OPERATOR:	
RO SRO _	DATE:
JPM NUMBER:	a
TASK NUMBER:	U-085-AB-03
TASK TITLE: CRD I	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TASK STANDARD:	Withdraws Control Rod, if withdrawn to position 48; performs a coupling check, ranges IRMs to prevent a full scram signal, and inserts a manual scram; when unable to restore CRD drive water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: 2-OI-85 and 2-AOI-85-3
VALIDATION TIME	: 15 minutes
MAX. TIME ALLOW	/ED: (Completed for Time Critical JPMs only)
PERFORMANCE TI	ME:
	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 9 are for Continuous withdrawal, steps 10 through 14 are for Notch withdrawal.

ART TIME ********************************	**********
formance Step 1:	Critical X Not Critical
.4 Continuous Rod Withdrawal	
SELECT the desired control rod by depressing the a pushbutton, 2-XS-85-40.	appropriate CRD ROD SELECT
ndard:	
Selects Control Rod 30-35 by depressing 30-35 pushb	outton.
T UNSAT N/ACOMMENTS:	
***************	********
formance Step 2:	Critical Not Critical X
OBSERVE the following for selected control rod:	
 CRD ROD SELECT pushbutton is brightly II White light on the Full Core Display ILLUM Rod Out Permit light ILLUMINATED. 	
ndard:	
Observes the above indications.	
Γ UNSAT N/ACOMMENTS:	
nda	**************************************

JPM a PAGE 5 OF 14

****	************	**************
Perfor	mance Step 3:	Critical $_$ Not Critical \underline{X}
[3]	VERIFY ROD WORTH MINIMIZ GROUP, when Rod Worth Minimiz	ZER operable and LATCHED in to correct ROD zer is enforcing.
Standa	<u>rd:</u>	
	Verifies Rod Worth Minimizer response	onded correctly.
SAT_	_ UNSAT N/ACOMMENTS	•
****	**********	***************
Perfor	mance Step 4:	Critical $_$ Not Critical \underline{X}
[4]	VERIFY Control Rod is being with	ndrawn to a position greater than three notches.
Standa	rd:	
	Verifies Control Rod 30-35 is going	from position 16 to 48.
SAT_	_UNSATN/ACOMMENTS	·

*****	******	******	********	******	******	******
_						

Performance Step 5:

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 switch, 2-HS-85-47, in Notch Override and, 2-HS-85-48, in Rod Out Notch.

SAT	UNSAT	N/A	COMMENTS:	

Performance Step 6:

*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.

Standard:

SAT_	_UNSAT	_ N/A _	_COMMENTS:	
------	--------	---------	------------	--

NRC NOTE these are Conting	ency Coupling Check ************************************	
Performance Step 7: Critical X Not Critical		
integrity check will be pe CRD CONTROL SWITC	wing the control rod to position 48, the control rod coupling erformed after the CRD NOTCH OVERRIDE, 2-HS-85-47, and CH, 2-HS-85-48 are to be released. THEN PERFORM control eck as follows (otherwise N/A):	
[7.1] PLACE AND H O OVERRRIDE.	OLD CRD NOTCH OVERRIDE, 2-HS-85-47, in NOTCH	
[7.2] PLACE AND H ONOTCH.	OLD CRD CONTROL SWITCH, 2-HS-85-48, in ROD OUT	
Standard:		
Override and, 2-HS-85-48, in Ro		
SATUNSATN/ACO	MMENTS:	
**************************************	**************************************	
	48 is reached, THEN RELEASE CRD NOTCH OVERRIDE, CRD CONTROL SWITCH, 2-HS-85-48.	
*[7.4] VERIFY control	rod settles into position 48.	
Standard:		
Stops withdraw of Contro rod settles at position 48.	l Rod 30-35 at position 48 by releasing hand switches and verifies	
SATUNSATN/ACO	MMENTS:	

Performance Step 9:

*Critical X Not Critical

- *[7.5] **PLACE** CRD CONTROL SWITCH, 2-HS-85-48, in ROD OUT NOTCH, and **RELEASE**.
- [7.6] **CHECK** control rod coupled by observing the following:
 - Four rod display digital readout **AND** full core display digital readout **AND** background light will remain illuminated.
 - CONTROL ROD OVERTRAVEL annunciator (2-XA-55-5A, Window 14) does NOT alarm.
- [7.7] **CHECK** control rod settles into position 48 and ROD SETTLE light extinguishes.

Standard:

If control rod is withdrawn to position 48, performs a coupling check.

SAT	UNSAT	N/A	COMMENTS:	

****	**************	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
<u>Perfo</u>	ermance Step 10:	Critical _ Not Critical <u>X</u>
6.6.3	Control Rod Notch Withdrawal	
[1]	SELECT the desired control rod by depressing pushbutton, 2-XS-85-40.	g the appropriate CRD ROD SELECT
Stand	lard:	
	Selects Control Rod 38-43 by depressing 38-43	pushbutton.
SAT	UNSAT N/A COMMENTS:	
-	ONSATN/ACOMMENTS	
	ONSATIVACOMMENTS	

**** Perfo	***********	**************************************
****	**************************************	**************************************
**** Perfo	**************************************	********************************** Critical _ Not Critical <u>X</u> rod: thtly ILLUMINATED.
**** Perfo	********************************* *****	*********************************** Critical _ Not Critical <u>X</u> rod: thtly ILLUMINATED.
***** Perfo [2]	********************************* *****	*********************************** Critical _ Not Critical <u>X</u> rod: thtly ILLUMINATED.
**** Perfo [2] Stand	******************************** ******	************************************* Critical _ Not Critical <u>X</u> rod: chtly ILLUMINATED.

JPM a PAGE 11 OF 14

Perfor	rmance Step 12:	Critical $_$ Not Critical \underline{X}
[3]	VERIFY ROD WORTH MINIMIZER operable and LATO GROUP, when Rod Worth Minimizer is enforcing.	CHED in to correct ROD
Standa	ard:	
from 1	Verifies Rod Worth Minimizer responded correctly and verified to 48.	fied Control Rod 38-43 is going
SAT_	UNSATN/ACOMMENTS:	
****	****************	*******
	mance Step 13:	*Critical X Not Critical
*[4]	PLACE CRD CONTROL SWITCH, 2-HS-85-48, in ROD RELEASE.	OUT NOTCH, and
[5]	OBSERVE the control rod settles into the desired position extinguishes.	and the ROD SETTLE light
Standa	ard:	
	Withdraws control rod 38-43.	
SAT_	UNSAT N/ACOMMENTS:	
•••••		

<u>Performanc</u>	Step 14: *Critical \underline{X} Not Critical	ıl
	ontrol rod is notch withdrawn to rod notch Position 48, THEN PERFORM cooupling integrity check as follows:	ntrol
*[6.] PLACE CRD CONTROL SWITCH, 2-HS-85-48, in ROD OUT NOTCH, a RELEASE .	and
[6.2	CHECK control rod coupled by observing the following:	
	 Four rod display digital readout AND the full cores display digital re AND background light remain illuminated. 	adou
	• CONTROL ROD OVERTRAVEL annunciator, 2-XA-55-5A, Wind 14, does NOT alarm.	ow
[6.3]	CHECK the control rod settles into Position 48 and the ROD SETTLE light extinguishes.	t
Standard:		
If Co	ntrol Rod is withdrawn to position 48, performs a coupling check.	
SAT UN	SAT N/ACOMMENTS:	

JPM	a		
PAGE	13	OF	14

*******	***********	***********
Performance Step 15	<u>:</u>	Critical X Not Critical
	nges IRMs as necessary; to maintain go the upscale reading of 90/125.	reater than the downscale reading of
Note: the High-High	of 116.4/125 will produce a scram sig	gnal.
Standard:		
	s to clear or prevent a Rod Block signal signal from IRMs while withdrawi	
SATUNSAT	N/ACOMMENTS:	
******	*********	***********
Performance Step 16	<u>:</u>	Critical _ Not Critical X
4.1 Immediate Action	ons	
	erating CRD PUMP has failed AND N PERFORM the following at Pane	the standby CRD Pump is available, 1 2-9-5:
[1.1]	PLACE CRD SYSTEM FLOW C minimum setting.	ONTROL, 2-FIC-85-11, in MAN at
Standard:		
Places CRD S	System Flow Control in Manual and a	t Minimum setting.
SATUNSAT	N/ACOMMENTS:	

******	********	*****************
Performance Ste	<u>o 17:</u>	Critical _ Not Critical X
[:	.2] START associate	ed standby CRD Pump using one of the following:
		using 2-HS-85-2A using 2-HS-85-1A
Standard:		
Attempts	to start standby CRD Pu	amp and may also attempt to start tripped CRD Pump.
SATUNSAT	N/ACOMMEN'	TS:
********** Performance Ste		**************************************
	Reactor Pressure is les	ss than 900 PSIG and either of the following conditions
•	In-service CRD Pt	ump tripped and neither CRD Pump can be started, OR
•		ressure can NOT be restored and maintained above PERFORM the following:
[2	_	CRAM Reactor, IMMEDIATELY PLACE the reactor e SHUTDOWN position.
Standard:		
Insert a M	anual Scram and places	Mode Switch in Shutdown.
SATUNSAT_	N/ACOMMENT	TS:
CUE:	After Scram report anot	ther operator will continue in 2-AOI-100-1.
		END OF TASK

STOP TIME ____

. C²

OPERATOR:	
RO SRO _	DATE:
JPM NUMBER:	a
TASK NUMBER:	U-085-AB-03
TASK TITLE: CRD I	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 TII	ME:
	heets attached? YES NO
RESULTS: SATIS	FACTORY 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 9 are for Continuous withdrawal, steps 10 through 14 are for Notch withdrawal.

	KT TIME_ ************************************
Perfo	rmance Step 1: Critical X Not Critical
6.6.4	Continuous Rod Withdrawal
[1]	SELECT the desired control rod by depressing the appropriate CRD ROD SELECT pushbutton, 3-XS-85-40.
Stand	ard:
	Selects Control Rod 30-35 by depressing 30-35 pushbutton.
SAT_	UNSAT N/ACOMMENTS:
****	*************************
Perfor	<u>rmance Step 2:</u> Critical _ Not Critical <u>X</u>
[2]	OBSERVE the following for selected control rod:
	 CRD ROD SELECT pushbutton is brightly ILLUMINATED. White light on the Full Core Display ILLUMINATED. Rod Out Permit light ILLUMINATED.
Standa	ard:
	Observes the above indications.
SAT_	UNSAT N/ACOMMENTS:

JPM a PAGE 5 OF 14

Perfo	rmance Step 3:	Critical _ Not Critical \underline{X}				
[3] VERIFY ROD WORTH MINIMIZER operable and LATCHED in to correct ROGROUP, when Rod Worth Minimizer is enforcing.						
Stand	lard:					
	Verifies Rod Worth Minimizer responded correctly	,				
SAT	UNSAT N/ACOMMENTS:					
****	**************************************	**************************************				
****		Critical _ Not Critical X				
***** Perfor	rmance Step 4: VERIFY Control Rod is being withdrawn to a po	Critical _ Not Critical X				
***** Perfor	rmance Step 4: VERIFY Control Rod is being withdrawn to a po	Critical $_$ Not Critical \underline{X} sition greater than three notches.				
***** Perfor [4] Stand	rmance Step 4: VERIFY Control Rod is being withdrawn to a poard:	Critical _ Not Critical X sition greater than three notches.				

