSPAIN, JAIME L.	BLUE	(555) 555-7403	(555) 555-0555	14890	, AL
	GARNER, FRANKIE	RED	(555) 555-7681	(555) 555-1135	91348	, AL
	JACKSON, DARYL		(555) 555-3604	(555) 555-4213	14861	
	KENT, JAMES A.	ORANGE	(555) 555-3177	(555) 555-0079	13077	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

### ASK THE FOLLOWING QUESTIONS:

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature



## Radiological Emergency Personnel Callout List

**Instructions:**

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

**OSC STATUSBOARD WRITER #1** (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	MCCORMACK, JOHN C.	RED	(555) 555-7582	(555) 555-1286	10262	, AL
	SCHIAVONE, VICTOR D.	BLUE	(555) 555-2607	(555) 555-8681	10555	, AL
	VANDIVER, LESLIE B.	ORANGE	(555) 555-7555	(555) 555-5014	11872	, AL
	WILLIAMS, JONATHAN C.	BLUE	(555) 555-3250	(555) 555-5399	10182	, AL
	HARVEY, KELLI S.	GREEN	(555) 555-7576	(555) 555-3591	20028	, AL
	LACASSE, JOHN T	RED	(555) 555-7235	(555) 555-1213	95584	, AL
	MOORE, JOHN T.	GREEN	(555) 555-3052	(555) 555-7369	12681	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

**ASK THE FOLLOWING QUESTIONS:**

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature

## Radiological Emergency Personnel Callout List

**Instructions:**

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

**OSC STATUSBOARD WRITER #2** (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
_____	CURRY, DAVID A.	GREEN	(555) 555-3147	(555) 555-5021	90437	, AL
_____	GENTRY, KERRY L.	ORANGE	(555) 555-7593	(555) 555-1594	11903	, AL
_____	MARSTON, MICHAEL R.	BLUE	(555) 555-3163	(555) 555-2064	70585	, TN
_____	WEBB, RANDALL	RED	(555) 555-3127	(555) 555-9322	10940	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

**ASK THE FOLLOWING QUESTIONS:**

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature



## Radiological Emergency Personnel Callout List

### Instructions:

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

### **MATERIALS COORDINATOR** (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	BENTLEY, GREG		(555) 555-3340	(555) 555-0307	70806	, AL
	BOWMAN JEFFREY L.		(555) 555-4551	(555) 555-5744	14771	, AL
	FORD, VERNARD		(555) 555-7034	(555) 555-0042	90954	, AL
	GOOCH, TIMOTHY L.		(555) 555-3868	(555) 555-0572	90252	, AL
	HOGAN, DONAHUE		(555) 555-4868	(555) 555-4426	12768	, AL
	HUDSON, B. AUTRY		(555) 555-2889	(555) 555-2886	20201	, AL
	IRONS, ARNELL		(555) 555-6939	(555) 555-9058	14415	, AL
	PUTMAN, KEITH		(555) 555-4673	(555) 555-9173	93530	, AL
	ROBINSON, KIM		(555) 555-7085	(555) 555-6549	15717	, AL
	SHEIL, TIMOTHY M.		(555) 555-4809	(555) 555-7944	12660	, AL
	WILLIAMS, CAROLYN R.		(555) 555-7401	(555) 555-8347	70447	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

### ASK THE FOLLOWING QUESTIONS:

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature

## Radiological Emergency Personnel Callout List

**Instructions:**

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

**OSC STAGING AREA MANAGER** (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	BLENKINSOPP, JOHN		(555) 555-7204	(555) 555-8280	95562	, AL
	BRYAN, JAMEY E.	RED	(555) 555-7634	(555) 555-4405	94997	, AL
	CLAUNCH, DONNIE R.		(555) 555-2677	(555) 555-5655	40939	, AL
	HATTON, BYRON L.	GREEN	(555) 555-2769	(555) 555-6587	15148	, AL
	HILL, BILLY	ORANGE	(555) 555-6171	(555) 555-7333	16059	, AL
	PEDEN, DAVID L.	BLUE	(555) 555-4949	(555) 555-6041	70855	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

**ASK THE FOLLOWING QUESTIONS:**

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature

## Radiological Emergency Personnel Callout List

**Instructions:**

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

**OSC DOCUMENT CONTROL** (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	BURT, SUSAN A.		(555) 555-4654	(555) 555-0083	40132	, AL
	MCBAY, MARTHA A.		(555) 555-3809	(555) 555-6733	70841	, AL
	CAMPBELL, CHRISTI L.		(555) 555-2733	(555) 555-1818	11968	, AL
	CLARK, COURTNEY		(555) 555-2014	(555) 555-9669	14493	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

