OPERATOR: _		
RO S	RO 1	DATE:
JPM NUMBER:	a	
TASK NUMBER	C: U-085-AB-03	
TASK TITLE: C	RD Pump Trip at <90	0 psig Reactor Pressure
K/A NUMBER:	201001 A2.01	K/A RATING: RO 3.2 SRO 3.3
TASK STANDA	check, ranges IR	trol Rod, if withdrawn to position 48; performs a coupling tMs to prevent a full scram signal, and inserts a manual able to restore CRD drive water pressure >940 psig.
LOCATION OF	PERFORMANCE: S	Simulator
REFERENCES/I	PROCEDURES NEEI	DED: 2-OI-85 and 2-AOI-85-3
VALIDATION 1	IME: 15 minutes	
MAX. TIME AL	LOWED: (Completed	for Time Critical JPMs only)
PERFORMANC	E TIME:	
COMMENTS: _		
Additional comm	ent sheets attached?	YES NO
RESULTS: SA	ATISFACTORY	UNSATISFACTORY
SIGNATURE: _	EXAMINER	DATE:

## **INITIAL CONDITIONS:**

You are the Reactor Operator. Plant startup is in progress. Last completed Control Rod was 38-43 from 16 to 48, Sequence A2 Group 12. Other Operators are assigned heat up rate monitoring and Reactor Level Control.

## **INITIATING CUE:**

The Unit Supervisor directs you to continue withdrawing controls rods for plant startup, the next control rod is 30-35. Rod Out Notch Override is authorized, complete the withdrawal of group 12 and then continue with group 13.

\*

**IN-SIMULATOR:** I will explain the initial conditions and state the task to be performed. I will provide initiating cues and reports on other actions when directed by you. When you complete the task successfully, the objective for this job performance measure will be satisfied. When your task is given, you will repeat the task and I will acknowledge "That's Correct". (OR "That's Incorrect", if applicable). When you have completed your assigned task, you will say, "my task is complete" and I will acknowledge that your task is complete.

\*

### **INITIAL CONDITIONS:**

You are the Reactor Operator. Plant startup is in progress. Last completed Control Rod was 38-43 from 16 to 48, Sequence A2 Group 12. Other Operators are assigned heat up rate monitoring and Reactor Level Control.

### **INITIATING CUE:**

The Unit Supervisor directs you to continue withdrawing controls rods for plant startup, the next control rod is 30-35. Rod Out Notch Override is authorized, complete the withdrawal of group 12 and then continue with group 13.

NRC Examiner Steps 1 through 5 are for single notch withdrawal, steps 6 through 15 are for continuous withdrawal.

	RT TIME *******************************			
Performance Step 1: Critical X Not Critical				
6.6.3	Control Rod Notch Withdrawal			
[1]	<b>SELECT</b> the desired control rod by depressing the appropriate CRD ROD SELECT pushbutton, 2-XS-85-40.			
Standa	ard:			
	Selects Control Rod 38-43 by depressing 38-43 pushbutton.			
SAT_	UNSAT N/ACOMMENTS:			
	**************************************			
[2]	OBSERVE the following for selected control rod:			
·	<ul> <li>CRD ROD SELECT pushbutton is brightly ILLUMINATED.</li> <li>White light on the Full Core Display ILLUMINATED.</li> <li>Rod Out Permit light ILLUMINATED.</li> </ul>			
Standa	ard:			
	Observes the above indications.			
SAT_	UNSAT N/ACOMMENTS:			

JPM a PAGE 5 OF 16

Perfo:	ormance Step 3:	Critical $\underline{X}$
[3]	<b>VERIFY</b> ROD WORTH MINIMIZER operable and LATO GROUP, when Rod Worth Minimizer is enforcing.	CHED in to correct ROD
Stand	dard:	
from 1	Verifies Rod Worth Minimizer responded correctly and verification 16 to 48.	fied Control Rod 38-43 is going
SAT_	UNSAT N/ACOMMENTS:	
	**************************************	**************************************
[4]	PLACE CRD CONTROL SWITCH, 2-HS-85-48, in ROD RELEASE.	OUT NOTCH, and
[5]	<b>OBSERVE</b> the control rod settles into the desired position extinguishes.	and the ROD SETTLE light
Stand	dard:	
	Withdraws control rod 38-43.	
SAT_	UNSAT N/ACOMMENTS:	

\*

************	**************
Performance Sten 5:	Critical Y Not Critical

- [6] **IF** control rod is notch withdrawn to rod notch Position 48, **THEN PERFORM** control rod coupling integrity check as follows:
  - [6.1] **PLACE** CRD CONTROL SWITCH, 2-HS-85-48, in ROD OUT NOTCH, and **RELEASE**.
  - [6.2] **CHECK** control rod coupled by observing the following:
    - Four rod display digital readout AND the full cores display digital readout AND background light remain illuminated.
    - CONTROL ROD OVERTRAVEL annunciator, 2-XA-55-5A, Window 14, does **NOT** alarm.
  - [6.3] **CHECK** the control rod settles into Position 48 and the ROD SETTLE light extinguishes.

|--|

	If Control Rod is withdrawn to position 48, performs a coupling check.					
SAT_	_UNSAT	_ N/A	_COMMENTS:			

************	****************
Performance Step 6:	Critical X Not Critical

## 6.6.4 Continuous Rod Withdrawal

#### NOTES

- 1) Continuous control rod withdrawal may be used when a control rod is to be withdrawn greater than three notches.
- When in areas of high notch worth, single notch withdrawal should be used instead of continuous rod withdrawal. Information concerning high notch worth is identified by Reactor Engineering in Control Rod Coupling Integrity Check, 2-SR-3.1.3.5A.
- 3) When continuously withdrawing a control rod, the CRD Notch Override Switch is held in the Override position and the CRD Control Switch is held in the Rod Out Notch position.
  - Both switches should be released when the control rod reaches two notches prior to its intended position.
     (Example: If a control rod is to be withdrawn from position 00 to position 12, the CRD Notch Override Switch and the CRD Control Switch would be used to move the control rod until reaching position 08, then both switches would be released.)
  - If the rod settles in a notch prior to the intended position, the CRD Control Switch should be used to withdraw the rod to the intended position. (using the above example; If the control rod settles at a notch prior to the intended position of 12, the CRD Control Switch would be used to withdraw the control rod to position 12.
- [1] **SELECT** the desired control rod by depressing the appropriate CRD ROD SELECT pushbutton, 2-XS-85-40.

#### Standard:

SAT	_UNSAT	_ N/A	COMMENTS:_	

JPM a PAGE 8 OF 16

	ormance Step 7: Critical _ Not Critical	
[2]	OBSERVE the following for selected control rod:	
	<ul> <li>CRD ROD SELECT pushbutton is brightly ILLUMINATED.</li> <li>White light on the Full Core Display ILLUMINATED.</li> <li>Rod Out Permit light ILLUMINATED.</li> </ul>	
Standa	dard:	
	Observes the above indications.	
SAT_	UNSATN/ACOMMENTS:	
	**************************************	
[3]	<b>VERIFY</b> ROD WORTH MINIMIZER operable and LATCHED in to correct FGROUP, when Rod Worth Minimizer is enforcing.	ROD
Standa	dard:	
	Verifies Rod Worth Minimizer responded correctly.	
SAT_	UNSAT N/ACOMMENTS:	
	**************************************	
[4]	VERIFY Control Rod is being withdrawn to a position greater than three notch	ies.
Standa	dard:	
	Verifies Control Rod 30-35 is going from position 16 to 48.	
SAT_	UNSAT N/ACOMMENTS:	

a		
9	OF	16
		a 9 OF

*****************	*******
Performance Step 10: Critical Not Critical	
[5] <b>IF</b> withdrawing the control rod to a position other than "4 following: (Otherwise N/A)	8", THEN PERFORM the
Standard:	
Step is NA.	
SAT UNSAT N/ACOMMENTS:	

The Control of the Co

***********	*************
Performance Step 11:	Critical X Not Critical

#### NOTE

When continuously withdrawing a control rod to position 48, the control rod coupling integrity check can be performed by one of the two following methods:

- 1) Coupling integrity check while maintaining the CRD Notch Override Switch in the Override position and the CRD Control Switch in the Rod Out Notch position. If this method is selected, perform Step 6.6.4[6] and N/A Step 6.6.4[7].
- 2) Coupling integrity check after releasing the CRD Notch Override Switch and the CRD Control Switch. If this method is selected, perform Step 6.6.4[7] and N/A Step 6.6.4[6].
- [6] **IF** continuously withdrawing the control rod to position 48 and performing the control rod coupling integrity check in conjunction with withdrawal, **THEN PERFORM** the following: (Otherwise N/A)
  - [6.1] **PLACE** and **HOLD** CRD NOTCH OVERRIDE, 2-HS-85-47, in NOTCH OVERRIDE.
  - [6.2] **PLACE** and **HOLD** CRD CONTROL SWITCH, 2-HS-85-48, in ROD OUT NOTCH.

## Standard:

Continuously withdraws	Control Rod 30-35 by holding sw	vitch, 2-HS-85-47, in Notch
Override and, 2-HS-85-48, in R	od Out Notch.	

SAT	UNSAT	N/A	COMMENTS:		•
			-		

Driver: At direction of Evaluator, after or during withdraw of control rod 30-35, trip operating CRD Pump.

CUE: If required have operator take the actions of 2-AOI-85-3 CRD System Failure.

**	******	****	*******	*******	*****	*****	*****	*****	*****	*****	*****
_	0	~ .							<b>-</b>		_

## Performance Step 12:

Critical X Not Critical

- [6.3] **MAINTAIN** the CRD Notch Override Switch in the Override position and the CRD Control Switch in the Rod Out Notch position, with the control rod at position 48.
- [6.4] **CHECK** control rod coupled by observing the following:
  - Four rod display digital readout **AND** the full core display digital readout **AND** background light remain illuminated.
  - CONTROL ROD OVERTRAVEL annunciator, 2-XA-55-5A, Window 14, does **NOT** alarm.
- [6.5] **RELEASE** both CRD NOTCH OVERRIDE, 2-HS-85-47, and CRD CONTROL SWITCH, 2-HS-85-48.
- [6.6] **CHECK** control rod settles into position 48 and ROD SETTLE light extinguishes.

<b>C</b> 4	dard:
<b>NTON</b>	aara:
Stan	uaru.

	If control re	od is wit	hdrawn to position 48, performs a coupling ch	eck.	
SAT_	_UNSAT	_ N/A _	COMMENTS:		

\*

# Performance Step 13:

Critical X Not Critical

- [7] **IF** continuously withdrawing the control rod to position 48, the control rod coupling integrity check will be performed after the CRD NOTCH OVERRIDE, 2-HS-85-47, and CRD CONTROL SWITCH, 2-HS-85-48 are to be released. **THEN PERFORM** control rod coupling integrity check as follows (otherwise N/A):
  - [7.1] **PLACE AND HOLD** CRD NOTCH OVERRIDE, 2-HS-85-47, in NOTCH OVERRIDE.
  - [7.2] **PLACE AND HOLD** CRD CONTROL SWITCH, 2-HS-85-48, in ROD OUT NOTCH.

## Standard:

Continuously withdraws Control Rod 30-35 by holding switch, 2-HS-85-47, in Notch Override and, 2-HS-85-48, in Rod Out Notch.

SAT	UNSAT	N/A	_COMMENTS:	 	

Driver: At direction of Evaluator, after or during withdraw of control rod 30-35, trip operating CRD Pump.

CUE: If required have operator take the actions of 2-AOI-85-3 CRD System Failure.

JPM	a		
PAGE	13	OF	16

*****	****	*************************
Perform	nance S	Step 14: Critical _ Not Critical X
	[7.3]	<b>WHEN</b> position 48 is reached, <b>THEN RELEASE</b> CRD NOTCH OVERRIDE, 2-HS-85-47, and CRD CONTROL SWITCH, 2-HS-85-48.
İ	[7.4]	VERIFY control rod settles into position 48.
Standard	<u>d:</u>	
	_	withdraw of Control Rod 30-35 at position 48 by releasing hand switches and verifies osition 48.
SAT	UNSA	AT N/ACOMMENTS:
****** Perform		**************************************
[	[7.5]	PLACE CRD CONTROL SWITCH, 2-HS-85-48, in ROD OUT NOTCH, and RELEASE.
I	[7.6]	<ul> <li>CHECK control rod coupled by observing the following:</li> <li>Four rod display digital readout AND full core display digital readout AND background light will remain illuminated.</li> <li>CONTROL ROD OVERTRAVEL annunciator (2-XA-55-5A, Window 14) does NOT alarm.</li> </ul>
[	[7.7]	CHECK control rod settles into position 48 and ROD SETTLE light extinguishes.
Standard	<u>1:</u>	
I	lf conti	rol rod is withdrawn to position 48, performs a coupling check.
SAT	UNSA	AT N/ACOMMENTS:
	4070	

A STATE OF THE STA

*********************	*****
Performance Step 16: Critic	al X Not Critical
Operator Ranges IRMs as necessary; to maintain greater than the do 7.5/125 and less than the upscale reading of 90/125.	ownscale reading of
Note: the High-High of 116.4/125 will produce a scram signal.	
Standard:	
Ranges IRMs to clear or prevent a Rod Block signal.  Note: A Full Scram signal from IRMs while withdrawing control rods  SATUNSATN/A COMMENTS:	will be a failure.
Driver: At direction of Evaluator, after or during withdraw of control ro CRD Pump.	d 30-35 trip operating
	o o o o o o o o o o o o o o o o o o o
	o con the operating

JPM	a		
PAGE	15.	OF	16

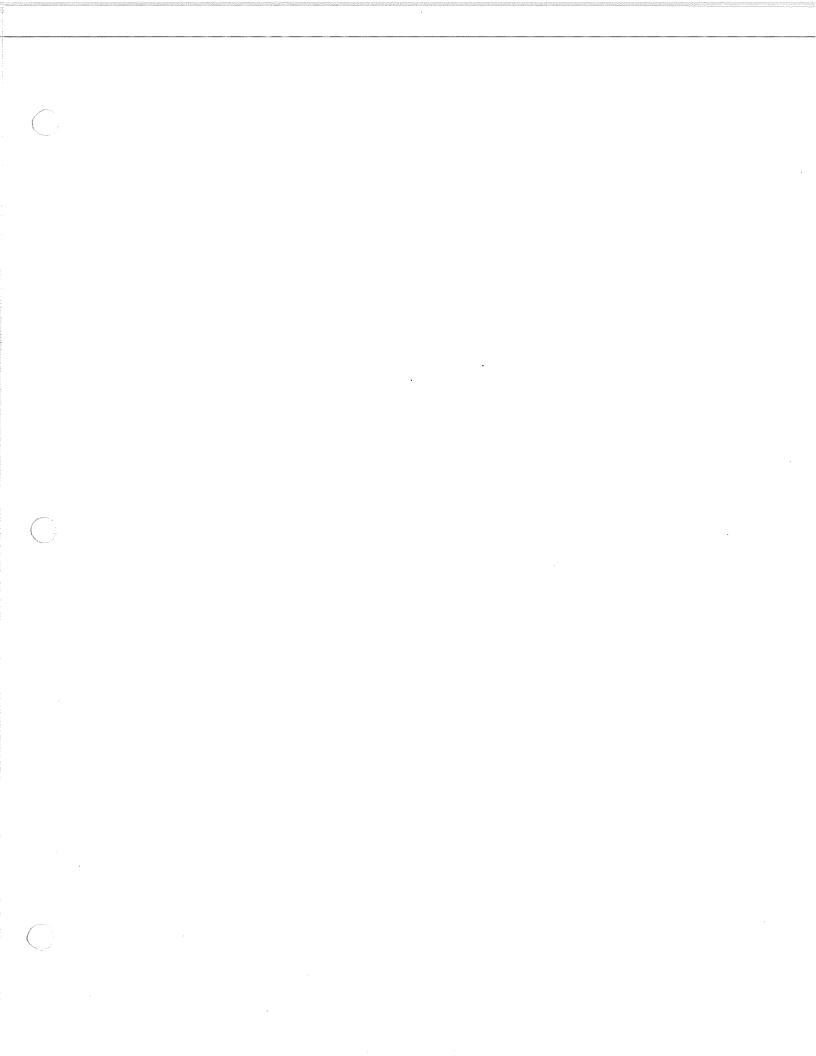
*************	************
Performance Step 17:	Critical _ Not Critical $\underline{X}$
4.1 Immediate Actions	
[1] <b>IF</b> operating CRD PUMP has failed <b>A THEN PERFORM</b> the following at F	<b>ND</b> the standby CRD Pump is available, anel 2-9-5:
[1.1] <b>PLACE</b> CRD SYSTEM FLOW minimum setting.	W CONTROL, 2-FIC-85-11, in MAN at
Standard:	
Places CRD System Flow Control in Manual at	nd at Minimum setting.
SAT UNSAT N/ACOMMENTS:	
*************	************
Performance Step 18:	Critical _ Not Critical X
[1.2] <b>START</b> associated standby CR	RD Pump using one of the following:
• CRD Pump 1B, using 2-HS-8 • CRD Pump 2A, using 2-HS-8	
Standard:	
Attempts to start standby CRD Pump and may	also attempt to start tripped CRD Pump.
SAT UNSAT N/ACOMMENTS:	

JPM	a		
PAGE	16	OF	16

********* Performance	**************************************
[2]	<b>IF</b> Reactor Pressure is less than 900 PSIG and either of the following conditions exists:
	• In-service CRD Pump tripped and neither CRD Pump can be started, <b>OR</b>
·	• Charging Water Pressure can <b>NOT</b> be restored and maintained above 940 PSIG, <b>THEN PERFORM</b> the following:
	[2.1] MANUALLY SCRAM Reactor, IMMEDIATELY PLACE the reactor mode switch in the SHUTDOWN position.
Standard:	
Insert	a Manual Scram and places Mode Switch in Shutdown.
SAT UNS	ATN/ACOMMENTS:
CUE:	After Scram report another operator will continue in 2-AOI-100-1.

END OF TASK

STOP TIME \_\_\_\_



OPERATOR:	
RO SRO _	DATE:
JPM NUMBER:	a
TASK NUMBER:	U-085-AB-03
TASK TITLE: CRD F	Pump Trip at <900 psig Reactor Pressure
K/A NUMBER: 2010	01 A2.01 K/A RATING: RO 3.2 SRO 3.3
TASK STANDARD:	Withdraws Control Rod, if withdrawn to position 48; performs a coupling check, ranges IRMs to prevent a full scram signal, and inserts a manual scram; when unable to restore CRD drive water pressure >940 psig.
LOCATION OF PER	FORMANCE: Simulator
REFERENCES/PROC	CEDURES NEEDED: 3-OI-85 and 3-AOI-85-3
VALIDATION TIME	: 15 minutes
MAX. TIME ALLOW	/ED: (Completed for Time Critical JPMs only)
PERFORMANCE TI	ME:
COMMENTS:	<u> </u>
Additional comment s	heets attached? YES NO
RESULTS: SATIS	FACTORY UNSATISFACTORY
SIGNATURE:	DATE:

## **INITIAL CONDITIONS:**

You are the Reactor Operator. Plant startup is in progress. Last completed Control Rod was 38-43 from 16 to 48, Sequence A2 Group 12. Other Operators are assigned heat up rate monitoring and Reactor Level Control.

## **INITIATING CUE:**

The Unit Supervisor directs you to continue withdrawing controls rods for plant startup, the next control rod is 30-35. Rod Out Notch Override is authorized, complete the withdrawal of group 12 and then continue with group 13.

\*

**IN-SIMULATOR:** I will explain the initial conditions and state the task to be performed. I will provide initiating cues and reports on other actions when directed by you. When you complete the task successfully, the objective for this job performance measure will be satisfied. When your task is given, you will repeat the task and I will acknowledge "That's Correct". (OR "That's Incorrect", if applicable). When you have completed your assigned task, you will say, "my task is complete" and I will acknowledge that your task is complete.

\*

### **INITIAL CONDITIONS:**

You are the Reactor Operator. Plant startup is in progress. Last completed Control Rod was 38-43 from 16 to 48, Sequence A2 Group 12. Other Operators are assigned heat up rate monitoring and Reactor Level Control.

### **INITIATING CUE:**

The Unit Supervisor directs you to continue withdrawing controls rods for plant startup, the next control rod is 30-35. Rod Out Notch Override is authorized, complete the withdrawal of group 12 and then continue with group 13.

NRC Examiner Steps 1 through 5 are for single notch withdrawal, steps 6 through 15 are for continuous withdrawal.

	{`I``I`!\\!E`	***
Perfor	mance Step 1: Critical $\underline{X}$ Not Critical	
6.6.3	Control Rod Notch Withdrawal	
[1]	<b>SELECT</b> the desired control rod by depressing the appropriate CRD ROD SELECT pushbutton, 3-XS-85-40.	
Standa	ard:	
	Selects Control Rod 30-35 by depressing 30-35 pushbutton.	
SAT_	UNSAT N/ACOMMENTS:	
74	**************************************	ć
[2]	<b>OBSERVE</b> the following for selected control rod:	
	<ul> <li>CRD ROD SELECT pushbutton is brightly ILLUMINATED.</li> <li>White light on the Full Core Display ILLUMINATED.</li> <li>Rod Out Permit light ILLUMINATED.</li> </ul>	
Standa	ard:	
	Observes the above indications.	
SAT_	UNSAT N/ACOMMENTS:	

JPM a PAGE 5 OF 16

Perfori	rmance Step 3:	Critical _ Not Critical X
[3]	VERIFY ROD WORTH MINIMIZER operable and LATCH GROUP, when Rod Worth Minimizer is enforcing.	HED in to correct ROD
Standa	ard:	
from p	Verifies Rod Worth Minimizer responded correctly and verification 16 to 48.	ed Control Rod 30-35 is going
SAT_	UNSAT N/ACOMMENTS:	
•		
	**************************************	**************************************
	·	<del>-</del>
[4]	PLACE CRD CONTROL SWITCH, 3-HS-85-48, in ROD (RELEASE.	OUT NOTCH, and
[5]	<b>OBSERVE</b> the control rod settles into the desired position a extinguishes.	nd the ROD SETTLE light
Standa	ard:	
	Withdraws control rod 30-35.	
SAT_	UNSAT N/ACOMMENTS:	
•		
Driv	ver: At direction of Evaluator, after or during withdraw of con CRD Pump.	trol rod 30-35, trip operating
CUI	E: If required, have operator take the actions of 3-AOI-8	5-3 CRD System Failure.

************	*****************
D	CH IN NICH I

## Performance Step 5:

Critical X Not Critical

- [6] **IF** control rod is notch withdrawn to rod notch Position 48, **THEN PERFORM** control rod coupling integrity check as follows:
  - [6.1] **PLACE** CRD CONTROL SWITCH, 3-HS-85-48, in ROD OUT NOTCH, and **RELEASE**.
  - [6.2] **CHECK** control rod coupled by observing the following:
    - Four rod display digital readout **AND** the full cores display digital readout **AND** background light remain illuminated.
    - CONTROL ROD OVERTRAVEL annunciator, 3-XA-55-5A, Window 14, does **NOT** alarm.
  - [6.3] **CHECK** the control rod settles into Position 48 and the ROD SETTLE light extinguishes.

## Standard:

	If Control Rod is withdrawn to position 48, performs a coupling check.					
SAT_	_UNSAT_	_ N/A _	_COMMENTS:	·		

************	***************
Performance Step 6:	Critical X Not Critical

## 6.6.4 Continuous Rod Withdrawal

#### NOTES

- 1) Continuous control rod withdrawal may be used when a control rod is to be withdrawn greater than three notches.
- When in areas of high notch worth, single notch withdrawal should be used instead of continuous rod withdrawal. Information concerning high notch worth is identified by Reactor Engineering in Control Rod Coupling Integrity Check, 3-SR-3.1.3.5A.
- 3) When continuously withdrawing a control rod, the CRD Notch Override Switch is held in the Override position and the CRD Control Switch is held in the Rod Out Notch position.
  - When the control rod reaches two notches below its intended position, both switches should be released.
  - If the rod settles in a notch below the intended position, the CRD Control Switch should be used to withdraw the rod to the intended position.
  - **EXAMPLE**: If a control rod is to be withdrawn from position 00 to position 12, the CRD Notch Override Switch and the CRD Control Switch would be used to move the control rod until reaching position 08, then both switches would be released. If the control rod settles at a notch below the intended position of 12, the CRD Control Switch would be used to withdraw the control rod to position 12.
- [1] **SELECT** the desired control rod by depressing the appropriate CRD ROD SELECT pushbutton, 3-XS-85-40.

Selects Control Rod 30-35 by depressing 30-35 pushbutton.

### Standard:

	J 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
	-				
SAT	UNSAT	_ N/A	_COMMENTS:_		

JPM a PAGE 8 OF 16

Perfor	ormance Step 7:	Critical Not Critical X
[2]	OBSERVE the following for selected control rod:	
	<ul> <li>CRD ROD SELECT pushbutton is brightly ILLUM</li> <li>White light on the Full Core Display ILLUMINATE</li> <li>Rod Out Permit light ILLUMINATED.</li> </ul>	
Stand	dard:	
	Observes the above indications.	
SAT_	UNSAT N/ACOMMENTS:	
	-	
	**************************************	********  Critical _ Not Critical X
[3]	VERIFY ROD WORTH MINIMIZER operable and LATC GROUP, when Rod Worth Minimizer is enforcing.	——————————————————————————————————————
Standa	dard:	
	Verifies Rod Worth Minimizer responded correctly.	
SAT_	UNSAT N/ACOMMENTS:	
****	****************	******
Perfor	ormance Step 9:	Critical _ Not Critical X
[4]	VERIFY Control Rod is being withdrawn to a position great	ater than three notches.
Standa	<u>lard:</u>	
	Verifies Control Rod 30-35 is going from position 16 to 48.	
SAT_	UNSAT N/ACOMMENTS:	

JPM a PAGE 9 OF 16

Performance Step 10:		Critical _ Not Critical <u>X</u>
[5]	<b>IF</b> withdrawing the control rod to a position other than "45 following: (Otherwise N/A)	8", THEN PERFORM the
Standa	ard:	
	Step is NA.	
SAT_	_UNSAT N/ACOMMENTS:	:

*****	******	·*************************************	***

## Performance Step 11:

# Critical X Not Critical

### **NOTE**

When continuously withdrawing a control rod to position 48, the control rod coupling integrity check can be performed by one of the two following methods:

- 1) Coupling integrity check while maintaining the CRD Notch Override Switch in the Override position and the CRD Control Switch in the Rod Out Notch position. If this method is selected, perform Step 6.6.4[6] and N/A Step 6.6.4[7].
- 2) Coupling integrity check after releasing the CRD Notch Override Switch and the CRD Control Switch. If this method is selected, perform Step 6.6.4[7] and N/A Step 6.6.4[6].
- [6] **IF** continuously withdrawing the control rod to position 48 and performing the control rod coupling integrity check in conjunction with withdrawal, **THEN PERFORM** the following: (Otherwise N/A)
  - [6.1] **PLACE** and **HOLD** CRD NOTCH OVERRIDE, 3-HS-85-47, in NOTCH OVERRRIDE.
  - [6.2] **PLACE** and **HOLD** CRD CONTROL SWITCH, 3-HS-85-48, in ROD OUT NOTCH.

## Standard:

Continuously withdraws Control Rod 30-35 by holding switch, 3-HS-85-47, in Notch Override and, 3-HS-85-48, in Rod Out Notch.

SAT	UNSAT	N/A	COMMENTS	S:	
-					

Driver: At direction of Evaluator, after or during withdraw of control rod 30-35, trip operating CRD Pump.

CUE: If required have operator take the actions of 3-AOI-85-3 CRD System Failure.

