Exelon Nuclear				
Job Performance Measure				
Locally Pull ARI Fuses to Reset ATW	S/ARI Circuit			
JPM Number: S-N-i				
Revision Number: 0	Revision Number: 06			
Date: 10/07				
Developed By: Instructor	 Date			
	2010			
Approved By: Facility Representative	Date			
	Date			

Revision Record (Summary)

Revision 01	Update JPM to new format.
Revision 02	Change task title to "Locally Pull ARI Fuses to Reset ATWS/ARI Circuit.
Revision 03	Update JPM to new format.
Revision 04	Update JPM to new format.
Revision 05	Update JPM to new format.
Revision 06	Revised to current procedure revision for ILT 07-1 NRC Exam.

SIMULATOR SETUP INSTRUCTIONS

1. None, this JPM is performed in the plant.

INITIAL CONDITIONS

- 1. You are the Unit 2 Aux NSO.
- 2. Unit 3 has experienced an ATWS condition, with reactor power ~35%.
- 3. No high pressure injection systems are available with the exception of BOTH CRD pumps.
- 4. Reactor water level is -70 inches AND dropping very slowly.
- 5. Unit 3 Unit Supervisor has ordered repeated Scram / Resets by defeating RPS logic.
- 6. ARI has NOT reset as indicated by annunciator 903-5 A-8, ATWS CH A/B TRIP being in an alarm condition.
- 7. NO other actions have been taken in accordance with DEOP 0500-05.

INITIATING CUE

- 1. Unit 3 Unit Supervisor has directed you to pull Unit 3 ARI fuses in support of repeated Scram / Resets effort in accordance with DEOP 0500-05.
- 2. Inform the Unit 3 Unit Supervisor when the task is complete.

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Fill in the JPM Start Time when the student acknowledges the Initiating Cue.

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

- * Denotes critical steps.
- Denotes critical elements of a critical step.

Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section at the bottom of the page. The comment section should be used to document the reason that a step is marked as unsatisfactory and to document unsatisfactory performance relating to management expectations.

Some operations that are performed from outside of the control room may require multiple steps. These items may be listed as individual steps in this JPM. It is acceptable for the candidate to direct the local operator to perform groups of procedure steps instead of calling for each individual item to be performed.

The timeclock starts when the candidate acknowledges the initiating cue.

JPM Start Time: _____

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment #
	<u>NOTE:</u>			
Provide the Ex	aminee the provided copy of DEC	OP 0500-05.		
1. Proceed to step G.3 of the procedure.	LOCATES step G.3			
2. Obtain appropriate equipment from the Control Room DEOP Equipment Storage Cabinet.	The DEOP Storage Cabinet key must be obtained from the Unit Supervisor. Do NOT allow examinee to remove the equipment from the DEOP Storage Locker.			
	Lock cabinet and return key to Unit Supervisor PRIOR to leaving the Control Room.			
	Identifies electrical switching cloak, gloves, and safety glasses. Checks for integrity of equipment and dons all equipment.			
	Identifies equipment labeled Unit 2 DEOP 500-05 Alternate insertion of Control Rods, STEP G.3.b : Pull ARI Fuses: fuse puller.			
	NOTE:			
Obtain permission from the	e Unit 3 Unit Supervisor prior to p	roceeding to	the AEER.	
Ensure the Examinee	SIMULATES (does NOT perform	n any fuse pu	lling).	
Fuses in both 2203-70A AND 220	3-70B panels are labeled on the i	nside of the p	anel doors	ONLY.
BOTH fuse I	abels are identified with a purple I	DEOP tag ne	xt to them.	
	ve counted how many fuses up from e they attempt to pull the ARI fuse		n fuse it is,	
3. Proceed to 2203-70A panel.	Locates 2203-70A panel in AEER.			

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment #
* 4. In panel 2203-70A, remove fuse F20A.	Locates and pulls fuse F20A in 2203-70A panel (8 up from the bottom fuse).			
	<u>CUE:</u>			
	Fuse F20A has been pulled.			
5. Proceed to 2203-70B panel.	Locates 2203-70B panel in AEER.			
* 6. In panel 2203-70B, remove fuse F20B.	Locates and pulls fuse F20B in 2203-70A panel (8 up from the bottom fuse).			
	CUE:			
	Fuse F20B has been pulled.			
 Places fuses in fuse bag, labels the bag and places it in fuse storage cabinet in the WEC. 	Examinee indicates he/she would place fuses in labeled fuse bag and place in storage cabinet.			
 Informs Unit 3 Unit Supervisor task has been completed. 	Unit 3 Supervisor notified.			
	<u>CUE:</u>			
Ackr	nowledge report of task completion	n.		
	END			