Performance Step 5:

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 OVERRIDE.
 - [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:	

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

Performance Step 6:

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:	*****

		these are Contingency Coupling Che ************************************	CK **************
Perfor	mance S	<u>Step 7:</u>	Critical X Not Critical
[7]	integri CRD	ty check will be performed after the C	I to position 48, the control rod coupling CRD NOTCH OVERRIDE, 3-HS-85-47, and to be released. THEN PERFORM control erwise N/A):
	[7.1]	PLACE AND HOLD CRD NOTCH OVERRRIDE.	H OVERRIDE, 3-HS-85-47, in NOTCH
	[7.2]	PLACE AND HOLD CRD CONTR NOTCH.	ROL SWITCH, 3-HS-85-48, in ROD OUT
Standa	ırd:		
Overri		uously withdraws Control Rod 30-35 t 3-HS-85-48, in Rod Out Notch.	by holding switch, 3-HS-85-47, in Notch
SAT_	_UNSA	AT N/ACOMMENTS:	
		· .	
****	*****	***********	***********
Perform	mance S	tep 8:	*Critical $_$ Not Critical \underline{X}
	*[7.3]	WHEN position 48 is reached, THE 3-HS-85-47, and CRD CONTROL S	N RELEASE CRD NOTCH OVERRIDE, WITCH, 3-HS-85-48.
	[7.4]	VERIFY control rod settles into pos	ition 48.
Standa	<u>rd:</u>		
rod set		withdraw of Control Rod 30-35 at position 48.	tion 48 by releasing hand switches and verifies
SAT_	_UNSA	ATN/ACOMMENTS:	

Performance Step 9:

*Critical X Not Critical

- *[7.5] **PLACE** CRD CONTROL SWITCH, 3-HS-85-48, in ROD OUT NOTCH, and **RELEASE**.
- [7.6] **CHECK** control rod coupled by observing the following:
 - Four rod display digital readout **AND** full core display digital readout **AND** background light will remain illuminated.
 - CONTROL ROD OVERTRAVEL annunciator (3-XA-55-5A, Window 14) does **NOT** alarm.
- [7.7] **CHECK** control rod settles into position 48 and ROD SETTLE light extinguishes.

Standard:

If control	rod	is	withdrawn	to	position	48.	performs	a	counling	check	-
ii commo	LIOU	10	WILLIAM WWII	w	position	. 10,	periornis	и	Couping	CHOCK	

SAT	UNSAT	N/A	COMMENTS:

Perto	ormance Step 10:	Critical X Not Critical
6.6.3	Control Rod Notch Withdrawal	
[1]	SELECT the desired control rod by depresentation, 3-XS-85-40.	ressing the appropriate CRD ROD SELECT
Stand	lard:	
	Selects Control Rod 30-35 by depressing	30-35 pushbutton.
SAT_	UNSATN/ACOMMENTS:	·
****	************	**************
<u>Perfor</u>	rmance Step 11:	Critical Not Critical X
[2]	OBSERVE the following for selected co	entrol rod:
	 CRD ROD SELECT pushbutton White light on the Full Core Disp Rod Out Permit light ILLUMINA 	lay ILLUMINATED.
Stand	ard:	
	Observes the above indications.	

JPM a PAGE 11 OF 14

<u>Perfo</u>	ormance Step 12:	Critical _ Not Critical X
[3]	VERIFY ROD WORTH MINIMIZER operable a GROUP, when Rod Worth Minimizer is enforcing	
Stand	dard:	
from	Verifies Rod Worth Minimizer responded correctly position 16 to 48.	y and verified Control Rod 30-35 is going
SAT_	UNSAT N/ACOMMENTS:	
****	*************	***********
Perfor	ormance Step 13:	*Critical X Not Critical
*[4]	PLACE CRD CONTROL SWITCH, 3-HS-85-48 RELEASE.	B, in ROD OUT NOTCH, and
[5]	OBSERVE the control rod settles into the desired extinguishes.	d position and the ROD SETTLE light
Stand	dard:	
	Withdraws control rod 30-35.	
SAT_	UNSAT N/ACOMMENTS:	

************	**************
Performance Step 14:	*Critical \underline{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 F	Rod is wi	thdrawn to position 48, performs a coupling of	check.
SAT_	_UNSAT	_ N/A _	COMMENTS:	

JPM	a		
PAGE	13	OF	14

Not Critical scale reading of
scale reading of
be a failure.

ımp is available,
-11, in MAN at
<u>;</u> .

<u>r er 101</u>	mance	Step 17:	Critical _ Not Critical X
		[1.2]	START associated standby CRD Pump using one of the following:
			CRD Pump 3B, using 3-HS-85-2ACRD Pump 3A, using 3-HS-85-1A
Standa	ard:		
	Attem	pts to st	art standby CRD Pump and may also attempt to start tripped CRD Pump.
SAT_	_UNS	AT1	N/ACOMMENTS:
		***** Step 18:	**************************************
	[2]	IF Rea	actor Pressure is less than 900 PSIG and either of the following conditions
		•	In-service CRD Pump tripped and neither CRD Pump can be started, OR
		•	Charging Water Pressure can NOT be restored and maintained above 940 PSIG, THEN PERFORM the following:
		[2.1]	MANUALLY SCRAM Reactor, IMMEDIATELY PLACE the reactor mode switch in the SHUTDOWN position.
Standa	ırd:		
	Insert	a Manua	al Scram and places Mode Switch in Shutdown.
SAT_	_UNS	AT	N/ACOMMENTS:
C	JE:	Afto	er Scram report another operator will continue in 3-AOI-100-1.
			END OF TASK

STOP TIME ___

OPERATOR	•	
RO	SRO_	DATE:
JPM NUMBI	ER:	b
TASK NUM	BER:	U-003-AL-16
TASK TITLE	E: RFPT	Trip recovery
K/A NUMBE	ER: 2590	01 A2.01 K/A RATING: RO 3.7 SRO 3.7
TASK STAN	DARD:	RFPT Recovered and restoring Reactor Level prior to an automatic Reactor Scram on Level.
LOCATION	OF PER	FORMANCE: Simulator
REFERENCE	ES/PRO	CEDURES NEEDED: 2-AOI-3-1
VALIDATIO	N TIME	: 15 minutes
MAX. TIME	ALLOW	ED: (Completed for Time Critical JPMs only)
PERFORMA	NCE TI	ME:
•		
Additional co	mment s	heets attached? YES NO
RESULTS:	SATIS	FACTORY 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 using Manual Governor Control in accordance with 2-AOI-3-1, Loss of Reactor Feedwater or Reactor Water Level High/Low starting at step 8. Level band is the normal operating band.

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 using Manual Governor Control in accordance with 2-AOI-3-1, Loss of Reactor Feedwater or Reactor Water Level High/Low starting at step 8. Level band is the normal operating band.

******	`IME**********************************	********
Performan	ce Step 1:	*Critical X Not Critical
[8] IF	RFPT has tripped and needed to maintain level, THEN I	PERFORM the following:
[8.	1] OBTAIN SRO permission to restart RFPT.	
*[8	3.2] RESET trip by using pushbutton.	
Standard:		
Re	sets trip by depressing reset pushbutton for RFPT C	
SAT U	NSATN/ACOMMENTS:	
******** Performan	**************************************	**************************************
[8	3] DEPRESS RFPT Speed Control Raise/Lower switch position.	to MANUAL GOVERNOR
Standard:		
De	presses RFPT C Speed Control Raise/Lower switch to Ma	anual Governor position.
SAT U	NSAT N/ACOMMENTS:	
******* Performand	**************************************	**************************************
[8.4	4] PLACE RFPT Start/Local enable switch to START.	
Standard:		
Pla	ces RFPT C Start/Local enable switch to Start.	
SAT UN	NSAT N/ACOMMENTS:	www.to.to.

*****************	******	******
Performance Step 4:	Critical _ N	Not Critical X
[8.5] VERIFY RFPT accelerates to approximately 600 r	pm.	
Standard:		
Verifies RFPT C accelerates		
SATUNSAT N/ACOMMENTS:		
*****************	******	******
Performance Step 5:	Critical X 1	Not Critical
[8.7] For Slow Recovery of RFPT in MANUAL GOVER using RFPT Speed Control Raise/Lower switch until		_
Standard:		
Raises speed of RFPT C using RFPT Speed Control switch Reactor Level	and restores a	and maintains
SAT UNSAT N/ACOMMENTS:		
END OF TASK		
STOP TIME		

C

OPERATOR:			
RO	SRO	_ DATE:_	
JPM NUMBE	R: b		
TASK NUMB	ER: U-	-003-AL-16	
TASK TITLE:	RFPT Tri	p recovery	
K/A NUMBER	R: 259001	A2.01	K/A RATING: RO 3.7 SRO 3.7
TASK STAND		FPT Recovered and recram on Level.	estoring Reactor Level prior to an automatic Reactor
LOCATION O	F PERFO	RMANCE: Simulate	or
REFERENCES/PROCEDURES NEEDED: 3-AOI-3-1			
VALIDATION	TIME: 1	5 minutes	
MAX. TIME ALLOWED: (Completed for Time Critical JPMs only)			
PERFORMAN	CE TIME	:	
Additional com	ment shee	ets attached? YES	NO
RESULTS:	SATISFA	CTORY	JNSATISFACTORY
SIGNATURE:	ЕХ	KAMINER	DATE:

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 using Manual Governor Control in accordance with 3-AOI-3-1, Loss of Reactor Feedwater or Reactor Water Level High/Low starting at step 11. Level Band is the normal operating band.

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 using Manual Governor Control in accordance with 3-AOI-3-1, Loss of Reactor Feedwater or Reactor Water Level High/Low starting at step 11. Level Band is the normal operating band.

	RT TIME_ :************************************	********
Perfor	mance Step 1:	* Critical X Not Critical
[11]	IF RFPT has tripped and it is needed to maintain level, TH following:	EN PERFORM the
	[11.1] OBTAIN Unit Supervisor permission to restart RFI	PT.
	*[11.2] RESET trip by using pushbutton.	
Standa	ard:	
	Resets trip by depressing reset pushbutton for RFPT C	
SAT_	UNSAT N/ACOMMENTS:	
	**************************************	Critical X Not Critical
Standa	ard:	
	Depresses RFPT C Speed Control Raise/Lower switch to M	lanual Governor position.
SAT_	UNSAT N/ACOMMENTS:	
	**************************************	Critical X Not Critical
Standa	ard:	
	Places RFPT C Start/Local enable switch to Start.	
SAT_	_UNSAT N/ACOMMENTS:	

*******************	*********
Performance Step 4:	Critical _ Not Critical X
[11.5] VERIFY RFPT accelerates to approximately 600 rpr	m.
Standard:	
Verifies RFPT C accelerates	
SATUNSATN/ACOMMENTS:	·
**************************************	**************************************
[11.7] IF Slow Recovery of RFPT in MANUAL GOVERNO RAISE RFPT speed using RFPT Speed Control Rais flow is obtained.	
Standard:	
Raises speed of RFPT C using RFPT Speed Control switch an Reactor Level	d restores and maintains
SAT UNSAT N/ACOMMENTS:	
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 PE	RFORMANCE: Simulator
REFERENCES/PRO	OCEDURES NEEDED: 2-EOI APPENDIX-11D
VALIDATION TIM	E: 10 minutes
MAX. TIME ALLO	WED: (Completed for Time Critical JPMs only)
PERFORMANCE T	IME:
COMMENTS:	
Additional comment	sheets attached? YES NO
RESULTS: SATI	SFACTORY UNSATISFACTORY
SIGNATURE:	DATE:

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 700 to 900 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 700 to 900 psig.