***********	**************
Danfarmana Ctan 12.	C.11. 137 NT + C.11. 1

## Performance Step 12:

Critical X Not Critical

- [6.3] **MAINTAIN** the CRD Notch Override Switch in the Override position and the CRD Control Switch in the Rod Out Notch position, with the control rod at position 48.
- [6.4] **CHECK** control rod coupled by observing the following:
  - Four rod display digital readout **AND** the full core display digital readout **AND** background light remain illuminated.
  - CONTROL ROD OVERTRAVEL annunciator, 3-XA-55-5A, Window 14, does **NOT** alarm.
- [6.5] **RELEASE** both CRD NOTCH OVERRIDE, 3-HS-85-47, and CRD CONTROL SWITCH, 3-HS-85-48.
- [6.6] **CHECK** control rod settles into position 48 and ROD SETTLE light extinguishes.

|--|

	If control rod is withdrawn to position 48, performs a coupling check.			
SAT_	_UNSAT	_ N/A	COMMENTS:	

\*

# Performance Step 13:

Critical X Not Critical

- [7] IF continuously withdrawing the control rod to position 48, the control rod coupling integrity check will be performed after the CRD NOTCH OVERRIDE, 3-HS-85-47, and CRD CONTROL SWITCH, 3-HS-85-48 are to be released. THEN PERFORM control rod coupling integrity check as follows (otherwise N/A):
  - [7.1] **PLACE AND HOLD** CRD NOTCH OVERRIDE, 3-HS-85-47, in NOTCH OVERRIDE.
  - [7.2] **PLACE AND HOLD** CRD CONTROL SWITCH, 3-HS-85-48, in ROD OUT NOTCH.

## Standard:

Continuously withdraws Control Rod 30-35 by holding switch, 3-HS-85-47, in Notch Override and 3-HS-85-48, in Rod Out Notch.

SAT	UNSAT	N/A	_COMMENTS:		

Driver: At direction of Evaluator, after or during withdraw of control rod 30-35, trip operating CRD Pump.

CUE: If required have operator take the actions of 3-AOI-85-3 CRD System Failure.

Perfor	mance S	Step 14: Critical _ Not Critical X
	[7.3]	WHEN position 48 is reached, THEN RELEASE CRD NOTCH OVERRIDE, 3-HS-85-47, and CRD CONTROL SWITCH, 3-HS-85-48.
	[7.4]	VERIFY control rod settles into position 48.
Standa	rd:	
rod set		withdraw of Control Rod 30-35 at position 48 by releasing hand switches and verification 48.
SAT_	_UNSA	ATN/ACOMMENTS:
	****** nance S	**************************************
	[7.5]	PLACE CRD CONTROL SWITCH, 3-HS-85-48, in ROD OUT NOTCH, and RELEASE.
	[7.6]	<ul> <li>CHECK control rod coupled by observing the following:</li> <li>Four rod display digital readout AND full core display digital readout AND background light will remain illuminated.</li> <li>CONTROL ROD OVERTRAVEL annunciator (3-XA-55-5A, Window 14) does NOT alarm.</li> </ul>
	[7.7]	<b>CHECK</b> control rod settles into position 48 and ROD SETTLE light extinguishes.
Standa	rd:	
	If contr	rol rod is withdrawn to position 48, performs a coupling check.
SAT	_UNSA	TN/ACOMMENTS:
	-	

JPM a PAGE 14 OF 16

*****************	*********
Performance Step 16:	Critical X Not Critical
Operator Ranges IRMs as necessary; to maintain § 7.5/125 and less than the upscale reading of 104.6/125.	greater than the downscale reading of
Note: the High-High of 116.4/125 will produce a scram si	gnal.
Standard:	
Ranges IRMs to clear or prevent a Rod Block sign Note: A Full Scram signal from IRMs while withdraw	
SAT UNSAT N/ACOMMENTS:	
Driver: At direction of Evaluator, after or during withd CRD Pump.	raw of control rod 30-35, trip operating
CUE: If required have operator take the actions of	of 3-AOI-85-3 CRD System Failure.

JPM	a		
PAGE	15	OF	16

****************	**********			
Performance Step 17: Critical Not Critical X				
4.1 Immediate Actions				
[1] <b>IF</b> operating CRD PUMP has failed <b>AND</b> the <b>THEN PERFORM</b> the following at Panel 3-	• •			
[1.1] <b>PLACE</b> CRD SYSTEM FLOW CON minimum setting.	TTROL, 3-FIC-85-11, in MAN at			
Standard:				
Places CRD System Flow Control in Manual and at M	linimum setting.			
SAT UNSAT N/ACOMMENTS:				
**************	**********			
Performance Step 18:	Critical _ Not Critical X			
[1.2] START associated standby CRD Pun	np using one of the following:			
• CRD Pump 3B, using 3-HS-85-2A				
• CRD Pump 3A, using 3-HS-85-1A				
Standard:				
Attempts to start standby CRD Pump and may also att	empt to start tripped CRD Pump.			
SAT UNSAT N/ACOMMENTS:				

	********************
<u>Performance</u>	Step 19: Critical X Not Critical
[2]	<b>IF</b> Reactor Pressure is less than 900 PSIG and either of the following conditions exists:
	• In-service CRD Pump tripped and neither CRD Pump can be started, <b>OR</b>
	• Charging Water Pressure can <b>NOT</b> be restored and maintained above 940 PSIG, <b>THEN PERFORM</b> the following:
	[2.1] MANUALLY SCRAM Reactor, IMMEDIATELY PLACE the reactor mode switch in the SHUTDOWN position.
Standard:	
Insert	a Manual Scram and places Mode Switch in Shutdown.
SAT UNS	AT N/ACOMMENTS:
CUE:	After Scram report another operator will continue in 3-AOI-100-1.

END OF TASK

STOP TIME \_\_\_\_

OPERATOR:
RO SRO DATE:
JPM NUMBER: b
TASK NUMBER: U-003-AL-16
TASK TITLE: RFPT Trip recovery
K/A NUMBER: 259001 A2.01 K/A RATING: RO 3.7 SRO 3.7
TASK STANDARD: RFPT Recovered and restoring Reactor Level prior to an automatic Reactor Scram on Level.
LOCATION OF PERFORMANCE: Simulator
REFERENCES/PROCEDURES NEEDED: 2-AOI-3-1
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:

## **INITIAL CONDITIONS:**

You are a Reactor Operator. Plant startup is in progress. RFPT C has tripped and it is needed to maintain level.

## **INITIATING CUE:**

The Unit Supervisor directs you to restore RFPT C for level control in accordance with 2-AOI-3-1 Loss of Reactor Feedwater or Reactor Water Level High/Low starting at step 8.

\*

**IN-SIMULATOR:** I will explain the initial conditions and state the task to be performed. I will provide initiating cues and reports on other actions when directed by you. When you complete the task successfully, the objective for this job performance measure will be satisfied. When your task is given, you will repeat the task and I will acknowledge "That's Correct". (OR "That's Incorrect", if applicable). When you have completed your assigned task, you will say, "my task is complete" and I will acknowledge that your task is complete.

\*

### **INITIAL CONDITIONS:**

You are a Reactor Operator. Plant startup is in progress. RFPT C has tripped and it is needed to maintain level.

## **INITIATING CUE:**

The Unit Supervisor directs you to restore RFPT C for level control in accordance with 2-AOI-3-1 Loss of Reactor Feedwater or Reactor Water Level High/Low starting at step 8.

JPM b PAGE 4 OF 9

	RT TIME *********************************	*********
	mance Step 1:	*Critical X Not Critical
[8]	IF RFPT has tripped and needed to maintain lev	vel, THEN PERFORM the following:
	[8.1] <b>OBTAIN SRO</b> permission to restart RF	PT.
	*[8.2] <b>RESET</b> trip by using pushbutton.	
Standa	ard:	
	Resets trip by depressing reset pushbutton for RF	PT C
SAT_	UNSAT N/ACOMMENTS:	
		· ·
****	*************	**********
Perform	mance Step 2:	Critical X Not Critical
	[8.3] <b>DEPRESS</b> RFPT Speed Control Raise/I position.	Lower switch to MANUAL GOVERNOR
Standa	ard:	
~	Depresses RFPT C Speed Control Raise/Lower	switch to Manual Governor position.
SAT_	_ UNSAT N/ACOMMENTS:	

JPM b PAGE 5 OF 9

**********************	******
Performance Step 3:	Critical X Not Critical
[8.4] PLACE RFPT Start/Local enable switch to STAR	Γ.
Standard:	
Places RFPT C Start/Local enable switch to Start.	
SAT UNSAT N/ACOMMENTS:	
**************************************	**************************************
[8.5] <b>VERIFY</b> RFPT accelerates to approximately 600 r	pm.
Standard:	
Verifies RFPT C accelerates	
SATUNSAT N/ACOMMENTS:	

Performance S	Step 5:	Critical _ Not Critical <u>X</u>
[8.6]	For Fast R	ecovery of RFPT, PERFORM the following:
	[8.6.1]	<b>OBTAIN</b> SRO's permission to perform fast recovery of RFPT.
	[8.6.2]	<b>VERIFY</b> Reactor Water Level Control PDS in AUTO and <b>SELECT</b> Column 2.
	[8.6.3]	<b>VERIFY</b> Reactor Water Level Control PDS level setpoint set at desired level.
Standard:		
Verific	es Reactor W	Vater Level Control PDS in AUTO and set at desired level
SATUNSA	AT N/A _	COMMENTS:
CUE:		you have permission to perform fast recovery, occeed to step 8.7
******	******	*****************
Performance S	Step 6:	Critical $\underline{X}$ Not Critical
	[8.6.4]	<b>PULL</b> individual RFPT Speed Control Raise/Lower switch to FEEDWATER CONTROL position and <b>CHECK</b> amber light at switch is extinguished.
Standard:		
Pulls F	RFPT C Spee	ed Control Raise/Lower switch to Feedwater Control position
SATUNSA	AT N/A _	COMMENTS:

JPM	b		
PAGE	7	OF	9

**************	**********
Performance Step 7:	Critical $\underline{X}$ Not Critical
[8.6.5] PLACE individual RFPT Speed	d Control PDS in AUTO.
Standard:	
Places RFPT C Speed Control PDS in Auto an level maintained	d verifies speed increasing and Reactor
SAT UNSAT N/ACOMMENTS:	·
<u> </u>	
**************************************	**************************************
[8.7] For Slow Recovery of RFPT in MANU using RFPT Speed Control Raise/Lowe	
Standard:	
Raises speed of RFPT C using RFPT Speed Cor Reactor Level	ntrol switch and restores and maintains
SAT UNSAT N/ACOMMENTS:	

JPM	b		
PAGE	8	OF	9

*******	********	***********************
Performance	Step 9:	Critical _ Not Critical X
[8.8]		Lecovery of RFPT using individual RFPT Speed Control PDS, If the following:
	[8.8.1]	<b>VERIFY</b> Column 3 selected and MANUAL selected on individual RFPT speed Control PDS.
Standard:		
Verifi	es Column 3	selected and Manual selected on RFPT C speed Control PDS
SAT UNS	AT N/A _	COMMENTS:
	`	
Performance S		**************************************
	[8.8.2]	<b>PULL</b> individual RFPT Speed Control Raise/Lower switch to FEEDWATER CONTROL position.
Standard:		
Pulls :	RFPT C Spe	ed Control Raise/Lower switch to Feedwater Control position.
SAT UNS.	ATN/A_	COMMENTS:
******		

	JPM b PAGE 9 OF 9
*******	******************
Performance Step 11:	Critical X Not Critical
[8.8.3]	<b>RAISE</b> RFPT speed using Ramp Up/Ramp Down pushbuttons to obtain desired flow.
Standard:	
Raises speed of RI maintains Reactor Level	PT C using Ramp Up/Ramp Down pushbuttons and restores and
SAT UNSAT N/A	COMMENTS:
	END OF TASK

STOP TIME \_\_\_

OPERATO	R:		· · · · · · · · · · · · · · · · · · ·
RO	SRO_	DATE	: <u> </u>
JPM NUM	BER:	b	
TASK NUI	MBER:	U-003-AL-16	
TASK TITI	LE: RFPT	Trip recovery	
K/A NUMI	BER: 2590	001 A2.01	K/A RATING: RO 3.7 SRO 3.7
TASK STA	NDARD:	RFPT Recovered and Scram on Level.	restoring Reactor Level prior to an automatic Reactor
LOCATION	N OF PER	FORMANCE: Simula	ntor
REFEREN	CES/PRO	CEDURES NEEDED:	3-AOI-3-1
VALIDATI	ON TIME	: 15 minutes	
MAX. TIM	E ALLOW	VED: (Completed for T	ime Critical JPMs only)
PERFORM	ANCE TI	ME:	
COMMEN			·
Additional	comment s	sheets attached? YES_	NO
RESULTS:	SATIS	FACTORY	UNSATISFACTORY
SIGNATUF	RE:	EXAMINER	DATE:

# **INITIAL CONDITIONS:**

You are a Reactor Operator. Plant startup is in progress. RFPT C has tripped and it is needed to maintain level.

# **INITIATING CUE:**

The Unit Supervisor directs you to restore RFPT C for level control in accordance with 3-AOI-3-1 Loss of Reactor Feedwater or Reactor Water Level High/Low starting at step 11.

\*

**IN-SIMULATOR:** I will explain the initial conditions and state the task to be performed. I will provide initiating cues and reports on other actions when directed by you. When you complete the task successfully, the objective for this job performance measure will be satisfied. When your task is given, you will repeat the task and I will acknowledge "That's Correct". (OR "That's Incorrect", if applicable). When you have completed your assigned task, you will say, "my task is complete" and I will acknowledge that your task is complete.

\*

### **INITIAL CONDITIONS:**

You are a Reactor Operator. Plant startup is in progress. RFPT C has tripped and it is needed to maintain level.

# **INITIATING CUE:**

The Unit Supervisor directs you to restore RFPT C for level control in accordance with 3-AOI-3-1 Loss of Reactor Feedwater or Reactor Water Level High/Low starting at step 11.

	TTIME_ **************	***********
<u>Perfor</u>	mance Step 1:	* Critical $\underline{X}$ Not Critical
[11]	<b>IF</b> RFPT has tripped and it is needed to maintai following:	n level, THEN PERFORM the
	[11.1] <b>OBTAIN</b> Unit Supervisor permission to	restart RFPT.
	*[11.2] <b>RESET</b> trip by using pushbutton.	
Standa	a <u>rd:</u>	
	Resets trip by depressing reset pushbutton for RF	PTC
SAT_	_UNSATN/ACOMMENTS:	
****	**************	*********
Perfor	mance Step 2:	Critical X Not Critical
	[11.3] <b>DEPRESS</b> RFPT Speed Control Raise/I position.	Lower switch to MANUAL GOVERNOR
Standa	ard:	
	Depresses RFPT C Speed Control Raise/Lower	switch to Manual Governor position.
SAT_	_UNSATN/ACOMMENTS:	

JPM b PAGE 5 OF 9

****************	*******
Performance Step 3:	Critical X Not Critical
[11.4] PLACE RFPT Start/Local enable switch to STAR	Γ.
Standard:	
Places RFPT C Start/Local enable switch to Start.	
SAT UNSAT N/ACOMMENTS:	
The second secon	
*****************	*********
Performance Step 4:	Critical $\_$ Not Critical $\underline{X}$
[11.5] <b>VERIFY</b> RFPT accelerates to approximately 600 r	pm.
Standard:	
Verifies RFPT C accelerates	
SAT UNSAT N/ACOMMENTS:	
·	

JPM b PAGE 6 OF 9

Performance Step 5:	Critical Not Critical X
[11.6] <b>IF</b> Fast l	Recovery of RFPT is desired, THEN PERFORM the following:
[11.6.1]	<b>OBTAIN</b> Unit Supervisor's permission to perform fast recovery of RFPT.
[11.6.2]	<b>VERIFY</b> Reactor Water Level Control PDS in AUTO and <b>SELECT</b> Column 2.
[11.6.3]	<b>VERIFY</b> Reactor Water Level Control PDS level setpoint set at desired level.
Standard:	
Verifies Reactor	Water Level Control PDS in AUTO and set at desired level
SATUNSATN/	
SATUNSAT N/.	
SATUNSAT N/A  CUE: IF aske Operator may	ACOMMENTS:  d you have permission to perform fast recovery,
SATUNSAT N/A  CUE: IF aske Operator may	d you have permission to perform fast recovery, proceed to step 11.7
SATUNSAT N/.  CUE: IF aske Operator may  ***********************************	ACOMMENTS:
CUE: IF aske Operator may  ***********  Performance Step 6:	d you have permission to perform fast recovery, proceed to step 11.7  *********************  Critical X Not Critical  PULL individual RFPT Speed Control Raise/Lower switch to FEEDWATER CONTROL position AND VERIFY amber light at
CUE: IF aske Operator may  **********  Performance Step 6:  [11.6.4]  Standard:	d you have permission to perform fast recovery, proceed to step 11.7  *********************  Critical X Not Critical  PULL individual RFPT Speed Control Raise/Lower switch to FEEDWATER CONTROL position AND VERIFY amber light at
CUE: IF aske Operator may  **********  Performance Step 6:  [11.6.4]  Standard:  Pulls RFPT C Specific Contents of the content	d you have permission to perform fast recovery, proceed to step 11.7  **********************************

JPM b PAGE 7 OF 9

*****	*******	********	**************
Performance	Step 7:		Critical X Not Critical
	[11.6.5]	PLACE individ	ual RFPT Speed Control PDS in AUTO.
Standard:	,		
Places level maintain		eed Control PDS in	Auto and verifies speed increasing and Reactor
SAT UNS	AT N/A	_COMMENTS:	
*****	*****	******	**************
Performance :	Step 8:		Critical X Not Critical
[11.7]		T speed using RFF	MANUAL GOVERNOR is desired, <b>THEN</b> PT Speed Control Raise/Lower switch until desired
Standard:			
Raises Reactor Level	s speed of RFF	PT C using RFPT Sp	peed Control switch and restores and maintains
SAT UNS.	AT N/A _	_COMMENTS:	
	1 Mark Tool bear No.		

JPM	b		
PAGE	8	OF	9

				JPM b PAGE 8 OF 9
	********	*******	*******	******
	Performance Step 9:	:	Critic	cal _ Not Critical X
	[11.8] IF Slow Re THEN PER	covery of RFPT using <b>RFORM</b> the following	ndividual RFPT Speed	Control PDS is desired,
	[11.8.1]	VERIFY Column 3 RFPT speed Control		L selected on individual
	Standard:			
	Verifies Column 3 s	selected and Manual se	lected on RFPT C spee	d Control PDS.
	SAT UNSAT N/A _	COMMENTS:		
	******	*******	******	******
	Performance Step 10:		Critic	cal X Not Critical
	[11.8.2]	PULL individual R FEEDWATER CO	FPT Speed Control Ra	ise/Lower switch to
	Standard:			
. *	Pulls RFPT C Spee	d Control Raise/Lower	switch to Feedwater C	ontrol position.
	SATUNSATN/A_	COMMENTS:		

	JPM b PAGE 9 OF 9	
*******	********************	
Performance Step 11:	Critical X Not Critical	
[11.8.3]	<b>RAISE</b> RFPT speed using Ramp Up/Ramp Down pushbuttons to obtain desired flow.	
Standard:		
Raises speed of RFPT C using Ramp Up/Ramp Down pushbuttons and restores and maintains Reactor Level		
SAT UNSAT N/A _	_COMMENTS:	

END OF TASK

STOP TIME \_\_\_\_

OPERATOR:	
RO SRO _	DATE:
JPM NUMBER:	c
TASK NUMBER:	U-000-EM-50
TASK TITLE:	2-EOI APPENDIX-11D Alternate RPV Pressure control Systems-Main Steamline Drains and/or Turbine and RFPT Drains
K/A NUMBER:	239001 A1.08 K/A RATING: RO 3.8 SRO 3.8
TASK STANDARD:	Establish alternate pressure control with Main Steamline drains, Turbine and RFPT drains
LOCATION OF PER	FORMANCE: Simulator
REFERENCES/PROC	CEDURES NEEDED: 2-EOI APPENDIX-11D
VALIDATION TIME	: 10 minutes
MAX. TIME ALLOW	/ED: (Completed for Time Critical JPMs only)
PERFORMANCE TI	ME:
COMMENTS:	
Additional comment s	heets attached? YES NO
RESULTS: SATIS	FACTORY UNSATISFACTORY
SIGNATURE:	DATE:

# **INITIAL CONDITIONS:**

You are a Unit 2 Operator. Unit 2 reactor has scrammed. Emergency depressurization is not required but alternate means of pressure control is required. Turbine Bypass valves are NOT available. EOI-1 has been followed to RC/P-11. Another Operator is assigned Reactor Level Control.

# **INITIATING CUE:**

The Unit Supervisor directs you to establish alternate pressure control as directed by 2-EOI Appendix 11D Alternate RPV Pressure control Systems-Main Steamline Drains and/or Turbine and RFPT Drains and maintain Reactor Pressure 600 to 1000 psig.

\*

**IN-SIMULATOR**: I will explain the initial conditions and state the task to be performed. I will provide initiating cues and reports on other actions when directed by you. When you complete the task successfully, the objective for this job performance measure will be satisfied. When your task is given, you will repeat the task and I will acknowledge "That's Correct". (OR "That's Incorrect, if applicable). When you have completed your assigned task, you will say "my task is complete" and I will acknowledge that your task is complete.

\*

#### **INITIAL CONDITIONS:**

You are a Unit 2 Operator. Unit 2 reactor has scrammed. Emergency depressurization is not required but alternate means of pressure control is required. Turbine Bypass valves are NOT available. EOI-1 has been followed to RC/P-11. Another Operator is assigned Reactor Level Control.

#### **INITIATING CUE:**

The Unit Supervisor directs you to establish alternate pressure control as directed by 2-EOI Appendix 11D Alternate RPV Pressure control Systems-Main Steamline Drains and/or Turbine and RFPT Drains and maintain Reactor Pressure 600 to 1000 psig.

START TIME	
*******************	******
Performance Step 1:	Critical _ Not Critical X
1. IF <u>BOTH</u> of the following exist:	
• Emergency RPV Depressurization is a AND	required,
<ul> <li>Group 1 Isolation Signal exists,</li> </ul>	
THEN EXIT this procedure and ENTER EOI Appearance	ndix 11H.
Standard:	
Given in initial conditions, does not exit procedure	
SAT UNSAT N/ACOMMENTS:	
*******************	*******
Performance Step 2:	Critical _ Not Critical X
2. <b>VERIFY</b> hotwell pressure below -7 in. Hg.	
Standard:	
Verifies hotwell pressure less than -7 in. Hg.	
SAT UNSAT N/ACOMMENTS:	

JPM	C		
PAGE	5	OF	7

Dorformana	Ston 2.	******************	C '' 137
Performance S	Siep 3.	Critical _ Not	Critical X
3.	CONTROL RPV pr	ressure with Main Steam line drains as follows:	
	a. <b>VERIFY</b> PO	CIS reset.	
Standard:			
Verifie	es PCIS Reset		
SAT UNSA	ATN/ACOMI	MENTS:	
*****	******	*************	:*****
Performance S	Step 4:	Critical X Not	Critical
<u>Performance S</u>	*	Critical $\underline{X}$ Not bllowing valves (Panel 9-3):	Critical
<u>Performance S</u>	b. <b>OPEN</b> the fo		
Performance S	b. <b>OPEN</b> the for 2-FCV-1-55, 2-FCV-1-56,	ollowing valves (Panel 9-3):	LV I VLV
	b. <b>OPEN</b> the for 2-FCV-1-55, 2-FCV-1-56,	ollowing valves (Panel 9-3): MN STM LINE DRAIN INBD ISOLATION V MN STM LINE DRAIN OUTBD ISOLATION	LV I VLV
Performance S  Standard:  Opens	<ul> <li>b. OPEN the fo</li> <li>2-FCV-1-55,</li> <li>2-FCV-1-56,</li> <li>2-FCV-1-58,</li> </ul>	ollowing valves (Panel 9-3): MN STM LINE DRAIN INBD ISOLATION V MN STM LINE DRAIN OUTBD ISOLATION	LV I VLV

()

JPM	С		
PAGE	6	OF	7

*******	********************
Performance	Step 5: Critical X Not Critical
. 4.	<b>THROTTLE</b> 2-FCV-1-59, DOWNSTREAM MSL DRAIN TO CONDENSER, as necessary to control cooldown rate.
Standard:	
Throt	tles 2-FCV-1-59 open and control cooldown rate
SATUNS	ATN/ACOMMENTS:
CUE:	If necessary when 2-FCV-1-59 is full open, Direct Operator that "Additional RPV Pressure Control is necessary"
******	*******************
Performance S	Step 6: Critical X Not Critical
5.	IF At least one main steam line is open <u>AND</u> <u>EITHER</u> of the following exist:
	Turbine bypass valves are <u>NOT</u> available, <b>OR</b>
	Additional RPV pressure control is necessary,
	THEN <b>CONTROL</b> RPV pressure with Main Turbine and RFPT drains as follows:
	a. <b>OPEN</b> the following Main Turbine Drain valves (Panel 9-7):
	<ul> <li>2-FCV-6-100, STOP VALVE 1 BEFORE SEAT DR VLV</li> <li>2-FCV-6-101, STOP VALVE 2 BEFORE SEAT DR VLV</li> <li>2-FCV-6-102, STOP VALVE 3 BEFORE SEAT DR VLV</li> <li>2-FCV-6-103, STOP VALVE 4 BEFORE SEAT DR VLV</li> </ul>
Standard:	
Opens	2-FCV-6-100, 2-FCV-6-101, 2-FCV-6-102, and 2-FCV-6-103
SATUNS.	ATN/ACOMMENTS:

********	***************
Performance Step 7:	Critical X Not Critical
b. <b>OPEN</b> th	he following RFPT drain valves (Panel 9-6):
• 2-FC	CV-6-122, RFPT 2A HP STOP VLV ABOVE SEAT DR
• 2-FC	CV-6-127, RFPT 2B HP STOP VLV ABOVE SEAT DR
• 2-FC	V-6-132, RFPT 2C HP STOP VLV ABOVE SEAT DR
Standard:	
Opens 2-FCV-6-122, 2-	FCV-6-127, and 2-FCV-6-132
SAT UNSAT N/AC	OMMENTS:
	END OF TASK

STOP TIME\_\_\_\_

OPERATOR:	
ROSRO_	DATE:
JPM NUMBER:	c
TASK NUMBER:	U-000-EM-50
TASK TITLE:	2-EOI APPENDIX-11D Alternate RPV Pressure control Systems-Main Steamline Drains and/or Turbine and RFPT Drains
K/A NUMBER:	239001 A1.08 K/A RATING: RO 3.8 SRO 3.8
TASK STANDARD:	Establish alternate pressure control with Main Steamline drains, Turbine and RFPT drains
LOCATION OF PER	FORMANCE: Simulator
REFERENCES/PROC	CEDURES NEEDED: 2-EOI APPENDIX-11D
VALIDATION TIME	: 10 minutes
MAX, TIME ALLOW	/ED: (Completed for Time Critical JPMs only)
PERFORMANCE TI	ME:
Additional comment s	heets attached? YES NO
RESULTS: SATIS	FACTORY UNSATISFACTORY
SIGNATURE:	DATE:

# **INITIAL CONDITIONS:**

You are a Unit 3 Operator. Unit 3 reactor has scrammed. Emergency depressurization is not required but alternate means of pressure control is required. Turbine Bypass valves are NOT available. EOI-1 has been followed to RC/P-11. Another Operator is assigned Reactor Level Control.

# **INITIATING CUE:**

The Unit Supervisor directs you to establish alternate pressure control as directed by 3-EOI Appendix-11D Alternate RPV Pressure Control Systems Main Steam Line Drains and/or Turbine and RFPT Drains and maintain Reactor Pressure 600 to 1000 psig.

\*

**IN-SIMULATOR**: I will explain the initial conditions and state the task to be performed. I will provide initiating cues and reports on other actions when directed by you. When you complete the task successfully, the objective for this job performance measure will be satisfied. When your task is given, you will repeat the task and I will acknowledge "That's Correct". (OR "That's Incorrect, if applicable). When you have completed your assigned task, you will say "my task is complete" and I will acknowledge that your task is complete.