JPM Stop Time:_____

Operator's Name:	
Job Title: RO SRO	
JPM Title: Locally Pull ARI Fuses to Reset ATWS/ARI Circuit JPM Number: S-N-i Revision Task Number and Title: 295L164, Locally pull ARI fuses to reset ATW	Number: 06 /S/ARI circuit
K/A Number and Importance: 295037.EA.1.03 4.1 / 4.1	
Suggested Testing Environment: Simulator	
Actual Testing Environment: Simulator Control Room	🔀 In-Plant
Testing Method:SimulateAlternate Path:YesPerformSRO Only:Yes	⊠ No ⊠ No
Time Critical: Yes No	
Estimated Time to Complete: 12 minutes Actual Time Used:	minutes
References: DEOP 0500-05, Rev 15	
EVALUATION SUMMARY: Were all the Critical Elements performed satisfactorily?	D No
The operator's performance was evaluated against the standards contain determined to be: Satisfactory Unsatist	
Comments:	
Evaluator's Name:	(Print)
Evaluator's Signature:	Date:

INITIAL CONDITIONS

- 1. You are the Unit 2 Aux NSO.
- 2. Unit 3 has experienced an ATWS condition, with reactor power ~35%.
- 3. No high pressure injection systems are available with the exception of BOTH CRD pumps.
- 4. Reactor water level is -70 inches AND dropping very slowly.
- 5. Unit 3 Unit Supervisor has ordered repeated Scram / Resets by defeating RPS logic.
- 6. ARI has NOT reset as indicated by annunciator 903-5 A-8, ATWS CH A/B TRIP being in an alarm condition.
- 7. NO other actions have been taken in accordance with DEOP 0500-05.

INITIATING CUE

- 1. Unit 3 Unit Supervisor has directed you to pull Unit 3 ARI fuses in support of repeated Scram / Resets effort in accordance with DEOP 0500-05.
- 2. Inform the Unit 3 Unit Supervisor when the task is complete.

Exelon Nuclear				
	Job Performance Measure			
Manual I	Fill of Unit 3 Emergency Diesel G	enerator Day Tank		
	JPM Number: P-C-	·j		
	Revision Number: 0	00		
Date: 10/07				
Developed By:	Instructor	 Date		
		Dale		
Approved By:		<u> </u>		
	Facility Representative	Date		

Revision Record (Summary)

Revision 00 New JPM developed for ILT 07-1 NRC Exam.

SIMULATOR SETUP INSTRUCTIONS

1. None, this JPM is performed in the plant.

INITIAL CONDITIONS

- 1. You are the Unit 3 Aux NSO.
- 2. Annunciator 903-8 G-7, Unit 3 Diesel Generator Day Tank Level HI / LO, has just annunciated.

INITIATING CUE

- 1. The Unit Supervisor has directed you to check the Unit 3 Diesel Generator Fuel Oil Day Tank level AND refill if necessary utilizing DOA 6600-01.
- 2. Report to the Unit Supervisor when finished.

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Fill in the JPM Start Time when the student acknowledges the Initiating Cue.

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

- * Denotes critical steps.
- Denotes critical elements of a critical step.

Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section at the bottom of the page. The comment section should be used to document the reason that a step is marked as unsatisfactory and to document unsatisfactory performance relating to management expectations.

Some operations that are performed from outside of the control room may require multiple steps. These items may be listed as individual steps in this JPM. It is acceptable for the candidate to direct the local operator to perform groups of procedure steps instead of calling for each individual item to be performed.

The timeclock starts when the candidate acknowledges the initiating cue.

JPM Start Time: _____

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment #	
	<u>NOTE:</u>				
Provide example	minee with a current copy of DOA	6600-01.			
 Examinee should proceed to the Unit 3 Diesel Generator Room. 	LOCATES U-3 D/G Room.				
	<u>NOTE:</u>				
A DS key is required to enter the	e Diesel Generator Room. Key n	nay be obtain	ed in the W	/EC.	
2. Examinee checks the level in the D/G Fuel Oil Day Tank.	OBSERVES day tank sightglass level and determines day tank needs filling.				
	<u>CUE:</u>				
The level in the D/G	Day Tank is at the bottom end of	on the sight g	lass.		
	<u>NOTE:</u>				
	Normal level is 43".				
 Examinee proceeds to attach A of procedure DOA 6600-1. 	LOCATES step D.4.				
 Verify that power is available to the DIESEL FUEL OIL TRANSFER PUMP 3. 	VERIFIES power available, by local indicating lights illuminated.				
	CUE:				
Т	The GREEN LIGHT is illuminated.				
* 5. Start the Fuel Oil Transfer Pump by <u>holding</u> local Test Switch in the ON position.	HOLDS 3-5203 U3 Diesel Oil Transfer Pp c/s in ON position.				
	BEGIN ALTERNATE PATH				