**ASK THE FOLLOWING QUESTIONS:**

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature

## Radiological Emergency Personnel Callout List

### Instructions:

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

### TSC CLERK (Contact 3 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	ATKINS, CHRISTY H.	GREEN	(555) 555-7723	(555) 555-9659	60651	, AL
	BRIGGS, CASEY L.	RED	(555) 555-3095	(555) 555-8825		, AL
	CARTER, MARY	BLUE	(555) 555-4860	(555) 555-6220		, AL
	CURTIS, VIRGINIA A.	BLUE	(555) 555-3643	(555) 555-3271	95010	, AL
	MABRY, DARLENE T.	GREEN	(555) 555-2029	(555) 555-5753	15037	, AL
	WILSON, DENA D.	RED	(555) 555-3220	(555) 555-5610	14199	, AL
	WORD, KASEY	ORANGE	(555) 555-2190	(555) 555-0733		, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

### ASK THE FOLLOWING QUESTIONS:

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature

## Radiological Emergency Personnel Callout List

### Instructions:

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

### OSC CLERK (Contact 3 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	GRIFFIS, AMY D.	GREEN	(555) 555-3712	(555) 555-0842	15211	, AL
	HERBSTER, KERRI S.	RED	(555) 555-6369	(555) 555-7213		, AL
	SNEED, CELENA	BLUE	(555) 555-2190	(555) 555-2669		, AL
	THOMAS, WANDA	ORANGE	(555) 555-2841	(555) 555-7848		, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

### ASK THE FOLLOWING QUESTIONS:

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature

## Radiological Emergency Personnel Callout List

### Instructions:

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

### OSC PLANNERS (Contact 2 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	BERRY, DARRIN		(555) 555-2090	(555) 555-0459	14675	, AL
	BOYD, VICTOR A.		(555) 555-7814	(555) 555-6038	14358	, AL
	BROWN, K. B.		(555) 555-2421	(555) 555-5188	60279	, AL
	CARRIN, WILLIAM V.		(555) 555-7404	(555) 555-1113	15598	, AL
	CHORNEY, ANTHONY H.		(555) 555-3219	(555) 555-3675	60648	, AL
	CRAFT, CHRIS		(555) 555-3259	(555) 555-9571		, AL
	EDMONSON, PAMELA		(555) 555-7987	(555) 555-0176		, AL
	FOWLER, BRIAN		(555) 555-7247	(555) 555-3102	15599	, AL
	HUGHES, NORRIS Q.		(555) 555-7685	(555) 555-0469	90497	, AL
	JOHNSON, DEBRA C.		(555) 555-2499	(555) 555-1937	95645	, AL
	JOHNSON, MICHAEL		(555) 555-5552	(555) 555-6754	15601	, AL
	JONES, GREGORY R.		(555) 555-7471	(555) 555-2273	15600	, AL
	PRICE, TIMOTHY R		(555) 555-2415	(555) 555-5199	10799	, TN
	RICHARDSON, ASHLEY A.		(555) 555-3067	(555) 555-2391	40525	, AL
	RILEY, DEXTER E.		(555) 555-3263	(555) 555-8538	15273	, AL
	SHERRILL, BRYAN L.		(555) 555-7765	(555) 555-4992	30229	, AL
	SOLLEY, JIMMY		(555) 555-6034	(555) 555-6806	14678	, AL
	SPENCER, EDWARD		(555) 555-7448	(555) 555-9633	70584	, AL
	STRINGER, LEONARD		(555) 555-7922	(555) 555-7406	15741	, AL
	VAN BUREN, BRIAN E		(555) 555-6176	(555) 555-5919	14679	, AL
	VANDIVER, JERRY W.		(555) 555-7636	(555) 555-6743	60152	, AL
	WEEKS, DEBORAH K.		(555) 555-6426	(555) 555-8468	95772	, AL
	WILSON, STEPHANIE		(555) 555-7933	(555) 555-6479	14430	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

**ASK THE FOLLOWING QUESTIONS:**

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

---

Signature



## Radiological Emergency Personnel Callout List

**Instructions:**

Do not notify persons noted with an (\*) for more than one position. Contact as many people in each group as noted. When an individual is contacted, enter the time contacted next to his/her name in the space provided. If an individual cannot be contacted by telephone or pager, place an X by his/her name and try another person.