\*

#### **INITIAL CONDITIONS:**

You are a Unit 3 Operator. Unit 3 reactor has scrammed. Emergency depressurization is not required but alternate means of pressure control is required. Turbine Bypass valves are NOT available. EOI-1 has been followed to RC/P-11. Another Operator is assigned Reactor Level Control.

#### **INITIATING CUE:**

The Unit Supervisor directs you to establish alternate pressure control as directed by 3-EOI Appendix-11D Alternate RPV Pressure Control Systems Main Steam Line Drains and/or Turbine and RFPT Drains and maintain Reactor Pressure 600 to 1000 psig.

START TIME
**********************
Performance Step 1: Critical _ Not Critical X
1. IF <u>BOTH</u> of the following exist:
• Emergency RPV Depressurization is required,  AND
• Group 1 Isolation Signal exists,
THEN <b>EXIT</b> this procedure and <b>ENTER</b> EOI Appendix 11H.
Standard:
Given in initial conditions, does not exit procedure
SATUNSAT N/ACOMMENTS:
**********************
Performance Step 2: Critical _ Not Critical X
2. <b>VERIFY</b> hotwell pressure below -7 in. Hg.
Standard:
Verifies hotwell pressure less than -7 in. Hg.
SATUNSAT N/ACOMMENTS:

JPM	C		
PAGE	5	OF	7

Critical $\_$ Not Critical $\underline{X}$ drains as follows:
lrains as follows:
**************************************
D ISOLATION VLV TBD ISOLATION VLV O CONDENSER

JPM	C		
PAGE	6	OF	7

<u>Performance Step 5:</u>	Critical <u>X</u> Not Critical
4. <b>THROTTLE 3-</b> FCV-1-59, DOWNSTREAM MS as necessary to control cooldown rate.	L DRAIN TO CONDENSER,
Standard:	
Throttles 3-FCV-1-59 open and control cooldown rate	
SAT UNSAT N/ACOMMENTS:	W
CUE: If necessary when 3-FCV-1-59 is full open, Direct RPV Pressure Control is necessary"	Operator that "Additional
******************	
Performance Step 6:	Critical X Not Critical
5. IF At least one main steam line is open <u>AND</u> <u>EITHER</u> of the following exist:	
Turbine bypass valves are <u>NOT</u> available, <b>OR</b>	
Additional RPV pressure control is necessary	ary,
THEN CONTROL RPV pressure with Main Turbi	ne and RFPT drains as follows:
a. <b>OPEN</b> the following Main Turbine Drain va	alves (Panel 3-9-7):
<ul> <li>3-FCV-6-100, STOP VALVE 1 BEF</li> <li>3-FCV-6-101, STOP VALVE 2 BEF</li> <li>3-FCV-6-102, STOP VALVE 3 BEF</li> <li>3-FCV-6-103, STOP VALVE 4 BEF</li> </ul>	FORE SEAT DR VLV FORE SEAT DR VLV
Standard:	
Opens 3-FCV-6-100, 3-FCV-6-101, 3-FCV-6-102, and 3-FC	CV-6-103
SATUNSAT N/ACOMMENTS:	

JPM	С		
PAGE	7	OF	7

**************************	***

Performance Step 7:

Critical X Not Critical

- b. **OPEN** the following RFPT drain valves (Panel 3-9-6):
  - 3-FCV-6-122, RFPT 3A HP STOP VLV ABOVE SEAT DR
  - 3-FCV-6-127, RFPT 3B HP STOP VLV ABOVE SEAT DR
  - 3-FCV-6-132, RFPT 3C HP STOP VLV ABOVE SEAT DR

# Standard:

Opens 3-FCV-6-122, 3-FCV-6-127, and 3-FCV-6-132

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

**END OF TASK** 

STOP TIME\_\_\_\_

OPERATOR:						
RO	SRO_	<del></del>	DATE	:		
JPM NUMBE	ER:	d				
TASK NUME	BER:	U-000-EM-50	i			
TASK TITLE	<b>:</b> :	EOI APPEND following a Gr		- Restore Reactor and Resolation	fuel Zone Ventila	ition Fans
K/A NUMBE	R: 2950	32 EA1 .03		K/A RATING: RO 3.7	SRO 3.7	
TASK STAN	DARD:	Restore Reactor following a Gr		Refuel Zone Ventilation F	ans	
PERFORMA	NCE LO	OCATION:	Simu	ılator		
REFERENCE	ES/PRO	CEDURES NE	EDED:	3-EOI Appendix-8F		
VALIDATIO	N TIME	E: 10 minutes				
MAX. TIME	ALLOV	VED:				
PERFORMAN	VCE TIN	ME:				
COMMENTS	•					
Additional cor	nment s	heets attached?	YES_	NO		
RESULTS:	SATIS	FACTORY		UNSATISFACTORY	· •	
SIGNATURE	•	EXAMINER		DATE:		

# **INITIAL CONDITIONS:**

You are an Operator. Unit 3 reactor has scrammed and a Group 6 isolation has occurred from RPV low level. EOI-1 has been entered and followed to RC/P-8. The US wants the reactor and refueling zone ventilation systems restored. No other Group 6 isolation signals exist. Appendix 8E, Bypassing Group 6 RPV Low Level and High Drywell Pressure Isolation Interlocks, has been completed.

#### **INITIATING CUE:**

The Unit Supervisor directs you to restore reactor and refuel zone ventilation as directed by 3-EOI Appendix-8F. SGTS is required for Operation and fast speed operation is desired for Reactor and Refuel Zone Ventilation.

\*

**IN-SIMULATOR:** I will explain the initial conditions and state the task to be performed. I will provide initiating cues and reports on other actions when directed by you. When you complete the task successfully, the objective for this job performance measure will be satisfied. When your task is given, you will repeat the task and I will acknowledge "That's Correct". (OR "That's Incorrect", if applicable). When you have completed your assigned task, you will say, "my task is complete" and I will acknowledge that your task is complete.

\*

### **INITIAL CONDITIONS:**

You are an Operator. Unit 3 reactor has scrammed and a Group 6 isolation has occurred from RPV low level. EOI-1 has been entered and followed to RC/P-8. The US wants the reactor and refueling zone ventilation systems restored. No other Group 6 isolation signals exist. Appendix 8E, Bypassing Group 6 RPV Low Level and High Drywell Pressure Isolation Interlocks, has been completed.

### **INITIATING CUE:**

The Unit Supervisor directs you to restore reactor and refuel zone ventilation as directed by 3-EOI Appendix-8F. SGTS is required for Operation and fast speed operation is desired for Reactor and Refuel Zone Ventilation.

JPM d PAGE 4 of 9

START TIME	***********
Performance Step 1:	Critical X Not Critical
1. <b>VERIFY</b> PCIS Reset.	
Standard:	
Resets PCIS	
SAT UNSAT N/ACOMMENTS:	
	•
**************	
Performance Step 2:	Critical X Not Critical
2. <b>PLACE</b> Refuel Zone Ventilation in service as follows:	lows (Panel 3-9-25):
a. <b>VERIFY 3-</b> HS-64-3A, REFUEL ZONE F is in OFF.	ANS AND DAMPERS, control switch
Standard:	
Places 3-HS-64-3A in the Off position.	
SAT UNSAT N/ACOMMENTS:	
·	
*************	***********
Performance Step 3:	Critical X Not Critical
b. <b>PLACE</b> 3-HS-64-3A, REFUEL ZONE FA to SLOW A (SLOW B).	ANS AND DAMPERS, control switch
Standard:	
Places 3-HS-64-3A to SLOW A or SLOW B positi	tion.
SATUNSAT N/ACOMMENTS:	

******************	*******	******
Performance Step 4:	Critical_	Not Critical X
c. <b>CHECK</b> two SPLY/EXH A(B) green lights abov ZONE FANS AND DAMPERS, control switch ex A(B) red lights illuminate.		
Standard:		
Verifies proper combination of lights On and Off above 3	8-HS-64-3A	
SATUNSAT N/ACOMMENTS:	1000	
****************	******	*******
Performance Step 5:	Critical _	Not Critical X
d. <b>VERIFY OPEN</b> the following dampers:		
<ul> <li>3-FCO-64-5, REFUEL ZONE SPLY OUT</li> <li>3-FCO-64-6, REFUEL ZONE SPLY INB</li> <li>3-FCO-64-9, REFUEL ZONE EXH OUT</li> <li>3-FCO-64-10, REFUEL ZONE EXH INB</li> </ul>	D ISOL DM BD ISOL D	IPR MPR
Standard:		
Verifies Red position indicating lamps On for dampers liste	ed above	
SAT UNSAT N/ACOMMENTS:		
		,

****	*****************	********
Performance Step 6:		Critical X Not Critical
3.	PLACE Reactor Zone Ventilation in service as follows (Pa	nel 3-9-25):
	a. <b>VERIFY</b> 3-HS-64-11A, REACTOR ZONE FANS control switch is in OFF.	AND DAMPERS,
Standa	<u>ard:</u>	
	Places 3-HS-64-11A in the Off position.	
SAT_	_UNSAT N/ACOMMENTS:	
	**********************	
Perform	mance Step 7:	Critical X Not Critical
	b. <b>PLACE</b> 3-HS-64-11A, REACTOR ZONE FANS A control switch in SLOW A (SLOW B).	AND DAMPERS,
Standa	ard:	
Places 3-HS-64-11A to SLOW A or SLOW B position.		
SAT_	_UNSATN/ACOMMENTS:	

			*****************	
Performance Step 8:			Critical Not Critical X	
c.	ZON		een lights above 3-HS-64-11A, REACTOR ontrol switch extinguish and two SPLY/EXH	
Standard:	• •			
. V	erifies pro	per combination of lights On a	and Off above 3-HS-64-3A.	
SAT U	UNSAT	N/ACOMMENTS:		
*****	******	**********	************	
<u>Performa</u>	nce Step 9:		Critical _ Not Critical X	
d.	. VER	RIFY OPEN the following dat	npers:	
	•	3-FCO-64-14, REACTOR	ZONE SPLY OUTBD ISOL DMPR ZONE SPLY INBD ISOL DMPR ZONE EXH INBD ISOL DMPR	
•	•		ZONE EXH OUTBD ISOL DMPR	
Standard:	<u>:</u>			
V	erifies Red	l position indicating lamps On f	for dampers listed above	
SAT U	JNSAT	N/ACOMMENTS:		
	<del></del>			

JPM d PAGE 8 of 9

*****************************		
Performance Step 10:		Critical _ Not Critical X
4. IF SGTS is NOT required for operation, THEN <b>SECURE</b> SGTS as follows:		SGTS as follows:
Standard:		
Given in Initial conditi	ons that SGTS is required.	
SATUNSATN/AC	OMMENTS:	
		·
********	**********	********
Performance Step 11: Critical _ Not Critical X		Critical _ Not Critical X
IF Reactor Zone Fan fast speed is desired following 5 minutes of slow speed operation, THEN <b>PLACE</b> 3-HS-64-11A, REACTOR ZONE FANS AND DAMPERS, control switch in FAST A (FAST B).		
Standard:		
Places 3-HS-64-11A in fans were started in slow	either FAST A or FAST B position v	in accordance with which set of
SAT UNSAT N/ACOMMENTS:		
• .		
CUE: Five Minutes has elapsed		

JPM d PAGE 9 of 9

Performance Step 12:	Critical _ Not Critical X
6. IF Refuel Zone Fan fast speed is desired following 5 m THEN <b>PLACE</b> 3-HS-64-3A, REFUEL ZONE FANS in FAST A (FAST B).	
Standard:	
Places 3-HS-64-3A in either FAST A or FAST B posit of fans were started in slow.	tion in accordance with which set
SATUNSAT N/ACOMMENTS:	
CUE: Five Minutes has elapsed	
END OF TASK	
STOP TIME:	

OPERATOR:		<u> </u>	
RO SRO		DATE:	
JPM NUMBER:	d		
TASK NUMBER:	U-000-EM-50	)	
TASK TITLE:		DIX-8F – Restore Reactor and Recoup 6 Isolation	efuel Zone Ventilation Fans
K/A NUMBER: 295	032 EA1 .03	K/A RATING: RO 3.7	SRO 3.7
TASK STANDARD		or and Refuel Zone Ventilation l	Fans
PERFORMANCE L	OCATION:	Simulator	
REFERENCES/PRO	OCEDURES NE	EDED: 2-EOI Appendix-8F	
VALIDATION TIM	E: 10 minutes		
MAX. TIME ALLO	WED:		
PERFORMANCE TI	ME:		
COMMENTS:			
Additional comment	sheets attached?	YES NO	
RESULTS: SATIS	SFACTORY	UNSATISFACTORY _	
SIGNATURE:	FYAMINIFP	DATE:	

You are an Operator. Unit 2 reactor has scrammed and a Group 6 isolation has occurred from RPV low level. EOI-1 has been entered and followed to RC/P-8. The US wants the reactor and refueling zone ventilation systems restored. No other Group 6 isolation signals exist. Appendix 8E, Bypassing Group 6 RPV Low Level and High Drywell Pressure Isolation Interlocks, has been completed.

### **INITIATING CUE:**

The Unit Supervisor directs you to restore reactor and refuel zone ventilation as directed by 2-EOI Appendix-8F. SGTS is required for Operation and fast speed operation is desired for Reactor and Refuel Zone Ventilation.

\*

**IN-SIMULATOR:** I will explain the initial conditions and state the task to be performed. I will provide initiating cues and reports on other actions when directed by you. When you complete the task successfully, the objective for this job performance measure will be satisfied. When your task is given, you will repeat the task and I will acknowledge "That's Correct". (OR "That's Incorrect", if applicable). When you have completed your assigned task, you will say, "my task is complete" and I will acknowledge that your task is complete.

\*

### **INITIAL CONDITIONS:**

You are an Operator. Unit 2 reactor has scrammed and a Group 6 isolation has occurred from RPV low level. EOI-1 has been entered and followed to RC/P-8. The US wants the reactor and refueling zone ventilation systems restored. No other Group 6 isolation signals exist. Appendix 8E, Bypassing Group 6 RPV Low Level and High Drywell Pressure Isolation Interlocks, has been completed.

### **INITIATING CUE:**

The Unit Supervisor directs you to restore reactor and refuel zone ventilation as directed by 2-EOI Appendix-8F. SGTS is required for Operation and fast speed operation is desired for Reactor and Refuel Zone Ventilation.

	ART TIME* *******************************	*****
Perfo	<u>formance Step 1:</u> Critical <u>X</u>	Not Critical
1.	VERIFY PCIS Reset.	
Stand	ndard:	
	Resets PCIS	
SAT_	T UNSAT N/ACOMMENTS:	
****	************************	******
Perfor		Not Critical
2.	PLACE Refuel Zone Ventilation in service as follows (Panel 2-9-25):	
	a. <b>VERIFY</b> 2-HS-64-3A, REFUEL ZONE FANS AND DAMPE is in OFF.	RS, control switch
Standa	ndard:	
	Places 2-HS-64-3A in the Off position.	
SAT_	T UNSAT N/ACOMMENTS:	
	************************	
Pertor	$\frac{\text{formance Step 3:}}{\text{Critical }\underline{X}}$	Not Critical
	b. <b>PLACE</b> 2-HS-64-3A, REFUEL ZONE FANS AND DAMPER to SLOW A (SLOW B).	S, control switch
Standa	ndard:	
	Places 2-HS-64-3A to SLOW A or SLOW B position.	
SAT_	Γ UNSAT N/ACOMMENTS:	

JPM d PAGE 5 of 9

****************	**********	
Performance Step 4:	Critical _ Not Critical X	
c. <b>CHECK</b> two SPLY/EXH A(B) green light ZONE FANS AND DAMPERS, control sw A(B) red lights illuminate.	ts above 2-HS-64-3A, REFUEL witch extinguish and two SPLY/EXH	
Standard:		
Verifies proper combination of lights On and Off a	above 2-HS-64-3A.	
SAT UNSAT N/ACOMMENTS:		
*************	**********	
Performance Step 5:	Critical $\_$ Not Critical $\underline{X}$	
d. <b>VERIFY OPEN</b> the following dampers:		
<ul> <li>2-FCO-64-5, REFUEL ZONE SPL</li> <li>2-FCO-64-6, REFUEL ZONE SPL</li> <li>2-FCO-64-9, REFUEL ZONE EXH</li> <li>2-FCO-64-10, REFUEL ZONE EXH</li> </ul>	Y INBD ISOL DMPR I OUTBD ISOL DMPR	
Standard:		
Verifies Red position indicating lamps On for damp	ers listed above	
SAT UNSAT N/ACOMMENTS:	No. 2.	

****	***************	*********
Performance Step 6:		Critical $\underline{X}$ Not Critical
3.	PLACE Reactor Zone Ventilation in service as follo	ows (Panel 2-9-25):
	a. <b>VERIFY</b> 2-HS-64-11A, REACTOR ZONE control switch is in OFF.	FANS AND DAMPERS,
Stand	lard:	
	Places 2-HS-64-11A in the Off position.	
SAT_	UNSAT N/ACOMMENTS:	
****	****************	**********
	rmance Step 7:	Critical X Not Critical
	b. <b>PLACE</b> 2-HS-64-11A, REACTOR ZONE F control switch in SLOW A (SLOW B).	ANS AND DAMPERS,
Stand	ard:	·
	Places 2-HS-64-11A to SLOW A or SLOW B positi	on.
SAT_	UNSAT N/ACOMMENTS:	

*************************************	***********	
Performance Step 8:	Critical _ Not Critical X	
c. <b>CHECK</b> two SPLY/EXH A(B) green lights ZONE FANS AND DAMPERS, control sw. A(B) red lights illuminate.	above 2-HS-64-11A, REACTOR itch extinguish and two SPLY/EXH	
Standard:		
Verifies proper combination of lights On and Off ab	pove 2-HS-64-3A.	
SAT UNSAT N/ACOMMENTS:		
**************************************	**************************************	
<ul> <li>2-FCO-64-13, REACTOR ZONE SE</li> <li>2-FCO-64-14, REACTOR ZONE SE</li> <li>2-FCO-64-42, REACTOR ZONE EX</li> <li>2-FCO-64-43, REACTOR ZONE EX</li> </ul>	PLY INBD ISOL DMPR XH INBD ISOL DMPR	
Standard:		
Verifies Red position indicating lamps On for dampe	rs listed above	
SATUNSAT N/ACOMMENTS:		

**************************		
Performance Step 10: Critical		Critical Not Critical X
4.	4. IF SGTS is NOT required for operation, THEN <b>SECURE</b> SGTS as follows:	
Standa	ard:	
	Given in Initial conditions that SGTS is required.	
SAT_	_UNSAT N/ACOMMENTS:	
·		·
	********************	********
Performance Step 11: Critical Not Critical X		Critical _ Not Critical X
5.	IF Reactor Zone Fan fast speed is desired following 5 minutes of slow speed operation, THEN <b>PLACE</b> 2-HS-64-11A, REACTOR ZONE FANS AND DAMPERS, control switch in FAST A (FAST B).	
Standa	ard:	
	Places 2-HS-64-11A in either FAST A or FAST B position in fans were started in slow	accordance with which set of
SAT_	_ UNSAT N/ACOMMENTS:	
CUE	E: Five Minutes has elapsed	

Performance Step 12:	Critical _ Not Critical X
6. IF Refuel Zone Fan fast speed is desired following 5 min THEN <b>PLACE</b> 2-HS-64-3A, REFUEL ZONE FANS AN in FAST A (FAST B).	
Standard:	
Places 2-HS-64-3A in either FAST A or FAST B position of fans were started in slow.	n in accordance with which set
SAT UNSAT N/ACOMMENTS:	
CUE: Five Minutes has elapsed	
END OF TASK	•
STOP TIME:	

OPERATOR:	· .
RO SRO _	DATE:
JPM NUMBER:	e
TASK NUMBER:	U-000-SS-25
TASK TITLE:	Energize 4 KV SD BDs A, C, and D from Unit 3 DGs
K/A NUMBER: 264	000 A4.04 K/A RATING: RO 3.7 SRO 3.7
TASK STANDARD:	4 KV SD BDs A and C energized from Unit 3 DGs during a Unit 1 and 2 Diesel Generator Building Fire. DG D Emergency Shutdown due to Low Lube Oil Pressure
LOCATION OF PER	FORMANCE: Simulator
REFERENCES/PRO	CEDURES NEEDED: 0-SSI-20
VALIDATION TIME	: 15 minutes
MAX. TIME ALLOW	VED: 20 minutes
PERFORMANCE TI	ME:
COMMENTS:	
Additional comment s	sheets attached? YES NO
RESULTS: SATIS	FACTORY UNSATISFACTORY
SIGNATURE:	DATE:

You are an Operator on Unit 3, the plant is operating in 0-SSI-20 Unit 1 and 2 Diesel Generator Building fire. All three units have been scrammed. An Assistant Unit Operator has been dispatched to the DGs.

# **INITIATING CUE:**

The Unit Supervisor directs you to complete attachment 6, Unit 3 Panel 9-23 Actions of 0-SSI-20.

**Time Critical** 

\*

**IN-SIMULATOR:** I will explain the initial conditions and state the task to be performed. I will provide initiating cues and reports on other actions when directed by you. When you complete the task successfully, the objective for this job performance measure will be satisfied. When your task is given, you will repeat the task and I will acknowledge "That's Correct". (OR "That's Incorrect", if applicable). When you have completed your assigned task, you will say, "my task is complete" and I will acknowledge that your task is complete.

\*

# **INITIAL CONDITIONS:**

You are an Operator on Unit 3, the plant is operating in 0-SSI-20 Unit 1 and 2 Diesel Generator Building fire. All three units have been scrammed. An Assistant Unit Operator has been dispatched to the DGs.

#### **INITIATING CUE:**

The Unit Supervisor directs you to complete attachment 6, Unit 3 Panel 9-23 Actions of 0-SSI-20.

**Time Critical** 

STAF	RT TIME	
****	*******************************	***
<u>Perfor</u>	mance Step 1: Critical X Not Critical	
	NERGIZING 4KV SHUTDOWN BOARDS A, C, AND D FROM UNIT 3 DIESEL ERATORS 3A, 3C, AND 3D USING UNIT INTERTIE	
(20 M	in)	
	NOTE ollowing steps will energize 4KV Shutdown Boards A, C, and D from Unit 3 Diesel entors as the only source.	
[1]	Notification has been received from the Unit 2 Unit Supervisor to perform this section	.•
[2]	<b>PROCEED TO</b> Panel 3-9-23, AND <b>PERFORM</b> the following to align Shutdown Bo 3EA:	ard
	[2.1] <b>VERIFY</b> DG 3A CONTROL switch, 3-HS-82-3A/1A, in START.	
Standa	a <u>rd:</u>	
	Starts DG 3A	
SAT_	_UNSATN/ACOMMENTS:	

JPM e PAGE 5 OF 11

Performance Step 2:	Critical X Not Critical
[2.2] <b>VERIFY</b> 4KV SD BD 3EA AUTO TO MANU. 3-HS-211-3EA, in MANUAL.	AL TRIP pushbutton,
Standard:	
Depresses 3-HS-211-3EA	,
SAT UNSAT N/ACOMMENTS:	
*************	*********
Performance Step 3:	Critical X Not Critical
[2.3] <b>VERIFY</b> 4KV SD BD 3EA NORM FDR BKR TRIP.	1334, 3-HS-211-3EA/7A, in
Standard:	
Trips Normal Feeder Breaker 1334	
SAT UNSAT N/ACOMMENTS:	· · · · · · · · · · · · · · · · · · ·
****************	
Performance Step 4:	Critical _ Not Critical X
[2.4] <b>VERIFY</b> DG 3A BKR 1838 CLOSED.	
Standard:	
Verifies DG Breaker 1838 closes	
SAT UNSAT N/ACOMMENTS:	

*****************	********
Performance Step 5:	Critical X Not Critical
[2.5] <b>PLACE</b> 4KV SD BD 3EA EMER FDR BKR 1844 CLOSE.	, 3-HS-211-3EA/1A, in
Standard:	
Closes Emergency Feeder Breaker 1844	
SAT UNSAT N/ACOMMENTS:	
**************************************	**************************************
[3] <b>PERFORM</b> the following to align 4KV Shutdown Board 3	
[3.1] <b>VERIFY</b> DG 3C CONTROL switch, 3-HS-82-3C/1	IA, in START.
Standard:	
Starts DG 3C	
SAT UNSAT N/ACOMMENTS:	
*****************	********
Performance Step 7:	Critical X Not Critical
[3.2] <b>VERIFY</b> 4KV SD BD 3EC AUTO TO MANUAL 3-HS-211-3EC, in MANUAL.	TRIP pushbutton,
Standard:	
Depresses 3-HS-211-3EC	
SATUNSAT N/ACOMMENTS:	

JPM e PAGE 7 OF 11

<u>Performance Step 8:</u>	Critical $\underline{X}$ Not Critical
[3.3] <b>VERIFY</b> 4KV SD BD 3EC NORM FDR BITRIP.	KR 1338, 3-HS-211-3EC/12A, in
Standard:	
Trips Normal Feeder Breaker 1338	
SAT UNSAT N/ACOMMENTS:	
************	********
Performance Step 9:	Critical _ Not Critical X
[3.4] <b>VERIFY</b> DG 3C BKR 1832 CLOSED.	
Standard:	
Verifies DG Breaker 1832 closes	
SAT UNSAT N/ACOMMENTS:	***************************************
***************	**********
Performance Step 10:	Critical X Not Critical
[3.5] <b>PLACE</b> 4KV SD BD 3EC EMER FDR BKF CLOSE.	R 1834, 3-HS-211-3EC/6A, in
Standard:	
Closes Emergency Feeder Breaker 1834	
SAT UNSAT N/ACOMMENTS:	
	THE STATE OF THE S

JPM e PAGE 8 OF 11

****************	********
Performance Step 11:	Critical X Not Critical
[4] <b>PERFORM</b> the following to align 4KV Shutdown Board	3ED:
[4.1] <b>VERIFY</b> DG 3D CONTROL switch, 3-HS-82-3D	/1A, in START.
Standard:	
Starts DG 3D	
SATUNSATN/ACOMMENTS:	
DRIVER: after DG is started enter trigger 1 for Low Lube Oi	l Pressure
*****************	*******
Performance Step 12:	Critical _ Not Critical X
[4.2] <b>VERIFY</b> 4KV SD BD 3ED AUTO TO MANUAL 3-HS-211-3ED, in MANUAL.	TRIP pushbutton,
Standard:	
Depresses 3-HS-211-3ED	
SAT UNSAT N/ACOMMENTS:	
The second secon	
*****************	
Performance Step 13:	Critical Not Critical X
[4.3] <b>VERIFY</b> 4KV SD BD 3ED NORM FDR BKR 134 TRIP.	42, 3-HS-211-3ED/8A, in
Standard:	
Trips Normal Feeder Breaker 1342	
SATUNSATN/ACOMMENTS:	
·	

	-	PM AGE	_	OF	11	
***	**	****	**	****	****	<b>k</b> >
cal	l _	Not	Cr	itical	<u>X</u>	

Performance Step 14: Criti [4.4] **VERIFY** DG 3D BKR 1836 CLOSED. Standard: Closes DG Breaker 1836 SAT\_\_ UNSAT\_\_ N/A \_\_COMMENTS: \* Performance Step 15: Critical Not Critical X [4.5] PLACE 4KV SD BD 3ED EMER FDR BKR 1846, 3-HS-211-3ED/4A, in CLOSE. Standard: Closes Emergency Feeder Breaker 1846

CUE: If Assistant Unit Operator is called, After Lube oil pressure alarm is received on 9-23, report lube oil pressure low at 5 psig and Lube Oil is spraying out of a damaged coupling.

SAT\_\_UNSAT\_\_ N/A \_\_COMMENTS:\_\_\_\_

JPM	e		
PAGE	10	OF	11

***************	*******
Performance Step 16:	Critical Not Critical X
<b>RESPONDS</b> to the Alarm 9-23D WIN 4 (DIESEL GEN D LUBE notices the AMBER LIGHT (LOW LOW OIL PRESSURE)	OIL ABNORMAL) and
Standard:	
Responds per the ARP and Verifies the AMBER LIGHT is	lit.
SAT UNSAT N/ACOMMENTS:	
· · · · · · · · · · · · · · · · · · ·	
******************	******
Performance Step 17:	Critical X Not Critical
SHUTS DOWN the DG with the Emergency Stop Pushbutton per	the ARP.
Standard:	
Shuts Down the DG with the Emergency Stop Pushbutton.	
SAT UNSAT N/ACOMMENTS:	
CUE: If asked, continued operation of DG D is not absolutely	necessary.

