

JPM NO JC076.007

Perform ATTACHMENT NO SW PUMPS

Revision #: 0

Review Date:

Location: Simulator

Estimated Time (minutes): 10.00

Candidate: _____

Evaluator: _____

Actual Time: _____

Trainee Performance: Satisfactory _____ Unsatisfactory _____

Trainee: _____

Instructor: _____

Submitted By _____ Date _____

Reviewed By _____ Date _____

NOTE

THE EVALUATOR WILL EXPLAIN THE JPM INITIAL CONDITIONS AND PROVIDE CLARIFICATION AS REQUIRED. THE EXAMINEE MAY USE ANY CONTROLLED COPY REFERENCES THAT ARE NORMALLY AVAILABLE IN THE CONTROL ROOM, INCLUDING LOGS. MAKE ALL WRITTEN REPORTS, ORAL REPORTS, AND LOG ENTRIES AS IF THE EVOLUTION WAS ACTUALLY BEING PERFORMED. THE EVALUATOR WILL BE TAKING NOTES. ASK FOR CLARIFICATION OF JPM REQUIREMENTS PRIOR TO THE BEGINNING

Initial Conditions:

Option 1: The plant was at 100% power when all SW pumps tripped and could not be restarted. The crew tripped the Reactor. The E-0 immediate actions have been performed. The crew has just entered ES-0.1, "REACTOR TRIP RESPONSE."

Option 2: The plant was at 100% power when Alarm L-12, "Condenser Pit or Screenhouse High Level 6" was received followed by L-15 and L-23, "Bus 17/18 Undervoltage" and L-5, "Safeguard Bus Main Breaker Overcurrent Trip". The E-0 immediate actions have been performed. The crew has just entered ES-0.1, "REACTOR TRIP RESPONSE."

Initiating Cues :

The CRF directs you to perform Att-2.4 "ATTACHMENT NO SW PUMPS" while the rest of the crew continues with ES-0.1 "REACTOR TRIP RESPONSE".

Description: Respond to a Total Loss of SW

JPM Tasks

Task ID: 076-004-05-01

Task Standards

In accordance with the procedure

Tools :

Installed indication

Procedures

Installed switches/pushbuttons

Terminating Cues

Task Completion

References :

<u>ID</u>	<u>Description</u>	<u>Review Date</u>	<u>Ref Flag</u>
PRATT ATT-2.4	ATTACHMENT NO SW PUMPS		<input type="checkbox"/>

Safety Considerations :

Consequences of Inadequate Performance:

Equipment Damage

Thermal design limit challenge

Procedure Violation

General Comments :

Simulator setup with Reactor tripped from 100% power, Option 1 - All service water pumps tripped, Option 2 - bus 17 & 18 de-energized and both D/Gs running unloaded. (Malf CRC03A, 200,000; Malf EDS 04C, 04D)

Performance Checklist

1	Element : Cue	Conditions : CUE: Give examinee a copy of ATT-2.4 ATTACHMENT NO SW PUMPS.	Standards :
	Comments :		
	Satisfactory <input type="checkbox"/>	Unsatisfactory <input type="checkbox"/>	
2	Element : Note - Steps 1 through 5 should be performed promptly to avoid equipment damage.	Conditions :	Standards : Ensure examinee reads note and performs steps in a prompt manner.
	Comments :		
	Satisfactory <input type="checkbox"/>	Unsatisfactory <input type="checkbox"/>	
	Element : <u>CRITICAL</u> Trip both RCPs.	Conditions :	Standards : Locates control switches for RCPs and trips both RCPs
	Comments :		
	Satisfactory <input type="checkbox"/>	Unsatisfactory <input type="checkbox"/>	
*4	Element : <u>CRITICAL</u> Determine if any D/G running without alternate cooling.	Conditions : Option 1) No D/G running (Go to step 11) Option 2) Both D/G running (Go to step 5)	Standards : Same as Element.
	Comments :		
	Satisfactory <input type="checkbox"/>	Unsatisfactory <input type="checkbox"/>	
*5	Element : <u>CRITICAL</u> Pull stop the affected D/G.	Conditions : D/Gs can be shutdown in any order.	Standards : Locates control switch for A D/G and takes switch to pull stop.
	Comments :		
	Satisfactory <input type="checkbox"/>	Unsatisfactory <input type="checkbox"/>	