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

JPM	С			
PAGE	5	OF	7	

Performance Step 3:	Critical _ Not Critical X
3. CONTROL RPV pressure v	with Main Steam line drains as follows:
a. VERIFY PCIS reset	•
Standard:	
Verifies PCIS Reset	
SAT UNSAT N/ACOMMENTS	:
***********	************
Performance Step 4:	Critical X Not Critical
b. OPEN the following	valves (Panel 9-3):
•	M LINE DRAIN INBD ISOLATION VLV
	M LINE DRAIN OUTBD ISOLATION VLV EAM MSL DRAIN TO CONDENSER
Standard:	
Opens 2-FCV-1-55, 2-FCV-1-56, an	d 2-FCV-1-58
Opens 2-FCV-1-55, 2-FCV-1-56, an	

JPM	С		
PAGE	6	OF	-

Perforn	nance S	Step 5:		Critical X Not Critical
	4.		TLE 2-FCV-1-59, DC ary to control cooldow	WNSTREAM MSL DRAIN TO CONDENSER, n rate.
Standar	<u>rd:</u>			
	Thrott	les 2-FCV	-1-59 open and control	cooldown rate
SAT	UNS	AT N/A	COMMENTS:	
CUE			sary when 2-FCV-1-59 essure Control is neces	9 is full open, Direct Operator that "Additional sary"
*****	****	*****	*******	***********
Perform	nance S	Step 6:		Critical X Not Critical
	5.	IF At leas	et one main steam line EITHER of the f	*
		Tı	arbine bypass valves ar	
		A	dditional RPV pressur	e control is necessary,
		THEN CO	ONTROL RPV pressu	re with Main Turbine and RFPT drains as follows:
		a. O	PEN the following Ma	in Turbine Drain valves (Panel 9-7):
		•	2-FCV-6-101, ST 2-FCV-6-102, ST	OP VALVE 1 BEFORE SEAT DR VLV OP VALVE 2 BEFORE SEAT DR VLV OP VALVE 3 BEFORE SEAT DR VLV OP VALVE 4 BEFORE SEAT DR VLV
Standard	<u>d:</u>			
(Opens	2-FCV-6-1	.00, 2-FCV-6-101, 2-F	CV-6-102, and 2-FCV-6-103
SAT	UNSA	AT N/A	COMMENTS:	

*******	*******************
Performance Step 7:	Critical X Not Critical
b.	OPEN the following RFPT drain valves (Panel 9-6):
	 2-FCV-6-122, RFPT 2A HP STOP VLV ABOVE SEAT DR 2-FCV-6-127, RFPT 2B HP STOP VLV ABOVE SEAT DR 2-FCV-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
SATUNSATN	I/ACOMMENTS:
CUE: Anot	ther Operator is working on other means of Pressure Control

END OF TASK

STOP TIME____

OPERATOR:	
RO SRO_	DATE:
JPM NUMBER:	c ·
TASK NUMBER:	U-000-EM-50
TASK TITLE:	3-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: 3-EOI APPENDIX-11D
VALIDATION TIME	: 10 minutes
MAX. TIME ALLOW	TED: (Completed for Time Critical JPMs only)
PERFORMANCE TI	ME:
COMMENTS:	
Additional comment s	heets attached? YES NO
RESULTS: SATIS	FACTORY UNSATISFACTORY
SIGNATURE:	EXAMINER DATE:

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 700 to 900 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 700 to 900 psig.

START TIME

<u>Performance Step 1:</u> Critical _ Not Critical <u>X</u>
1. IF <u>BOTH</u> of the following exist:
 Emergency RPV Depressurization is required, AND Group 1 Isolation Signal exists,
THEN EXIT this procedure and ENTER EOI Appendix 11H.
Standard:
Given in initial conditions, does not exit procedure
SATUNSAT N/ACOMMENTS:

<u>Performance Step 2:</u> Critical _ Not Critical <u>X</u>
2. VERIFY hotwell pressure below -7 in. Hg.
Standard:
Verifies hotwell pressure less than -7 in. Hg.
SATUNSAT N/ACOMMENTS:

JPM	C		
PAGE	5	OF	7

rformance Step 3:	Critical _ Not Critical <u>X</u>
3. CONTROL RPV pressure with Mair	n Steam line drains as follows:
a. VERIFY PCIS reset.	
andard:	
Verifies PCIS Reset	
T UNSAT N/ACOMMENTS:	
*************	************
formance Step 4:	Critical <u>X</u> Not Critical
b. OPEN the following valves (a	Panel 3-9-3):
	DRAIN INBD ISOLATION VLV
•	DRAIN OUTBD ISOLATION VLV SL DRAIN TO CONDENSER
ndard:	
Opens 3-FCV-1-55, 3-FCV-1-56, and 3-FCV	7-1-58

JPM	С		
PAGE	6	OF	7

**************************************	**************************************
4. THROTTLE 3 -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	
SATUNSAT N/ACOMMENTS:	
CUE: If necessary when 3-FCV-1-59 is full open, Direct RPV Pressure Control is necessary"	Operator that "Additional
**************************************	**************************************
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, OR	
Additional RPV pressure control is necessar	ary,
THEN CONTROL RPV pressure with Main Turbin	ne and RFPT drains as follows:
a. OPEN the following Main Turbine Drain va	lves (Panel 3-9-7):
 3-FCV-6-100, STOP VALVE 1 BEF 3-FCV-6-101, STOP VALVE 2 BEF 3-FCV-6-102, STOP VALVE 3 BEF 3-FCV-6-103, STOP VALVE 4 BEF 	ORE SEAT DR VLV ORE 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	C		
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:	
				_

CUE: Another Operator is working on other means of Pressure Control

END OF TASK

STOP TIME____

OPERATOR: _		•	
ROS	RO D	ATE:	
JPM NUMBER:	d		
TASK NUMBE	R: U-000-EM-50		
TASK TITLE:		IX-8F – Restore Reactor and E Group 6 Isolation	Refuel Zone Ventilation
K/A NUMBER:	295032 EA1.03	K/A RATING: RO 3.7	SRO 3.7
TASK STANDA	ARD: Restore Reactor following a Grou	and Refuel Zone Ventilation F up 6 Isolation	ans
PERFORMANC	E LOCATION:	Simulator	
REFERENCES/	PROCEDURES NEED	DED: 2-EOI-Appendix-8F	
VALIDATION 7	ΓΙΜΕ: 10 minutes		
MAX. TIME AL	LOWED:		
PERFORMANC	E TIME:		
COMMENTS: _			
Additional comm	ent sheets attached? Y	ES NO	
RESULTS: SA	ATISFACTORY	UNSATISFACTORY	
SIGNATURE:	EXAMINER	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.

)
Performance Step 1: Critical X Not Critical
. VERIFY PCIS Reset.
Standard:
Resets PCIS
SATUNSAT N/ACOMMENTS:

<u>Performance Step 2:</u> Critical X Not Critical
PLACE Refuel Zone Ventilation in service as follows (Panel 2-9-25):
a. VERIFY 2-HS-64-3A, REFUEL ZONE FANS AND DAMPERS, control switch is in OFF.
tandard:
Places 2-HS-64-3A in the Off position.
AT UNSAT N/ACOMMENTS:

erformance Step 3: Critical X Not Critical
b. PLACE 2-HS-64-3A, REFUEL ZONE FANS AND DAMPERS, control switch to SLOW A (SLOW B).
tandard:
Places 2-HS-64-3A to SLOW A or SLOW B position.
AT UNSAT N/ACOMMENTS:

1 CHOIIIanc	ce Step 4:	Critical $_$ Not Critical \underline{X}
c.	CHECK two SPLY/EXH A(B) green ZONE FANS AND DAMPERS, cont A(B) red lights illuminate.	a lights above 2-HS-64-3A, REFUEL rol switch extinguish and two SPLY/EXH
Standard:		
Veri	rifies proper combination of lights On and	Off above 2-HS-64-3A.
SAT UN	NSAT N/ACOMMENTS:	
*****	**********	*********
Performance		Critical _ Not Critical X
d.	VERIFY OPEN the following dampe	ers:
	 2-FCO-64-5, REFUEL ZONE 2-FCO-64-6, REFUEL ZONE 2-FCO-64-9, REFUEL ZONE 2-FCO-64-10, REFUEL ZONE 	SPLY INBD ISOL DMPR EXH OUTBD ISOL DMPR
Standard:		
37 •	ifies Red position indicating lamps On for	dampers listed above
Veri		

**********	******************
Performance Step 6:	Critical \underline{X} Not Critical
3. PLACE Reactor Zone Ventilation	on in service as follows (Panel 2-9-25):
a. VERIFY 2-HS-64-11A, control switch is in OFF.	REACTOR ZONE FANS AND DAMPERS,
Standard:	
Places 2-HS-64-11A in the Off p	position.
SAT UNSAT N/ACOMMEN	TS:
	·
**********	***************
Performance Step 7:	Critical X Not Critical
b. PLACE 2-HS-64-11A, F control switch in SLOW	REACTOR ZONE FANS AND DAMPERS, A (SLOW B).
Standard:	
Places 2-HS-64-11A to SLOW A	A or SLOW B position.
SAT UNSAT N/ACOMMEN	TS:

*****	***************************************	**********
Performance St	Step 8:	Critical _ Not Critical X
	CHECK two SPLY/EXH A(B) green lights above ZONE FANS AND DAMPERS, control switch e A(B) red lights illuminate.	
Standard:		
Verifie	es proper combination of lights On and Off above	2-HS-64-3A.
SATUNSA	AT N/ACOMMENTS:	
Performance St	VERIFY OPEN the following dampers:	Critical _ Not Critical X
	• 2-FCO-64-13, REACTOR ZONE SPLY	
	 2-FCO-64-14, REACTOR ZONE SPLY I 2-FCO-64-42, REACTOR ZONE EXH II 	
	• 2-FCO-64-43, REACTOR ZONE EXH C	
Standard:		
Verifies	s Red position indicating lamps On for dampers list	eed above
SATUNSA	ATN/ACOMMENTS:	

****	*******************	********
Perfor	mance Step 10:	Critical _ Not Critical X
4. Standa	IF SGTS is NOT required for operation, THEN SECURE and:	SGTS as follows:
		
	Given in Initial conditions that SGTS is required.	
SAT_	_UNSATN/ACOMMENTS:	
	*******************	**********
Perform	mance Step 11:	Critical \underline{X}
5.	IF Reactor Zone Fan fast speed is desired following 5 minut THEN PLACE 2-HS-64-11A, REACTOR ZONE FANS A switch in FAST A (FAST B).	
Standa	<u>rd:</u>	
	Places 2-HS-64-11A in either FAST A or FAST B position in fans were started in slow	in accordance with which set o
SAT	_UNSATN/ACOMMENTS:	
CUE	: Five Minutes has elapsed	

Performance Step 12:	Critical _ Not Critical X		
<u> </u>	IF Refuel Zone Fan fast speed is desired following 5 minutes of slow speed operation, THEN PLACE 2-HS-64-3A, REFUEL ZONE FANS AND DAMPERS, control switch 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		
SATUNSAT N/ACOMMENTS:			
CUE: Five Minutes has elapsed			
END OF TASK			
STOP TIME:			

C

OPERATOR:
RO DATE:
JPM NUMBER: d
TASK NUMBER: U-000-EM-50
TASK TITLE: 3-EOI APPENDIX-8F – Restore Reactor and Refuel Zone Ventilation Fan following a Group 6 Isolation
K/A NUMBER: 295032 EA1 .03
TASK STANDARD: Restore Reactor and Refuel Zone Ventilation Fans following a Group 6 Isolation
PERFORMANCE LOCATION: Simulator
REFERENCES/PROCEDURES NEEDED: 3-EOI Appendix-8F
VALIDATION TIME: 10 minutes
MAX. TIME ALLOWED:
PERFORMANCE TIME:
COMMENTS:
Additional comment sheets attached? YES NO
RESULTS: SATISFACTORY UNSATISFACTORY
SIGNATURE: DATE: EXAMINER