**SHIFT MANAGER / SED** (Contact 1 )

Note: Disclosure of home telephone numbers to unauthorized personnel or misuse of private information is prohibited by the Privacy Act and is punishable by law.

Time Contacted	Name	Team	Work Phone	Home Phone	Pager #	Address
	CAMPBELL, DENNY W.		(555) 555-3478	(555) 555-9537	30109	, AL
	HAKENEWERTH, DOUGLAS G.		(555) 555-2213	(555) 555-4992	11810	, AL
	HAMMETT, MICKEY S.	BLUE	(555) 555-7616	(555) 555-4245	91445	, AL
	HUNTER, MICHAEL D.		(555) 555-2213	(555) 555-1683	30981	, AL
	KIMBERLIN, JEFFREY A.	GREEN	(555) 555-6213	(555) 555-0969	10181	, AL
	MCNUTT, BRIAN K.		(555) 555-2213	(555) 555-1951	12379	, AL
	MORRISON, JEFFERY D.	ORANGE	(555) 555-7921	(555) 555-0360	95939	, AL
	NASH, MICAH T.		(555) 555-2213	(555) 555-4497	95935	, AL
	RASMUSSEN, MATTHEW	BLUE	(555) 555-2555	(555) 555-0174	19116	, AL
	STOWE, RONALD H.		(555) 555-2213	(555) 555-9623	70567	, AL
	VAUGHN, CHRIS L.	RED	(555) 555-2213	(555) 555-7232	10889	, AL
	WHITE, KELLY J.		(555) 555-2213	(555) 555-9321	60280	, AL

**MESSAGE:** "We have a(an) \_\_\_\_\_ classification at \_\_\_\_\_ Nuclear Plant. Please report to your emergency station immediately to fill your assigned position".

**ASK THE FOLLOWING QUESTIONS:**

- 1) Have you consumed alcohol within the past five hours? YES or NO (If YES, instruct not to report and call next name.)
- 2) Are you fit for duty? YES or NO (If NO, instruct not to report and call next name.)

\_\_\_\_\_  
Signature



OPERATOR: \_\_\_\_\_

SRO \_\_\_\_\_ DATE: \_\_\_\_\_

JPM NUMBER: Admin SRO A4

TASK NUMBER: S-000-EM-21 (SRO ONLY)

TITLE: Classify the event per REP (Fuel Damage with RCIC Steam Leak)

K/A NUMBER: 2.4.41 K/A RATING: SRO 4.6

TASK STANDARD: The event is classified as an ~~Alert Site Area Emergency~~, EAL Designator 2.3-~~S+A~~ OR 1.3-A and the Initial Notification appendix is completed with the correct information. Event is classified within 15 minutes and Initial Notification is completed within 15 minutes of classification with correct Protective Action Recommendation.

LOCATION OF PERFORMANCE: Simulator or Classroom

REFERENCES/PROCEDURES NEEDED: EPIP 1, EPIP 34 34 8-16-2011

VALIDATION TIME: 30 minutes

MAX. TIME ALLOWED: 15 minutes to classify and 15 minutes to notify

PERFORMANCE TIME:

COMMENTS: Licensee determined that the Highest REQUIRED emergency declaration was ALERT based on intact RCS and RCIC 71-2 isolation. Licensee provided revised JPM.

BK

Additional comment sheets attached? YES \_\_\_ NO \_\_\_

RESULTS: SATISFACTORY \_\_\_ UNSATISFACTORY \_\_\_

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

EXAMINER

**INITIAL CONDITIONS:** You are the SHIFT MANAGER. Unit 2 was operating at 80% power performing a Control Rod Pattern Adjustment. During the Control Rod Pattern Adjustment, Control Rod 38-23 dropped several notches. Unit shutdown was in progress when a RCIC steam leak developed.

A Reactor SCRAM was inserted and the following conditions exist:

The TSC, OSC and CECC are not staffed at this time.