- *6 **Element :** CRITICAL **Conditions :** **Standards :**
 Immediately depress voltage shutdown pushbutton for A D/G
 Locates voltage shutdown pushbutton for A D/G and immediately depresses pushbutton.
- Comments :**
- Satisfactory Unsatisfactory
-
- *7 **Element :** CRITICAL **Conditions :** **Standards :**
 Pull stop the affected D/G.
 Locates control switch for B D/G and takes switch to pull stop.
- Comments :**
- Satisfactory Unsatisfactory
-
- *8 **Element :** CRITICAL **Conditions :** **Standards :**
 Immediately depress voltage shutdown pushbutton for B D/G
 Locates voltage shutdown pushbutton for B D/G and immediately depresses pushbutton.
- Comments :**
- Satisfactory Unsatisfactory
-
- 9 **Element :** **Conditions :** **Standards :**
 Directs an AO to align alternate cooling to both D/Gs using ER-D/G.2.
 Contacts AO and directs AO to align alternate cooling to D/Gs per ER-D/G.2.
- Comments :**
- Satisfactory Unsatisfactory
-
- 10 **Element :** **Conditions :** **Standards :**
 Determine if Bus 17 has been potentially damaged.
 Based on initial conditions determines that Bus 17 has been possibly damaged, Directs AO to locally open breaker 1B3, B D/G Isol Bkr to Bus 17 in B D/G room.

Comments :

Satisfactory

Unsatisfactory

11

Element :Close Letdown isolation,
AOV-427**Conditions :****Standards :**Locates control switch for
AOV-427 and places control
switch in close.**Comments :**

Satisfactory

Unsatisfactory

12

Element :

Close excess letdown, HCV-123

Conditions :**Standards :**Locates manual controller for
HCV-123 and adjusts (or
verifies) controller has "0"
demand and no pressure
indicated on PI-121.**Comments :**

Satisfactory

Unsatisfactory

*13

Element :**CRITICAL**

Close both MSIVs.

Conditions :CUE: The other operator will
control temperature using ARV's.**Standards :**Locates control switch for
MSIVs (AOV-3517 &
AOV-3516) and closes both
MSIVs.**Comments :**

Satisfactory

Unsatisfactory

*14

Element :**CRITICAL**Pull stop control switches for both
MDAFW pumps.**Conditions :****Standards :**Locates control swithes for A
and B AFW pumps and
places both switches in pull
stop.**Comments :**

Satisfactory

Unsatisfactory

- *15 **Element :** CRITICAL **Conditions :** **Standards :**
 Pull stop control switches for all four CNMT Recirc Fans. Locates control switches for all four CNMT Recirc Fans and places switches in pull stop.
- Comments :**
- Satisfactory** **Unsatisfactory**
-
- 16 **Element :** **Conditions :** **Standards :**
 Pull stop control switches for both MFW pumps. Locates control switches for both MFW pumps and places switches in pull stop.
- Comments :**
- Satisfactory** **Unsatisfactory**
-
- 17 **Element :** **Conditions :** **Standards :**
 Pull stop control switches for Condensate Pumps. Locates control switches for Condensate pumps and places all three switches in pull stop.
- Comments :**
- Satisfactory** **Unsatisfactory**
-
- 18 **Element :** **Conditions :** **Standards :**
 Monitor CCW temperature. Option 1) Cue: No further actions Monitors CCW temperature and determines temperature less than 125F. No action needs to be taken to stop CCW.
- Comments :**
- Satisfactory** **Unsatisfactory**
-
- 19 **Element :** **Conditions :** **Standards :**
 CUE: Report to examinee as AO that alternate cooling has been aligned to "A" D/G. Examinee will acknowledge that alternate cooling has been aligned to "A" D/G and returns to step 2.e of Att-2.4.

Comments :

Satisfactory

Unsatisfactory

20

Element :

Place "A" D/G control switch to Auto

Conditions :**Standards :**

Locates and places control switch for "A" D/G to AUTO.