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

]	**
Performance Step 1: Critical X Not Critical	
VERIFY PCIS Reset.	
Standard:	
Resets PCIS	
SAT UNSAT N/ACOMMENTS:	
**************************************	**
PLACE Refuel Zone Ventilation in service as follows (Panel 3-9-25):	
a. VERIFY 3- HS-64-3A, REFUEL ZONE FANS AND DAMPERS, control swit is in OFF.	ch
Standard:	
Places 3-HS-64-3A in the Off position.	
SAT UNSAT N/ACOMMENTS:	

<u>Performance Step 3:</u> Critical X Not Critical	•*
b. PLACE 3-HS-64-3A, REFUEL ZONE FANS AND DAMPERS, control switch to SLOW A (SLOW B).	h
tandard:	
Places 3-HS-64-3A to SLOW A or SLOW B position.	
ATUNSAT N/ACOMMENTS:	

Performance	e Step 4:	Critical Not Critical X	
c.	` '	green lights above 3-HS-64-3A, REFUEL control switch extinguish and two SPLY/EXH	
Standard:			
Veri	ifies proper combination of lights Or	and Off above 3-HS-64-3A.	
SATUN	ISATN/ACOMMENTS:		
	· · · · · · · · · · · · · · · · · · ·		
*****	**********	*************	
Performance	e Step 5:	Critical Not Critical X	
d.	VERIFY OPEN the following d	ampers:	
	• 3-FCO-64-5, REFUEL Z	ONE SPLY OUTBD ISOL DMPR	
	· ·	ONE SPLY INBD ISOL DMPR	
	• 3-FCO-64-9, REFUEL Z	ONE EXH OUTBD ISOL DMPR	
	• 3-FCO-64-10, REFUEL 2	ZONE EXH INBD ISOL DMPR	
Standard:			
Veri	ifies Red position indicating lamps On	n for dampers listed above	
SAT UN	SATN/ACOMMENTS:		
1			

*************	************	
Performance Step 6:	Critical X Not Critical	
PLACE Reactor Zone Ventilation in service as follows (Panel 3-9-25):		
a. VERIFY 3-HS-64-11A, REACTOR control switch is in OFF.	ZONE FANS AND DAMPERS,	
Standard:		
Places 3-HS-64-11A in the Off position.		
SAT UNSAT N/ACOMMENTS:		
**************	***********	
Performance Step 7:	Critical X Not Critical	
b. PLACE 3-HS-64-11A, REACTOR Z control switch in SLOW A (SLOW B	•	
Standard:		
Places 3-HS-64-11A to SLOW A or SLOW I	B position.	
SAT UNSAT N/ACOMMENTS:		

*****	*****	********
Performance Step 8:		Critical Not Critical X
ZONI	c. CHECK two SPLY/EXH A(B) green lights above 3-HS-64-11A, REACTOR ZONE FANS AND DAMPERS, control switch extinguish and two SPLY/EXH A(B) red lights illuminate.	
Standard:		
Verifies prop	er combination of lights On	and Off above 3-HS-64-3A.
SATUNSAT1	N/ACOMMENTS:	
Performance Step 9:	**************************************	**************************************
• •	3-FCO-64-14, REACTOF 3-FCO-64-42, REACTOF	R ZONE SPLY OUTBD ISOL DMPR R ZONE SPLY INBD ISOL DMPR R ZONE EXH INBD ISOL DMPR R ZONE EXH OUTBD ISOL DMPR
Standard:		
Verifies Red p	position indicating lamps On	for dampers listed above
SATUNSAT1	N/ACOMMENTS:	

Performance Step 10:		Critical _ Not Critical X	
4.	IF SGTS is NOT required for operation, THEN SECURE S	SGTS as follows:	
Standa	urd:		
	Given in Initial conditions that SGTS is required.		
SAT_	UNSATN/ACOMMENTS:		
de de de de de de			

Perform	mance Step 11:	Critical Not Critical X	
5.	IF Reactor Zone Fan fast speed is desired following 5 minutes of slow speed operation, THEN PLACE 3-HS-64-11A, REACTOR ZONE FANS AND DAMPERS, control switch in FAST A (FAST B).		
Standa	rd:		
	Places 3-HS-64-11A in either FAST A or FAST B position in fans were started in slow	accordance with which set of	
SAT_	_UNSATN/ACOMMENTS:		
CUE	: Five Minutes has elapsed		

Performance Step 12:	Critical _ Not Critical X			
_	IF Refuel Zone Fan fast speed is desired following 5 minutes of slow speed operation, THEN PLACE 3-HS-64-3A, REFUEL ZONE FANS AND DAMPERS, control switch in FAST A (FAST B).			
Standard:				
Places 3-HS-64-3A in either FAST A or FAST B p of fans were started in slow.	osition in accordance with which set			
SATUNSAT 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: 2640	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 PERI	FORMANCE: Simulator
REFERENCES/PROC	CEDURES NEEDED: 0-SSI-20
VALIDATION TIME	: 15 minutes
MAX. TIME ALLOW	ED: NOT TIME CRITICAL Alternate Path
PERFORMANCE TIME	ME:
COMMENTS:	
Additional comment si	heets attached? YES NO
RESULTS: SATIS	FACTORY UNSATISFACTORY
SIGNATURE:	DATE:

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

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

START TIME		

1.0 ENERGIZING 4KV SHUTDOWN BOARDS A, C, AND D FROM UNIT 3 DIESEL GENERATORS 3A, 3C, AND 3D USING UNIT INTERTIE		
(20 Min)		
NOTE The following steps will energize 4KV Shutdown Boards A, C, and D from Unit 3 Diesel Generators as the only source.		
[1] Notification has been received from the Unit 2 Unit Supervisor to perform this section.		
[2] PROCEED TO Panel 3-9-23, AND PERFORM the following to align Shutdown Board 3EA:		
[2.1] VERIFY DG 3A CONTROL switch, 3-HS-82-3A/1A, in START.		
Standard:		
Starts DG 3A		
SAT UNSAT N/ACOMMENTS:		

[2.2] VERIFY 4KV SD BD 3EA AUTO TO MANUAL TRIP pushbutton, 3-HS-211-3EA, in MANUAL.		
Standard:		
Depresses 3-HS-211-3EA		
SATUNSAT N/ACOMMENTS:		

NRC NOTE: Trip to Manual allows the Normal Feeder Breaker to Open, if not in Manual Normal Feeder Breaker will NOT Open in next step

Performance	Step 3:	Critical X Not Critical
[2.3]	VERIFY 4KV SD BD 3EA NOI TRIP.	RM FDR BKR 1334, 3-HS-211-3EA/7A, in
Standard:		
Trips	Normal Feeder Breaker 1334	
SAT UNS	ATN/ACOMMENTS:	
******** Performance S		**************************************
[2.4]	VERIFY DG 3A BKR 1838 CL	OSED.
Standard:		
Verifi	es DG Breaker 1838 closes	
SAT UNS.	AT N/ACOMMENTS:	
*****	********	**********
Performance S		Critical X Not Critical
[2.5]	PLACE 4KV SD BD 3EA EME. CLOSE.	R FDR BKR 1844, 3-HS-211-3EA/1A, in
Standard:		
Closes	Emergency Feeder Breaker 1844	
SAT UNSA	AT N/ACOMMENTS:	

JPM e PAGE 6 OF 9

	**************************************	************************* Critical \underline{X} Not Critical	
[3]	PERFORM the following to align 4KV Shutdown Board 3EC:		
	[3.1] VERIFY DG 3C CONTROL switch, 3-HS-82-3C/1	A, in START.	
Standa	dard:		
	Starts DG 3C		
SAT_	UNSAT N/ACOMMENTS:		
	**************************************	**************************************	
	[3.2] VERIFY 4KV SD BD 3EC AUTO TO MANUAL T 3-HS-211-3EC, in MANUAL.	TRIP pushbutton,	
Standa	lard:		
	Depresses 3-HS-211-3EC		
SAT_	UNSAT N/ACOMMENTS:		
	**************************************	**************************************	
	[3.3] VERIFY 4KV SD BD 3EC NORM FDR BKR 1338 TRIP.	, 3-HS-211-3EC/12A, in	
Standa	lard:		
	Trips Normal Feeder Breaker 1338		
SAT_	UNSAT N/ACOMMENTS:		

JPM e PAGE 7 OF 9

Performance Step 9:	Critical _ Not Critical X		
[3.4] VERIFY DG 3C BKR 1832 CLOSED.			
Standard:	·		
Verifies DG Breaker 1832 closes			
SAT UNSAT N/ACOMMENTS:			
**************************************	**************************************		
[3.5] PLACE 4KV SD BD 3EC EMER FDR BKR 1834 CLOSE.	, 3-HS-211-3EC/6A, in		
Standard:			
Closes Emergency Feeder Breaker 1834			
SAT UNSAT N/ACOMMENTS:			

JPM	е		
PAGE	8	OF	9

Performance Step 11:	Critical X Not Critical		
[4] PERFORM the following to align 4KV Shutdown Board	PERFORM the following to align 4KV Shutdown Board 3ED:		
[4.1] VERIFY DG 3D CONTROL switch, 3-HS-82-3D/	/1A, in START.		
Standard:			
Starts DG 3D			
SAT UNSAT N/ACOMMENTS:			
DRIVER: after DG is started enter trigger 1 for Low Lube Oil	l Pressure		
*****************	********		
Performance Step 12:	Critical Not Critical X		
RESPONDS to the Alarm 9-23D WIN 4 (DIESEL GEN D LUBE OIL ABNORMAL) and notices the AMBER LIGHT (LOW LOW OIL PRESSURE)			
Standard:			
Responds per the ARP and Verifies the AMBER LIGHT is	lit.		
SAT UNSAT N/ACOMMENTS:			
CUE: If Assistant Unit Operator is called, <u>After Lube oil pressure</u> 9-23, report lube oil pressure low at 5 psig and Lube Oil is spracoupling			

Performance Step 13: Critical X Not Critical			
DIESEL GEN 3D LUBE OIL ABNORMAL Window 4			
SHUT DOWN the DG by Emergency Stop Pushbutton			
Standard:			
Shuts Down the DG with the Emergency Stop Pushbutton.			
SATUNSATN/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 15: Critical Not Critical X			
[5] NOTIFY Unit 2 Unit Supervisor of the completion of this section.			
[6] PROCEED TO 480V RMOV Board 3C in preparation of performing Section 2.0.			
Standard:			
Notifies Unit Supervisor			
SATUNSAT N/ACOMMENTS:			
CUE: Remain in Control Room another Operator has been dispatched to 480V RMOV Board 3C. JPM Complete			

END OF TASK

STOP TIME ___

OPERATOR:
RO SRO DATE:
JPM NUMBER: f
TASK NUMBER: 0-74-AB-01
TASK TITLE: Loss of Shutdown Cooling
K/A NUMBER: 295021 AA1.02 K/A RATING: RO 3.5 SRO 3.5
TASK STANDARD: Restores shutdown cooling following an inadvertent RPS actuation, will restore shutdown cooling with RHR Pump 2A and establish a cooldown IAW 2-AOI-74-1.
LOCATION OF PERFORMANCE: Simulator
REFERENCES/PROCEDURES NEEDED: 2-AOI-74-1
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 a Unit 2 operator. Unit 2 is in Mode 3 (Recirc Loop B temp > 212°F) heading towards cold conditions for a refueling outage. RHR Loop I using 2A RHR Pump was in shutdown cooling. Unit 1 is carrying 2000 gpm for RHRSW Pumps 'A2' and 'C2'. An inadvertent loss of 2B RPS bus resulted in a partial isolation of RHR shutdown cooling. RPS 2B has been restored on the alternate supply. Another operator is assisting with recovery from the loss of 2B RPS. An Auxiliary Operator is standing by for 2A RHR Pump start.