Examiner note: ALARM on 9-23D win 4 DG D LUBE OIL ABNORMAL will alarm and LOW LOW OIL PRESSURE LIGHT for D DG will illuminate, the operator should respond per the ARP.

Performance Step 18:	Critical _ Not Critical <u>X</u>
[5] <b>NOTIFY</b> Unit 2 Unit Supervisor of the completion of this section	ion.
[6] <b>PROCEED TO</b> 480V RMOV Board 3C in preparation of perfe	orming Section 2.0.
Standard:	
Notifies Unit Supervisor	
SAT UNSAT N/ACOMMENTS:	
·	
CUE: Remain in Control Room another Operator has been Board 3C. JPM Complete	dispatched to 480V RMOV

END OF TASK

STOP TIME \_\_\_\_

OPERATOR:		, , , , , , , , , , , , , , , , , , ,
RO SRO_	DATE	:
JPM NUMBER:	f	
TASK NUMBER:	U-090-NO-11	
TASK TITLE:	Inhibit trip signal for	NUMAC 1-RM-90-141/143
K/A NUMBER:	272000 K3.06	K/A RATING: RO 3.4 SRO: 3.6
TASK STANDARD:	Trip signal inhibited for	or NUMAC 1-RM-90-141/143
LOCATION OF PER	FORMANCE: Contro	l Room
REFERENCES/PROC	CEDURES NEEDED:	1-OI-90
VALIDATION TIME	:	
MAX. TIME ALLOW	ED: (Completed for T	ime Critical JPMs only)
COMMENTS:		
Additional comment s	heets attached? YES _	NO
RESULTS: SATIS	FACTORY	UNSATISFACTORY
SIGNATURE:	EXAMINER	DATE:

You are a Unit Operator. The RX & REFUEL ZONE EXH CH B RAD MON RTMR 1-RM-90-141/143 has an upscale trip locked in on REFUEL ZONE DET A and B, 1-RE-90-141A/B. The trip signal will not reset and has been confirmed to be <u>not</u> valid.

# **INITIATING CUE:**

The Unit Supervisor directs you to inhibit the upscale trip per 1-OI-90 Radiation Monitoring System section 6.6, to prevent further impact to plant operation due to the reactor zone isolation.

\*

IN-PLANT: I will explain the initial conditions and state the task to be performed. <u>ALL STEPS WILL BE SIMULATED</u>. Do <u>NOT</u> operate any plant equipment. SELF CHECKING may be carried out to the point of touching a label. If it becomes necessary to physically touch a control switch, use a non-conductive pointing device. Observe ALL plant radiological and safety precautions. I will provide initiating cues and indicate any steps to be discussed. When you complete the task successfully, the objective for this job performance measure will be satisfied. When your task is given, you will repeat the task and I will acknowledge "That's correct" (or That's incorrect", if applicable). When you have completed your assigned task, you will say, "My task is complete" and I will acknowledge that your task is complete.

\*

### **INITIAL CONDITIONS:**

You are a Unit Operator. The RX & REFUEL ZONE EXH CH B RAD MON RTMR 1-RM-90-141/143 has an upscale trip locked in on REFUEL ZONE DET A and B, 1-RE-90-141A/B. The trip signal will not reset and has been confirmed to be <u>not</u> valid.

### **INITIATING CUE:**

The Unit Supervisor directs you to inhibit the upscale trip per 1-OI-90 Radiation Monitoring System section 6.6, to prevent further impact to plant operation due to the reactor zone isolation.

SIAK	
****	****************************
Perform	mance Step 1: Critical Not Critical X
6.6 NU	JMAC Radiation Monitor Operation
	NOTES
1)	The section is applicable to Main Steam Line Radiation Monitors 1-RM-90-136 & 137 and RX & REFUEL ZONE EXH CH A(B) RAD MON RTMR, 1-RM-90-140/142 (1-RM-90-141/143).
2)	A screen saver activates on the monitor after 30 minutes of constant display.
3)	There are two detectors for each channel of the Reactor Zone/Refuel Zone monitors
3)	and are indicated on each monitor as follows:
	1-RM-90-140/142
Displa	·
CH 2A	±
CH 2B	· · · · · · · · · · · · · · · · · · ·
CH 0A	
CH 0B	
CH 0B	5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Diamla	1-RM-90-141/143
Displa	*
CH 3A	· · · · · · · · · · · · · · · · · · ·
CH 3B	, 112 / 112 / 112 / 112
CH 1A	
CH 1B	
4)	Only the "A" detector of each channel described above has input to radiation recorder 1-RR-90-144.
[1]	<b>IF</b> the screen saver is activated, <b>THEN DEPRESS</b> any of the prompt keys at the bottom of the screen to display the monitored channels.
Standa	<u>rd:</u>
	May depress prompt key to activate display
SAT	_UNSATN/ACOMMENTS:

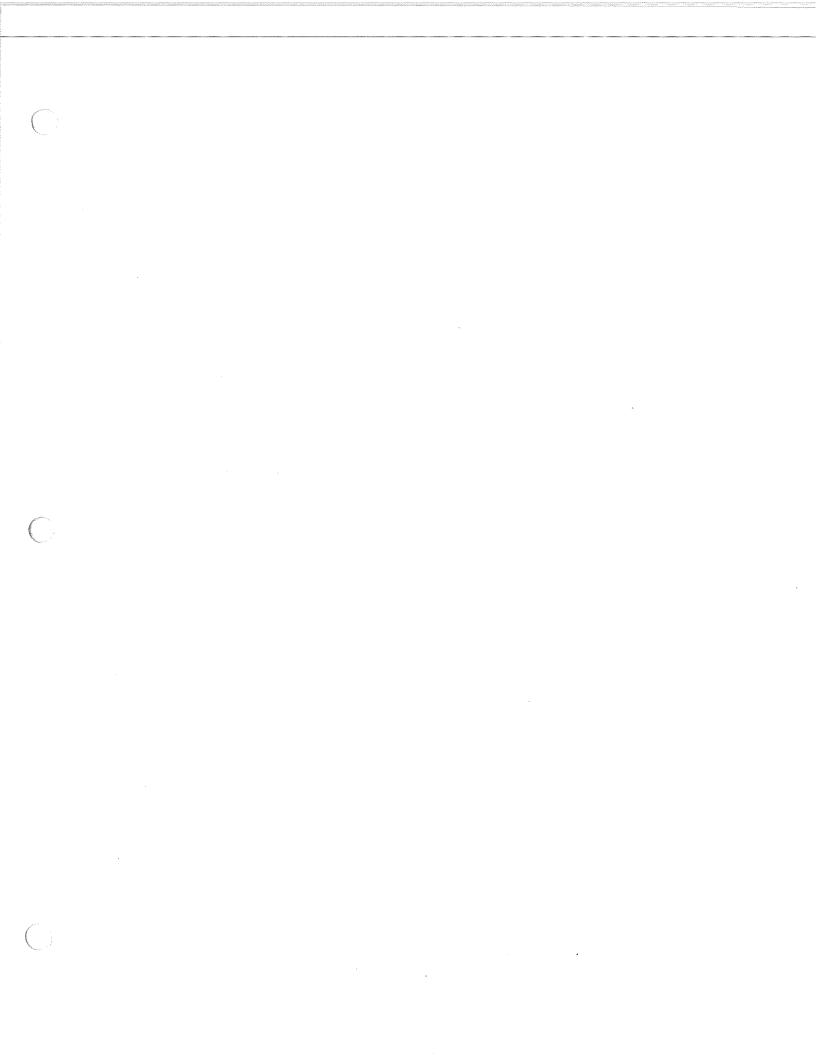
CUE: If display is checked detector 141 A and B indicate Upscale Trips You have the necessary tools to complete the task.

JPM	f		
PAGE	5	OF	6

PAGE 5 OF 6
**************************************
Performance Step 2: Critical X Not Critical
CATTERON
CAUTION A Reactor Zone isolation can cause a unit scram in less than five minutes due to high temperature
n the steam tunnel.
NOTES
Step 6.6[2] is to be performed in the event of a trip signal that will <b>NOT</b> reset to prevent further impact to plant operation due to reactor zone isolation. This is only considered appropriate when the signal is believed to be invalid.
Technical Specifications only allow one trip channel at a time to be out of service. This section provides directions for removing both trip channels from service but should only be performed on one channel at a time. Reference Technical Specification 3.3.6.2 for limiting conditions.
Any active trip condition will be indicated by a highlighted "TRIP" at the top of the screen. A non-highlighted "TRIP" at the top of the screen indicates that there are one or more past trip condition that have been acknowledged.
Trips on the Reactor Zone/Refuel Zone Radiation monitors will automatically reset when the alarming condition resets.
Downscale trips take more than one trip channel to activate the logic.
PERFORM the following to immediately reset a Group 6 Isolation Due to Reactor Zone Radiation Monitors:
[2.1] <b>PLACE</b> affected monitor keylock switch to INOP position.
Standard:
Simulates placing monitor 1-RM-90-141/143 keylock switch to INOP
SAT UNSAT N/ACOMMENTS:
CUE: Keylock switch is in the INOP position on 1-RM-90-141/143.

JPM	f			
PAGE	6	OF	6	

*************************
<u>Performance Step 3:</u> * Critical <u>X</u> Not Critical
NOTE Step(s) 6.6[2.2] and 6.6[2.3] place jumpers to inhibit the upscale trips for a monitor.
[2.2] <b>IF</b> the affected monitor is 1-RM-90-140/142, <b>THEN PLACE</b> jumper across the following terminals in the back of Panel 9-10 to inhibit the upscale trip:
TB HH terminals 49 and 50
*[2.3] <b>IF</b> the affected monitor is 1-RM-90-141/143, <b>THEN PLACE</b> jumper across the following terminals in the back of Panel 9-10 to inhibit the upscale trip:
TB DD terminals 59 and 60
Standard:
Simulates performing step 2.3, places a jumper across terminals 59 and 60 on TB DD
SAT UNSAT N/ACOMMENTS:
CUE: Jumper is placed across terminals 59 and 60 on TB DD
END OF TASK
STOP TIME



OPERATOR:					
RO SRO_	DATE	:			
JPM NUMBER:	f				
TASK NUMBER:	U-090-NO-11				
TASK TITLE:	Inhibit trip signal for NUMAC 2-RM-90-141/143				
K/A NUMBER:	272000 K3.06	K/A RATING: RO 3.4 SRO: 3.6			
TASK STANDARD: Trip signal inhibited for NUMAC 2-RM-90-141/143					
LOCATION OF PER	FORMANCE: Contro	l Room			
REFERENCES/PROC	CEDURES NEEDED:	2-OI-90			
VALIDATION TIME	:				
MAX. TIME ALLOW	/ED: (Completed for T	ime Critical JPMs only)			
COMMENTS:					
Additional comment s	heets attached? YES _	NO			
RESULTS: SATIS	FACTORY	UNSATISFACTORY			
SIGNATURE: DATE: EXAMINER					

You are a Unit Operator. The RX & REFUEL ZONE EXH CH B RAD MON RTMR 2-RM-90-141/143 has an upscale trip locked in on REFUEL ZONE DET A and B, 2-RE-90-141A/B. The trip signal will not reset and has been confirmed to be <u>not</u> valid.

# **INITIATING CUE:**

The Unit Supervisor directs you to inhibit the upscale trip per 2-OI-90 Radiation Monitoring System section 6.6, to prevent further impact to plant operation due to the reactor zone isolation.

\*

IN-PLANT: I will explain the initial conditions and state the task to be performed. ALL STEPS WILL BE SIMULATED. Do NOT operate any plant equipment. SELF CHECKING may be carried out to the point of touching a label. If it becomes necessary to physically touch a control switch, use a non-conductive pointing device. Observe ALL plant radiological and safety precautions. I will provide initiating cues and indicate any steps to be discussed. When you complete the task successfully, the objective for this job performance measure will be satisfied. When your task is given, you will repeat the task and I will acknowledge "That's correct" (or That's incorrect", if applicable). When you have completed your assigned task, you will say, "My task is complete" and I will acknowledge that your task is complete.

\*

### **INITIAL CONDITIONS:**

You are a Unit Operator. The RX & REFUEL ZONE EXH CH B RAD MON RTMR 2-RM-90-141/143 has an upscale trip locked in on REFUEL ZONE DET A and B, 2-RE-90-141A/B. The trip signal will not reset and has been confirmed to be <u>not</u> valid.

#### **INITIATING CUE:**

The Unit Supervisor directs you to inhibit the upscale trip per 2-OI-90 Radiation Monitoring System section 6.6, to prevent further impact to plant operation due to the reactor zone isolation.

STAF	RT TIME
****	****************************
Perfor	mance Step 1: Critical _ Not Critical X
6.6 N	UMAC Radiation Monitor Operation
	NOTES
1)	This section is applicable to Main Steam Line radiation monitors 2-RM-90-136, 137 and Reactor Zone/Refuel Zone radiation monitors 2-RM-90-140/142 and 2-RM-90-141/143.
2)	A screen saver activates on the monitor after 30 minutes of constant display.
[1]	<b>IF</b> the screen saver is activated, <b>THEN DEPRESS</b> any of the prompt keys at the bottom of the screen to display the monitored channels.
Standa	urd:
	May depress prompt key to activate display
SAT_	_ UNSAT N/ACOMMENTS:

CUE: If display is checked detector 141 A and B indicate Upscale Trips You have the necessary tools to complete the task.

# **NOTES**

1) There are two detectors for each channel of the Reactor Zone/Refuel Zone Monitors and are indicated on each monitor as follows:

	2-RM-90-140/142				
Display	Display Description				
2A	2-RE-90-142A, Reactor Zone channel A detector A.				
2B	2-RE-90-142B, Reactor Zone channel A detector B.				
0 <b>A</b>	2-RE-90-140A, Refuel Zone channel A detector A.				
0B	2-RE-90-140B, Refuel zone channel A detector B.				
	2-RM-90-141/143				
Display	Description				
3A	2-RE-90-143A, Reactor Zone channel B detector A.				
3B	2-RE-90-143B, Reactor Zone channel B detector B.				
1A	2-RE-90-141A, Refuel Zone channel B detector A.				
1B	2-RE-90-141B, Refuel Zone channel B detector B.				

- 2) Only the "A" detector of each channel described above has input to radiation recorder 2-RR-90-144 Reactor & Refuel Zone Exhaust Radiation.
- Any active trip condition will be indicated by a highlighted "TRIP" at the top of the screen. A non-highlighted "TRIP" at the top of the screen indicates that there are one or more past trip conditions that have not been acknowledged.
- 4) Trips on the Reactor Zone/Refuel Zone Radiation monitors will automatically reset when the alarming condition resets.

JPM	f		
PAGE	6	OF	7

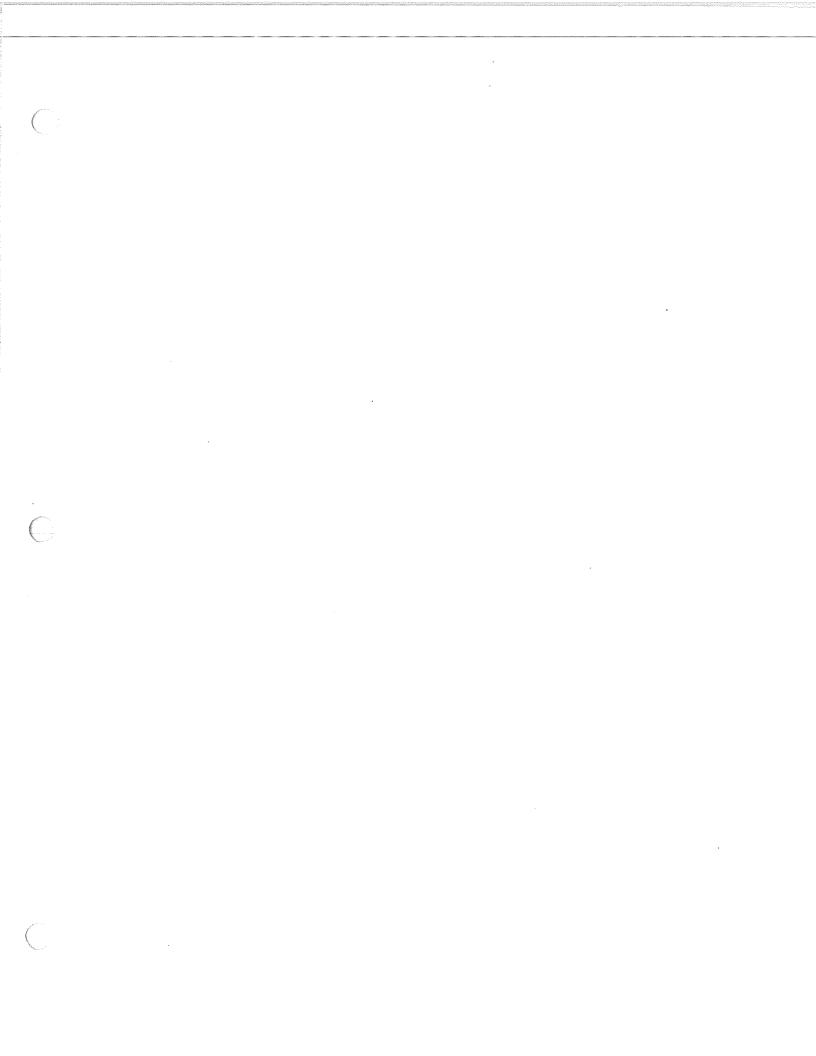
	PAGE 6 OF 7
****	**************************
Perfo	rmance Step 2: Critical X Not Critical
[2]	Immediate Resetting of Group 6 Isolation Due to Reactor Zone Radiation Monitors
	CAUTION
	actor Zone isolation can cause a unit scram in less than five minutes due to high erature in the steam tunnel.
	NOTES
1)	This section is to be performed in the event of a trip signal that will not reset in order to prevent further impact to plant operation due to reactor zone isolation. This is only considered appropriate when the signal is believed to be invalid.
2)	Technical Specifications only allow one trip channel at a time to be out of service. This section provides directions for removing both trip channels from service but should only be performed on one channel at a time. Reference Technical Specification 3.3.6.2 for limiting conditions.
3)	This section places jumpers to inhibit the upscale trips for a monitor.
4)	Downscale trips take more than one trip channel to activate the logic.
	[2.1] PLACE affected monitor keylock switch to INOP position.
Stand	ard:
	Simulates placing monitor 2-RM-90-141/143 keylock switch to INOP
SAT	UNSAT N/A COMMENTS:
_	

CUE: Keylock switch is in the INOP position for monitor 2-RM-90-141/143.

JPM	f		
PAGE	7	OF	7

	************************
Performance S	Step 3: *Critical $\underline{X}$ Not Critical
[2.2]	<b>IF</b> the affected monitor is 2-RM-90-140/142, <b>THEN PLACE</b> jumper across the following terminals in the back of Panel 2-9-10 to inhibit the upscale trip:
	TB HH terminals 49 and 50
*[2.3]	<b>IF</b> the affected monitor is 2-RM-90-141/143, <b>THEN PLACE</b> jumper across the following terminals in the back of Panel 2-9-10 to inhibit the upscale trip:
	TB DD terminals 59 and 60
Standard:	
Simula	ates performing step 2.3, places a jumper across terminals 59 and 60 on TB DD
SATUNSA	ATN/ACOMMENTS:
***************************************	
CUE: Jumpe	er is placed across terminals 59 and 60 on TB DD
	END OF TASK

STOP TIME \_\_\_



OPERATOR:	<del></del>
RO SRO_	DATE:
JPM NUMBER:	f
TASK NUMBER:	U-090-NO-11
TASK TITLE:	Inhibit trip signal for NUMAC 3-RM-90-141/143
K/A NUMBER:	272000 K3.06 K/A RATING: RO 3.4 SRO: 3.6
TASK STANDARD:	Trip signal inhibited for NUMAC 3-RM-90-141/143
LOCATION OF PER	FORMANCE: Control Room
REFERENCES/PROC	CEDURES NEEDED: 3-OI-90
VALIDATION TIME	
MAX. TIME ALLOW	VED: (Completed for Time Critical JPMs only)
COMMENTS:	
Additional comment s	sheets attached? YES NO
RESULTS: SATIS	FACTORY UNSATISFACTORY
SIGNATURE:	DATE:

# **INITIAL CONDITIONS:**

You are a Unit Operator. The RX & REFUEL ZONE EXH CH B RAD MON RTMR 3-RM-90-141/143 has an upscale trip locked in on REFUEL ZONE DET A and B, 3-RE-90-141A/B. The trip signal will not reset and has been confirmed to be <u>not</u> valid.

### **INITIATING CUE:**

The Unit Supervisor directs you to inhibit the upscale trip per 3-OI-90 Radiation Monitoring System section 6.4, to prevent further impact to plant operation due to the reactor zone isolation.

CAUTION: DO NOT OPERATE ANY PLANT EQUIPMENT

\*

IN-PLANT: I will explain the initial conditions and state the task to be performed. ALL STEPS WILL BE SIMULATED. Do NOT operate any plant equipment. SELF CHECKING may be carried out to the point of touching a label. If it becomes necessary to physically touch a control switch, use a non-conductive pointing device. Observe ALL plant radiological and safety precautions. I will provide initiating cues and indicate any steps to be discussed. When you complete the task successfully, the objective for this job performance measure will be satisfied. When your task is given, you will repeat the task and I will acknowledge "That's correct" (or That's incorrect", if applicable). When you have completed your assigned task, you will say, "My task is complete" and I will acknowledge that your task is complete.

\*

### **INITIAL CONDITIONS:**

You are a Unit Operator. The RX & REFUEL ZONE EXH CH B RAD MON RTMR 3-RM-90-141/143 has an upscale trip locked in on REFUEL ZONE DET A and B, 3-RE-90-141A/B. The trip signal will not reset and has been confirmed to be <u>not</u> valid.

### **INITIATING CUE:**

The Unit Supervisor directs you to inhibit the upscale trip per 3-OI-90 Radiation Monitoring System section 6.4, to prevent further impact to plant operation due to the reactor zone isolation.

CAUTION: DO NOT OPERATE ANY PLANT EQUIPMENT

****			
	mance Step 1: Critical _ Not Critical X		
6.4 N	UMAC Radiation Monitor Operation		
	NOTES		
1)	This section is applicable to Main Steam Line radiation monitors 3-RM-90-136, 137 and Reactor Zone/Refuel Zone radiation monitors 3-RM-90-140/142 and 3-RM-90-141/143.		
2)	A screen saver activates on the monitor after 30 minutes of constant display.		
[1]	IF the screen saver is activated, <b>THEN DEPRESS</b> any of the prompt keys at the bottom of the screen to display the monitored channels.		
Standa	ard:		
	May depress prompt key to activate display		
SAT_	_ UNSAT N/ACOMMENTS:		

CUE: If display is checked detector 141 A and B indicate Upscale Trips You have the necessary tools to complete the task.

### **NOTES**

1) There are two detectors for each channel of the Reactor Zone/Refuel Zone Monitors and are indicated on each monitor as follows:

3-RM-90-140/142
Description
3-RE-90-142A, Reactor Zone channel A detector A.
3-RE-90-142B, Reactor Zone channel A detector B.
3-RE-90-140A, Refuel Zone channel A detector A.
3-RE-90-140B, Refuel zone channel A detector B.
2-RM-90-141/143
Description
3-RE-90-143A, Reactor Zone channel B detector A.
3-RE-90-143B, Reactor Zone channel B detector B.
3-RE-90-141A, Refuel Zone channel B detector A.
3-RE-90-141B, Refuel Zone channel B detector B.

- 2) Only the "A" detector of each channel described above has input to radiation recorder 3-RR-90-144 Reactor & Refuel Zone Exhaust Radiation.
- 3) Any active trip condition will be indicated by a highlighted "TRIP" at the top of the screen. A non-highlighted "TRIP" at the top of the screen indicates that there are one or more past trip conditions that have not been acknowledged.
- 4) Trips on the Reactor Zone/Refuel Zone Radiation monitors will automatically reset when the alarming condition resets.

JPM	f			
PAGE	6	OF	7	

***********************************

Performance Step 2:

Critical X Not Critical

[2] **PERFORM** the following to immediately Reset Group 6 Isolation Due to Reactor Zone Radiation Monitors.

# **CAUTION**

A Reactor Zone isolation can cause a unit scram in less than five minutes due to high temperature in the steam tunnel.

# **NOTES**

- 1) This section is to be performed in the event of a trip signal that will **NOT** reset in order to prevent further impact to plant operation due to reactor zone isolation. This is only considered appropriate when the signal is believed to be invalid.
- 2) Technical Specifications only allow one trip channel at a time to be out of service. This section provides directions for removing both trip channels from service but should only be performed on one channel at a time. Reference Technical Specification 3.3.6.2 for limiting conditions.
- 3) This section places jumpers to inhibit the upscale trips for a monitor
  - [2.1] PLACE affected monitor keylock switch to INOP position.

### Standard:

Simulates placing monitor 3-RM-90-141/143	keylock switch to INOP
---	------------------------

SAT	UNSAT	N/A	COMMENTS:	
, —		-		W

CUE: Keylock switch is in the INOP position for monitor 3-RM-90-141/143.

JPM	f		
PAGE	7	OF	7

******************************	
Performance Step 3: *Critical $\underline{X}$ Not Critical	
[2.2] <b>IF</b> the affected monitor is 3-RM-90-140/142, <b>THEN PLACE</b> jumper across th following terminals in the back of Panel 3-9-10 to inhibit the upscale trip:	.e
TB HH terminals 49 and 50	
*[2.3] <b>IF</b> the affected monitor is 3-RM-90-141/143, <b>THEN PLACE</b> jumper across th following terminals in the back of Panel 3-9-10 to inhibit the upscale trip:	e
TB DD terminals 59 and 60	
Standard:	
Simulates performing step 2.3, places a jumper across terminals 59 and 60 on TB DD	
SAT UNSAT N/ACOMMENTS:	
CUE: Jumper is placed across terminals 59 and 60 on TB DD	
END OF TASK	

STOP TIME \_\_\_

JPM g PAGE 1 OF 8

OPERATOR:
RO
JPM NUMBER: g
TASK NUMBER: U-000-EM-74
TASK TITLE: Crosstie CAD to Drywell Control Air
K/A NUMBER: 218000 A2.03 K/A RATING: RO 3.4 SRO: 3.6
TASK STANDARD: Align Containment Air Dilution systems A and B to the Drywell Air System and then isolates CAD System B.
LOCATION OF PERFORMANCE: Simulator
REFERENCES/PROCEDURES NEEDED: 2-EOI Appendix-8G
VALIDATION 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:

**INITIAL CONDITIONS**: You are an Operator. The Unit 2 reactor has scrammed. EOI-1 has been followed to RC/P-8.

**INITIATING CUE**: The Unit Supervisor has directed you to perform 2-EOI Appendix-8G, Crosstie CAD to Drywell Control Air.

\*

**IN-SIMULATOR:** I will explain the initial conditions and state the task to be performed. I will provide initiating cues and reports on other actions when directed by you. When you complete the task successfully, the objective for this job performance measure will be satisfied. When your task is given, you will repeat the task and I will acknowledge "That's Correct". (OR "That's Incorrect", if applicable). When you have completed your assigned task, you will say, "my task is complete" and I will acknowledge that your task is complete.

**INITIAL CONDITIONS**: You are an Operator. The Unit 2 reactor has scrammed. EOI-1 has been followed to RC/P-8.

**INITIATING CUE**: The Unit Supervisor has directed you to perform 2-EOI Appendix-8G, Crosstie CAD to Drywell Control Air.