Comments :

Satisfactory

Unsatisfactory

21

Element :

Depress "A" D/G RESET and D/G FEILD RESET pushbuttons.

Conditions :**Standards :**

Locates and depresses the "D/G RESET" and D/G FEILD RESET" for "A" D/G.

Comments :

Satisfactory

Unsatisfactory

22

Element :

Observe restart of "A" D/G

Conditions :**Standards :**

Observe/verify auto restart of "A" D/G by observing frequency and voltage on "A" D/G.

Comments :

Satisfactory

Unsatisfactory

23

Element :

CUE: No further action.

Conditions :**Standards :****Comments :**

Satisfactory

Unsatisfactory

JPM Questions

Question

Answer

References

Reference Type	Reference ID	Description	Ref Flag
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JPM NO JR062.026

Restore Power to One Train from D/G per AP-ELEC.3

Revision #: 2

Review Date: 9/16/2004

Location: Simulator

Estimated Time (minutes): 14.00

Candidate: _____

Evaluator: _____

Actual Time: _____

Trainee Performance: Satisfactory _____ Unsatisfactory _____

Trainee: _____

Instructor: _____

Submitted By _____ Date _____

Reviewed By _____ Date _____

NOTE

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Initial Conditions:

The plant is in a refueling outage. RCS Loop Level is currently 84 inches with RCS temperature less than 100 degrees. The plant has just experienced a loss of offsite power. D/G "A" started and loaded onto Bus 18, but did not load onto Bus 14. D/G "B" did not start, attempts to start from the MCB did not work. Procedure AP-ELEC.3, LOSS OF 12A AND/OR 12B TRANSFORMER (BELOW 350 DEGREES) has been entered.

Initiating Cues :

You have been directed to attempt to restore power to Bus 14 from D/G "A" per ER-D/G.1.

Description: Restore Power to One Train of AC Emergency Buses with Emergency D/G (CT ER

JPM Tasks

Task ID: 062-033-05-01A

Task Standards

Bus 14 energized by "A" Diesel Generator

Tools :

Terminating Cues

References :

<u>ID</u>		<u>Description</u>	<u>Review Date</u>	<u>Ref Flag</u>
PRAP	AP-ELEC.3	LOSS OF 12A AND/OR 12B TRANSFORMER (BELOW 350 F)		<input type="checkbox"/>
PRER	ER-D/G.1	RESTORING D/GS		<input type="checkbox"/>

Safety Considerations :

Consequences of Inadequate Performance:

General Comments :

Start sim in IC-2, 84 inches, RHR inservice. Insert MALF GEN04B (TRIP ALL COND) for D/G "B". Insert MALF GEN09A to fail Bus 14 breaker Auto Close. Insert MALF EDS06 (FAST) for Loss of Offsite Power. Reset Control Room lights on inside MCB, ensure Service Water Pump has auto started, then freeze simulator to give Initial Conditions and Cue.

Performance Checklist

- | | | | |
|---|--|--|--|
| 1 | Element :
Review procedure ER-D/G.1. | Conditions : | Standards :
Determine Section 4.4 provides needed direction. |
| | Comments : | | |
| | Satisfactory <input type="checkbox"/> | Unsatisfactory <input type="checkbox"/> | |
| 2 | Element :
Verify D/G "A" output voltage approximately 480 volts. | Conditions : | Standards :
Check MCB indications for proper voltage. |
| | Comments : | | |
| | Satisfactory <input type="checkbox"/> | Unsatisfactory <input type="checkbox"/> | |
| 3 | Element :
Check for bus fault indications. | Conditions :
CUE: If examinee requests Electrician or AO to locally check bus; cue that no relays are tripped and no indications of damage are seen. | Standards :
Check MCB alarm panels for fault indications, determine no faults other than loss of offsite power are indicated. (Annunciators L-5 and L-13 are main indications that no fault occurred.) |
| | Comments : | | |
| | Satisfactory <input type="checkbox"/> | Unsatisfactory <input type="checkbox"/> | |
| 4 | Element :
Ensure all bus tie breakers are open. | Conditions : | Standards :
Check MCB for open indications:
- Bus 13-Bus 14 tie
- Bus 16-Bus 14 tie
- Bus 17-Bus 18 tie |
| | Comments : | | |
| | Satisfactory <input type="checkbox"/> | Unsatisfactory <input type="checkbox"/> | |
| 5 | Element :
Place Bus 14 normal supply breaker to after trip on MCB. | Conditions : | Standards :
Same as element. |

Comments :

Satisfactory

Unsatisfactory

6

Element :

Press Overcurrent Reset for Bus 14.