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment #	
	<u>CUE:</u>	-	-		
Inform	Examinee that the pump is runni	ing.			
IF Examinee has NOT asked for a starting transfer pump, call as the c	v .				
	the Examinee inspects the sight I is at the bottom end of on the sig	-	increasing)	
	(3-5299-212 valve NOT open).				
 * 6. Checks the level in the fuel oil day tank. 	OBSERVES sight glass and/or REQUESTS annunciator 903- 8 G-7 status.				
* 7. Opens 3-5299-212 D/G FUEL TRANSFER PMP TO D/G DAY TANK valve.	Turns valve to the counter- clockwise position.				
* 8. Start the Fuel Oil Transfer Pump by <u>holding</u> local Test Switch in the ON position.	HOLDS 3-5203 U3 Diesel Oil Transfer Pp c/s in ON position.				
* 9. Checks the level in the fuel oil day tank.	OBSERVES sight glass and/or REQUESTS annunciator 903- 8 G-7 status.				
	CUE:				
	The day tank level is 10" from the top of the sight glass AND/OR the NSO says Control Room alarm 903-8 G-7 has reset.				
10. Reports to the Unit 3 Supervisor the D/G Day Tank level is normal.	Unit 3 Supervisor notified.				
	<u>CUE:</u>				
Ackr	nowledge report of task completion	n.			
	END				

JPM Stop Time:_____

Operator's Name:
Job Title: RO SRO
JPM Title: Manual Fill of the Unit 3 EDG Day Tank JPM Number: S-N-j Revision Number: 00 Task Number and Title: 264LN00414, Discuss the steps involved in filling of Diesel Generator Day Tanks with Diesel Fuel Oil Storage Tank Transfer Pumps.
K/A Number and Importance: $264000.A1.02 2.2^* / 2.3$ (Per discussion the low IR is used, due to this being an OPEX event at Dresden Station)
Suggested Testing Environment: Simulator
Actual Testing Environment:
Testing Method:SimulateAlternate Path:YesNoPerformSRO Only:YesNo
Time Critical: 🗌 Yes 🛛 No
Estimated Time to Complete: 14 minutes Actual Time Used: minutes
References: DOA 6600-01 Rev 14
EVALUATION SUMMARY: Were all the Critical Elements performed satisfactorily?
The operator's performance was evaluated against the standards contained in this JPM, and has been determined to be: Satisfactory Unsatisfactory
Comments:
Evaluator's Name: (Print)
Evaluator's Signature: Date:

INITIAL CONDITIONS

- 1. You are the Unit 3 Aux NSO.
- 2. Annunciator 903-8 G-7, Unit 3 Diesel Generator Day Tank Level HI / LO, has just annunciated.

INITIATING CUE

- 1. The Unit Supervisor has directed you to check the Unit 3 Diesel Generator Fuel Oil Day Tank level AND refill if necessary utilizing DOA 6600-01.
- 2. Report to the Unit Supervisor when finished.

Exelon Nuclear				
Job Performance Measure				
Valve in Control Room Emergency Breathing Air Supply				
JPM Number: S-N-k				
Revision Number: 10				
Date: 10/07				
Developed By: Instructor Date				
Approved By: Facility Representative Date				

Revision Record (Summary)

- **Revision 08** Update JPM to new format.
- **Revision 09** Update JPM to new format.
- **Revision 10** Revised to current procedure revision for ILT 07-1 NRC Exam.

SIMULATOR SETUP INSTRUCTIONS

1. None, this JPM is performed in the plant.

INITIAL CONDITIONS

- 1. You are the Unit 3 Aux NSO.
- 2. Control Room personnel have noticed a pungent odor in the Control Room.
- 3. The Control Room Ventilation is NOT operating properly and the smell is getting worse.
- 4. The Unit 3 Unit Supervisor has evacuated ALL non-essential personnel from the Control Room and has directed all the NSOs to don SCBAs until the Control Room Emergency Air system can be valved in.
- 5. The Control Room Emergency Air system is currently in the STANDBY condition IAW DOP 4650-01.

INITIATING CUE

- 1. The Unit 3 Unit Supervisor has directed you to place the Control Room Emergency Breathing Air System Main Bank in operation in accordance with DOP 4650-01 step G.3.
- 2. Inform the Unit 3 Supervisor when the task is complete.

Fill in the JPM Start Time when the student acknowledges the Initiating Cue.