START TIME	
***************	***********
Performance Step 1:	Critical $\underline{X}$ Not Critical
1. <b>OPEN</b> the following valves:	
<ul> <li>0-FCV-84-5, CAD SYSTEM A N2 SHUTOFF</li> <li>0-FCV-84-16, CAD SYSTEM B N2 SHUTOF</li> </ul>	,
Standard:	
Opens 0-FCV-84-5 and 16	
SAT UNSAT N/ACOMMENTS:	
*************	**********
Performance Step 2:	Critical $\_$ Not Critical $\underline{X}$
2. <b>VERIFY</b> 0-PI-84-6, N2 VAPORIZER A OUTLET VAPORIZER B OUTLET PRESSURE, indicate at 9-54 and 9-55)	
Standard:	
Verifies 0-PI-84-6 and 0-PI-84-17 (Located on back indicating approximately 100 psig.	k of Unit 2 Panel 9-54 in simulator)
SATUNSATN/ACOMMENTS:	
· · · · · · · · · · · · · · · · · · ·	

JPM	g		
PAGE	5	OF	8

****	***************************************	***
<u>Perfo</u>	mance Step 3: *Critical X Not Critical	
*3.	PLACE keylock switch 2-HS-84-48, CAD A CROSS TIE TO DW CONTROL AIR, OPEN (Unit 2, Panel 9-54)	, in
4.	CHECK OPEN 2-FSV-84-48, CAD A CROSS TIE TO DW CONTROL AIR, (Unit Panel 9-54)	2,
Stand	ard:	
	Places keylock switch 2-HS-84-48 in Open and verifies 2-FSV-84-48 is open	
SAT	_UNSATN/ACOMMENTS:	
****	****	
	**************************************	:
	**************************************	t
<u>Perfo</u>	*Critical X Not Critical  *PLACE keylock switch 2-HS-84-49, CAD B CROSS TIE TO DW CONTROL AIR,	
<u>Perfo</u> *5.	*Critical X Not Critical  PLACE keylock switch 2-HS-84-49, CAD B CROSS TIE TO DW CONTROL AIR, OPEN (Unit 2, Panel 9-55)  CHECK OPEN 2-FSV-84-49, CAD B CROSS TIE TO DW CONTROL AIR (Unit 2, Panel 9-55)	
<u>Perfo</u> *5. 6.	*Critical X Not Critical  PLACE keylock switch 2-HS-84-49, CAD B CROSS TIE TO DW CONTROL AIR, OPEN (Unit 2, Panel 9-55)  CHECK OPEN 2-FSV-84-49, CAD B CROSS TIE TO DW CONTROL AIR (Unit 2, Panel 9-55)	
Perfo* *5.  6.  Stand	*Critical X Not Critical  PLACE keylock switch 2-HS-84-49, CAD B CROSS TIE TO DW CONTROL AIR, OPEN (Unit 2, Panel 9-55)  CHECK OPEN 2-FSV-84-49, CAD B CROSS TIE TO DW CONTROL AIR (Unit 2, Panel 9-55)  ard:	
Perfo* *5.  6.  Stand	*Critical X Not Critical  PLACE keylock switch 2-HS-84-49, CAD B CROSS TIE TO DW CONTROL AIR, OPEN (Unit 2, Panel 9-55)  CHECK OPEN 2-FSV-84-49, CAD B CROSS TIE TO DW CONTROL AIR (Unit 2, Panel 9-55)  ard:  Places keylock switch 2-HS-84-49 in Open and verifies 2-FSV-84-49 open	

JPM	g		
PAGE	6	OF	8

Perio	rmance Step 5: Critical X Not Critical
7.	CHECK MAIN STEAM RELIEF VLV AIR ACCUM PRESS LOW, 2-PA-32-31, ala cleared (2-XA-55-3D, Window 18)
Stano	lard:
Win.	Recognizes MAIN STEAM RELIEF VLV AIR ACCUM PRESS LOW (2-XA-55-3D, 18) still in Alarm (would Not clear) and continues with procedure.
SAT_	UNSAT N/ACOMMENTS:
	******************************
<u>Perfo</u>	rmance Step 6: Critical _ Not Critical <u>X</u>
8.	IF MAIN STEAM RELIEF VLV AIR ACCUM PRESS LOW, 2-PA-32-31, annunciat is or remains in alarm (2-XA-55-3D, Window 18), THEN <b>DETERMINE</b> which Dryw Control Air header is depressurized as follows:  a. <b>DISPATCH</b> personnel to Unit 2, RB, El 565 ft, to <b>MONITOR</b> the following
	indications for low pressure:
	<ul> <li>2-PI-84-51, CAD N2 PRESSURE TO DWCA indicator, for CAD A (R-10 S-line, by Drywell Access Door)</li> </ul>
	<ul> <li>2-PI-84-50, DW CONT AIR N2 SUPPLY PRESS indicator, for CAD E (R-12 U-line, behind 480V RB Vent Board 2B)</li> </ul>
Stand	ard:
press	Dispatches personnel to Reactor Building to monitor 2-PI-84-51 and 2-PI-84-50 for loure.
SAT_	UNSAT N/ACOMMENTS:

	JPM	g		
	PAGE	7	OF	8

*****************	*********		
Performance Step 7:	Critical X Not Critical		
b. <b>MONITOR</b> 0-FI-84-7(18), CAD LINE A(B) N 1-9-54(55) for high flow.	N2 FLOW, on Unit 1, Panel		
Standard:			
Recognizes 0-FI-84-7 flow 0 scfm and 0-FI-84-18 flow	v 90 scfm		
SATUNSATN/ACOMMENTS:	,		
NOTE CAD System A to Drywell Control Air supplies the following	MSIVs:		
<ul> <li>2-FCV-1-14, MSIV LINE A INBOARD</li> <li>2-FCV-1-26, MSIV LINE B INBOARD</li> </ul>			
NOTE CAD System B to Drywell Control Air supplies the following	MSIVs:		
<ul> <li>2-FCV-1-37, MSIV LINE C INBOARD</li> <li>2-FCV-1-51, MSIV LINE D INBOARD</li> </ul>			
****************	********		
Performance Step 8:	Critical _ Not Critical X		
c. <b>MONITOR</b> inboard MSIV indication status fo	r valves drifting closed.		
Standard:			
Recognizes 2-FCV-1-37 and 51 closed			
SAT UNSAT N/ACOMMENTS:			

JPM	g		
PAGE	8	OF	8

	<u>mance Step 9:</u> Critical _ Not Critical <u>X</u>	*
9.	IF Drywell Control Air header supplied from CAD System A shows indications of being depressurized, THEN <b>CLOSE</b> the following valves:	<b>y</b>
	• 0-FCV-84-5, CAD SYSTEM A N2 SHUTOFF VALVE (Unit 1, Panel 9-54)	
	• 2-FSV-84-48, CAD A CROSS TIE TO DW CONTROL AIR (Unit 2, Panel 9-54	ŀ)
Stand	<u>rd:</u>	
	N/A – No indications of being depressurized	
SAT_	_UNSATN/ACOMMENTS:	
	**************************************	
10.	IF Drywell Control Air header supplied from CAD B shows indications of being depressurized, THEN <b>CLOSE</b> the following valves:	
	• 0-FCV-84-16, CAD SYSTEM B N2 SHUTOFF VALVE (Unit 1, Panel 9-55)	
	• 2-FSV-84-49, CAD B CROSS TIE TO DW CONTROL AIR (Unit 2, Panel 9-55	)
Standa	r <u>d:</u>	
	Closes 0-FCV-84-16 and 2-FSV-84-49	
SAT_	UNSAT N/ACOMMENTS:	
STOF	TIME	

END OF TASK

• ٠

JPM g PAGE 1 OF 8

OPERATOR:	7		·
RO	SRO_	DATE	:
JPM NUMBE	R:	g	
TASK NUMB	ER:	U-000-EM-74	
TASK TITLE:		Crosstie CAD	to Drywell Control Air
K/A NUMBER	R: 2180	000 A2.03	K/A RATING: RO 3.4 SRO: 3.6
TASK STAND	DARD:		ment Air Dilution systems A and B to the Drywell Air System es CAD System B.
LOCATION O	F PERI	FORMANCE:	Simulator
REFERENCES	S/PROC	CEDURES NEE	EDED: 3-EOI Appendix-8G
VALIDATION	TIME	: 10 minutes	
MAX. TIME A	ALLOW	ED: (Complete	ed for Time Critical JPMs only)
PERFORMAN	ICE TI	ME:	
COMMENTS:			
Additional com	nment s	heets attached?	YES NO
RESULTS:	SATIS	FACTORY	UNSATISFACTORY
SIGNATURE:		EXAMINER	DATE:

**INITIAL CONDITIONS**: You are an Operator. The Unit 3 reactor has scrammed. EOI-1 has been followed to RC/P-8.

**INITIATING CUE**: The Unit Supervisor has directed you to perform 3-EOI Appendix-8G, Crosstie CAD to Drywell Control Air.

\*

**IN-SIMULATOR:** I will explain the initial conditions and state the task to be performed. I will provide initiating cues and reports on other actions when directed by you. When you complete the task successfully, the objective for this job performance measure will be satisfied. When your task is given, you will repeat the task and I will acknowledge "That's Correct". (OR "That's Incorrect", if applicable). When you have completed your assigned task, you will say, "my task is complete" and I will acknowledge that your task is complete.

\*

**INITIAL CONDITIONS**: You are an Operator. The Unit 3 reactor has scrammed. EOI-1 has been followed to RC/P-8.

**INITIATING CUE**: The Unit Supervisor has directed you to perform 3-EOI Appendix-8G, Crosstie CAD to Drywell Control Air.

START TIME
******************************
Performance Step 1: Critical X Not Critical
1. <b>OPEN</b> the following valves:
<ul> <li>0-FCV-84-5, CAD SYSTEM A N2 SHUTOFF VALVE (Panel 3-9-54)</li> <li>0-FCV-84-16, CAD SYSTEM B N2 SHUTOFF VALVE (Panel 3-9-55)</li> </ul>
Standard:
Opens 0-FCV-84-5 and 16
SAT UNSAT N/ACOMMENTS:
************************
Performance Step 2: Critical _ Not Critical X
2. <b>VERIFY</b> 0-PI-84-6/3, VAPOR A OUTLET PRESS, and 0-PI-84-17/3, VAPOR B OUTLET PRESS, indicate approximately 100 psig (Unit 3, Panel 3-9-54 and 3-9-55)
Standard:
Verified 0-PI-84-6/3 and 0-PI-84-17/3 (Located on Unit 3, Panel 3-9-54 and 3-9-55) indicating approximately 100 psig.
SAT UNSAT N/ACOMMENTS:

JPM	g		
PAGE	5	OF	8

****	*****************************
<u>Perfor</u>	mance Step 3: *Critical X Not Critical
*3.	<b>PLACE</b> keylock switch 3-HS-84-48, CAD A CROSS TIE TO DW CONTROL AIR, in OPEN (Unit 3, Panel 3-9-54)
4.	CHECK OPEN 3-FSV-84-48, CAD A CROSS TIE TO DW CONTROL AIR, (Unit 3, Panel 3-9-54)
Standa	ard:
	Places keylock switch 3-HS-84-48 in Open and verifies 3-FSV-84-48 open
SAT_	UNSAT N/ACOMMENTS:
	·
****	***********************
	mance Step 4: *Critical X Not Critical
*5.	<b>PLACE</b> keylock switch 3-HS-84-49, CAD B CROSS TIE TO DW CONTROL AIR, in OPEN (Unit 3, Panel 3-9-55)
6.	CHECK OPEN 3-FSV-84-49, CAD B CROSS TIE TO DW CONTROL AIR (Unit 3, Panel 3-9-55)
Standa	ard:
	Places keylock switch 3-HS-84-49 in Open and verifies 3-FSV-84-49
SAT_	_UNSAT N/ACOMMENTS:

A STATE OF THE STA

JPM	g		
PAGE	6	OF	8

****	********************	******
<u>Perform</u>	rmance Step 5: Critic	al X Not Critical
7.	CHECK MAIN STEAM RELIEF VLV AIR ACCUM PRESS LO cleared (3-XA-55-3D, Window 18)	OW, 3-PA-32-31, alarm
Standa	ard:	
Win. 1	Recognizes MAIN STEAM RELIEF VLV AIR ACCUM PRESS 18) still in Alarm (would NOT clear) and continues with procedure.	LOW (3-XA-55-3D,
SAT_	UNSAT N/ACOMMENTS:	
****	*****************	*****
Perform	rmance Step 6: Critica	al _ Not Critical X
8.	IF MAIN STEAM RELIEF VLV AIR ACCUM PRESS LOW, 3-1 is or remains in alarm (3-XA-55-3D, Window 18), THEN <b>DETE</b> Control Air header is depressurized as follows:	
	a. <b>DISPATCH</b> personnel to Unit 3, RB, El 565 ft, to <b>MONI</b> indications for low pressure:	<b>FOR</b> the following
	<ul> <li>3-PI-84-51, CAD A CROSSTIE TO DWCA PRES for CAD A (R-17 S-line, by Drywell Access Door)</li> </ul>	,
	• 3-PI-84-50, DW CONT AIR N2 SUPPLY PRESS ((R-19 U-line, behind 480V RB Vent Board 3B)	indicator, for CAD B
<u>Standa</u>	ard:	
pressui	Dispatches personnel to Reactor Building to monitor 3-PI-84-51 aure.	nd 3-PI-84-50 for low
SAT_	UNSATN/ACOMMENTS:	

CUE: [When dispatched, as AUO, report] 3-PI-84-51, CAD N₂ Pressure to DWCA indicator, for CAD A is reading 110 psig and 3-PI-84-50 reading 5 psig.

JPM	g				
PAGE	_	OF	8		

*******************	********
Performance Step 7:	Critical X Not Critical
b. <b>MONITOR</b> 0-FI-84-7/3(18/3), CAD A(B) N2 SY 3-9-54(55) for high flow.	STEM FLOW, on Panel
Standard:	
Recognizes 0-FI-84-7/3 flow is 0 scfm and that 0-FI-84-18	3 flow is 50 scfm
SAT UNSAT N/ACOMMENTS:	
NOTE	
CAD System A to Drywell Control Air supplies the following MS	SIVs:
<ul> <li>3-FCV-1-14, MSIV LINE A INBOARD</li> <li>3-FCV-1-26, MSIV LINE B INBOARD</li> </ul>	
NOTE	
CAD System B to Drywell Control Air supplies the following MS	SIVs:
<ul> <li>3-FCV-1-37, MSIV LINE C INBOARD</li> <li>3-FCV-1-51, MSIV LINE D INBOARD</li> </ul>	
*****************	·********
Performance Step 8:	Critical _ Not Critical X
c. <b>MONITOR</b> inboard MSIV indication status for va	lves drifting closed.
Standard:	
Recognizes 3-FCV-1-37 and 51 closed	
SATUNSAT N/ACOMMENTS:	

JPM	g		
PAGE	8	OF	8

Perfor	mance Step 9:	Critical _ Not Critical X
9.	IF Drywell Control Air header supplied from CAD Sydepressurized, THEN <b>CLOSE</b> the following valves:	stem A shows indications of being
	• 0-FCV-84-5, CAD SYSTEM A N2 SHUTOFF	VALVE (Unit 3, Panel 3-9-54)
	• 3-FSV-84-48, CAD A CROSS TIE TO DW CO Panel 3-9-54)	ONTROL AIR (Unit 3,
Standa	ard:	
	N/A - No indications of being depressurized	
SAT_	_ UNSAT N/ACOMMENTS:	
	**************************************	**************************************
10.	IF Drywell Control Air header supplied from CAD B s depressurized, THEN <b>CLOSE</b> the following valves:	hows indications of being
	• 0-FCV-84-16, CAD SYSTEM B N2 SHUTOF	F VALVE (Unit 3, Panel 3-9-55)
	• 3-FSV-84-49, CAD B CROSS TIE TO DW CC 55)	ONTROL AIR (Unit 3, Panel 3-9-
<u>Standa</u>	ard:	
	Closes 0-FCV-84-16 and 3-FSV-84-49	
SAT_	_ UNSAT N/ACOMMENTS:	
STOP	TIME	

OPERATOR:	
RO SRO_	DATE:
JPM NUMBER:	h .
TASK NUMBER:	U-000-EM-60
TASK TITLE:	1-EOI Appendix-11H Alternate Pressure Control
K/A NUMBER: 271	000 A2.04 K/A RATING: RO 3.7 SRO: 4.1
TASK STANDARD:	1-EOI Appendix-11H simulated complete with bypass valves depressurizing the RPV
LOCATION OF PER	FORMANCE: Control Room
REFERENCES/PRO	CEDURES NEEDED: 1-EOI Appendix-11H
VALIDATION TIME	2: 10 minutes
MAX. TIME ALLOV	VED: (Completed for Time Critical JPMs only)
PERFORMANCE TI	ME:
Additional comment s	sheets attached? YES NO
RESULTS: SATIS	FACTORY UNSATISFACTORY
SIGNATURE:	DATE:

INITIAL CONDITIONS: You are an Operator on Unit 1, the Unit Supervisor has transitioned to 1-C-2 Emergency RPV Depressurization. During Emergency Depressurization only 1 MSRV could be opened, RPV pressure remains greater than 90 psig above Suppression Chamber Pressure. Offgas Post Treatment Radiation Monitor HI-HI-HI/INOP (1-XA-55-4C) is sealed in. Offgas System Isolation Valve 1-FCV-66-28 is closed. A gross fuel failure does not exist. SJAE A is in service and aligned to the Main Condenser. Main Steam Line D is not isolated.

**INITIATING CUE**: The Unit Supervisor directs you to perform 1-EOI Appendix-11H Alternate RPV Pressure Control Systems Main Condenser and rapidly depressurize the RPV.

**CAUTION: DO NOT OPERATE ANY PLANT EQUIPMENT!** 

\*

IN-PLANT: I will explain the initial conditions and state the task to be performed. <u>ALL STEPS WILL BE SIMULATED</u>. Do <u>NOT</u> operate any plant equipment. Touch STAAR may be carried out to the point of touching a label. If it becomes necessary to physically touch a control switch, use a non-conductive pointing device. I will provide initiating cues and indicate any steps to be discussed. When you complete the task successfully, the objective for this job performance measure will be satisfied. When your task is given, you will repeat the task and I will acknowledge "That's correct" (or That's incorrect", if applicable). When you have completed your assigned task, you will say, "My task is complete" and I will acknowledge that your task is complete.

\*

INITIAL CONDITIONS: You are an Operator on Unit 1, the Unit Supervisor has transitioned to 1-C-2 Emergency RPV Depressurization. During Emergency Depressurization only 1 MSRV could be opened, RPV pressure remains greater than 90 psig above Suppression Chamber Pressure. Offgas Post Treatment Radiation Monitor HI-HI-HI/INOP (1-XA-55-4C) is sealed in. Offgas System Isolation Valve 1-FCV-66-28 is closed. A gross fuel failure does not exist. SJAE A is in service and aligned to the Main Condenser. Main Steam Line D is not isolated.

**INITIATING CUE**: The Unit Supervisor directs you to perform 1-EOI Appendix-11H Alternate RPV Pressure Control Systems Main Condenser and rapidly depressurize the RPV.

CAUTION: DO NOT OPERATE ANY PLANT EQUIPMENT!

	RT TIME
	mance Step 1: Critical _ Not Critical X
1.	IF ANY indication of gross fuel failure exists, THEN BEFORE continuing in this procedure, <b>NOTIFY</b> SED that offsite release rate limits may be exceeded.
Standa	ard:
	Given in initial conditions that a gross fuel failure does not exist.
SAT_	UNSAT N/ACOMMENTS:
	**************************************
2.	VERIFY Main Condenser Off-Gas is aligned to the stack as follows:
	a. IF OG POST TRTMT RAD MONITOR HI-HI-HI/INOP 1-RA-90-265C Annunciator (1-XA-55-4C, Window 35) is sealed in, THEN <b>JUMPER</b> Off-Gas Post Treatment Radiation Hi-Hi-Hi Isolation to 1-FCV-66-28, OFFGAS SYSTEM ISOLATION VALVE, as follows:
	1) <b>REFER</b> to Attachment 1 and <b>OBTAIN</b> one banana jack jumper from Control Room EOI Equipment Storage Box.
Standa	ard:
	Identifies where to obtain the banana jack jumper
SAT_	_ UNSAT N/ACOMMENTS:
CUE	: When location of banana jack jumper identified, Operator has the jumper

JPM h PAGE 5 OF 8

Performance Step 3:	**************************************
2)	LOCATE terminal strip BB, Panel 1-9-53 Bay 1 Rear.
ŕ	JUMPER BB-59 to BB-60 (Panel 1-9-53).
,	<b>30M EX</b> BB-39 to BB-00 (Faller 1-9-33).
Standard:	
Simulates insta	lling jumper on terminal strip BB from BB-59 to BB-60
SATUNSATN	/ACOMMENTS:
CUE: When si	mulated jumper installed from BB-59 to BB-60
******	*********************
Performance Step 4:	Critical Not Critical X
b. <b>VERIF</b> (Panel 1	Y <b>OPEN</b> 1-FCV-66-28, OFFGAS SYSTEM ISOLATION VALVE 1-9-53).
Standard:	
Checks position	n of 1-FCV-66-28
SAT UNSAT N	/ACOMMENTS:
CUE: 1-FCV-6	66-28 is has Red light On and Green light Off. Valve is Open

		PAGE 6 OF 8
****	**************	***********
Perfo	ormance Step 5: Critical Not Critical X	
3.	VERIFY SJAE 1A or 1B in service and aligned	d to Main Condenser (Panel 9-7).
Stand	ard:	
	Given in initial conditions	
SAT_	UNSATN/ACOMMENTS:	
****	************	***********
Perfor	rmance Step 6:	Critical _ Not Critical X
4.	IF EITHER of the following exists:	
	• 1-FCV-66-28, OFFGAS SYSTEM ISOLATION	ON VALVE, CANNOT be opened,
	• SJAEs CANNOT be placed in service or align	ned to Main Condenser,
Standa	ard:	
	Step is NA, Operator just opened 1-FCV-66-28	

SAT\_\_UNSAT\_\_N/A \_\_COMMENTS:\_

JPM h

JPM h PAGE 7 OF 8

*************************					
Perform	mance Step 7:	Critical X Not Critical			
5.	IF ANY Main Steam Line is NOT isolated, THEN CONTINUE in this procedure at Step 12.				
Standa	ard:				
	Continues in procedure at step 12				
SAT	_ UNSAT N/ACOMMENTS:				
Perforn	**************************************	Critical X Not Critical			
12.	<b>OPEN</b> Turbine Bypass valves as necessary to rapidly depr	essurize RPV.			
Standa	<del>rd:</del>				
raise pı	Simulates opening Turbine Bypass Valves by depressing Bushbutton until all 9 Turbine Bypass valves are Open.	ypass Valve Opening Jack			
SAT	_UNSATN/ACOMMENTS:				
CUI	Pushbutton depressed, bypass valve #1 indication light on and green light off, bypass valve #2, #3, light on green light off 0% to 100%. Reactor Pressure #2.	#4, #5, #6, #7, #8 and #9 red			

Performance Step 9:	Critical _	Not Critical X		
<b>NOTIFY</b> Unit Supervisor that 1-EOI Appendix-11H is complete and rapidly depressurizing the RPV.				
Standard:				
Notifies Unit Supervisor				
SAT UNSAT N/ACOMMENTS:				
CUE: Acknowledge notification				

END OF TASK

STOP TIME\_\_\_\_

OPERATOR:			
RO SRO	O DAT	E:	
JPM NUMBER:	h		
TASK NUMBER:	U-000-EM-60		
TASK TITLE:	2-EOI Appendix-111	H Alternate Pressure Control	
K/A NUMBER: 2	71000 A2.04	K/A RATING: RO 3.7 SRO: 4.1	
TASK STANDAR	D: 2-EOI Appendix-111 depressurizing the R	H simulated complete with bypass valves PV	
LOCATION OF PI	ERFORMANCE: Contr	ol Room	
REFERENCES/PR	OCEDURES NEEDED:	2-EOI Appendix-11H	
VALIDATION TIME:			
MAX. TIME ALLOWED: (Completed for Time Critical JPMs only)			
PERFORMANCE	TIME:		
COMMENTS:			
Additional commer	nt sheets attached? YES	NO	
RESULTS: SAT	TISFACTORY	UNSATISFACTORY	
SIGNATURE:	EXAMINER	DATE:	

INITIAL CONDITIONS: You are an Operator on Unit 2, the Unit Supervisor has transitioned to 2-C-2 Emergency RPV Depressurization. During Emergency Depressurization only 1 MSRV could be opened, RPV pressure remains greater than 90 psig above Suppression Chamber Pressure. Offgas Post Treatment Radiation Monitor HI-HI-HI/INOP (2-XA-55-4C) is sealed in. Offgas System Isolation Valve 2-FCV-66-28 is closed. A gross fuel failure does not exist. SJAE A is in service and aligned to the Main Condenser. Main Steam Line D is not isolated.

**INITIATING CUE**: The Unit Supervisor directs you to perform 2-EOI Appendix-11H Alternate RPV Pressure Control Systems Main Condenser and rapidly depressurize the RPV.

\*

IN-PLANT: I will explain the initial conditions and state the task to be performed. <u>ALL STEPS WILL BE SIMULATED</u>. Do <u>NOT</u> operate any plant equipment. Touch STAAR may be carried out to the point of touching a label. If it becomes necessary to physically touch a control switch, use a non-conductive pointing device. I will provide initiating cues and indicate any steps to be discussed. When you complete the task successfully, the objective for this job performance measure will be satisfied. When your task is given, you will repeat the task and I will acknowledge "That's correct" (or That's incorrect", if applicable). When you have completed your assigned task, you will say, "My task is complete" and I will acknowledge that your task is complete.

**INITIAL CONDITIONS**: You are an Operator on Unit 2, the Unit Supervisor has transitioned to 2-C-2 Emergency RPV Depressurization. During Emergency Depressurization only 1 MSRV could be opened, RPV pressure remains greater than 90 psig above Suppression Chamber Pressure. Offgas Post Treatment Radiation Monitor HI-HI-HI/INOP (2-XA-55-4C) is sealed in. Offgas System Isolation Valve 2-FCV-66-28 is closed. A gross fuel failure does not exist. SJAE A is in service and aligned to the Main Condenser. Main Steam Line D is not isolated.

**INITIATING CUE**: The Unit Supervisor directs you to perform 2-EOI Appendix-11H Alternate RPV Pressure Control Systems Main Condenser and rapidly depressurize the RPV.