Conditions :**Standards :**Locate pushbutton (inside MCB).
Depress pushbutton.**Comments :**

Satisfactory

Unsatisfactory

7

Element :

Check auto voltage control properly set.

Conditions :**Standards :**Verify Auto control selected on MCB selector switch.
Verify 480 volts output.**Comments :**

Satisfactory

Unsatisfactory

*8

Element :**CRITICAL**

Place D/G "A" synchroscope switch to Bus 14 position.

Conditions :**Standards :**

Same as element.

Comments :

Satisfactory

Unsatisfactory

*9

Element :**CRITICAL**

Manually close D/G "A" feed to Bus 14.

Conditions :

CUE: No further action.

Standards :

Places D/G A feed to Bus 14 to close. Verifies breaker closes.

Comments :

Satisfactory

Unsatisfactory

JPM Questions

Question

Answer

References

Reference Type	Reference ID	Description	Ref Flag
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JPM NO JR026.001

Secure Containment Spray

Revision #: 6

Review Date: 9/15/2004

Location: Simulator

Estimated Time (minutes): 5.00

Candidate: _____

Evaluator: _____

Actual Time: _____

Trainee Performance: Satisfactory _____ Unsatisfactory _____

Trainee: _____

Instructor: _____

Submitted By _____ Date _____

Reviewed By _____ Date _____

NOTE

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Initial Conditions:

The plant was operating at 100% power and experienced a large break LOCA followed by a reactor trip and SI. All necessary equipment functioned properly.

Initiating Cues :

The plant experienced a large break LOCA. All steps of E-0 and E-1 have been completed up to step 13. The Shift Supervisor directs you to secure Containment Spray per Step 13 of E-1.

Description: Secure Containment Spray (JR026.001)

JPM Tasks

Task ID: 026-008-05-01A

Task Standards

Secure Containment Spray Pumps and System.

Tools :

Terminating Cues

References :

<u>ID</u>	<u>Description</u>	<u>Review Date</u>	<u>Ref Flag</u>
PRE E-1	LOSS OF REACTOR OR SECONDARY COOLANT		<input type="checkbox"/>

Safety Considerations :

Consequences of Inadequate Performance:

General Comments :

Any full power IC. MALF RCS02A, B, C or D (10 000). Complete E-0 and E-1 up to Step 13. Ensure spray energized and Cnmt pressure < 4 psig and NAOH Tank level < 55%. Use Indicator Override SIS37 and set NAOH Tank level to 50%. (IC-52)

Performance Checklist

- | | | | |
|----|---|---|---|
| 1 | Element :
Obtain a controlled copy of E-1. | Conditions : | Standards :
Same as element. |
| | Comments : | | |
| | Satisfactory <input type="checkbox"/> | Unsatisfactory <input type="checkbox"/> | |
| 2 | Element :
Verify Containment Spray Pumps running. | Conditions : | Standards :
Same as element. |
| | Comments : | | |
| | Satisfactory <input type="checkbox"/> | Unsatisfactory <input type="checkbox"/> | |
| 3 | Element :
Verify Containment pressure less than 4 psig and NAOH Tank level less than 55%. | Conditions : | Standards :
MCB meters |
| | Comments : | | |
| | Satisfactory <input type="checkbox"/> | Unsatisfactory <input type="checkbox"/> | |
| *4 | Element : <u>CRITICAL</u>
Reset Containment Spray. | Conditions : | Standards :
Depress Containment Spray Reset pushbutton. |
| | Comments : | | |
| | Satisfactory <input type="checkbox"/> | Unsatisfactory <input type="checkbox"/> | |
| 5 | Element :
Verify NaOH flow - no flow. | Conditions : | Standards :
Check FI-930 no flow. |
| | Comments : | | |
| | Satisfactory <input type="checkbox"/> | Unsatisfactory <input type="checkbox"/> | |
| | Element : <u>CRITICAL</u>
Stop CS Pumps. Place switches in auto. | Conditions : | Standards :
Same as element. |

Comments :

Satisfactory

Unsatisfactory

*7

Element : CRITICAL

Close spray isolation valves;
MOV-860A, MOV-860B,
MOV-860C, MOV-860D.