INITIATING CUES: The Unit Supervisor directs you to restore shutdown cooling using 2A RHR pump in accordance with 2-AOI-74-1 starting at step 12.

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 is in Mode 3 (Recirc Loop B temp > 212°F) heading towards cold conditions for a refueling outage. RHR Loop I using 2A RHR Pump was in shutdown cooling. Unit 1 is carrying 2000 gpm for RHRSW Pumps 'A2' and 'C2'. An inadvertent loss of 2B RPS bus resulted in a partial isolation of RHR shutdown cooling. RPS 2B has been restored on the alternate supply. Another operator is assisting with recovery from the loss of 2B RPS. An Auxiliary Operator is standing by for 2A RHR Pump start.

INITIATING CUES: The Unit Supervisor directs you to restore shutdown cooling using 2A RHR pump in accordance with 2-AOI-74-1 starting at step 12.

START TIM	1E			
******	**************	*****	******	
Performance	Step 1:	Critical	Not Critical X	
[12] IF the loss of Shutdown Cooling is due to Group 2 PCIS isolation, THEN (Otherwise N/A)				
	WHEN conditions permit resetting Group 2 PC the following:	CIS isolation a	re met, PERFORM	
[12.1] RESET Group 2 isolation by momentarily PLACING PCIS DIV I RESET, 2-HS-64-16A-S32, and PCIS DIV II RESET, 2-HS-64-16A-S33, in reset.				
Standard:			·	
	nel 2-9-4, RESETS Group 2 isolation by momen S-64-16A-S32, in reset and PCIS Div II RESET, 2	•		
SATUNS.	AT N/ACOMMENTS:			
-				
********* Performance	**************************************	*************** Critical	**************************************	
	[12.2] MOMENTARILY DEPRESS RHR SY ISOL RESET, 2-XS-74-126 and 2-XS-7 2-IL-74-132 extinguished.	` '	i i	
Standard:				
	entarily Depresses RHR SYS I SD CLG INBD IN -IL-74-132 extinguished.	JECT ISOL R	ESET, 2-XS-74-132	
SATUNSA	ATN/ACOMMENTS:			

Performance	Step 3:		**************************************
[13]	IF the loss of Shutdown Cooling is of signal fails to reset, or remain reset of THEN (Otherwise N/A)		
Standard:			
N/As	all Step 4.2[13], the PCIS signal is res	et in step 12.	
SATUNS	ATN/ACOMMENTS:		
******* Performance	**************************************		**************************************
[14]	IF the Group 2 PCIS Isolation has be	een reset, THEN (otherwis	se N/A)
	RETURN the affected loop of RHR	to Shutdown Cooling as f	ollows:
	[14.1] CLOSE RHR SYS I LPCI O 2-FCV-74-52.	UTBD INJECT VALVE,	
Standard:			
Closes	s 2-FCV-74-52		
SATUNSA	AT N/ACOMMENTS:		
******* Performance (**************************************		**************************************
	[14.2] OPEN RHR SYS I LPCI INE	BD INJECT VALVE, 2-FO	CV-74-53.
Standard:			
Opens	2-FCV-74-53		
SAT UNSA	AT N/ACOMMENTS:		

IHIBIT swi	
MIIIDII 5WI	tch,
****	******
Critical	Not Critical X
****	******
Critical	Not Critical X
C SUPPR	POOL SUCT VLVs
	********* Critical CC SUPPR

***************	*****	*****
Performance Step 9:	Critical	Not Critical X
[14.6] VERIFY OPEN RHR PUMP 2A and 2C S 2-FCV-74-2 and 2-FCV-74-13.	SD COOLII	NG SUCT VLVs,
Standard:		
Verifies 2-FCV-74-2 & 13 are open.		
SATUNSAT N/ACOMMENTS:		
**************************************		******** <u>X</u> Not Critical
[14.7] OPEN RHR SHUTDOWN COOLING SU VLVs, 2-FCV-74-47 and 2-FCV-74-48.	CT OUTBI	D and INBD ISOL
Standard:		
Opens *2-HS-74-47 and verifies 2-FCV-74-48 open.		
SAT UNSAT N/ACOMMENTS:		

Performance Step 11:	Critical 2	X Not Critical
[14.8] IF the tripped pump has been determined to with Unit Supervisor permission, THEN: RESTART tripped RHR pump(s) 2-HS-74-5A	_	
Standard:		
Starts 2A RHR Pump		
SAT UNSAT N/ACOMMENTS:	-	
Cue: The Auxiliary Operator has determined the pump to be in	operating	condition.
RHR Pump Start Time		

************	***************
Parformance Stan 12.	Cuiting! W. Mat Cuiting!

Performance Step 12:

Critical \underline{X} Not Critical

[14.9] **THROTTLE** RHR SYS I LPCI OUTBD INJECT VALVE, 2-FCV-74-52, to establish and maintain RHR flow as indicated by 2-FI-74-50, RHR SYS I FLOW, as follows:

RHR Pumps in Operation	1	2
Loop Flow	7,000 to 10,000 gpm	14,000 to 20,000 gpm
Loop Flow (1 or more fuel bundles removed from core)	6,000 to 6,500 gpm	N/A

Standard:

Manipulates 2-HS-74-52 to obtain RHR System I Loop flow between 7,000 and 10,000 gpm on 2-FI-74-50.

SAT	UNSAT	N/A	_COMMENTS:	 	

RHR SYSTEM Minimum Flow Guidance:

RHR Flow Established Time

To minimize system vibration, RHR pump operation should be minimized below 7,000 gpm or above 10,000 gpm, for more than 3 minutes at minimum flow.

Performance Step 13:		Not Critical X
A STOCKMENT STOP IS.	Circlear	Not Cittleat A
[14.10] WHEN time permits after RHR pump is	started, THF	EN
VERIFY RHR Pump Breaker charging spamber breaker spring charged light is on a charged.		
Standard:		
Dispatched personnel to verify RHR Pump 2A breaker cl	losing spring	recharged.
SATUNSAT N/ACOMMENTS:		
	· · · · · · · · · · · · · · · · · · ·	
CUE: If requested, Acknowledge and state Operator in rout	e	
******************	*****	*****
Performance Step 14:	Critical 2	X Not Critical
[14.11] SLOWLY THROTTLE RHR HX 2A R VALVE, 2-FCV-23-34, to obtain desired of		
Standard:		
Throttles 2-FCV-23-34 open to commence cooldown		
SAT UNSAT N/ACOMMENTS:		
CUE: That completes this task.		
END OF TASK		
STOP TIME:		

Ţ,

OPERATOR:
RO SRO DATE:
JPM NUMBER: f
TASK NUMBER: 0-74-AB-01
TASK TITLE: Loss of Shutdown Cooling
K/A NUMBER: 295021 AA1.02 K/A RATING: RO 3.5 SRO 3.5
TASK STANDARD: Restores shutdown cooling following an inadvertent RPS actuation, will restore shutdown cooling with RHR Pump 3A and establish a cooldown IAW 3-AOI-74-1. LOCATION OF PERFORMANCE: Simulator
REFERENCES/PROCEDURES NEEDED: 3-AOI-74-1
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 a Unit 3 operator. Unit 3 is in Mode 3 (Recirc Loop B temp > 212°F) heading towards cold conditions for a refueling outage. RHR Loop I using 3A RHR Pump was in shutdown cooling. Unit 1 is carrying 2000 gpm for RHRSW Pumps 'A2' and 'C2'. An inadvertent loss of 3B RPS bus resulted in a partial isolation of RHR shutdown cooling. RPS 3B has been restored on the alternate supply. Another operator is assisting with recovery from the loss of 3B RPS. An Auxiliary Operator is standing by for 3A RHR Pump start.

INITIATING CUES: The Unit Supervisor directs you to restore shutdown cooling using 3A RHR pump in accordance with 3-AOI-74-1 starting at step 9.

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 is in Mode 3 (Recirc Loop B temp > 212°F) heading towards cold conditions for a refueling outage. RHR Loop I using 3A RHR Pump was in shutdown cooling. Unit 1 is carrying 2000 gpm for RHRSW Pumps 'A2' and 'C2'. An inadvertent loss of 3B RPS bus resulted in a partial isolation of RHR shutdown cooling. RPS 3B has been restored on the alternate supply. Another operator is assisting with recovery from the loss of 3B RPS. An Auxiliary Operator is standing by for 3A RHR Pump start.

INITIATING CUES: The Unit Supervisor directs you to restore shutdown cooling using 3A RHR pump in accordance with 3-AOI-74-1 starting at step 9.

SIAKI IIIV	1E											
******	*****	*****	*****	*****	****	****	****	*****	****	****	**	*****
Performance	Step 1:								(Critical		Not Critical X
[9]			of Shutd nerwise I		looling	g is d	ue to	Group	o 2 PC	CIS iso	lat	ion,
		EN con llowin		permit	resett	ting C	Group	2 PCl	IS iso	lation	are	met, PERFORM
	[9.1]	RES	SET Gro SET, 3-H S-64-16A	IS-64-1	I6A-S	832, a						PCIS DIV I
Standard:					٠							
On Pa												G PCIS DIV I 33 to reset.
SATUNS	AT1	N/A _	_COM	MENT	S:				~			
Militaria									-			
		*****	*****	*****	****	****	***	****				************
Performance	<u>step 2.</u>								C	ritical		Not Critical X
	[9.2]	ISOI		T, 3-XS	S-74-	126 a						G INBD INJECT Y 3-IL-74-126 and
Standard:												
Mome and verifies 3					SISD	CLC	3 INE	BD INJ	ECT	ISOL	RE	ESET, 3-XS-74-132
SATUNSA	AT 1	N/A	_COM	MENTS	S:			-				

JPM	f		
PAGE	5	OF	9

*****	*************	******	******
Performance ?	Step 3:	Critical	Not Critical X
[10]	IF the loss of Shutdown Cooling is due to Group 2 signal fails to reset, or remain reset due to invalid at THEN (Otherwise N/A)		
Standard:			
N/As a	all Step 4.2[10], the PCIS signal is reset in step 9.		
SATUNSA	ATN/ACOMMENTS:		

Performance S	Step 4:	Critical X	Not Critical
[11]	IF the Group 2 PCIS Isolation has been reset, THE	N (otherwis	e N/A)
	RETURN the affected loop of RHR to Shutdown C	ooling as fo	ollows:
	[11.1] CLOSE RHR SYS I LPCI OUTBD INJECT 3-FCV-74-52.	VALVE,	
Standard:			
Closes	3-FCV-74-52		
SATUNSA	ATN/ACOMMENTS:		
*****	**************	*****	*****
Performance S	Step 5:	Critical	Not Critical X
	[11.2] OPEN RHR SYS I LPCI INBD INJECT VA	LVE, 3-FC	CV-74-53.
Standard:			
Opens	3-FCV-74-53		
SAT UNSA	ATN/ACOMMENTS:		
	TOTAL CONTRACTOR OF THE PROPERTY OF THE PROPER		