Reactor Level	10 inches and slowly rising
Reactor Pressure	950 psig and stable
DW Pressure	1.35 psig and stable
DW Temperature	135°F and stable
DW Oxygen	2.9% and slowly rising
DW Hydrogen	2.4% and slowly rising
Chemistry Sample (Dose Equivalent I-131)	310 $\mu$ Ci/gm

DW Radiation	2-RM-90-272A is reading 2900 R/Hr 2-RM-90-273A is reading 1300 R/Hr
--------------	--

PCIS Isolation Group 5	Is NOT complete, RCIC Valves 71-2 and 71-3 failed to auto close, RCIC Valve 71-2 was closed with Control Room operator action.
------------------------	--

RCIC Area	TE-71-41A indicates 195°F
RCIC Room 90-26A	600 mrem/hr
Wind Speed	10 mph
Wind Direction	200°
Projected TEDE at site boundary	< 1 REM
Projected Thyroid CDE at site boundary	< 5 REM

**INITIATING CUE:** Identify the **HIGHEST REQUIRED** emergency classification, and complete the associated initial notification form. Raise your hand immediately once you have classified the event, and the examiner will then provide you with the EPIP you've chosen so you can begin completing the initial notification form.

**JPM is Time Critical**

\*\*\*\*\*

**Classroom**

\*\*\*\*\*

**INITIAL CONDITIONS:** You are the SHIFT MANAGER. Unit 2 was operating at 80% power performing a Control Rod Pattern Adjustment. During the Control Rod Pattern Adjustment, Control Rod 38-23 dropped several notches. Unit shutdown was in progress when a RCIC steam leak developed.

A Reactor SCRAM was inserted and the following conditions exist:

The TSC, OSC and CECC are not staffed at this time.

Reactor Level	10 inches and slowly rising
Reactor Pressure	950 psig and stable
DW Pressure	1.35 psig and stable
DW Temperature	135°F and stable
DW Oxygen	2.9% and slowly rising
DW Hydrogen	2.4% and slowly rising
Chemistry Sample (Dose Equivalent I-131)	310 $\mu$ Ci/gm
DW Radiation	2-RM-90-272A is reading 2900 R/Hr 2-RM-90-273A is reading 1300 R/Hr
PCIS Isolation Group 5	Is NOT complete, RCIC Valves 71-2 and 71-3 failed to auto close, RCIC Valve 71-2 was closed with Control Room operator action.
RCIC Area	TE-71-41A indicates 195°F
RCIC Room 90-26A	600 mrem/hr
Wind Speed	10 mph
Wind Direction	200°
Projected TEDE at site boundary	< 1 REM
Projected Thyroid CDE at site boundary	< 5 REM

**INITIATING CUE:** Identify the **HIGHEST REQUIRED** emergency classification, and complete the associated initial notification form. Raise your hand immediately once you have classified the event, and the examiner will then provide you with the EPIP you've chosen so you can begin completing the initial notification form.

**JPM is Time Critical**

START TIME \_\_\_\_\_

\*\*\*\*\*

Performance Step 1:

Critical  Not Critical

Refers to EPIP 1 to classify emergency event.

Standard:

SHIFT MANAGER refers to EPIP 1 and declares an Alert - Site Area Emergency, EAL 2.3-  
A S1, based on Drywell Radiation reading greater than 2263-642 on 2-RE-90-272A, OR  
1.3-A, based on Iodine-131 coolant activity >300 µCi/gm.

SAT\_\_ UNSAT\_\_ N/A \_\_ COMMENTS: \_\_\_\_\_

TIME Classified \_\_\_\_\_

START TIME \_\_\_\_\_

\*\*\*\*\*

Performance Step 2: Critical  Not Critical

Implements EPIP ~~43~~<sup>06-8-12-2011</sup> Site Area Emergency Alert and completes Appendix A of EPIP ~~43~~<sup>06-8-12-2011</sup>.

Standard:

Shift Manager completes Appendix A of EPIP 34 within 15 minutes of event classification

SAT\_\_ UNSAT\_\_ N/A \_\_ COMMENTS: \_\_\_\_\_

TIME Appendix A Complete \_\_\_\_\_

\*\*\*\*\*

Performance Step 3: Critical  Not Critical

Completes Appendix A of EPIP ~~43~~<sup>06-8-12-2011</sup>

Standard:

Following are Critical portions of Appendix A: Unit 2 is checked, EAL Designator 2.3-~~S1A OR 1.3-A~~, minor releases within federally approved limits is checked for Airborne/Liquid, Time and Date Event declared and PAR recommendation NONE is checked.

SAT\_\_ UNSAT\_\_ N/A \_\_ COMMENTS: \_\_\_\_\_

END OF TASK