Conditions :

CUE: No further action.

Standards :

MCB switches to close.

Comments :

Satisfactory

Unsatisfactory

JPM NO JC006.010

Perform SFP-RWST Attachment

Revision #: 4

Review Date: 9/16/2004

Location: Aux Bldg

Estimated Time (minutes): 15.00

Candidate: _____

Evaluator: _____

Actual Time: _____

Trainee Performance: Satisfactory _____ Unsatisfactory _____

Trainee: _____

Instructor: _____

Submitted By _____ Date _____

Reviewed By _____ Date _____

NOTE

THE EVALUATOR WILL EXPLAIN THE JPM INITIAL CONDITIONS AND PROVIDE CLARIFICATION AS REQUIRED. THE EXAMINEE MAY USE ANY CONTROLLED COPY REFERENCES THAT ARE NORMALLY AVAILABLE IN THE CONTROL ROOM, INCLUDING LOGS. MAKE ALL WRITTEN REPORTS, ORAL REPORTS, AND LOG ENTRIES AS IF THE EVOLUTION WAS ACTUALLY BEING PERFORMED. THE EVALUATOR WILL BE TAKING NOTES. ASK FOR CLARIFICATION OF JPM REQUIREMENTS PRIOR TO THE BEGINNING

Initial Conditions:

The plant experienced a LOCA outside of Containment. The LOCA cannot be isolated. Control Room transitioned from ECA-1.2, LOCA OUTSIDE CONTAINMENT, to ECA-1.1, LOSS OF EMERGENCY COOLANT RECIRCULATION.

Initiating Cues :

The CRF directs you to transfer water from SFP to the RWST using Attachment ATT-18.0, SFP-RWST.

- Option 3: Transfer at the Maximum rate (Bypass SFP DIs)
- Option 4: Transfer at Normal Rate (Through the SFP DI)

Description: Perform SFP-RWST Attachment (JC006.010)

JPM Tasks

Task ID: 005-017-05-04A

Task Standards

Tools :

Key

Safety Glasses

Hard Hat

Hearing Protection

Terminating Cues

Trainee Says Task is Completed

Task Completion

References :

<u>ID</u>	<u>Description</u>	<u>Review Date</u>	<u>Ref Flag</u>
PRATT ATT-18.0	ATTACHMENT SFP - RWST		<input type="checkbox"/>

Safety Considerations :

Radiological Hazard

Consequences of Inadequate Performance:

Insufficient water for injection during a Loss of Emergency Coolant Recirculation.

General Comments :

Estimated Time is 15 minutes for Options 1 and 4. Option 2 adds 5 minutes. Option 3 adds 10 minutes.

Performance Checklist

1	Element : Note	Conditions : NOTE: Supply student copy of the attachment. CUE: Simulate you have a locked valve key.	Standards :
	Comments :		
	Satisfactory <input type="checkbox"/>	Unsatisfactory <input type="checkbox"/>	
2	Element : Review attachment.	Conditions :	Standards : Same as element.
	Comments :		
	Satisfactory <input type="checkbox"/>	Unsatisfactory <input type="checkbox"/>	
3	Element : Verify SPF Cooling Lineup.	Conditions : CUE: A SFP Running Option 1: Lower suction in service (Go to Step 11) <u>Option 2</u> : Upper suction in service (Go to Step 4)	Standards : Check SFP Pumps Check SFP Suction Valves
	Comments :		
	Satisfactory <input type="checkbox"/>	Unsatisfactory <input type="checkbox"/>	
4	Element : Obtain copy of S-9A. Review procedure.	Conditions : CUE: Given Examinee Copy	Standards : Same as Element
	Comments :		
	Satisfactory <input type="checkbox"/>	Unsatisfactory <input type="checkbox"/>	
5	Element : Check SFP Level	Conditions : Visual Inspection of Level	Standards : Same as Element
	Comments :		
	Satisfactory <input type="checkbox"/>	Unsatisfactory <input type="checkbox"/>	