JPM	f				
PAGE	6	OF	9		

Performance Step 6:	Critical	Not Critical \underline{X}
[11.3] VERIFY RHR SYSTEM I MIN I 3-HS-74-148 in INHIBIT	FLOW INHIBIT swi	tch,
Standard:		
Verifies 3-HS-74-148 in INHIBIT.		
SAT UNSAT N/ACOMMENTS:		
*************	******	******
Performance Step 7:	Critical	Not Critical X
[11.4] VERIFY CLOSED RHR SYSTE 3-FCV-74-7.	EM I MIN FLOW V	ALVE,
Standard:		
Verifies 3-FCV-74-7 is closed.		
Verifies 3-FCV-74-7 is closed. SATUNSATN/ACOMMENTS:		
	*****	****
SAT UNSAT N/ACOMMENTS:	****************************	
SAT UNSAT N/ACOMMENTS:********************************	Critical	Not Critical X
SAT UNSAT N/ACOMMENTS: *********************** Performance Step 8: [11.5] VERIFY CLOSED RHR PUMP	Critical	Not Critical X
SAT UNSAT N/ACOMMENTS: **************************** Performance Step 8: [11.5] VERIFY CLOSED RHR PUMP 3-FCV-74-1 and 3-FCV-74-12.	Critical	Not Critical X

JPM f PAGE 7 OF 9

Performance Step 9:		**************************************
[11.6] VERIFY OPEN RHR PUMP 3A and 3C S 3-FCV-74-2 and 3-FCV-74-13.	SD COOLIN	G SUCT VLVs,
Standard:		
Verifies 3-FCV-74-2 & 13 are open.		
SATUNSATN/ACOMMENTS:		
**************************************		************ <u>V</u> Not Critical
[11.7] OPEN RHR SHUTDOWN COOLING SU VLVs, 3-FCV-74-47 and 3-FCV-74-48.	CT OUTBD	and INBD ISOL
Standard:		
Opens *3-HS-74-47 and verifies 3-FCV-74-48 open.		
SATUNSAT N/ACOMMENTS:		
*****************	****	*****
Performance Step 11:	Critical X	Not Critical
[11.8] RESTART RHR PUMP 3A using 3-HS-74	-5A.	
Standard:		
Starts 3A RHR Pump		
SAT UNSAT N/ACOMMENTS:	NAME OF THE OWNER OWNER OF THE OWNER OWNE	
RHR Pump Start Time		

JPM	f		
PAGE	8	OF	9

Performance Step 12:

Critical X Not Critical

[11.9] **THROTTLE** RHR SYS I LPCI OUTBD INJECT VALVE, 3-FCV-74-52, to establish and maintain RHR flow as indicated by 3-FI-74-50, RHR SYS I FLOW, as follows:

RHR Pumps in Operation	1	2
Loop Flow	7,000 to 10,000 gpm	14,000 to 20,000 gpm
Loop Flow (1 or more fuel bundles removed from core)	6,000 to 6,500 gpm	N/A

Standard:

Manipulates 3-HS-74-52 to obtain RHR System I Loop flow between 7,00	00 and	10,000
3-FI-74-50.		

SAT	_UNSAT	_ N/A	COMMENTS:	. •	 *	·
RHR I	Flow Establ	ished T	ime			

RHR SYSTEM Minimum Flow Guidance:

To minimize system vibration, RHR pump operation should be minimized below 7,000 gpm or above 10,000 gpm, for more than 3 minutes at minimum flow.

			JPI PA(M f GE 9 OF 9
******	*******	******	*****	*****
Performance Step 1	13:	Crit	ical	Not Critical X
[11.	10] WHEN time permits	after RHR pump is started,	THEN	N
		Breaker charging spring recharged light is on and clos		
Standard:				
Dispatched	personnel to verify RHR	Pump 3A breaker closing s	pring r	echarged.
SATUNSAT	N/ACOMMENTS:_	·		
CUE: If requested	d, Acknowledge and stat	e Operator in route		
		********	*****	*****
Performance Step 1	<u>4:</u>	Criti	cal X	Not Critical
[11.]	=	LE RHR HX 3A RHRSW 4, to obtain desired cooldov		
Standard:				
Throttles 3-	FCV-23-34 open to comm	nence cooldown		
SATUNSAT	N/ACOMMENTS:_			
CUE: That compl	etes this task.			
	END	OF TASK		

STOP TIME:

JPM g PAGE 1 OF 8

OPERATOR:	
RO SRO _	DATE:
JPM NUMBER:	g
TASK NUMBER:	U-000-EM-74
TASK TITLE:	Crosstie CAD to Drywell Control Air
K/A NUMBER: 2180	000 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 PER	FORMANCE: Simulator
REFERENCES/PROC	CEDURES NEEDED: 2-EOI Appendix-8G
VALIDATION TIME	: 10 minutes
MAX. TIME ALLOW	VED: (Completed for Time Critical JPMs only)
PERFORMANCE TI	ME:
	heets attached? YES NO
RESULTS: SATIS	FACTORY 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 X Not Critical
1. OPEN the following valves:	
 0-FCV-84-5, CAD SYSTEM A N2 SHUTOFF VAL 0-FCV-84-16, CAD SYSTEM B N2 SHUTOFF VAI 	
Standard:	
Opens 0-FCV-84-5 and 16	
SATUNSAT N/ACOMMENTS:	
***************	*********
Performance Step 2:	Critical $_$ Not Critical \underline{X}
2. VERIFY 0-PI-84-6, N2 VAPORIZER A OUTLET PRES VAPORIZER B OUTLET PRESSURE, indicate approxis 9-54 and 9-55)	•
Standard:	
Verifies 0-PI-84-6 and 0-PI-84-17 (Located on back of Unindicating approximately 100 psig.	nit 2 Panel 9-54 in simulator)
SATUNSATN/ACOMMENTS:	

JPM	g		
PAGE	5	OF	8

Perfor	rmance Step 3:	*Critical X Not Critical
*3.	PLACE keylock switch 2-HS-84-48, CAD A OPEN (Unit 2, Panel 9-54)	CROSS TIE TO DW CONTROL AIR
4.	CHECK OPEN 2-FSV-84-48, CAD A CROSS Panel 9-54)	S TIE TO DW CONTROL AIR, (Uni
Standa	ard:	
	Places keylock switch 2-HS-84-48 in Open and	verifies 2-FSV-84-48 is open
SAT	UNSAT N/ACOMMENTS:	
****	**************	***********
	**************************************	**************************************
		*Critical X Not Critical
<u>Perfor</u>	rmance Step 4: PLACE keylock switch 2-HS-84-49, CAD B C	*Critical \underline{X} Not Critical CROSS TIE TO DW CONTROL AIR
Perfor	PLACE keylock switch 2-HS-84-49, CAD B COPEN (Unit 2, Panel 9-55) CHECK OPEN 2-FSV-84-49, CAD B CROSS (Unit 2, Panel 9-55)	*Critical \underline{X} Not Critical CROSS TIE TO DW CONTROL AIR
<u>Perfor</u> *5. 6.	PLACE keylock switch 2-HS-84-49, CAD B COPEN (Unit 2, Panel 9-55) CHECK OPEN 2-FSV-84-49, CAD B CROSS (Unit 2, Panel 9-55)	*Critical <u>X</u> Not Critical CROSS TIE TO DW CONTROL AIR S TIE TO DW CONTROL AIR

JPM	g		
PAGE	6	OF	8

Perto	ormance Step 5: Critical X Not Critical			
7.	CHECK MAIN STEAM RELIEF VLV AIR ACCUM PRESS LOW, 2-PA-32-31, alar cleared (2-XA-55-3D, Window 18)			
Stanc	<u>lard:</u>			
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:			

Perto	rmance Step 6: Critical _ Not Critical X			
3.	IF MAIN STEAM RELIEF VLV AIR ACCUM PRESS LOW, 2-PA-32-31, annunciator is or remains in alarm (2-XA-55-3D, Window 18), THEN DETERMINE which Drywell Control Air header is depressurized as follows:			
	a. DISPATCH personnel to Unit 2, RB, El 565 ft, to MONITOR the following indications for low pressure:			
	 2-PI-84-51, CAD N2 PRESSURE TO DWCA indicator, for CAD A (R-10 S-line, by Drywell Access Door) 			
	 2-PI-84-50, DW CONT AIR N2 SUPPLY PRESS indicator, for CAD B (R-12 U-line, behind 480V RB Vent Board 2B) 			
Stand	lard:			
oressi	Dispatches personnel to Reactor Building to monitor 2-PI-84-51 and 2-PI-84-50 for low ure.			
SAT_	UNSAT N/ACOMMENTS:			

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

JPM	g		
PAGE	8	OF	8

	**************************************	**************************************	
1 (110	ormanice Step 9.	Chiicai _ Not Chiicai <u>x</u>	<u> </u>
9.	IF Drywell Control Air header supplied from CAD System Adepressurized, THEN CLOSE the following valves:	A shows indications of b	eing
	• 0-FCV-84-5, CAD SYSTEM A N2 SHUTOFF VAL	VE (Unit 1, Panel 9-54))
	• 2-FSV-84-48, CAD A CROSS TIE TO DW CONTR	OL AIR (Unit 2, Panel	9-54)
Stand	dard:		
	N/A – No indications of being depressurized		
SAT_	UNSAT N/ACOMMENTS:	***************************************	
	**************************************	**************************************	:*
10.	IF Drywell Control Air header supplied from CAD B shows depressurized, THEN CLOSE the following valves:	indications of being	
	• 0-FCV-84-16, CAD SYSTEM B N2 SHUTOFF VAI	LVE (Unit 1, Panel 9-55	5)
	• 2-FSV-84-49, CAD B CROSS TIE TO DW CONTRO	OL AIR (Unit 2, Panel 9	9-55)
Standa	dard:		
	Closes 0-FCV-84-16 and 2-FSV-84-49		
SAT_	UNSAT N/ACOMMENTS:		
A).			
STOP	P TIME		

END OF TASK

JPM g PAGE 1 OF 8

OPERATOR	:		_
RO	SRO_	DATE:	
JPM NUMBI	ER:	g	
TASK NUMI	BER:	U-000-EM-74	
TASK TITLE	8:	Crosstie CAD to Drywe	ll Control Air
K/A NUMBE	CR: 2180	000 A2.03 K/A RAT	ING: RO 3.4 SRO: 3.6
TASK STAN	DARD:	Align Containment Air I and then isolates CAD S	Dilution systems A and B to the Drywell Air System ystem B.
LOCATION	OF PER	FORMANCE: Simulator	•
REFERENCE	ES/PRO	CEDURES NEEDED: 3-	EOI Appendix-8G
VALIDATIO	N TIME	: 10 minutes	
MAX. TIME	ALLOW	/ED: (Completed for Time	e Critical JPMs only)
PERFORMA	NCE TI	ME:	
Additional con	mment s	heets attached? YES	NO
RESULTS:	SATIS	FACTORY U	NSATISFACTORY
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. OPEN the following valves:	
 0-FCV-84-5, CAD SYSTEM A N2 SHUTOFF VA 0-FCV-84-16, CAD SYSTEM B N2 SHUTOFF VA 	,
Standard:	
Opens 0-FCV-84-5 and 16	
SAT UNSAT N/ACOMMENTS:	
*************	****
Performance Step 2:	Critical _ Not Critical X
2. VERIFY 0-PI-84-6/3, VAPOR A OUTLET PRESS, a OUTLET PRESS, indicate approximately 100 psig (U	
Standard:	
Verified 0-PI-84-6/3 and 0-PI-84-17/3 (Located on Unindicating approximately 100 psig.	it 3, Panel 3-9-54 and 3-9-55)
SAT UNSAT N/ACOMMENTS:	