******************	************	*******
Performance Step 1:	Critic	al _ Not Critical X
1. IF ANY indication of gro THEN BEFORE continu- limits may be exceeded.	oss fuel failure exists, ing in this procedure, <b>NOTIFY</b> SED that	t offsite release rate
Standard:		
Given in initial condition	s that a gross fuel failure does not exist.	
SATUNSATN/ACO	MMENTS:	
**************************************	**************************************	**************************************
2. <b>VERIFY</b> Main Condens	er Off-Gas is aligned to the stack as follo	ws:
(2-XA-55-4C, W Treatment Radiat	TMT RAD MONITOR HI-HI-HI/INOP A indow 35) is sealed in, THEN <b>JUMPER</b> ion Hi-Hi-Hi Isolation to 2-FCV-66-28, TION VALVE, as follows:	Off-Gas Post
	o Attachment 1 and <b>OBTAIN</b> one banan oom EOI Equipment Storage Box.	a jack jumper from
Standard:		
Identifies where to obtain	the banana jack jumper	
SAT UNSAT N/ACO	MMENTS:	,
CUE: When location of	of banana jack jumper identified, Operato	w has the jumper
TO TOURISH (	o camana jaon jampor racinimon, Operate	n nas uic jumper

JPM h PAGE 5 OF 8

- ^		********	
Performance S	Step 3:		Critical $\underline{X}$ Not Critical
	2) <b>LOC</b>	CATE terminal strip BB,	Panel 9-53, Rear.
	3) <b>JUM</b>	<b>IPER</b> BB-59 to BB-60, P	anel 9-53.
Standard:			
Simul	ates installing	jumper on terminal strip E	BB from BB-59 to BB-60
SATUNSA	AT N/A	COMMENTS:	
CUE:	When simular	ted jumper installed from	BB-59 to BB-60
-			
*******	*****	*******	***********
Performance S	Step 4:		Critical _ Not Critical X
b.			
0.	VERIFY Of Panel 9-53.	<b>PEN</b> 2-FCV-66-28, OFF	GAS SYSTEM ISOLATION VALVE
Standard:		<b>PEN</b> 2-FCV-66-28, OFF0	GAS SYSTEM ISOLATION VALVE
Standard:			GAS SYSTEM ISOLATION VALVE
Standard: Check	Panel 9-53. s position of 2		GAS SYSTEM ISOLATION VALVE
Standard: Check	Panel 9-53. s position of 2	-FCV-66-28	GAS SYSTEM ISOLATION VALVE
Standard: Check SAT UNSA	Panel 9-53. s position of 2	-FCV-66-28 _COMMENTS:	Green light Off. Valve is Open
Standard: Check SAT UNSA	Panel 9-53. s position of 2	-FCV-66-28 _COMMENTS:	

		PAGE 6 OF 8
****	*************	************
Perfo <sub>1</sub>	mance Step 5:	Critical $\_$ Not Critical $\underline{X}$
3.	VERIFY SJAE 2A or 2B in service and alig	ned to Main Condenser (Panel 9-7).
Stand	ard:	
	Given in initial conditions	
SAT_	UNSAT N/ACOMMENTS:	· · · · · · · · · · · · · · · · · · ·
****	**********	************************************
	mance Step 6:	Critical _ Not Critical X
4.	IF EITHER of the following exists:	
	• 2-FCV-66-28, OFFGAS SYSTEM ISOLATOR	ΓΙΟΝ VALVE, CANNOT be opened,
	• SJAEs CANNOT be placed in service or al	igned to Main Condenser,
Standa	ard:	
	Step is NA, Operator just opened 2-FCV-66-	28

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

JPM h

JPM h PAGE 7 OF 8

******	******************	*********
Performa	nce Step 7:	Critical X Not Critical
	F ANY Main Steam Line is NOT isolated, HEN <b>CONTINUE</b> in this procedure at Step 12.	
Standard:		
Co	ontinues in procedure at step 12	
SAT U	JNSATN/ACOMMENTS:	
*****	*************	*********
Performan	nce Step 8:	Critical X Not Critical
12. <b>O</b>	PEN Turbine Bypass valves as necessary to rapidly de	pressurize RPV.
Standard:		
	mulates opening Turbine Bypass Valves by depressing abutton until all 9 Turbine Bypass valves are Open.	Bypass Valve Opening Jack
SATU	JNSATN/ACOMMENTS:	
CUE:	Pushbutton depressed, bypass valve #1 indicat light on and green light off, bypass valve #2, # light on green light off 0% to 100%. Reactor F	43, #4, #5, #6, #7, #8 and #9 red

JPM h PAGE 8 OF 8

Performance Step 9:	Critical _ Not Critical X
<b>NOTIFY</b> Unit Supervisor that 2-EOI Appendix-1 depressurizing the RPV.	11H is complete and rapidly
Standard:	
Notifies Unit Supervisor	
SATUNSAT N/ACOMMENTS:	
CUE: Acknowledge notification	

END OF TASK

STOP TIME\_\_\_\_

()

OPERATOR:
RO
JPM NUMBER: h
TASK NUMBER: U-000-EM-60
TASK TITLE: 3-EOI Appendix-11H Alternate Pressure Control
K/A NUMBER: 271000 A2.04 K/A RATING: RO 3.7 SRO: 4.1
TASK STANDARD: 3-EOI Appendix-11H simulated complete with bypass valves depressurizing the RPV
LOCATION OF PERFORMANCE: Control Room
REFERENCES/PROCEDURES NEEDED: 3-EOI Appendix-11H
VALIDATION 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: You are an Operator on Unit 3, the Unit Supervisor has transitioned to 3-C-2 Emergency RPV Depressurization. During Emergency Depressurization only 1 MSRV could be opened, RPV pressure remains greater than 90 psig above Suppression Chamber Pressure. Offgas Post Treatment Radiation Monitor HI-HI-HI/INOP (3-XA-55-4C) is sealed in. Offgas System Isolation Valve 3-FCV-66-28 is closed. A gross fuel failure does not exist. SJAE A is in service and aligned to the Main Condenser. Main Steam Line D is not isolated.

**INITIATING CUE**: The Unit Supervisor directs you to perform 3-EOI Appendix-11H Alternate RPV Pressure Control Systems Main Condenser and rapidly depressurize the RPV.

\*

**IN-PLANT:** I will explain the initial conditions and state the task to be performed. <u>ALL STEPS WILL BE SIMULATED</u>. Do <u>NOT</u> operate any plant equipment. Touch STAAR may be carried out to the point of touching a label. If it becomes necessary to physically touch a control switch, use a non-conductive pointing device. I will provide initiating cues and indicate any steps to be discussed. When you complete the task successfully, the objective for this job performance measure will be satisfied. When your task is given, you will repeat the task and I will acknowledge "That's correct" (or That's incorrect", if applicable). When you have completed your assigned task, you will say, "My task is complete" and I will acknowledge that your task is complete.

\*

INITIAL CONDITIONS: You are an Operator on Unit 3, the Unit Supervisor has transitioned to 3-C-2 Emergency RPV Depressurization. During Emergency Depressurization only 1 MSRV could be opened, RPV pressure remains greater than 90 psig above Suppression Chamber Pressure. Offgas Post Treatment Radiation Monitor HI-HI-HI/INOP (3-XA-55-4C) is sealed in. Offgas System Isolation Valve 3-FCV-66-28 is closed. A gross fuel failure does not exist. SJAE A is in service and aligned to the Main Condenser. Main Steam Line D is not isolated.

**INITIATING CUE**: The Unit Supervisor directs you to perform 3-EOI Appendix-11H Alternate RPV Pressure Control Systems Main Condenser and rapidly depressurize the RPV.

	RT TIME ********************************	*****	******			
Perfor	ormance Step 1:	Critical _	Not Critical X			
1.	<ol> <li>IF ANY indication of gross fuel failure exists, THEN BEFORE continuing in this procedure, NOTIFY SED that offsite release rate limits may be exceeded.</li> </ol>					
Standa	lard:	,				
	Given in initial conditions that a gross fuel failure does not e	xist.				
SAT_	UNSATN/ACOMMENTS:					
	**************************************		**************************************			
2.						
	<ul> <li>a. IF OG POST TRTMT RAD MONITOR HI-HI-HI/I (3-XA-55-4C, Window 35) is sealed in, THEN JUN Treatment Radiation Hi-Hi-Hi Isolation to 3-FCV-6 SYSTEM ISOLATION VALVE, as follows:</li> <li>1) REFER to Attachment 1 and OBTAIN one</li> </ul>	MPER Off 66-28, OFF banana ja	F-Gas Post FGAS			
Standa	Control Room EOI Equipment Storage Box.		,			
Staria						
	Identifies where to obtain the banana jack jumper					
SAT_	UNSAT N/ACOMMENTS:					
CUE	E: When location of banana jack jumper identified, C	perator ha	s the jumper			

JPM h PAGE 5 OF 8

***********	****************************
Performance Step 3:	Critical X Not Critical
2)	LOCATE terminal strip BB, Panel 3-9-53, Rear.
3)	JUMPER BB-59 to BB-60 Panel 3-9-53.
Standard:	
Simulates instal	ling jumper on terminal strip BB from BB-59 to BB-60
SAT UNSAT N	'ACOMMENTS:
CUE: When sin	nulated jumper installed from BB-59 to BB-60
******	********************
Performance Step 4:	Critical _ Not Critical X
b. <b>VERIF</b> Panel 3-	Y OPEN 3-FCV-66-28, OFFGAS SYSTEM ISOLATION VALVE 9-53.
Standard:	
Checks position	of 3-FCV-66-28
SAT UNSAT N/	ACOMMENTS:
CUE: 3-FCV-6	6-28 is has Red light On and Green light Off. Valve is Open

JPM	h		
PAGE	6	OF	8

*****************	********
Performance Step 5:	Critical _ Not Critical X
3. <b>VERIFY</b> SJAE 3A or 3B in service and aligned to Main	Condenser (Panel 3-9-7).
Standard:	•
Given in initial conditions	
SAT UNSAT N/ACOMMENTS:	
******************	*********
Performance Step 6:	Critical _ Not Critical X
4. IF EITHER of the following exists:	
• 3-FCV-66-28, OFFGAS SYSTEM ISOLATION VALV	E, CANNOT be opened,
• SJAEs CANNOT be placed in service or aligned to Mai	n Condenser,
Standard:	
Step is NA, Operator just verified open 3-FCV-66-28	
SAT UNSAT N/ACOMMENTS:	

(\*\*)

0

JPM h PAGE 7 OF 8

******	********	*******	******	******	******
Performanc	ce Step 7:	*		Critical X	Not Critical
		eam Line is NOT isola IUE in this procedure a	•		
Standard:					
Cor	ntinues in prod	cedure at step 12			
SATUN	NSAT N/A	COMMENTS:			
Performanc	ce Step 8:	**************************************		Critical X	Not Critical
raise pushb	utton until al	g Turbine Bypass Valv 9 Turbine Bypass valv COMMENTS:	es are Open.	pass Valve	Opening Jack
CUE:	light o	ntton depressed, bypass n and green light off, b n green light off 0% to	ypass valve #2, #3, #	<i>1</i> 4, #5, #6, <sup>-</sup>	#7, #8 and #9 red

Performance Step 9:	Critical _ Not Critical X
<b>NOTIFY</b> Unit Supervisor that 3-EOI Appendix-11 depressurizing the RPV.	lH is complete and rapidly
Standard:	
Notifies Unit Supervisor	
SAT UNSAT N/ACOMMENTS:	
CUE: Acknowledge notification	
Acknowledge normeation	

END OF TASK

STOP TIME\_\_\_\_

JPM i PAGE 1 OF 7

OPERATOR	•		
RO	SRO_	DATE	3:
JPM NUMBI	ER:	i	
TASK NUMI	BER:	U-000-EM-19	
TASK TITLE	E:	1-EOI Appendix-1A	Removal of RPS SCRAM Fuses
K/A NUMBE	ER: 2120	)00 A2.20	K/A RATING: RO 4.1 SRO 4.2
TASK STAN	DARD:	Simulate removal of	SCRAM Fuses IAW 1-EOI Appendix-1A
LOCATION (	OF PER	FORMANCE: Plant	
REFERENCE	ES/PROC	CEDURES NEEDED:	1-EOI Appendix-1A
VALIDATIO	N TIME	: 10 minutes	
MAX. TIME	ALLOW	ED: (Completed for T	ime Critical JPMs only)
PERFORMA	NCE TI	ME:	
COMMENTS	S:		
•			
Additional con	mment s	heets attached? YES_	NO
RESULTS:	SATIS	FACTORY	UNSATISFACTORY
SIGNATURE	•	EXAMINER	DATE:

**INITIAL CONDITIONS**: You are the Extra Operator. The Unit 1 reactor has scrammed and all control rods did not fully insert. All eight scram solenoid lights on Panel 9-5 are still illuminated. EOI-1 has been entered and followed to RC/Q-23. The Scram Discharge Volume Vent/Drain Valves indicate closed on panel 1-9-5.

**INITIATING CUE**: The Unit Supervisor directs you to remove the RPS scram solenoid fuses in accordance with 1-EOI Appendix 1A, Removal and Replacement of RPS Scram Solenoid Fuses.

\*

IN-PLANT: I will explain the initial conditions and state the task to be performed. <u>ALL STEPS WILL BE SIMULATED</u>. Do <u>NOT</u> operate any plant equipment. Touch STAAR may be carried out to the point of touching a label. If it becomes necessary to physically touch a control switch, use a non-conductive pointing device. I will provide initiating cues and indicate any steps to be discussed. When you complete the task successfully, the objective for this job performance measure will be satisfied. When your task is given, you will repeat the task and I will acknowledge "That's correct" (or That's incorrect", if applicable). When you have completed your assigned task, you will say, "My task is complete" and I will acknowledge that your task is complete.

\*

**INITIAL CONDITIONS**: You are the Extra Operator. The Unit 1 reactor has scrammed and all control rods did not fully insert. All eight scram solenoid lights on Panel 9-5 are still illuminated. EOI-1 has been entered and followed to RC/Q-23. The Scram Discharge Volume Vent/Drain Valves indicate closed on panel 1-9-5.

**INITIATING CUE**: The Unit Supervisor directs you to remove the RPS scram solenoid fuses in accordance with 1-EOI Appendix 1A, Removal and Replacement of RPS Scram Solenoid Fuses.

START TIME	
******************	********
Performance Step 1:	Critical $\underline{X}$
1. <b>VERIFY CLOSED</b> Scram Discharge Volume Vent and DischarGE VOLUME VENT/DRAIN VLVS display on	
Standard:	
Given in initial conditions	
SATUNSAT N/ACOMMENTS:	
**************************************	**************************************
2. <b>DISPATCH</b> personnel to the Auxiliary Instrument Room to	o perform the following:
a. <b>REFER</b> to Attachment 1 and OBTAIN fuse pullers box.	from EOI Equipment Storage
Standard:	
Simulate unlocking EOI Equipment storage and obtaining fu	se pullers
SATUNSAT N/ACOMMENTS:	
CUE: When location of EOI Storage Box identified, Oper	ator has the fuse pullers

JPM	i		
PAGE	5	OF	7

\*

#### Performance Step 3:

Critical X Not Critical

- b. **LOCATE** Terminal Strip CC inside 1-PNLA-009-0015, Bay 2, Rear.
- c. **REMOVE** the following fuses (located at bottom of terminal strip CC, 1-PNLA-009-0015):

### RPS BUS "A"

BLOCK	NUMBER	FUSE ID
CC	FOUR (4)	1-FU1-085-0037AA
CC	FIVE (5)	1-FU1-085-0039A/2
CC	SIX (6)	1-FU1-085-0039A/3
CC	SEVEN (7)	1-FU1-085-0039A/4

# Standard:

Identifies terminal strip and simulates removing listed fuses

SAT	UNSAT	N/A	COMMENTS:	·	

CUE: When location of proper Fuse is indicated the Fuse has been removed

\*

#### Performance Step 4:

Critical X Not Critical

- d. **LOCATE** Terminal Strip CC inside 1-PNLA-009-0017, Bay 2, Rear.
- e. **REMOVE** the following fuses (located at bottom of terminal strip CC, 1-PNLA-009-0017):

RPS BUS "B"

BLOCK	NUMBER	FUSE ID
CC	FOUR (4)	1-FU1-085-0037BA
CC	FIVE (5)	1-FU1-085-0039B/2
CC	SIX (6)	1-FU1-085-0039B/3
CC	SEVEN (7)	1-FU1-085-0039B/4

# Standard:

Identifies terminal strip and simulates removing listed fuses

SAT	UNSAT	TAT / A	COLO COLO COLO		
NA I		N/A	COMMENTS:		
DILL.	OTABLE	T 4/ 7 F	COMMINITING.		

CUE: When location of proper Fuse is indicated the Fuse has been removed

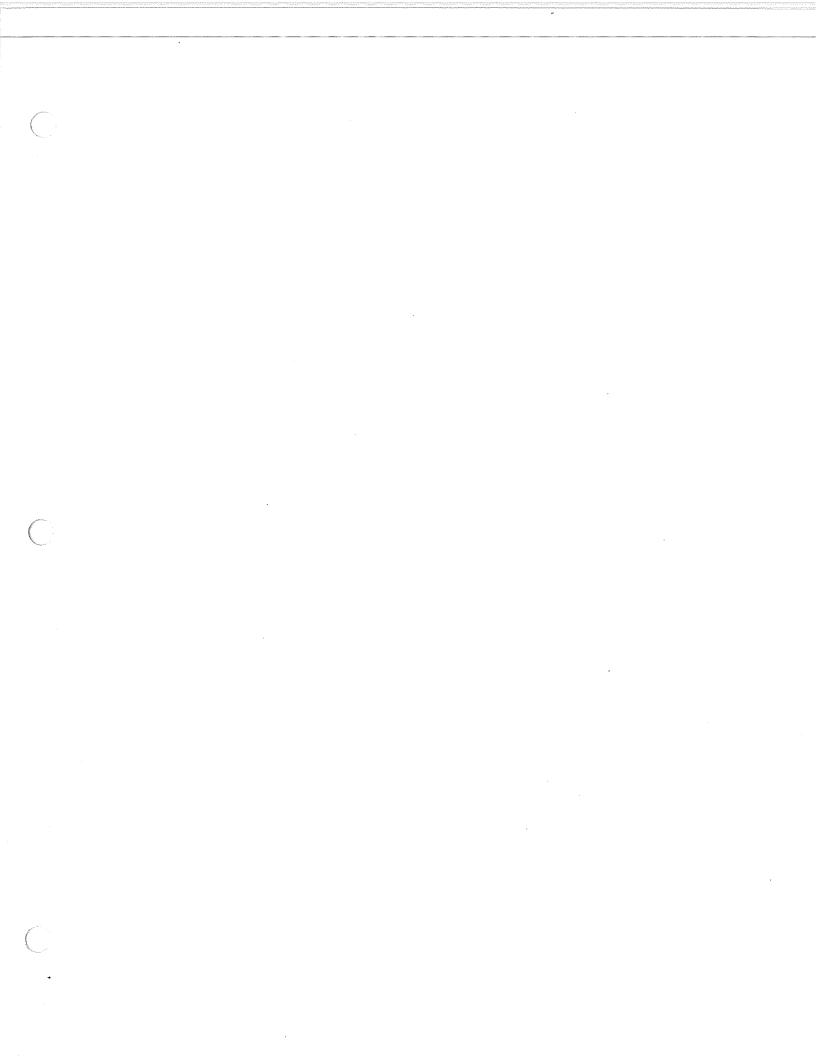
	PAGE 7 OF 7
***************	***********
Performance Step 5:	Critical $\_$ Not Critical $\underline{X}$
f. WHEN ALL fuses are removed, THEN N	NOTIFY Unit Operator.
Standard:	
Notifies Unit 1 Operator All RPS Fuse removed	
SATUNSAT N/ACOMMENTS:	
CUE: Acknowledge Notification, SRO Does not	direct replacement of fuses

JPM

i

END OF TASK

STOP TIME\_\_\_\_



JPM i PAGE 1 OF 7

OPERATOR:		
RO SRO_	DATE	:
JPM NUMBER:	i	
TASK NUMBER:	U-000-EM-19	
TASK TITLE:	2-EOI Appendix-1A	Removal of RPS SCRAM Fuses
K/A NUMBER: 2120	000 A2.20	K/A RATING: RO 4.1 SRO 4.2
TASK STANDARD:	Simulate removal of S	SCRAM Fuses IAW 2-EOI Appendix-1A
LOCATION OF PER	FORMANCE: Plant	
REFERENCES/PRO	CEDURES NEEDED:	2-EOI Appendix-1A
VALIDATION TIME	: 10 minutes	
MAX. TIME ALLOW	VED: (Completed for T	ime Critical JPMs only)
PERFORMANCE TI	ME:	
COMMENTS:		
Additional comment s	sheets attached? YES _	NO
RESULTS: SATIS	FACTORY	UNSATISFACTORY
SIGNATURE:	EXAMINER	DATE:

**INITIAL CONDITIONS**: You are the Extra Operator. The Unit 2 reactor has scrammed and all control rods did not fully insert. All eight scram solenoid lights on Panel 9-5 are still illuminated. EOI-1 has been entered and followed to RC/Q-23. The Scram Discharge Volume Vent/Drain Valves indicate closed on panel 2-9-5.

**INITIATING CUE**: The Unit Supervisor directs you to remove the RPS scram solenoid fuses in accordance with 2-EOI Appendix 1A, Removal and Replacement of RPS Scram Solenoid Fuses.

\*

IN-PLANT: I will explain the initial conditions and state the task to be performed. <u>ALL STEPS WILL BE SIMULATED</u>. Do <u>NOT</u> operate any plant equipment. Touch STAAR may be carried out to the point of touching a label. If it becomes necessary to physically touch a control switch, use a non-conductive pointing device. I will provide initiating cues and indicate any steps to be discussed. When you complete the task successfully, the objective for this job performance measure will be satisfied. When your task is given, you will repeat the task and I will acknowledge "That's correct" (or That's incorrect", if applicable). When you have completed your assigned task, you will say, "My task is complete" and I will acknowledge that your task is complete.

\*

**INITIAL CONDITIONS**: You are the Extra Operator. The Unit 2 reactor has scrammed and all control rods did not fully insert. All eight scram solenoid lights on Panel 9-5 are still illuminated. EOI-1 has been entered and followed to RC/Q-23. The Scram Discharge Volume Vent/Drain Valves indicate closed on panel 2-9-5.

**INITIATING CUE**: The Unit Supervisor directs you to remove the RPS scram solenoid fuses in accordance with 2-EOI Appendix 1A, Removal and Replacement of RPS Scram Solenoid Fuses.

T TIME	•
*****************	********
mance Step 1:	Critical _ Not Critical X
ard:	
Given in initial conditions	
_UNSAT N/ACOMMENTS:	
**************************************	**************************************
<b>DISPATCH</b> personnel to Unit 2 Auxiliary Instrument Roc	m to perform the following:
a. <b>REFER</b> to Attachment 1 and OBTAIN fuse pullers box.	from EOI Equipment Storage
<u>ırd:</u>	
Simulate unlocking EOI Equipment storage and obtaining for	se pullers
_UNSAT N/ACOMMENTS:	
When location of EOI Storage Box identified, Open	rator has the fuse pullers
	**************************************

******* Performance	•	******	*************************************	
b.	LOCATE Termin	LOCATE Terminal Strip CC inside Panel 9-15, Bay 2, Rear.		
c.	c. <b>REMOVE</b> the following fuses (located at bottom of terminal strip CC, Panel 9-15):			
		RPS BUS "A"		
	BLOCK	NUMBER	FUSE ID	
	CC	FOUR (4)	2-FU1-085-0037AA	
	CC	FIVE (5)	2-FU1-085-0039A/2	
•	CC	SIX (6)	2-FU1-085-0039A/3	
	CC	SEVEN (7)	2-FU1-085-0039A/4	
Standard:				
Identifies terminal strip and simulates removing listed fuses				
SATUNSAT N/ACOMMENTS:				

When location of proper Fuse is indicated the Fuse has been removed

CUE:

Performance Step 4: Critical X Not Critical d. LOCATE Terminal Strip CC inside Panel 9-17, Bay 2, Rear. e. **REMOVE** the following fuses (located at bottom of terminal strip CC, Panel 9-17): RPS BUS "B" **BLOCK NUMBER FUSE ID** CCFOUR (4) 2-FU1-085-0037BA CCFIVE (5) 2-FU1-085-0039B/2 CCSIX (6) 2-FU1-085-0039B/3 CCSEVEN (7) 2-FU1-085-0039B/4 Standard: Identifies terminal strip and simulates removing listed fuses SAT\_\_UNSAT\_\_ N/A \_\_COMMENTS:\_

When location of proper Fuse is indicated the Fuse has been removed

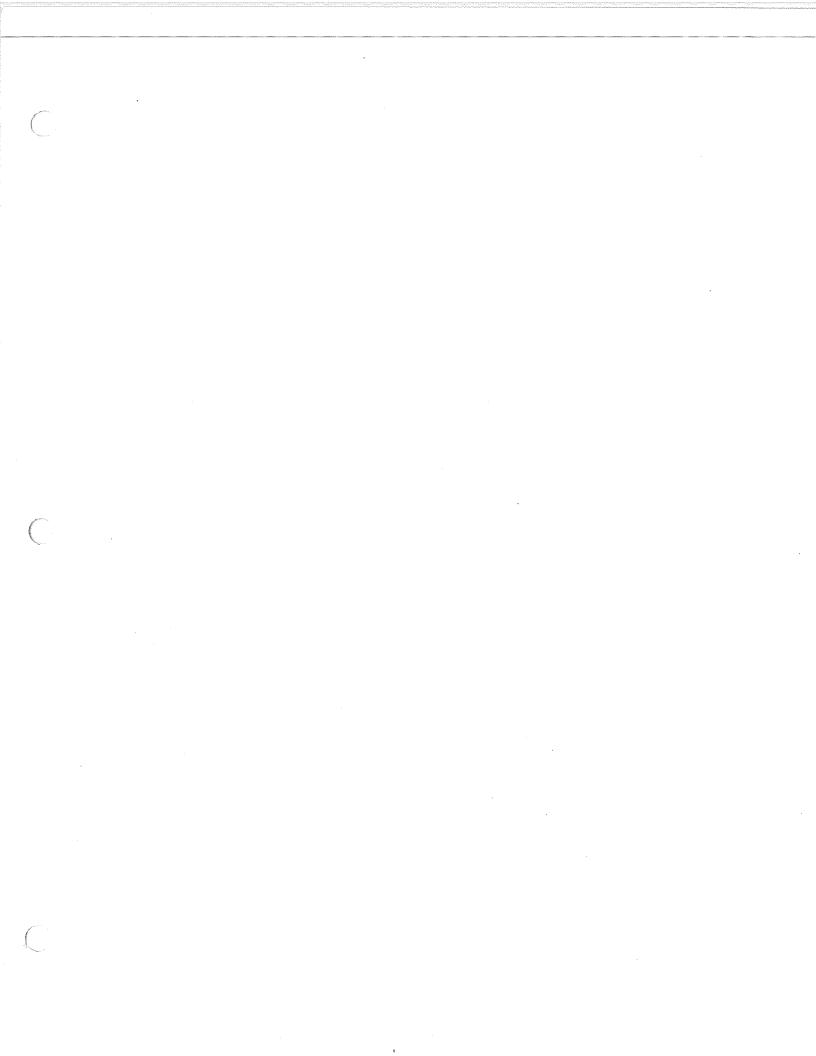
CUE:

	PAGE 7 OF 7
***************	***********
Performance Step 5:	Critical _ Not Critical X
f. WHEN ALL fuses are removed, THEN <b>NO</b>	<b>FIFY</b> Unit Operator.
Standard:	
Notifies Unit 2 Operator All RPS Fuse removed	
SAT UNSAT N/ACOMMENTS:	
CUE: Acknowledge Notification, SRO Does not dir	rect replacement of fuses

JPM i

END OF TASK

STOP TIME\_\_\_\_



JPM i PAGE 1 OF 7

OPERATOR:			
RO SRO_	DATE	::	
JPM NUMBER:	i		
TASK NUMBER:	U-000-EM-19		
TASK TITLE:	3-EOI Appendix-1A	Removal of RPS SCRAM Fuses	
K/A NUMBER: 212	000 A2.20	K/A RATING: RO 4.1 SRO 4.2	
TASK STANDARD: Simulate removal of SCRAM Fuses IAW 3-EOI Appendix-1A			
LOCATION OF PERFORMANCE: Plant			
REFERENCES/PROCEDURES NEEDED: 3-EOI Appendix-1A			
VALIDATION TIME: 10 minutes			
MAX. TIME ALLOWED: (Completed for Time Critical JPMs only)			
PERFORMANCE TIME:			
COMMENTS:			
Additional comment	sheets attached? YES_	NO	
RESULTS: SATIS	SFACTORY	UNSATISFACTORY	
SIGNATURE:	EXAMINER	DATE:	

**INITIAL CONDITIONS**: You are the Extra Operator. The Unit 3 reactor has scrammed and all control rods did not fully insert. All eight scram solenoid lights on Panel 9-5 are still illuminated. EOI-1 has been entered and followed to RC/Q-23. The Scram Discharge Volume Vent/Drain Valves indicate closed on panel 3-9-5.

**INITIATING CUE**: The Unit Supervisor directs you to remove the RPS scram solenoid fuses in accordance with 3-EOI Appendix 1A, Removal and Replacement of RPS Scram Solenoid Fuses.