6 **Element :**
Contact Control about TR 3.7.7
and 3.9.4

Conditions :
CUE: Requirements are satisfied
sign off Initial Condition

Standards :
Same as Element

Comments :

Satisfactory

Unsatisfactory

7 **Element :**
Determine Section 5.6 to be
performed.

Conditions :

Standards :
Same as Element

Comments :

Satisfactory

Unsatisfactory

8 **Element :**
Verify Pool Temperature

Conditions :
Check Pool Temperature < 115
deg F or call MCR to verify.
CUE: Pool Temp 90 deg F

Standards :
Same as Element

Comments :

Satisfactory

Unsatisfactory

9 **Element :**
Check level above weir gate
bracket

Conditions :
CUE: Level above brackets

Standards :
Checks level

Comments :

Satisfactory

Unsatisfactory

*10 **Element :** **CRITICAL**
Open V-782

Conditions :
Locate valve
Simulator opening
CUE: Valve no longer turns in
that direction

Standards :
Same as Element

Comments :

Satisfactory

Unsatisfactory

*11 **Element :** **CRITICAL**
Close V-781

Conditions :
Locates valve
Simulates closing
CUE: Valve no longer turns in
that direction

Standards :
Same as Element

Comments :

Satisfactory

Unsatisfactory

- 12 **Element :** Observe note.
 OPTION #3 - Proceed to next step.
 OPTION #4 - proceed to step 20.
- Conditions :**
 CUE:
 OPTION #3 = Transfer at maximum rate.
 OPTION #4 = Transfer through SFP DI.
- Standards :**
 Same as element.

Comments :

Satisfactory

Unsatisfactory

- *13 **Element :** **CRITICAL**
 Unlock and close V-804.
- Conditions :**
 CUE: Valve is unlocked. Valve no longer turns in that direction.
 CUE:(If student requests eSOMS location) eSOMS gives valve location at: AB INTER, SFP HEAT EXCH AREA, ELEV 4
- Standards :**
 Locate valve.
 Simulate unlocking and closing.

Comments :

Satisfactory

Unsatisfactory

- *14 **Element :** **CRITICAL**
 Open V-789.
- Conditions :**
 CUE: Valve no longer turns in that direction.
 CUE:(If student requests eSOMS location) eSOMS gives valve location at: AB INTER, SFP FILTER ROOM AREA, ELEV 1
- Standards :**
 Locate valve.
 Simulate opening valve.

Comments :

Satisfactory

Unsatisfactory

*15 **Element :** **CRITICAL** **Conditions :** **Standards :**
 Close V-790. CUE: Valve no longer turns in that direction. Locate valve.
 Simulate closing valve.

CUE:(If student requests eSOMS location) eSOMS gives valve location at: AB INTER, SFP FILTER ROOM AREA, ELEV 1

Comments :

Satisfactory

Unsatisfactory

*16 **Element :** **CRITICAL** **Conditions :** **Standards :**
 Close V-796. CUE: Valve no longer turns in that direction. Locate valve.
 Simulate closing valve.

CUE:(If student requests eSOMS location) eSOMS gives valve location at: AB INTER, SFP FILTER ROOM AREA, ELEV 1

Comments :

Satisfactory

Unsatisfactory

*17 **Element :** **CRITICAL** **Conditions :** **Standards :**
 Open V-797. CUE: Valve no longer turns in that direction. Locate valve.
 Simulate opening valve.

CUE:(If student requests eSOMS location) eSOMS gives valve location at: AB INTER, SFP FILTER ROOM AREA, ELEV 5

Comments :

Satisfactory

Unsatisfactory

*18 **Element :** **CRITICAL** **Conditions :** **Standards :**
 Close V-798A. CUE: Valve no longer turns in that direction. Locate valve.
 Simulate closing valve.