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

JPM	g		
PAGE	6	OF	8

**************	*************
Performance Step 5:	Critical X Not Critical
7. CHECK MAIN STEAM RELIEF VLV AIR cleared (3-XA-55-3D, Window 18)	R ACCUM PRESS LOW, 3-PA-32-31, alarm
Standard:	
Recognizes MAIN STEAM RELIEF VLV A Win. 18) still in Alarm (would NOT clear) and conti	` ` `
SAT UNSAT N/ACOMMENTS:	
**************************************	**************************************
8. IF MAIN STEAM RELIEF VLV AIR ACCU is or remains in alarm (3-XA-55-3D, Window Control Air header is depressurized as follows:	w 18), THEN DETERMINE which Drywell
a. DISPATCH personnel to Unit 3, RB indications for low pressure:	, El 565 ft, to MONITOR the following
• 3-PI-84-51, CAD A CROSST for CAD A (R-17 S-line, by D	,
• 3-PI-84-50, DW CONT AIR N ((R-19 U-line, behind 480V R	N2 SUPPLY PRESS indicator, for CAD B (B) Vent Board 3B)
Standard:	
Dispatches personnel to Reactor Building to a pressure.	monitor 3-PI-84-51 and 3-PI-84-50 for low
SAT UNSAT N/ACOMMENTS:	
CUE: DO NOT Report Unless directed by NRC [r DWCA indicator, for CAD A is reading 110 psig and	

JPM	g		
PAGE	7	OF	8

Performance Step 7:	Critical X Not Critical
b. MONITOR 0-FI-84-7/3(18/3), 0 3-9-54(55) for high flow.	CAD A(B) N2 SYSTEM FLOW, on Panel
Standard:	
Recognizes 0-FI-84-7/3 flow is 0 scfm a	nd that 0-FI-84-18 flow is 50 scfm
SATUNSAT N/ACOMMENTS:	
No CAD System A to Drywell Control Air supplies	OTE the following MSIVs:
 3-FCV-1-14, MSIV LINE A INBOA 3-FCV-1-26, MSIV LINE B INBOA 	
NO CAD System B to Drywell Control Air supplies	OTE the following MSIVs:
 3-FCV-1-37, MSIV LINE C INBOA 3-FCV-1-51, MSIV LINE D INBOA 	
**************************************	**************************************
c. MONITOR inboard MSIV indic	ation status for valves drifting closed.
Standard:	
Recognizes 3-FCV-1-37 and 51 closed	

JPM	g		
PAGE	8	OF	8

Perfor	rmance Step 9:	Critical $_$ Not Critical \underline{X}
9.	IF Drywell Control Air header supplied from CAD Sysdepressurized, THEN CLOSE the following valves:	tem 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_	UNSATN/ACOMMENTS:	
	**************************************	**************************************
10.	IF Drywell Control Air header supplied from CAD B st depressurized, THEN CLOSE the following valves:	hows indications of being
	• 0-FCV-84-16, CAD SYSTEM B N2 SHUTOFI	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-
Standa	ard:	
	Closes 0-FCV-84-16 and 3-FSV-84-49	
SAT_	_ UNSAT N/ACOMMENTS:	
STOP	TIME	

END OF TASK

OPERATOR:	·	
RO	SRO_	DATE:
JPM NUMBE	ER:	h
TASK NUMI	BER:	U-090-NO-03
TASK TITLE):	Bypassing Radiation Monitors on Workstation Touch Screen
K/A NUMBE	R:	272000 A4.02 K/A RATING: RO 3.0 SRO 3.0
TASK STAN	DARD:	Radiation Monitors 3-RM-90-59 and 3-RM-90-51 bypassed IAW 3-OI-90 section 6.3.10.
LOCATION (OF PER	FORMANCE: Simulator
REFERENCE	ES/PROC	CEDURES NEEDED: 3-OI-90
VALIDATIO	N TIME	: 5 minutes
MAX. TIME	ALLOW	ED: (Completed for Time Critical JPMs only)
COMMENTS		
Additional con	nment s	heets attached? YES NO
RESULTS:	SATIS	FACTORY UNSATISFACTORY
SIGNATURE	·	DATE:

INITIAL CONDITIONS:

You are a Unit Operator. The condition of alarms and indications on Radiation Monitors on the 3-MON-90-50 Workstation are being addressed by the Unit Supervisor.

INITIATING CUE:

The Unit Supervisor directs you to bypass Radiation Monitors 3-RM-90-59 and 3-RM-90-51, in accordance with 3-OI-90 Radiation Monitoring System section 6.3.10.

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 Operator. The condition of alarms and indications on Radiation Monitors on the 3-MON-90-50 Workstation are being addressed by the Unit Supervisor.

INITIATING CUE:

The Unit Supervisor directs you to bypass Radiation Monitors 3-RM-90-59 and 3-RM-90-51, in accordance with 3-OI-90 Radiation Monitoring System section 6.3.10.

\$1AR1 11VIL_ ************************************	********
Performance Step 1:	Critical _ Not Critical X
6.3.10 Bypassing Radiation Monitors on Workstation Touch S	creen
[1] NOTIFY Unit Supervisor of the radiation monitor(s) to be	bypassed.
Standard:	
Notifies the Unit Supervisor which radiation monitors will b	e bypassed.
SATUNSAT N/ACOMMENTS:	
CUE: Acknowledge Notification	

Performance Step 2:	Critical _ Not Critical X
[2] REVIEW Precautions and Limitations listed in Section 3.0	
Standard:	
Reviews Precautions and Limitations	
SAT UNSAT N/ACOMMENTS:	
	, <u>.</u>
******************	*******
Performance Step 3:	Critical _ Not Critical X
[3] IF 3-RM-90-256, Drywell Air Monitor, is being bypassed, Specifications 3.4.5, 3.4.4 and 3.6.1.3.	THEN REFER to Technical
Standard:	
Step is NA, 3-RM-90-256 is not being bypassed.	
SAT UNSAT N/ACOMMENTS:	

JPM h PAGE 5 OF 6

	**************************************	$X = X \times $
[4]	Using Air Particulate Monitor Controller, 3-MON-90-5	0, SELECT "Bypass CAM(s)".
Stand	ndard:	
	Selects Bypass Cams on 3-MON-90-50	
SAT_	Γ UNSAT N/ACOMMENTS:	
****	**************	*******
Perfo	Formance Step 5:	Critical X Not Critical
[5]	WHEN the "Channel Bypass" window appears, THEN the desired CAM in BYPASS (red indicator will change	
Stand	dard:	
	Selects radiation monitors 3-RM-90-59 and 3-RM-90-51	for Bypass
SAT_	UNSAT N/ACOMMENTS:	

Perfor	ormance Step 6:	Critical X Not Critical
[6]	WHEN desired CAMS have been toggled to bypass, the Config".	en SELECT "Set Bypass
Stand	dard:	
	Selects Set Bypass Configuration	
SAT_	UNSAT N/ACOMMENTS:	

\mathtt{JPM}	h		
PAGE	6	OF	6

****	*********	**********	*****
<u>Perfor</u>	mance Step 7:	Critical _ 1	Not Critical <u>X</u>
[7]	VERIFY the CAMs selected for by main display screen.	ypass now have a beige border arou	and the CAM on the
Standa	ard:		
	Verifies radiation monitors 3-RM-9	0-59 and 3-RM-90-51 are bypassed	
SAT_	_ UNSAT N/ACOMMENTS	:	
	Walds -		
****	**********	**********	*****
Perfor	mance Step 8:	Critical _ 1	Not Critical <u>X</u>
[8]	NOTIFY Chemistry and/or RADC frequency.	ON to begin sampling affected syst	tems at the required
Standa	ard:		
	Notifies Radcon		
SAT_	_ UNSAT N/ACOMMENTS	:	
CUE:	Acknowledge Notification		
	END	OF TASK	

STOP TIME ___

JPM i PAGE 1 OF 7

OPERATOR:			
RO	SRO_	DATE	3:
JPM NUMBE	ER:	i	
TASK NUMI	BER:	U-000-EM-19	
TASK TITLE):	2-EOI Appendix-1A	Removal of RPS SCRAM Fuses
K/A NUMBE	R: 2120	000 A2.20	K/A RATING: RO 4.1 SRO 4.2
TASK STAN	DARD:	Simulate removal of	SCRAM Fuses IAW 2-EOI Appendix-1A
LOCATION (OF PER	FORMANCE: Plant	
REFERENCE	ES/PRO	CEDURES NEEDED:	2-EOI Appendix-1A
VALIDATIO	N TIME	: 10 minutes	
MAX. TIME	ALLOW	ED: (Completed for T	ime Critical JPMs only)
PERFORMA	NCE TII	ME:	
COMMENTS	:		
Additional cor	nment s	heets 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.

START TIME		
*****************	*****	******
Performance Step 1:	Critical _	Not Critical \underline{X}
1. VERIFY CLOSED Scram Discharge Volume Vent and D DISCHARGE VOLUME VENT/DRAIN VLVS display or		at the SCRAM
Standard:		
Given in initial conditions		
SATUNSAT N/ACOMMENTS:	Market and the second	
**************************************		**************************************
2. DISPATCH personnel to Unit 2 Auxiliary Instrument Roo	m to perfor	m the following:
a. REFER to Attachment 1 and OBTAIN fuse pullers box.	from EOI I	Equipment Storage
Standard:		
Simulate unlocking EOI Equipment storage and obtaining fu	se pullers	
SAT UNSAT N/ACOMMENTS:		
CUE: When location of EOI Storage Box identified, Open	ator has the	fuse pullers
-		-

Performance Step 3:

Critical \underline{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)	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

SAT	UNSAT	N/A	COMMENTS:		

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

******** Performanc		*******	**************************************
d.	LOCATE Term	ninal Strip CC inside Pa	nnel 9-17, Bay 2, Rear.
e.	REMOVE the f	following fuses (located	l at bottom of terminal strip CC,
		RPS BUS "B"	
	BLOCK	NUMBER	FUSE ID
	CC	FOUR (4)	2-FU1-085-0037BA
	CC	FIVE (5)	2-FU1-085-0039B/2
	CC	SIX (6)	2-FU1-085-0039B/3
	CC	SEVEN (7)	2-FU1-085-0039B/4

Standard:

Identifies terminal strip and simulates removing listed fuses

f proper Fuse is indicated the Fuse has been removed	
Contract the same and same	F proper Fuse is indicated the Fuse has been removed

	111011 // 01 //
***********	***********
<u>tep 5:</u>	Critical _ Not Critical X
WHEN ALL fuses are removed, THEN I	NOTIFY Unit Operator.

JPM i

Standard:

Performance Step 5:

f.

Notifies Unit 2 Operator All RPS Fuse removed

SAT__ UNSAT__ N/A __COMMENTS:____

CUE: Acknowledge Notification, SRO Does not direct replacement of fuses

END OF TASK

STOP TIME____

OPERATOR	•			
RO	SRO_		DATE:	
JPM NUMB	ER:	j		
TASK NUM	BER:	U-001-AL-06	,	
TASK TITLI	Ξ:	Field actions	for stuck open SR	V
K/A NUMBI	ER: 2390	002 A2.03	K/A RATING: R	RO 4.1 SRO 4.2
TASK STAN	IDARD:	Stuck Open S opening the b	RV is closed when reakers	n power is removed from the SRV by
LOCATION	OF PER	FORMANCE:	Plant	
REFERENCI	ES/PRO	CEDURES NE	EDED: 2-AOI-1-	-1
VALIDATIO	N TIME	: 25 minutes		
MAX. TIME	ALLOW	ED: (Complet	ed for Time Critica	al JPMs only)
PERFORMA	NCE TII	ME:		
			? YES NO _	
RESULTS:	SATIS	FACTORY_	UNSATIS	SFACTORY
SIGNATURE	3:	EXAMINER	D	OATE:

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].