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

- * Denotes critical steps.
- Denotes critical elements of a critical step.

Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section at the bottom of the page. The comment section should be used to document the reason that a step is marked as unsatisfactory and to document unsatisfactory performance relating to management expectations.

Some operations that are performed from outside of the control room may require multiple steps. These items may be listed as individual steps in this JPM. It is acceptable for the candidate to direct the local operator to perform groups of procedure steps instead of calling for each individual item to be performed.

The timeclock starts when the candidate acknowledges the initiating cue.

JPM Start Time: _____

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment #
	<u>NOTE:</u>			
Provide example	minee with a current copy of DOP	4650-01.		
A DS key is	required for Unit 2 Battery Room	entrance.		
 Proceed to Emergency Breathing Air manifold. 	LOCATES Emergency Breathing Air manifold in Unit 2 Battery Room.			
Proceed to step G.3 of the procedure.	LOCATES procedure step G.3.			
3. Verify the following:	VERIFIES valve handle perpendicular to valve body for:			
LP-1 CLOSED	• LP-1			
LP-2 CLOSED	• LP-2			
LP-3 CLOSED	• LP-3			
LP-4 CLOSED	• LP-4			
 * 4. OPEN all Main Bank Cylinder shutoff valves (Cylinders 7 through 13) 	Turns handwheels on cylinders 7-13 counter clockwise.			
	<u>CUE:</u>			
	As you described.			
Count cyline	NOTE: ders from left to right to find cylind	ers 7-13.		
 * 5. Check Main Bank pressure. 	Reads pressure on PRV 3, CR EMER AIR BREATHING CYL OUTLET PRV. (right side gauge)			
<u>CUE:</u> If pressure is < 300 psig, point to 2000 psig, on the gauge, and inform examinee pressure is here.				
NOTE: Have examinee read actual pressure.				

PERFORMANCE CHECKLIST	STANDARDS	SAT	UNSAT	Comment #
* 6. Pressurize the supply manifold from the Main Bank by opening LP-3, CR EMERG AIR BREATHING CYL SV.	OPENS valve LP-3 by turning valve handle counter clockwise ¼ turn so handle is in-line with valve body.			
	<u>CUE:</u>			
	As you described.			
 Verify pressure regulator PRV-3 is maintaining manifold pressure >65 psig and <80 psig. 	VERIFIES manifold pressure between 65 and 80 psig as read on CR EMER AIR BREATHING CYL OUTLET PRV. (left side gauge)			
	<u>CUE:</u>			
If pressure is out of spec, point to	o 70 psig, on the gauge, and infor	m examinee	pressure is	here.
	NOTE:			
	/e examinee read actual pressure	· .		
8. Reports to the Unit 3 Supervisor that the Control Room Emergency Breathing Air System Main Bank is in operation.	Unit 3 Supervisor notified.			
	CUE:			
Ackr	nowledge report of task completio	n.		
	END			

JPM Stop Time:_____

perator's Name:	
o Title: RO SRO	
M Title: Valve in Control Room Emergency Breathing Air Supply M Number: S-N-k Revision Number: 10 sk Number and Title: 279M001, Valve in Control Room Breathing Air Supply	
A Number and Importance: 290003.A2.02 3.1 / 3.4	
ggested Testing Environment: Simulator	
etual Testing Environment:	
sting Method:SimulateAlternate Path:YesNoPerformSRO Only:YesNo	
Time Critical: 🗌 Yes 🛛 No	
timated Time to Complete: 15 minutes Actual Time Used: minutes	
ferences: DOP 4650-01 Rev 09	
VALUATION SUMMARY: ere all the Critical Elements performed satisfactorily? Yes No	
e operator's performance was evaluated against the standards contained in this JPM, and has termined to be:	been
omments:	
Evaluator's Name: (Print)	
aluator's Signature: Date:	

INITIAL CONDITIONS

- 1. You are the Unit 3 Aux NSO.
- 2. Control Room personnel have noticed a pungent odor in the Control Room.
- 3. The Control Room Ventilation is NOT operating properly and the smell is getting worse.
- 4. The Unit 3 Unit Supervisor has evacuated ALL non-essential personnel from the Control Room and has directed all the NSOs to don SCBAs until the Control Room Emergency Air system can be valved in.
- 5. The Control Room Emergency Air system is currently in the STANDBY condition IAW DOP 4650-01.

INITIATING CUE

- 1. The Unit 3 Unit Supervisor has directed you to place the Control Room Emergency Breathing Air System Main Bank in operation in accordance with DOP 4650-01 step G.3.
- 2. Inform the Unit 3 Supervisor when the task is complete.