CUE:(If student requests eSOMS location) eSOMS gives valve location at: AB INTER, SFP FILTER ROOM AREA, ELEV 5

Comments :

Satisfactory

Unsatisfactory

- *19 **Element :** CRITICAL **Conditions :** **Standards :**
 Close V-802. CUE: Valve no longer turns in that direction. Locate valve.
 Simulate closing valve.

CUE:(If student requests eSOMS location) eSOMS gives valve location at: AB INTER, SFP FILTER ROOM AREA, ELEV 5

Comments :

Satisfactory

Unsatisfactory

- *20 **Element :** CRITICAL **Conditions :** **Standards :**
 Observe caution. Same as element.

Comments :

Satisfactory

Unsatisfactory

- *21 **Element :** CRITICAL **Conditions :** **Standards :**
 Slowly open V-803 and close V-804. CUE OPTION #4: Flow meter reads 60 gpm. Locates valves.
 Simulate unlocking and operating valves.
 CUE OPTION #3: Valves no longer turn in that direction. IF performing OPTION #4, indicate that meter is monitored (for 60 gpm flow)=
 CUE BOTH OPTIONS: Secure transferring water to RWST.
 CUE:(If student requests eSOMS location) eSOMS gives valve location at: AB INTER, SFP HEAT EXCH AREA ELEV 4 for both valves

Comments :

Satisfactory

Unsatisfactory

*22 **Element :** CRITICAL
Close V-803.

Conditions :
CUE: Valve no longer turns in that direction.

CUE:(If student requests eSOMS location) eSOMS gives valve location at: AB INTER, SFP HEAT EXCH AREA, ELEV 4

Cue: No further actions

Standards :
Locate valve.
Simulate closing valve and locking.

Comments :

Satisfactory

Unsatisfactory

JPM NO JR015.006

Install Spare Source Range Drawer (ER-FIRE.1)

Revision #: 5

Review Date: 10/12/2004

Location: In Plant

Estimated Time (minutes): 45.00

Candidate: _____

Evaluator: _____

Actual Time: _____

Trainee Performance: Satisfactory _____ Unsatisfactory _____

Trainee: _____

Instructor: _____

Submitted By _____

Date _____

Reviewed By _____

Date _____

NOTE

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Initial Conditions:

The plant was operating at 100% power for several months. A fire in the main Control Room forced its evacuation. Approximately 30 minutes later, the Shift Supervisor directs you to install the spare Source Range drawer.

Initiating Cues :

A fire in the Control Room forced its evacuation about 1/2 hour ago. The Shift Supervisor directs you to install the spare Source Range drawer per ER-FIRE.1, Attachment 11. Do not manipulate, connect or disconnect any switches or wires.

Description: Install Spare Source Range Drawer (ER-FIRE.1) (JR015.006)

JPM Tasks

Task ID: 015-017-05-01A

Task Standards :

In accordance with the procedure

Tools :

Procedure

Hard Hat

Hearing Protection

Flash Jacket

Appendix R Tool Pouch

Safety Glasses

Rubber Gloves

Terminating Cues

Trainee Says Task is Completed

Task Completion

References :

<u>ID</u>	<u>Description</u>	<u>Review Date</u>	<u>Ref Flag</u>
PRER ER-FIRE.1	ALTERNATE SHUTDOWN FOR CONTROL COMPLEX FIRE		<input type="checkbox"/>

Safety Considerations :

Electrical Shock Hazard

Consequences of Inadequate Performance:

Inability to determine reactor core shutdown

General Comments :

Inform SS.

Appendix "R" Locker Key.

Procedure ER-FIRE.1.

DISCUSS WITH I&C AHEAD OF TIME FOR EQUIPMENT CHECK AFTER PERFORMANCE.

Performance Checklist

- | | | | |
|----|--|---|--|
| 1 | Element :
Handout | Conditions :
NOTE: Give students an Appendix "R" package. This will include the procedures and Appendix "R" key.