	T TIME				
Perform	Performance Step 1: Critical _ Not Critical X				
	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.				
[2]	[2] IF 2-PCV-1-22 is NOT closed, THEN PERFORM the following:				
	[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.				
Standar	<u>rd:</u>				
	Simulate placing 2-XS-1-22 in emergency				
SAT	UNSAT N/ACOMMENTS:				
	When simulated 2-XS-1-22 is in Emergency, When Control Poom colled SDV				

remains OPEN.

JPM	j		
PAGE	5	OF	9

******	*************	**********
Performance Sto	<u>ep 2:</u>	Critical _ Not Critical X
	IF the SRV does NOT close, THEN PER OBSERVING the indications for the 2-PC	
•	CYCLE the MAIN STM LINE B I following positions several times.	RELIEF VALVE, 2-HS-1-22C to the
	CLOSE/AUTO to OPEN to CLOSI	E/AUTO
Standard:		
Simulate	es cycling 2-HS-1-22C from CLOSE/AUTO	O to OPEN to CLOSE/AUTO
SAT UNSAT	ΓN/ACOMMENTS:	
	IV/ACOMMENTS	
CUE:	The SRV remains open	
OOL.	The ore, Tentams open	
*****	*************	*****
Performance Ste		Critical _ Not Critical X
[2.3] I	F the SRV does NOT close, THEN PER	FORM the following:
A	A. VERIFY the MAIN STM LINE B CLOSE/AUTO position.	RELIEF VALVE, 2-HS-1-22C, in th
F	B. PLACE the associated transfer swi VALVE XFR, 2-XS-1-22 in NORN	· · · · · · · · · · · · · · · · · · ·
Standard:		
	'C' A HG 1 22G' : G1 //	1 . 1
Simulate	es verifying 2-HS-1-22C is in Close/Auto ar	nd simulates placing 2-XS-1-22 in No
	s verifying 2-HS-1-22C is in Close/Auto and N/ACOMMENTS:	

NRC NOTE	IF BREAKERS are USED			
******	*********	*************		
Performance S	Step 4:	Critical \underline{X} Not Critical		
[2.4]	IF the SRV does NOT close, THEN REMOVE the power from 2-PCV-1-22 by performing one of the following: (Opening breakers are the preferred method)			
	A. OPEN the following bro	eakers: (Preferred method)		
-	• 2A 250V RMOV, Con	partment 11C2		
CUE:	11C2 at 2A 250V RMOV is op	en.		
	• 2B 250V RMOV, Com	partment 1C1		
	1C1 at 2B 250V RMOV is open. SRV 1-22 is Closed.			
lf Operator si	mulates closing breakers, break	ters are closed SRV is Open. JPM Failure		
Standard:	·			
Simula 250V RMOV	ates opening Compartment 11C2	at 2A 250V RMOV and Compartment 1C1 at 2B		
SATUNSA	ATN/ACOMMENTS:			

JPM	j			
PAGE	7	OF	9	

Performance S	Step 5: Critical Not Critical X
[2.5]	IF the valve does NOT close, THEN CLOSE the breakers or REINSTALL fuses removed in Step 4.2.3[2.4].
CUE:	If Operator simulates closing breakers, breakers are closed. SRV 1-22 is Open. JPM Failure
Standard:	
SRV C	Closed Operator does NOT close breaker, Step is NA
SATUNSA	ATN/ACOMMENTS:
IF BREAKEI	RS ARE OPENED THAN THE JPM IS COMPLETE
STOP TIME	

END OF TASK

NRC NOTE IF FUSES are USED	
***************	**********
Performance Step 6:	Critical X Not Critical
B. In Panel 2-25-32 PULL the following fuses as • Fuse 2E-F6E (Block EE, F15) • Fuse 2E-F4E (Block EE, F7)	s necessary
CUE: Fuse 2E-F6E is PULLED Fuse 2E-F4E is PULLED	
If Operator simulates installing fuses, fuses are installe	ed SRV 1-22 is Open. JPM Failure
Standard:	
Simulates pulling fuses: Fuse 2E-F6E and Fuse 2E	E-F4E
SAT UNSAT N/ACOMMENTS:	

Performance	Step 7: Critical _ Not Critical X
[2.5]	IF the valve does NOT close, THEN CLOSE the breakers or REINSTALL fuses removed in Step 4.2.3[2.4].
CUE:	If Operator simulates installing fuses, fuses are installed. SRV 1-22 is Open. JPM Failure
Standard:	
SRV	Closed Operator does NOT install fuses, Step is NA
SATUNS	ATN/ACOMMENTS:
IF FUSES A	RE REMOVED THAN THE JPM IS COMPLETE
STOP TIME	
	FND OF TASK

JPM k (16i op6) PAGE 1 OF 9

OPERATOR	•			
RO	SRO_		DATE	3:
JPM NUMBI	ER:	k (16 op6)		
TASK NUM	BER:	U-000-SS-08		
TASK TITLE	Ξ:	Align 480V R	MOV I	BD 3B for a fire and Start RHR Pump 3A
K/A NUMBE	ER: 60000	00 AA2.16	K/A R	ATING: RO <u>3.0</u> SRO: <u>3.5</u>
TASK STAN	DARD:	Operator 6 Ma	anual A	ctions 0-SSI-16 section 2.0 and 3.0 completed
LOCATION	OF PERF	ORMANCE:	Plant	
REFERENCI	ES/PROC	EDURES NE	EDED:	0-SSI-16
VALIDATIO	N TIME:	15 minutes		
MAX. TIME	ALLOW	ED: 20 minute	es for se	ction 2.0 and 120 minutes for section 3.0.
PERFORMA	NCE TIM	Œ:		
COMMENTS	S:			
Additional co	mment sh	eets attached?	YES_	NO
RESULTS:	SATISF	ACTORY		UNSATISFACTORY
SIGNATURE	E:	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 *****	E			
	mance				
2.0	480V	REACTOR MOV BOARD 3B ALIGNMENT			
(20 M	in)				
[1]	Notifi	cation has been received from the Unit 3 Unit Supervisor to perform this section.			
[2]	PERF	FORM the following to align 480V Reactor MOV Board 3B:			
	[2.1]	PROCEED TO Compt 2A, AND PLACE NORMAL FEEDER CONTROL SWITCH, 3-HS-268B/2A-A, in TRIP.			
CU	E:	3-HS-268B/2A-A is in Trip, Green light On Red light Off.			
	[2.2]	PROCEED TO Compt 16A, AND PLACE EMERGENCY FEEDER CONTROL SWITCH, 3-HS-268-B/16A-A, in CLOSE.			
CU	JE:	3-HS-268-B/16A-A is in Close, Red light On Green Light Off			
Standa	ard:				
	Simulates placing 3-HS-268B/2A-A in Trip and 3-HS-268-B/16A-A in Close				
SAT_	SATUNSAT N/ACOMMENTS:				

JPM k (16 op6) PAGE 5 OF 9

Performance :		**************************************		
[2.3]	[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]	VERIFY OPEN RCIC STM LINE INBD ISOL VALVE, 3-HS-071-0002B.		
CUE:		0002 is in Emergency and RCIC Steam Line Inboard Isolation Valve ght On, Green Light Off		
Standard:				
Simula ISOL VALVI	ates placing 3 E Open	-XS-071-0002 in Emergency and verifies RCIC STM LINE INBD		
SATUNSA	AT N/A _	COMMENTS:		
******** Performance S		**************************************		
[2.4]	PROCEED ATMOSPH	TO Compt 4C, AND PLACE 0-BKR-084-0016A CONTAINMENT ERE DILUTION SYSTEM B HEATER, breaker in OFF.		
CUE:	0-BKR-(084-0016A is in Off		
Standard:				
Simula	ates placing 0	-BKR-084-0016A in Off		
SATUNSAT N/ACOMMENTS:				
STOP TIME	**************************************			

				(16 op6) OF 9	
	******************	*****	***	*******	
Perfor	mance Step 4:	Critica	ıl _	Not Critical X	
[3]	NOTIFY Unit 3 Unit Supervisor of completion of this sect	tion.			
[4]	PROCEED TO 4160V Shutdown Board 3EA in preparation of performing Section 3.0.				
Standa	ard:				
	Notifies Unit 3 Unit Supervisor and proceeds to 4160 SD BI	O 3EA			
SAT_	UNSAT N/ACOMMENTS:				
CUE:	Acknowledge notification and Notify Operator to pe	rform s	ecti	on 3.0	

	RT TIME *********************************	********			
		* Critical X Not Critical			
3.0 R	RHR PUMP 3A LOCAL START				
(120 1	Min)				
[1]	Notification has been received from the Unit 3 Unit Supervisor to perform this section.				
If RH	NOTE IR pump fails to start, pushbutton on breaker must be used.				
[2]	PROCEED TO 4160V Shutdown Board 3EA, Compt 12, 3 3A, AND PERFORM the following:	-BKR-074-0005 RHR PUMP			
	*[2.1] PLACE RHR PUMP 3A TRANSFER, 3-43-074-000	05, in EMERG.			
CU	UE: 3-43-074-0005 is in Emergency				
	[2.2] PLACE RHR PUMP 3A, 3-HS-074-0005C, in CLO	SE.			
	[2.3] VERIFY RHR Pump 3A has started by observing br indications.	eaker AMMETER			
Cul	E: 3-HS-074-0005C is in Close, No AMPS are indica Light On, Yellow light remained On. If asked No breaker trips are indicated.	ted, Red light OFF, Green			
Standa	lard:				
	Simulates placing 3-43-074-0005 in Emergency and 3-HS-07	4-0005C in Close			
SAT_	UNSAT N/ACOMMENTS:				
······					

	JPM k (16 op6) PAGE 8 OF 9
******	*******
	* Critical X Not Critical

(120 Min)

Performance Step 6:

3.0 RHR PUMP 3A LOCAL START

*NOTE

*If RHR pump fails to start, pushbutton on breaker must be used.

CUE: Breaker 3-BKR-074-0005 pushbutton is depressed

- [2] **PROCEED TO** 4160V Shutdown Board 3EA, Compt 12, 3-BKR-074-0005 RHR PUMP 3A, AND **PERFORM** the following:
 - [2.3] **VERIFY** RHR Pump 3A has started by observing breaker AMMETER indications.

CUE: AMPS pegged high, Red light ON and Green Light OFF Breaker CLOSED, current AMP reading is 180 AMPS

Standard:

Simulates depressing pushbutton on 3-BKR-074-0005 and verifies Amps

SAT_	_UNSAT	_ N/A _	COMMENTS:_	

STOP TIME_

		JPM PAGE			op6) 9	
****	****************	******	***	****	*****	****
Perfor	rmance Step 7:	Critica	1_	Not (Critical X	:
[3]	NOTIFY Unit 3 Unit Supervisor of the completion of	f this section.				
[4]	PROCEED TO 4160 Shutdown Board A in preparati	on of perform	nin	ıg Sed	ction 4.0.	

Standard:

Notifies Unit 3 Unit Supervisor

SAT	_UNSAT	_ N/A	_COMMENTS:
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CUE:

Another Operator will continue with section 4.0

END OF TASK