\*

IN-PLANT: I will explain the initial conditions and state the task to be performed. <u>ALL STEPS WILL BE SIMULATED</u>. Do <u>NOT</u> operate any plant equipment. Touch STAAR may be carried out to the point of touching a label. If it becomes necessary to physically touch a control switch, use a non-conductive pointing device. I will provide initiating cues and indicate any steps to be discussed. When you complete the task successfully, the objective for this job performance measure will be satisfied. When your task is given, you will repeat the task and I will acknowledge "That's correct" (or That's incorrect", if applicable). When you have completed your assigned task, you will say, "My task is complete" and I will acknowledge that your task is complete.

\*

**INITIAL CONDITIONS**: You are the Extra Operator. The Unit 3 reactor has scrammed and all control rods did not fully insert. All eight scram solenoid lights on Panel 9-5 are still illuminated. EOI-1 has been entered and followed to RC/Q-23. The Scram Discharge Volume Vent/Drain Valves indicate closed on panel 3-9-5.

**INITIATING CUE**: The Unit Supervisor directs you to remove the RPS scram solenoid fuses in accordance with 3-EOI Appendix 1A, Removal and Replacement of RPS Scram Solenoid Fuses.

STAR	T TIME					
****	******************	******	******			
Perfor	mance Step 1:	Critical _	Not Critical X			
1.	<b>VERIFY CLOSED</b> Scram Discharge Volume Vent and Drain Valves at the SCRAM DISCHARGE VOLUME VENT/DRAIN VLVS display on panel 9-5.					
Standa	urd:					
	Given in initial conditions					
SAT_	_UNSATN/ACOMMENTS:					
	**************************************		**************************************			
2.	DISPATCH personnel to Unit 3 Auxiliary Instrument Room	m to perfoi	m the following:			
	a. <b>REFER</b> to Attachment 1 and OBTAIN fuse pullers box.	from EOI	Equipment Storage			
Standa	<u>ırd:</u>					
	Simulate unlocking EOI Equipment storage and obtaining fuse pullers					
SAT_	UNSATN/ACOMMENTS:		·			
CUE:	When location of EOI Storage Box identified, Oper	ator has the	e fuse pullers			

JPM	i		
PAGE	5	OF	7

***********************************
-------------------------------------

## Performance Step 3:

Critical X Not Critical

- b. **LOCATE** Terminal Strip CC inside Panel 9-15, Bay 2, Rear.
- c. **REMOVE** the following fuses (located at bottom of terminal strip CC, Panel 9-15):

RPS BUS "A"

BLOCK	NUMBER	FUSE ID
CC	FOUR (4)	3-FU1-085-0037AA
CC	FIVE (5)	3-FU1-085-0039A/2
CC	SIX (6)	3-FU1-085-0039A/3
CC	SEVEN (7)	3-FU1-085-0039A/4

## Standard:

Identifies terminal strip and simulates removing listed fuses

SAT UNS	SATN/ACOMMENTS:	
CUE:	When location of proper Fuse is indicated the Fuse has been removed	

********************************					
Perform	nance S	Step 4: Critical $\underline{X}$ Not Critical			
	d.	LOCATE Terminal Strip CC inside Panel 9-17, Bay 2, Rear.			

e. **REMOVE** the following fuses (located at bottom of terminal strip CC, Panel 9-17):

RPS BUS "B"

BLOCK	NUMBER	FUSE ID
CC	FOUR (4)	3-FU1-085-0037BA
CC	FIVE (5)	3-FU1-085-0039B/2
CC	SIX (6)	3-FU1-085-0039B/3
CC	SEVEN (7)	3-FU1-085-0039B/4

## Standard:

Identifies terminal strip and simulates removing listed fuses

SAT UN	SATN/ACOMMENTS:
CUE:	When location of proper Fuse is indicated the Fuse has been removed

	JPM i PAGE 7 OF 7
*******************	*******
Performance Step 5:	ritical _ Not Critical X
f. WHEN ALL fuses are removed, THEN <b>NOTIFY</b> Uni	t Operator.
Standard:	
Notifies Unit 3 Operator All RPS Fuse removed	
SAT UNSAT N/ACOMMENTS:	
9,4494	, , , , , , , , , , , , , , , , , , ,
CUE: Acknowledge Notification, SRO Does not direct replace	ement of fuses

END OF TASK

STOP TIME\_\_\_\_

OPERATOR:		
RO SRO		DATE:
JPM NUMBER:	j	
TASK NUMBER:	U-001-AL-06	5
TASK TITLE:	Field actions	for stuck open SRV
K/A NUMBER: 239	0002 A2.03	K/A RATING: RO 4.1 SRO 4.2
TASK STANDARD	: Stuck Open S opening the b	RV is closed when power is removed from the SRV by reakers
LOCATION OF PER	RFORMANCE:	Plant
REFERENCES/PRO	CEDURES NE	EEDED: 2-AOI-1-1
VALIDATION TIMI	∃: 25 minutes	
MAX. TIME ALLOV	WED: (Complet	ted for Time Critical JPMs only)
PERFORMANCE TI	ME:	
COMMENTS:		
Additional comment	sheets attached?	? YES NO
RESULTS: SATIS	SFACTORY	UNSATISFACTORY
SIGNATURE:	EXAMINER	DATE:

**INITIAL CONDITIONS**: You are an Operator, the Unit Supervisor has entered 2-AOI-1-1 Relief Valve Stuck Open. Control Room actions to close SRV 2-PCV-1-22 have been unsuccessful. Reactor Power is 85%.

**INITIATING CUE**: The Unit Supervisor directs you to attempt to close SRV 2-PCV-1-22 from outside the Control Room in accordance with 2-AOI-1-1 step 4.2.3[2].

\*

IN-PLANT: I will explain the initial conditions and state the task to be performed. <u>ALL STEPS WILL BE SIMULATED</u>. Do <u>NOT</u> operate any plant equipment. Touch STAAR may be carried out to the point of touching a label. If it becomes necessary to physically touch a control switch, use a non-conductive pointing device. I will provide initiating cues and indicate any steps to be discussed. When you complete the task successfully, the objective for this job performance measure will be satisfied. When your task is given, you will repeat the task and I will acknowledge "That's correct" (or That's incorrect", if applicable). When you have completed your assigned task, you will say, "My task is complete" and I will acknowledge that your task is complete.

\*

**INITIAL CONDITIONS**: You are an Operator, the Unit Supervisor has entered 2-AOI-1-1 Relief Valve Stuck Open. Control Room actions to close SRV 2-PCV-1-22 have been unsuccessful. Reactor Power is 85%.

**INITIATING CUE**: The Unit Supervisor directs you to attempt to close SRV 2-PCV-1-22 from outside the Control Room in accordance with 2-AOI-1-1 step 4.2.3[2].

START TIME ********************************
Performance Step 1: Critical X Not Critical
NOTES  1) 2-PCV-1-22 is an ADS Valve 2) 2-PCV-1-22 has two power supplies, it will auto transfer on loss of power and is Normal Seeking. 3) Attachment 1 may be addressed for fuse and breaker information.
<ul> <li>[2] IF 2-PCV-1-22 is NOT closed, THEN PERFORM the following:</li> <li>[2.1] On Panel 2-25-32 PLACE the associated transfer switch MAIN STM LINE B RELIEF VALVE XFR, 2-XS-1-22 in EMERG position.</li> </ul>
Standard:
Simulate placing 2-XS-1-22 in emergency
SATUNSAT N/ACOMMENTS:
CUE: When simulated 2-XS-1-22 is in Emergency, Reactor Pressure is Stable, Green light On and Red light Off for SRV 1-22.

JPM j PAGE 5 OF 6

******	******	<*********	******	******	*****	*****	*****	******
Performance S	Step 2:					Critical _	_ Not Cri	tical <u>X</u>
[2.2]	[2.2] IF the SRV does NOT clo OBSERVING the indicati							nitor:
		CYCLE the following pos				VALVE,	2-HS-1-22	C to the
	(	CLOSE/AUT	ΓO to OPE	N to CLC	SE/AUTO	)		
Standard:								
Simula	ites cyclir	ng 2-HS-1-22	C from CL	LOSE/AU	TO to OP	EN to CLO	OSE/AUT	O
SATUNSA	AT N/	'ACOMN	MENTS:					
CUE:	cycled light C	1-22C is in C , Red light O on and Red li as stable, who	n and Gree ght Off wh	en light C nen switcl	off when son is in Clo	witch is in se/Auto. R	Open and eactor Pre	Green ssure
******	*****	*****	*****	*****	*****	******	*****	*****
Performance S	<u>tep 3:</u>					*Critical	$\underline{X}$ Not Cr	itical
[2.3]	IF the S	RV does <b>NO</b>	T close, T	THEN PE	RFORM	the follow	ing:	
		VERIFY the CLOSE/AUT			B RELIEF	VALVE,	2-HS-1-22	2C, in the
		PLACE the a					INE B RE	LIEF
Standard:								
Simula	tes verify	ring 2-HS-1-2	22C is in C	lose/Auto	and simul	ates placin	g 2-XS-1-	22 in Norm
SAT UNSA	.T N/.	ACOMN	MENTS:			···		
								77 m 4 M 5 1 4 1 1 1 1 1

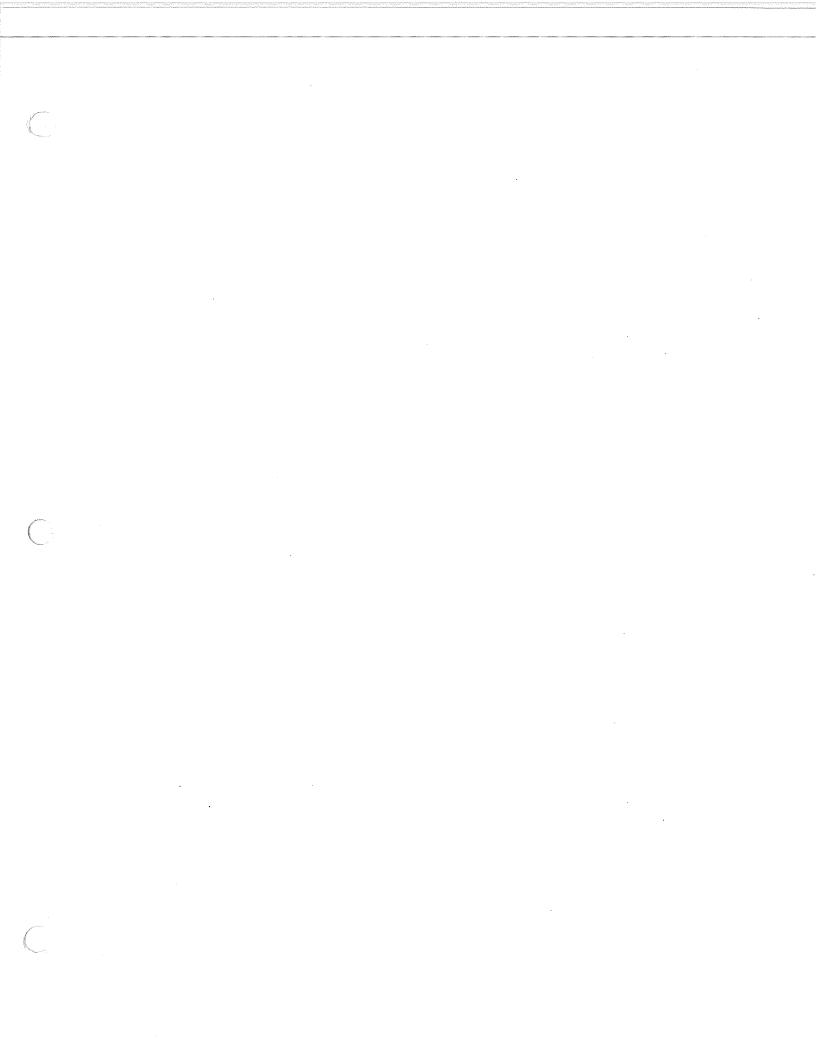
2-HS-1-22C is in Close/Auto and 2-XS-1-22 is in Norm, Green light Off. Use the

preferred method to remove power from SRV 2-PCV-1-22.

CUE:

*******	*****	***********************
Performance :	Step 4:	Critical X Not Critical
[2.4]		e SRV does <b>NOT</b> close, <b>THEN REMOVE</b> the power from 2-PCV-1-22 by rming one of the following: (Opening breakers are the preferred od)
	A.	<b>OPEN</b> the following breakers: (Preferred method)
		<ul><li>2A 250V RMOV, Compartment 11C2</li><li>2B 250V RMOV, Compartment 1C1</li></ul>
Standard:		
Simul 250V RMOV		ening Compartment 11C2 at 2A 250V RMOV and Compartment 1C1 at 2B
SATUNSA	AT	N/ACOMMENTS:
		·
CUE:	Whe	2 at 2A 250V RMOV is open and 1C1 at 2B 250V RMOV is open. En Control Room called SRV is Closed. If Operator simulates closing akers, breakers are closed SRV is Open. JPM Failure
STOD TIME		

END OF TASK



OPERATOR:	
RO SRO _	DATE:
JPM NUMBER:	j
TASK NUMBER:	U-001-AL-06
TASK TITLE:	Field actions for stuck open SRV
K/A NUMBER: 2390	002 A2.03 K/A RATING: RO 4.1 SRO 4.2
TASK STANDARD:	Stuck Open SRV is closed when power is removed from the SRV by opening the breakers
LOCATION OF PERI	FORMANCE: Plant
REFERENCES/PROC	CEDURES NEEDED: 3-AOI-1-1
VALIDATION TIME	: 25 minutes
MAX. TIME ALLOW	VED: (Completed for Time Critical JPMs only)
PERFORMANCE TIM	ME:
COMMENTS:	
Additional comment sl	heets attached? YES NO
RESULTS: SATISI	FACTORY UNSATISFACTORY
SIGNATURE:	DATE:

**INITIAL CONDITIONS**: You are an Operator, the Unit Supervisor has entered 3-AOI-1-1 Relief Valve Stuck Open. Control Room actions to close SRV 3-PCV-1-22 have been unsuccessful. Reactor Power is 85%.

**INITIATING CUE**: The Unit Supervisor directs you to attempt to close SRV 3-PCV-1-22 from outside the Control Room in accordance with 3-AOI-1-1 step 4.2.3[2].

\*

IN-PLANT: I will explain the initial conditions and state the task to be performed. <u>ALL STEPS WILL BE SIMULATED</u>. Do <u>NOT</u> operate any plant equipment. Touch STAAR may be carried out to the point of touching a label. If it becomes necessary to physically touch a control switch, use a non-conductive pointing device. I will provide initiating cues and indicate any steps to be discussed. When you complete the task successfully, the objective for this job performance measure will be satisfied. When your task is given, you will repeat the task and I will acknowledge "That's correct" (or That's incorrect", if applicable). When you have completed your assigned task, you will say, "My task is complete" and I will acknowledge that your task is complete.

\*

**INITIAL CONDITIONS**: You are an Operator, the Unit Supervisor has entered 3-AOI-1-1 Relief Valve Stuck Open. Control Room actions to close SRV 3-PCV-1-22 have been unsuccessful. Reactor Power is 85%.

**INITIATING CUE**: The Unit Supervisor directs you to attempt to close SRV 3-PCV-1-22 from outside the Control Room in accordance with 3-AOI-1-1 step 4.2.3[2].

	RT TIME ********************************	********
Perfor	rmance Step 1:	Critical X Not Critical
1) 2)	NOTES 3-PCV-1-22 is an ADS Valve 3-PCV-1-22 has two power supplies, it will auto transfer on I	oss of power and is
3)	Normal Seeking.  Attachment 1 may be addressed for fuse and breaker informa	tion.
[2]	IF 3-PCV-1-22 is NOT closed, THEN PERFORM the follo	wing:
	[2.1] On Panel 3-25-32 <b>PLACE</b> the associated transfer swi LINE B RELIEF VALVE XFR, 3-XS-1-22 in EMER	
Standa	lard:	
	Simulate placing 3-XS-1-22 in emergency	
SAT_	UNSAT N/ACOMMENTS:	
CU	JE: When simulated 3-XS-1-22 is in Emergency, Reac light On and Red light Off for SRV 1-22	tor Pressure is Stable, Green

JPM	j		
PAGE	5	OF	6

		PAGE 5 OF 6
*****	*****	**********************
<u>Performance</u>	Step 2:	Critical Not Critical X
[2.2]		e SRV does <b>NOT</b> close, <b>THEN PERFORM</b> the following while <b>ERVING</b> the indications for the 3-PCV-1-22 on the Acoustic Monitor:
	•	<b>CYCLE</b> the MAIN STM LINE B RELIEF VALVE, 3-HS-1-22C to the following positions several times.
		CLOSE/AUTO to OPEN to CLOSE/AUTO
Standard:		
Simul	ates cy	cling 3-HS-1-22C from CLOSE/AUTO to OPEN to CLOSE/AUTO
SATUNS	AT	N/ACOMMENTS:
CUE:	cycl ligh	S-1-22C is in CLOSE/AUTO to OPEN to CLOSE/AUTO Switch is being led, Red light On and Green light Off when switch is in Open and Green to On and Red light Off when switch is in Close/Auto. Reactor Pressure ains stable, when Control Room called SRV fails to close or remains open
Performance S	Step 3:	*Critical X Not Critical
[2.3]	IF the	e SRV does <b>NOT</b> close, <b>THEN PERFORM</b> the following:
	A.	<b>VERIFY</b> the MAIN STM LINE B RELIEF VALVE, 3-HS-1-22C, in the CLOSE/AUTO position.
	*B.	<b>PLACE</b> the associated transfer switch MAIN STM LINE B RELIEF VALVE XFR, 3-XS-1-22 in NORM position .
Standard:		
Simula	ates vei	rifying 3-HS-1-22C is in Close/Auto and simulates placing 3-XS-1-22 in Norm
SATUNSA	AT	N/ACOMMENTS:

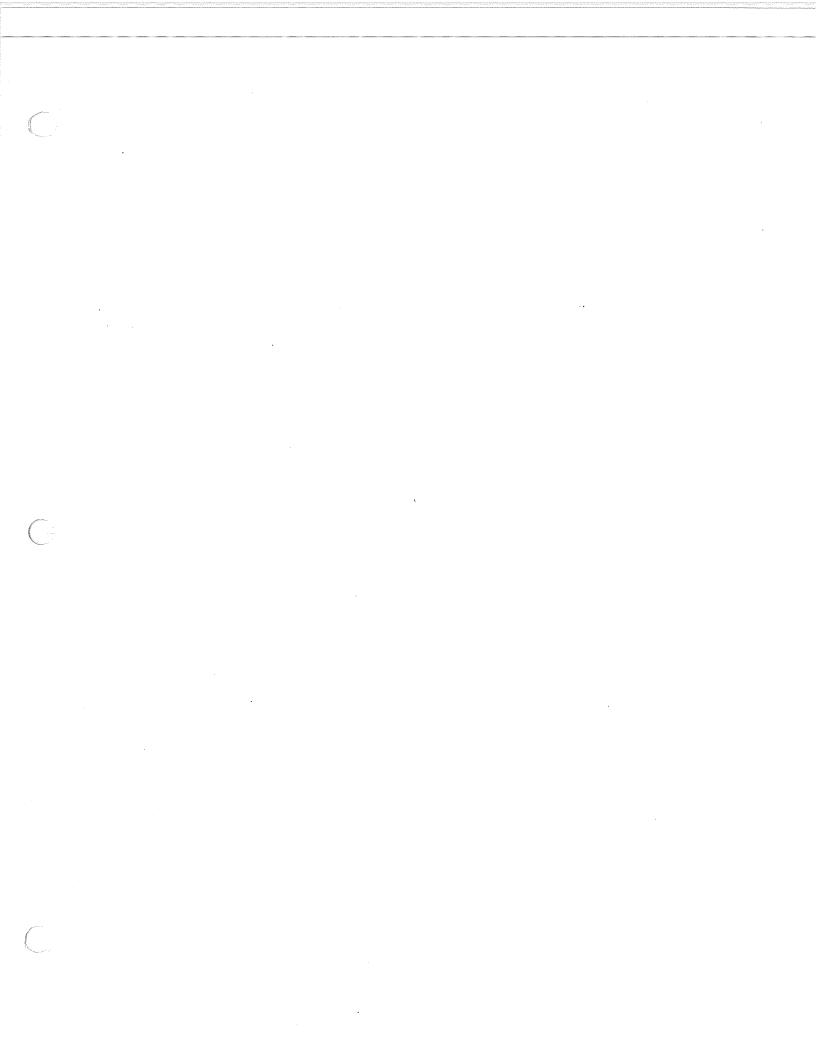
CUE:

3-HS-1-22C is in Close/Auto and 3-XS-1-22 is in Norm, Green light Off. Use the preferred method to remove power from SRV 3-PCV-1-22.

*******	*******	**********
Performance Step 4:		Critical X Not Critical
[2.4] IF the SRV does NO performing one of the follow method)		E the power from 3-PCV-1-22 by the preferred
A. OPE	N the following breakers: (P	referred method)
• 3A 2	250V RMOV, Compartment	t 11C2
• 3B 2	250V RMOV, Compartment	: 1C1
Standard:		
Simulates opening Co 250V RMOV	ompartment 11C2 at 3A 250	OV RMOV and Compartment 1C1 at 3B
SAT UNSAT N/A	_COMMENTS:	
When Cont		C1 at 3B 250V RMOV is open. sed. If Operator simulates closing Open. JPM Failure
	•	

END OF TASK

STOP TIME\_



OPERATOR	:				-			
RO	SRO_		DATE	Ξ:				
JPM NUMB	ER:	j						
TASK NUM	BER:	U-001-AL-06	5					
TASK TITLI	E:	Field actions	for stuc	k open SF	RV			
K/A NUMBI	ER: 239	002 A2.03	K/A R	ATING: 1	RO 4.1	SRO 4.2	2	
TASK STAN	IDARD:	Stuck Open S opening the b		losed whe	n power	is remov	ed from	the SRV by
LOCATION	OF PER	FORMANCE:	Plant					
REFERENC	ES/PRO	CEDURES NE	EEDED:	1-AOI-1	-1			
VALIDATIC	N TIME	2: 25 minutes						
MAX. TIME	ALLOV	VED: (Complet	ted for T	ime Critic	cal JPMs	only)		
PERFORMA	NCE TI	ME:						
COMMENT	S:							
Additional co	omment s	heets attached	? YES_	NO_				
RESULTS:	SATIS	FACTORY_		UNSAT	ISFACT	ORY		
SIGNATURE	Ε:	EXAMINER		I	DATE: _			

**INITIAL CONDITIONS**: You are an Operator, the Unit Supervisor has entered 1-AOI-1-1 Relief Valve Stuck Open. Control Room actions to close SRV 1-PCV-1-22 have been unsuccessful. Reactor Power is 85%.

**INITIATING CUE**: The Unit Supervisor directs you to attempt to close SRV 1-PCV-1-22 from outside the Control Room in accordance with 1-AOI-1-1 step 4.2.3[2].

\*

IN-PLANT: I will explain the initial conditions and state the task to be performed. <u>ALL STEPS WILL BE SIMULATED</u>. Do <u>NOT</u> operate any plant equipment. Touch STAAR may be carried out to the point of touching a label. If it becomes necessary to physically touch a control switch, use a non-conductive pointing device. I will provide initiating cues and indicate any steps to be discussed. When you complete the task successfully, the objective for this job performance measure will be satisfied. When your task is given, you will repeat the task and I will acknowledge "That's correct" (or That's incorrect", if applicable). When you have completed your assigned task, you will say, "My task is complete" and I will acknowledge that your task is complete.

\*

**INITIAL CONDITIONS**: You are an Operator, the Unit Supervisor has entered 1-AOI-1-1 Relief Valve Stuck Open. Control Room actions to close SRV 1-PCV-1-22 have been unsuccessful. Reactor Power is 85%.

**INITIATING CUE**: The Unit Supervisor directs you to attempt to close SRV 1-PCV-1-22 from outside the Control Room in accordance with 1-AOI-1-1 step 4.2.3[2].

Perfo	ormance Step 1:	Critical X Not Critical
	NOTES	
1)	1-PCV-1-22 is an ADS Valve	
2)	1-PCV-1-22 has two power supplies, it we Normal Seeking.	vill auto transfer on loss of power and is
3)	Attachment 1 may be addressed for fuse	and breaker information.
[2]	IF 1-PCV-1-22 is NOT closed, THEN P	ERFORM the following:
	[2.1] On Panel 1-25-32 <b>PLACE</b> the ass LINE B RELIEF VALVE XFR, 1	sociated transfer switch MAIN STM -XS-1-22 in EMERG position.
Stanc	lard:	
rema	Simulate placing 1-XS-1-22 in emergency ins Open	and calls Control Room to check whether SRV
C 4 / T	UNSAT N/A COMMENTS:	

CUE: When simulated 1-XS-1-22 is in Emergency, Reactor Pressure is Stable, Green light On and Red light Off for SRV 1-22.

JPM	j		
PAGE	5	OF	6

		PAGE 5 OF 6
******	******	*********************
Performance S	<u>tep 2:</u>	Critical _ Not Critical X
		V does <b>NOT</b> close, <b>THEN PERFORM</b> the following while <b>ING</b> the indications for the 1-PCV-1-22 on the Acoustic Monitor:
		<b>CLE</b> the MAIN STM LINE B RELIEF VALVE, 1-HS-1-22C to the owing positions several times.
	CLO	OSE/AUTO to OPEN to CLOSE/AUTO
Standard:		
Simulat	tes cycling 1	1-HS-1-22C from CLOSE/AUTO to OPEN to CLOSE/AUTO
SAT UNSA	.T N/A _	COMMENTS:
	*	
CUE:	cycled, Re light On a	2C is in CLOSE/AUTO to OPEN to CLOSE/AUTO Switch is being ed light On and Green light Off when switch is in Open and Green and Red light Off when switch is in Close/Auto. Reactor Pressure table, when Control Room called SRV fails to close or remains open
********** Performance St		**************************************
		does NOT close, THEN PERFORM the following:
		<b>RIFY</b> the MAIN STM LINE B RELIEF VALVE, 1-HS-1-22C, in the OSE/AUTO position.
:		ACE the associated transfer switch MAIN STM LINE B RELIEF LVE XFR, 1-XS-1-22 in NORM position.
Standard:		
Simulat	es verifying	1-HS-1-22C is in Close/Auto and simulates placing 1-XS-1-22 in Norm
SATUNSA	T N/A _	COMMENTS:
CUE: 1	ЦС 1 22C	is in Class/Auto and 1 VC 1 22 is in Norm Cross light Off Has the
		is in Close/Auto and 1-XS-1-22 is in Norm, Green light Off. Use the thod to remove power from SRV 1-PCV-1-22.

******	****	********************
Performance S	Step 4:	Critical X Not Critical
		e SRV does <b>NOT</b> close, <b>THEN REMOVE</b> the power from 1-PCV-1-22 by brming one of the following: (Opening breakers are the preferred od)
	A.	<b>OPEN</b> the following breakers: (Preferred method)
		<ul><li>1A 250V RMOV, Compartment 11C2</li><li>1B 250V RMOV, Compartment 1C1</li></ul>
Standard:		
Simula 250V RMOV		ening Compartment 11C2 at 1A 250V RMOV and Compartment 1C1 at 1B
SATUNSA	<b>A</b> T	N/ACOMMENTS:
CUE:	Wh	C2 at 1A 250V RMOV is open and 1C1 at 1B 250V RMOV is open. en Control Room called SRV is Closed. If Operator simulates closing akers, breakers are closed SRV is Open. JPM Failure

END OF TASK

STOP TIME\_\_\_

JPM k (25i op6) PAGE 1 OF 12

OPERATOR:				
RO SR		DATE:		
JPM NUMBER:	k (25i op6)	·		
TASK NUMBER	: U-000-SS-30	1		
TASK TITLE:	Operator 6 M	Ianual Actions 0-SSI-2	251	
K/A NUMBER: (	600000 AA2.16	K/A RATING: RO 3	3.0 SRO 3.5	
TASK STANDA	RD: Operator 6 M	Ianual Actions 0-SSI-2	25I section 1.0 completed	
LOCATION OF P	PERFORMANCE:	Plant		
REFERENCES/P	ROCEDURES NE	EEDED: 0-SSI-25I		
VALIDATION TI	ME: 30 minutes			
		es for step 1.1, 20 minutinutes for step 3.2, 20	ntes for step 1.2, 20 minutes for minutes for step 4.	step 2.1
PERFORMANCE	ETIME:			
Additional comme	ent sheets attached	? YES NO		
RESULTS: SA	TISFACTORY	UNSATISFA	CTORY	
SIGNATURE:	EXAMINER	DATE	3:	

**INITIAL CONDITIONS**: You are Operator 6, the plant is operating in 0-SSI-25I Turbine Building, Cable Tunnel, Intake Pumping Station and Radwaste Building.