CUE: Tell student to simulate the radio. | Standards : |
| | Comments : | | |
| | Satisfactory | <input type="checkbox"/> | Unsatisfactory <input type="checkbox"/> |
| 2 | Element :
Locate appropriate section of procedure. | Conditions : | Standards :
Attachment 11. |
| | Comments : | | |
| | Satisfactory | <input type="checkbox"/> | Unsatisfactory <input type="checkbox"/> |
| 3 | Element :
Locate appropriate locker. | Conditions : | Standards :
Same as element. |
| | Comments : | | |
| | Satisfactory | <input type="checkbox"/> | Unsatisfactory <input type="checkbox"/> |
| *4 | Element : <u>CRITICAL</u>
Obtain appropriate equipment from locker for SR storage. | Conditions :
NOTE: For Requal exam it is not necessary to remove cables, but examinee must explain what he would do. A prompt of this order would be appropriate at this point.

NOTE: Cable tie-offs not critical. | Standards :
-Rubber gloves
-Multi-headed extension
-Appendix "R" Source range cables
-Electrical safety jacket
-Cable tie-offs |
| | Comments : | | |
| | Satisfactory | <input type="checkbox"/> | Unsatisfactory <input type="checkbox"/> |
| *5 | Element : <u>CRITICAL</u>
Run cables per instructions in Attachment 11. | Conditions :
NOTE: Requal examinees should not run the cables, but they must explain how it is done. | Standards :
Simulate unless for Appendix "R" test or Initial License Class. |

Comments :

Satisfactory

Unsatisfactory

6

Element :Place Source Range Drawer near
IBELIP Panel.**Conditions :****Standards :**Within reach of extension
cord.**Comments :**

Satisfactory

Unsatisfactory

*7

Element :CRITICAL
Connect unattached ends of the
three connectors to Source Range
Drawer.**Conditions :****Standards :**Simulate connections:
A to A
B to B
C to C**Comments :**

Satisfactory

Unsatisfactory

8

Element :Don rubber gloves and safety
jacket.**Conditions :****Standards :**

Same as element.

Comments :

Satisfactory

Unsatisfactory

9

Element :In catwalk area disconnect cables
and connect the ends of the three
Appendix R Source Range cables
to Preamp connectors.**Conditions :****Standards :**Simulate connections:
A to A
B to B
C to C**Comments :**

Satisfactory

Unsatisfactory

*10

Element :CRITICAL
Perform or verify switch lineup.**Conditions :****Standards :**Done IAW step by step on
Attachment 11.**Comments :**

Satisfactory

Unsatisfactory

- | | | | |
|-------|---|---|---|
| 11 | Element :
Notify SS that Spare Source Range is ready. | Conditions :
CUE: > 30 minutes have elapsed since reactor shutdown. | Standards :
Same as element. |
| | Comments : | | |
| | Satisfactory <input type="checkbox"/> | Unsatisfactory <input type="checkbox"/> | |
| <hr/> | | | |
| *12 | Element : <u>CRITICAL</u>
Plug 2 Source Range Drawer power sources into the multihead extension cords. | Conditions : | Standards :
Simulate plugging into IBELIP. |
| | Comments : | | |
| | Satisfactory <input type="checkbox"/> | Unsatisfactory <input type="checkbox"/> | |
| <hr/> | | | |
| *13 | Element : <u>CRITICAL</u>
Turn power switches on. | Conditions : | Standards :
Simulate turning on power. |
| | Comments : | | |
| | Satisfactory <input type="checkbox"/> | Unsatisfactory <input type="checkbox"/> | |
| <hr/> | | | |
| *14 | Element : <u>CRITICAL</u>
Set the High Voltage to 1500V on 556 HVPS. | Conditions : | Standards :
Simulate adjusting voltage as directed by procedure. |
| | Comments : | | |
| | Satisfactory <input type="checkbox"/> | Unsatisfactory <input type="checkbox"/> | |
| <hr/> | | | |
| 15 | Element :
Notify Shift Supervisor. | Conditions :
CUE: No further action. | Standards :
Simulate using radio to notify SS of task completion. |
| | Comments : | | |
| | Satisfactory <input type="checkbox"/> | Unsatisfactory <input type="checkbox"/> | |
| <hr/> | | | |