**INITIATING CUE**: The Unit Supervisor directs you as Operator 6 to commence Attachment 6 Operator 6 Manual Actions of 0-SSI-25I.

**Time Critical** 

\*

IN-PLANT: I will explain the initial conditions and state the task to be performed. <u>ALL STEPS WILL BE SIMULATED</u>. Do <u>NOT</u> operate any plant equipment. Touch STAAR may be carried out to the point of touching a label. If it becomes necessary to physically touch a control switch, use a non-conductive pointing device. I will provide initiating cues and indicate any steps to be discussed. When you complete the task successfully, the objective for this job performance measure will be satisfied. When your task is given, you will repeat the task and I will acknowledge "That's correct" (or That's incorrect", if applicable). When you have completed your assigned task, you will say, "My task is complete" and I will acknowledge that your task is complete.

\*

**INITIAL CONDITIONS**: You are Operator 6, the plant is operating in 0-SSI-25I Turbine Building, Cable Tunnel, Intake Pumping Station and Radwaste Building.

**INITIATING CUE**: The Unit Supervisor directs you as Operator 6 to commence Attachment 6 Operator 6 Manual Actions of 0-SSI-25I.

**Time Critical** 

START TIME_ ************************************
Performance Step 1: *Critical X Not Critical
NOTE  Performance of this section will cause the Diesel Generators to Start and Tie onto their respective 4KV Shutdown Board. The relay operations with subsequent output breaker closure are an expected result of aligning the board normal feeder breakers to the trip position.
[1] <b>PROCEED TO</b> 4KV Shutdown BD 3EA, AND <b>PERFORM</b> the following:
NOTE  If pump fails to start, pushbutton on breaker <u>must</u> be used.
[1.1] <b>PROCEED TO</b> Compt 5, 0-BKR-023-0085 RHRSW PUMP A3, AND <b>PERFORM</b> the following:
(10 Min)
*[1.1.1] <b>PLACE</b> RHRSW PUMP A3 EMER/NORM CONT TRANS SWITCH, 0-43-023-0085 in EMERG.
[1.1.2] <b>PLACE</b> RHRSW PUMP A3 EECW NORTH HDR, 0-HS-023-0085C, in CLOSE.
[1.1.3] <b>VERIFY</b> RHRSW Pump A3 has started by observing breaker ammeter indications.
Standard:
Simulates placing 0-43-023-0085 in Emergency and 0-HS-023-0085C in Close
SATUNSATN/ACOMMENTS:
CUE: 0-43-023-0085 is in Emergency and 0-HS-023-0085C is in Close, Red Light Off, Green Light On, Yellow Light Remained On, If asked no breaker trips

indicated.

	JPM k (25i op6) PAGE 5 OF 12
*************	***********
Performance Step 2:	* Critical X Not Critical
NOTE *If pump fails to start, pushbutton on breaker <u>must</u> be a	used.
[1.1] <b>PROCEED TO</b> Compt 5, 0-BKR-023- <b>PERFORM</b> the following:	0085 RHRSW PUMP A3, AND
[1.1.3] <b>VERIFY</b> RHRSW Pump A3 ha indications.	s started by observing breaker ammeter
Standard:	
Simulates depressing Close pushbutton on Com	pt 5 RHRSW PUMP A3
SAT UNSAT N/ACOMMENTS:	· · · · · · · · · · · · · · · · · · ·
CUE: Pushbutton depressed, Red Light On, Yellow light On, Amps pegged high,	

STOP TIME\_\_\_\_

JPM k (25i op6) PAGE 6 OF 12

[`ART` TIME ******************************	****
erformance Step 3: Critical X Not C	ritical
0 Min)	
[1.2] <b>PROCEED TO</b> Compt 7, 3-BKR-211-03EA/007 NORM FDR BKR FROM BKR 1326 4KV UNIT BD 3A, AND <b>PERFORM</b> the following	
[1.2.1] <b>PLACE</b> BKR 1334 EMER APP R ISOL SEL SWITCH (43A 3-43BU-211-03EA/07, in EMER.	R),
[1.2.2] <b>PLACE</b> BREAKER CONTROL TRANSFER SWITCH 43, 3-43-211-03EA/07, in EMER.	
[1.2.3] <b>PLACE</b> BREAKER CONTROL SWITCH, 3-HS-211-03EA/CTRIP.	07B, in
andard:	
Simulates placing 3-43BU-211-03EA/07 and 3-43-211-03EA/07 in Emergend HS-211-03EA/07B in Trip	ey, and
AT UNSAT N/ACOMMENTS:	
CUE: 3-43BU-211-03EA/07 and 3-43-211-03EA/07 is in Emergency, 3-HS-211-03EA/07B is in Trip. Green light On, Red Light Off, Green switch.	n Flag on
TOP TIME	

JPM k (25i op6) PAGE 7 OF 12

START TIM *******	E
Performance :	Step 4: Critical X Not Critical
[2] <b>PRO</b>	CEED TO 4KV Shutdown Board 3EC.
(20 Min)	
[2.1]	<b>PROCEED TO</b> Compt 12, 3-BKR-211-03EC/012 NORM FDR BKR 1338 TIE FROM BKR 1332 4KV UNIT BD 3B, AND <b>PERFORM</b> the following:
	[2.1.1] <b>PLACE</b> BKR 1338 EMER APP R ISOL SEL SWITCH (43AR), 3-43BU-211-03EC/12, in EMER.
	[2.1.2] <b>PLACE</b> BREAKER CONTROL TRANSFER SWITCH 43, 3-43-211-03EC/12, in EMERG.
	[2.1.3] <b>PLACE</b> BREAKER CONTROL SWITCH 52, 3-HS-211-03EC/12B, in TRIP.
Standard:	
	ates placing 3-43BU-211-03EC/12 and 3-43-211-03EC/12 in Emergency and EC/12B in Trip
SATUNSA	ATN/ACOMMENTS:
<u> </u>	
CUE:	3-43BU-211-03EC/12 and 3-43-211-03EC/12 is in Emergency, 3-HS-211-03EC/12B is in Trip, Green light On, Red Light Off, Green Flag on

switch.

		JPM k (25i op6) PAGE 8 OF 12
******	*************	********
Performance Step 5: Critical X Not Critical		
[2.2]	PROCEED TO Compt 8, 0-BKR-023-0015 RHR PERFORM the following:	SW PUMP B1, AND
	[2.2.1] <b>PLACE</b> RHRSW PUMP B1 EMER/NORI 0-43-023-0015, in EMERG.	M CONT TRANS SWITCH,
	[2.2.2] PLACE RHRSW PUMP B1 MOTOR, 0-H	IS-023-0015C, in TRIP.
Standard:		
	ates placing 0-43-023-0015 in Emergency, and 0-HS  ATN/ACOMMENTS:	-023-0015C in Trip
CUE:	0-43-023-0015 is in Emergency, 0-HS-023-00150 Red Light Off, Green Flag on switch.	C is in Trip, Green light On,
*****	************	
Performance S		**********
1 CHOIIIance	Step 6:	************  Critical $\underline{X}$ Not Critical
	PROCEED TO Compt 9, 3-BKR-024-0016 RAW 3D, AND PERFORM the following:	Critical X Not Critical
	PROCEED TO Compt 9, 3-BKR-024-0016 RAW	Critical X Not Critical COOLING WATER PUMP
	PROCEED TO Compt 9, 3-BKR-024-0016 RAW 3D, AND PERFORM the following:  [2.3.1] PLACE BREAKER CONTROL TRANSF	Critical X Not Critical COOLING WATER PUMP ER SWITCH, 3-XS-024-0016,

CUE: 3-XS-024-0016 is in Emergency, 0-HS-023-0005C is in Trip, Green light On, Red Light Off, Green Flag on switch.

Simulates placing 3-XS-024-0016 in Emergency and 3-HS-024-0016C in Trip

SAT\_\_UNSAT\_\_ N/A \_\_COMMENTS:\_\_\_\_

STOP TIME		
START TIME_ ************************************		
Performance Step 7: * Critical X Not Critical		
[3] <b>PROCEED TO</b> 4KV Shutdown Board 3EB.		
NOTE  If Pump fails to start, pushbuttons on breaker must be used.		
[3.1] <b>PROCEED TO</b> Compt 10, 0-BKR-023-0091 RHRSW PUMP C3 AND <b>PERFORM</b> the following:		
(10 Min)		
*[3.1.1] <b>PLACE</b> RHRSW PUMP C3 EMER/NORM CONT TRANS SWITCH, 0-43-023-0091, in EMERG.		
*[3.1.2] <b>PLACE</b> RHRSW PUMP C3 EECW NORTH HEADER, 0-HS-23-91C, in CLOSE.		
[3.1.3] <b>VERIFY</b> RHRSW Pump C3 has started by observing breaker ammeter indications.		
Standard:		
Simulates placing 0-43-023-0091 in Emergency and 0-HS-23-91C in Close		
SATUNSAT N/ACOMMENTS:		
CUE: 0-43-023-0091 is in Emergency, 0-HS-23-91C is in Close, Red Light On, Green Light Off, Yellow light off, Yellow light On, Amps pegged high, Amps currently reading 50 Amps		

STOP TIME\_

JPM k (25i op6) PAGE 10 OF 12

START TIM *******		*************
		Critical X Not Critical
(20 Min)		
[3.2]		-211-03EB/014 BKR 1336 NORM FDR 26 & 4KV S/D BD 3EA BKR 1334, AND
	[3.2.1] <b>PLACE</b> BKR 1336 EMER A 3-43BU-211-03EB/14, in EM	APP R ISOL SEL SWITCH (43AR), MER.
	[3.2.2] <b>PLACE</b> BREAKER CONTI 3-43-211-03EB/14, in EMER	,
	[3.2.3] <b>PLACE</b> BREAKER CONTI	ROL SWITCH, 3-HS-211-03EB/14B, in
Standard:		
	ates placing 3-43BU-211-03EB/14 and EB/14B in Trip	d 3-43-211-03EB/14 in Emergency and
SATUNSA	ATN/ACOMMENTS:	
CUE:	3-43BU-211-03EB/14 and 3-43-211 3-HS-211-03EB/14B is in Trip, Gre switch.	-03EB/14 is in Emergency, en light On, Red Light Off, Green Flag on

STOP TIME\_\_\_\_

JPM k (25i op6) PAGE 11 OF 12

	RT TIM *****	E
Performance Step 9: Critical X Not Critical		
[4]	PROC	CEED TO 4KV Shutdown Board 3ED.
	[4.1]	<b>PROCEED TO</b> Compt 8, 3-BKR-211-03ED/008 NORM SUPPLY BKR 1342 TIE FROM BKR 1332 4KV UNIT BD 3B VIA PNL 11, 4KV S/D BD 3EC, AND <b>PERFORM</b> the following:
(20 M	in)	
-		[4.1.1] <b>PLACE</b> BKR 1342 EMER APP R ISOL SEL SWITCH (43AR), 3-43BU-211-03ED/08, in EMER.
		[4.1.2] <b>PLACE</b> BREAKER CONTROL TRANSFER SWITCH 43, 3-43-211-03ED/08, in EMERG.
		[4.1.3] <b>PLACE</b> BREAKER CONTROL SWITCH, 3-HS-211-03ED/08B, in TRIP.
Standa	ard:	
3-HS-		ates placing 3-43BU-211-03ED/08 and 3-43-211-03ED/08 in Emergency and ED/08B in Trip
SAT_	_ UNSA	ATN/ACOMMENTS:
CUE		3-43BU-211-03ED/08 and 3-43-211-03ED/08 is in Emergency, 3-HS-211-03ED/08B is in Trip, Green light On, Red light Off, Green flag on switch.

	JPM k (25i op6) PAGE 12 OF 12
****************	*********
Performance Step 10:	Critical $\underline{X}$ Not Critical
[4.2] <b>PROCEED TO</b> Compt 6, 0-BKR-023-0023 RHR <b>PERFORM</b> the following:	SW PUMP D1, AND
[4.2.1] <b>PLACE</b> RHRSW PUMP D1 EMER/NORD 0-43-023-0023, in EMERG.	M CONT TRANS SWITCH,
[4.2.2] <b>PLACE</b> RHRSW PUMP D1, 0-HS-23-230	C, in TRIP.
Standard:	
Simulates placing 0-43-023-0023 in Emergency and 0-HS-	-23-23C in Trip
SATUNSAT N/ACOMMENTS:	
CUE: 0-43-023-0023 is in Emergency, 0-HS-23-23C is light Off and Green flag on switch	in Trip, Green light On, Red
STOP TIME	
**************************************	**************************************
[5] <b>NOTIFY</b> Unit 3 Unit Supervisor of the completion of this	s section.
[6] <b>PROCEED TO</b> 4KV Shutdown Board A in preparation of	of performing Section 2.0.
Standard:	

CUE: Another Operator will continue with section 2.0 END OF TASK

Notifies Unit 3 Unit Supervisor

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

JPM k (16i op3) PAGE 1 OF 9

OPERATOR:	
RO SRO_	DATE:
JPM NUMBER:	k (16 op6)
TASK NUMBER:	U-000-SS-08
TASK TITLE:	Operator 3 Manual Actions 0-SSI-16
K/A NUMBER: 6000	000 AA2.16 K/A RATING: RO 3.0 SRO 3.5
	Operator 3 Manual Actions 0-SSI-16 section 2.0 and 3.0 steps 1 and 2 completed
LOCATION OF PERI	FORMANCE: Plant
REFERENCES/PROC	CEDURES NEEDED: 0-SSI-16
VALIDATION TIME	: 15 minutes
MAX. TIME ALLOW	ED: 20 minutes for section 2.0
PERFORMANCE TIME	ME:
	heets attached? YES NO
RESULTS: SATIS	FACTORY UNSATISFACTORY
SIGNATURE:	DATE:

**INITIAL CONDITIONS**: You are Operator 3, the plant is operating in 0-SSI-16 Control Building Fire EL 593 Through EL 617. Operator 3 Manual Actions Section 1.0 is complete.

**INITIATING CUE**: The Unit Supervisor directs you as Operator 3 to continue Attachment 3 at section 2.0 of 0-SSI-16.

**Time Critical** 

\*

**IN-PLANT:** I will explain the initial conditions and state the task to be performed. <u>ALL STEPS WILL BE SIMULATED</u>. Do <u>NOT</u> operate any plant equipment. Touch STAAR may be carried out to the point of touching a label. If it becomes necessary to physically touch a control switch, use a non-conductive pointing device. I will provide initiating cues and indicate any steps to be discussed. When you complete the task successfully, the objective for this job performance measure will be satisfied. When your task is given, you will repeat the task and I will acknowledge "That's correct" (or That's incorrect", if applicable). When you have completed your assigned task, you will say, "My task is complete" and I will acknowledge that your task is complete.

\*

**INITIAL CONDITIONS**: You are Operator 3, the plant is operating in 0-SSI-16 Control Building Fire EL 593 Through EL 617. Operator 3 Manual Actions Section 1.0 is complete.

**INITIATING CUE**: The Unit Supervisor directs you as Operator 3 to continue Attachment 3 at section 2.0 of 0-SSI-16.

**Time Critical** 

JPM k (16 op3) PAGE 4 OF 9

START *****	TIME *******************************
	ance Step 1: *Critical X Not Critical
2.0	START RHR PUMP 2C
(20 Min)	
[1] N	Notification has been received from the Unit 2 Unit Supervisor to perform this section.
If RHR 1	NOTE pump fails to start, pushbutton on breaker must be used.
	PROCEED TO 4160V Shutdown Board B, Compt 17, 2-BKR-074-0016 RESIDUAL HEAT REMOVAL PUMP 2C, AND PERFORM the following:
*	[2.1] <b>VERIFY</b> RHR PUMP C BREAKER CONTROL TRANSFER SWITCH 43, 2-43-074-0016, in EMERG.
. [3	2.2] <b>PLACE</b> RHR PUMP 2C, 2-HS-074-0016C, in CLOSE.
[2	2.3] <b>VERIFY</b> RHR Pump 2C has started by observing breaker AMMETER indications.
Standard	
S	Simulates placing 2-43-074-0016 in Emergency and 2-HS-074-0016C in Close
SAT	UNSAT N/ACOMMENTS:
CUE:	2-43-074-0016 is in Emergency and 2-HS-074-0016C is in Close, No AMPS are indicated, Red light OFF and Green Light On Breaker failed to CLOSE

JPM	k	(16	op3)
PAGE	5	OF S	9

		PAGE 5 OF 9
****	**************	**********
Perfo	ormance Step 2:	*Critical $\underline{X}$ Not Critical
2.0	START RHR PUMP 2C	
(20 M	Min)	•
*If R	*NOTE  HR pump fails to start, pushbutton on breaker must be	used.
[2]	<b>PROCEED TO</b> 4160V Shutdown Board B, Compt HEAT REMOVAL PUMP 2C, AND <b>PERFORM</b> the state of the	
	[2.3] <b>VERIFY</b> RHR Pump 2C has started by obse indications.	erving breaker AMMETER
Stand	lard:	
	Simulates depressing pushbutton on 2-BKR-074-001	6 and verifies Amps
SAT_	UNSAT N/ACOMMENTS:	Washington and the second and the se
CUE:	Breaker 2-BKR-074-0016 pushbutton is depre light ON and Green Light OFF Breaker CLOS AMPS	
STOI	P TIME	

				(16 op3)
		PAGE	6	OF 9
****	******************	*****	***	******
Perfo:	rmance Step 3:	Critica	al _	Not Critical X
[3]	NOTIFY Unit 2 Unit Supervisor of completion of this sec	tion.		
[4]	<b>REMAIN</b> at 4160V Shutdown Board B in preparation of 1	perform	ing	Section 3.0.
Stand	lard:			
	Notifies Unit 2 Unit Supervisor and proceeds to 4160 SD B	DΒ		
SAT_	UNSAT N/ACOMMENTS:			
·	·			
CUE:	Acknowledge notification and Notify Operator to pe	erform s	ecti	on 3.0

JPM k (16 op3) PAGE 7 OF 9

STAF	RT TIM ******		**************************************
<u>Perfor</u>	rmance	Step 4:	*Critical X Not Critical
3.0		W ALIGNME FILATION S	ENT AND START OF UNIT 1 & 2 CONTROL BAY YSTEM
[1]	Notifi	cation has bee	n received from the Unit 2 Unit Supervisor to perform this section.
(120 1	Min)		
	[1.1]		TO 4160V Shutdown Board B Compt 12C, 0-BKR-067-0049 MP C1 SPLY TO EECW FCV67-49, AND PERFORM the
		*[1.1.1]	<b>PLACE</b> RHRSW PUMP C1 CROSSTIE VLV TRANSFER, 0-XS-067-0049 in EMERG.
		[1.1.2]	<b>VERIFY CLOSED</b> RHRSW C1 CROSSTIE TO EECW, 0-HS-067-0049C.
Standa	ard:		
CROS		ates placing 0-2 O EECW	XS-067-0049 in Emergency and Verifies Closed RHRSW C1
SAT_	_UNS	AT N/A	_COMMENTS:
CUE:			19 is in Emergency and RHRSW C1 Crosstie to EECW Red Light ght On, Valve is Closed
STOP	TIME		

JPM k (16 op3) PAGE 8 OF 9

START TIME ********************************
Performance Step 5: Critical X Not Critical
(240 Min)
[2] <b>PROCEED TO</b> 4160V Shutdown Board B Compt 18, 0-BKR-031-2100 4KV SUPPLY FOR 1&2 CONTROL BAY CHILLER A, AND <b>PERFORM</b> the following:
[2.1] <b>PLACE</b> CB CHILLER A TRANSFER SWITCH, 0-XS-031-2100A, in EMERG.
[2.2] <b>PLACE</b> CONTROL BAY CHILLER A, 0-HS-031-2100B, in CLOSE.
Standard:
Simulates placing 0-XS-031-2100A in Emergency and 0-HS-031-2100B in Close
SATUNSAT N/ACOMMENTS:
CUE: 0-XS-031-2100A is in Emergency and 0-HS-031-2100B is in Close, Breaker Closed, Red Light On Green Light Off, Amps indicate 25 Amps
STOP TIME

				(16 op3) OF 9
****	*****************	*****	***	******
Perfo	ormance Step 6:	Critica	ıl	Not Critical X
[3]	PROCEED TO the Control Bay Chiller enclosure above	the Unit	1 8	& 2 DG Building.
Stand	lard:			
	Operator starts to Control Bay Chiller Enclosure			
SAT_	UNSAT N/ACOMMENTS:	•		
OHE.	A 41 0	N '11 T	1	
CUE:	Another Operator is dispatched to the Control Bay (	Julier E	nci	osure
	FND OF TASK			

JPM k (16i op6) PAGE 1 OF 9

OPERATOR:		<del></del>
RO SRO _	DAT	E:
JPM NUMBER:	k (16 op6)	
TASK NUMBER:	U-000-SS-08	
TASK TITLE:	Operator 6 Manual A	Actions 0-SSI-16
K/A NUMBER: 60000	00 AA2.16 K/A	RATING: RO <u>3.0</u> SRO: <u>3.5</u>
TASK STANDARD:	Operator 6 Manual A	Actions 0-SSI-16 section 2.0 and 3.0 completed
LOCATION OF PERF	ORMANCE: Plant	
REFERENCES/PROC	EDURES NEEDED	: 0-SSI-16
VALIDATION TIME:	15 minutes	
MAX. TIME ALLOW	ED: 20 minutes for s	ection 2.0 and 120 minutes for section 3.0.
PERFORMANCE TIM	IE:	
COMMENTS:		
Additional comment sh	eets attached? YES	NO
RESULTS: SATISF	ACTORY	UNSATISFACTORY
SIGNATURE:	EXAMINER	DATE:

**INITIAL CONDITIONS**: You are Operator 6, the plant is operating in 0-SSI-16 Control Building Fire EL 593 Through EL 617. Operator 6 Manual Actions Section 1.0 is complete.

**INITIATING CUE**: The Unit Supervisor directs you as Operator 6 to continue Attachment 6 at section 2.0 of 0-SSI-16.

**Time Critical** 

\*

IN-PLANT: I will explain the initial conditions and state the task to be performed. <u>ALL STEPS WILL BE SIMULATED</u>. Do <u>NOT</u> operate any plant equipment. Touch STAAR may be carried out to the point of touching a label. If it becomes necessary to physically touch a control switch, use a non-conductive pointing device. I will provide initiating cues and indicate any steps to be discussed. When you complete the task successfully, the objective for this job performance measure will be satisfied. When your task is given, you will repeat the task and I will acknowledge "That's correct" (or That's incorrect", if applicable). When you have completed your assigned task, you will say, "My task is complete" and I will acknowledge that your task is complete.

\*

**INITIAL CONDITIONS**: You are Operator 6, the plant is operating in 0-SSI-16 Control Building Fire EL 593 Through EL 617. Operator 6 Manual Actions Section 1.0 is complete.

**INITIATING CUE**: The Unit Supervisor directs you as Operator 6 to continue Attachment 6 at section 2.0 of 0-SSI-16.

**Time Critical** 

JPM k (16 op6) PAGE 4 OF 9

	RT TIM:	ME *******************************	*******
<u>Perfori</u>	mance S	e Step 1:	Critical X Not Critical
2.0	480V	V REACTOR MOV BOARD 3B ALIGNMENT	
(20 Mi	in)		
[1]	Notifi	fication has been received from the Unit 3 Unit Supervis	sor to perform this section.
[2]	PERF	RFORM the following to align 480V Reactor MOV Boar	rd 3B:
	[2.1]	PROCEED TO Compt 2A, AND PLACE NORMAL SWITCH, 3-HS-268B/2A-A, in TRIP.	L FEEDER CONTROL
	[2.2]	PROCEED TO Compt 16A, AND PLACE EMERG CONTROL SWITCH, 3-HS-268-B/16A-A, in CLOS	
Standa	<u>ırd:</u>		
	Simula	ulates placing 3-HS-268B/2A-A in Trip and 3-HS-268-B/	/16A-A in Close
SAT	_UNSA	SATN/ACOMMENTS:	
CUI	E:	3-HS-268B/2A-A is in Trip, Green light On Red light 3-HS-268-B/16A-A is in Close, Red light On Green	•

		(16 op6) OF 9	
--	--	------------------	--

******	*****	******************			
Performance S	Step 2:	* Critical X Not Critical			
[2.3]	PROCEED TO Compt 1C, AND PERFORM the following:				
	*[2.3.1]	PLACE RCIC STM LINE EMER TRANS SWITCH 3-XS-071-0002, in EMERG.			
	[2.3.2]	<b>VERIFY OPEN</b> RCIC STM LINE INBD ISOL VALVE, 3-HS-071-0002B.			
Standard:					
Simula ISOL VALVE		KS-071-0002 in Emergency and verifies RCIC STM LINE INBD			
SATUNSA	ATN/A	COMMENTS:			
CUE:		0002 is in Emergency and RCIC Steam Line Inboard Isolation Valve ght On, Green Light Off			
*****	******	********************			
Performance S	Step 3:	Critical X Not Critical			
[2.4]		CO Compt 4C, AND PLACE 0-BKR-084-0016A CONTAINMENT RE DILUTION SYSTEM B HEATER, breaker in OFF.			
Standard:					
Simula	ntes placing 0-B	3KR-084-0016A in Off			
SATUNSA	AT N/A	COMMENTS:			
CUE:	0-BKR-084-	0016A is in Off			
STOP TIME_	· ·				

.

(

	JPM k (16 op6) PAGE 6 OF 9
**************	************
Performance Step 4:	Critical $\_$ Not Critical $\underline{X}$
[3] <b>NOTIFY</b> Unit 3 Unit Supervisor of completi	on of this section.
[4] <b>PROCEED TO</b> 4160V Shutdown Board 3E	A in preparation of performing Section 3.0.
Standard:	
Notifies Unit 3 Unit Supervisor and proceeds t	to 4160 SD BD 3EA
SAT UNSAT N/ACOMMENTS:	
-	
CUE: Acknowledge notification and Notify (	Operator to perform section 3.0

JPM k (16 op6) PAGE 7 OF 9

JPM	k	(16 op6)	
PAGE	8	OF 9	

	PAGE 8 OF 9
***************	*********
Performance Step 6:	* Critical $\underline{X}$ Not Critical
3.0 RHR PUMP 3A LOCAL START	
(120 Min)	
*NOTE *If RHR pump fails to start, pushbutton on breaker must be	pe used.
[2] <b>PROCEED TO</b> 4160V Shutdown Board 3EA, Co 3A, AND <b>PERFORM</b> the following:	ompt 12, 3-BKR-074-0005 RHR PUMP
[2.3] <b>VERIFY</b> RHR Pump 3A has started by ob indications.	serving breaker AMMETER
Standard:	
Simulates depressing pushbutton on 3-BKR-074-0	005 and verifies Amps
SATUNSAT N/ACOMMENTS:	
CUE: Breaker 3-BKR-074-0005 pushbutton is dep light ON and Green Light OFF Breaker CLC AMPS	oressed, AMPS pegged high, Red DSED, current AMP reading is 180
STOP TIME	

**** <u>Perfo</u>	**************************************				
[3]	NOTIFY Unit 3 Unit Supervisor of the completion of this section.				
[4]	PROCEED TO 4160 Shutdown Board A in preparation of performing Section 4.0.				
Stand	<u>rd:</u>				
	Notifies Unit 3 Unit Supervisor				
SAT_	UNSATN/ACOMMENTS:				
CUE:	Another Operator will continue with section 4.0				

**END OF TASK** 

JPM k (16 op6) PAGE 9 OF 9