

Facility: Davis-BesseTask No: 000-048-05-0100Task Title: Establish High Pressure Injection Alternate Minimum Recirc FlowpathK/A Reference: 006-A4.05 3.9/3.8Job Performance Measure No: I

Examinee: _____

NRC Examiner: _____

Facility Evaluator: _____

Date: _____

Method of testing:Simulated Performance X

Actual Performance _____

Classroom _____

Simulator _____

Plant X

READ TO THE EXAMINEE

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

Initial Conditions: A Loss of Coolant Accident has caused a loss of Subcooling Margin. Subcooling Margin has been regained. Borated Water Storage Tank level is lowering at 1.5 feet/hour.

Task Standard: Place the High Pressure Injection alternate minimum recirc flowpath in service.

Required Materials: None

General References: DB-OP-02000, RPS, SFAS, SFRCS Trip, or Steam Generator Tube Rupture

Initiating Cue: The Unit Supervisor directs you to place the High Pressure Injection alternate minimum recirc flowpath in service in accordance with Attachment 14 of DB-OP-02000, RPS, SFAS, SFRCS Trip, or Steam Generator Tube Rupture. The Shift Manager has given permission to operate locked valves during the lineup.

Time Critical Task: No

Validation Time: 19 Minutes

Alternate Path: No

Initiating Cue

A Loss of Coolant Accident has caused a loss of Subcooling Margin. Subcooling Margin has been regained. Borated Water Storage Tank level is lowering at 1.5 feet/hour.

The Unit Supervisor directs you to place the High Pressure Injection alternate minimum recirc flowpath in service in accordance with Attachment 14 of DB-OP-02000, RPS, SFAS, SFRCS Trip, or Steam Generator Tube Rupture.

The Shift Manager has given permission to operate locked valves during the lineup.

PERFORMANCE INFORMATION

(Denote critical steps with a check mark)

1. Performance step: Proceed to ECCS Room 2

Standard: Use the Auxiliary Building Stairwell next to the elevator

Comment: None

2. Performance step: Record HPI Pump 2 discharge pressure

Standard: Record pressure indicated on PIHP5A

Comment: None

Cue: PIHP5A indicates 1800 psi

3. Performance step: Disable DH63

✓

Standard: Disable DH 63 using HSDH63

Comment: None

Cue: HSDH63 RED disable pushbutton has been depressed. HSDH63 GREEN enable pushbutton pops out

4. Performance step: Record Decay Heat Pump 2 discharge pressure

Standard: Record pressure indicated on PIDH5A

Comment: None

Cue: PIDH5A indicates 195 psi

5. Performance step: Record HPI Pump 2 alternate minimum recirc line pressure

Standard: Record pressure indicated on PI3001.

Comment: None

Cue: PI3001 indicates 0 psi

6. Performance step: Unlock and open HP94, HPI 2 Alternate Minimum Flow Line Upstream Isolation

✓

Standard: Unlock and rotate handwheel of HP94 in the counter clock-wise direction

Comment: Not critical to close ¼ turn

Cue: HP94 has been unlocked. HP94 handwheel has been rotated in counter clock-wise direction. The valve stem is out.
(If performed) HP 94 handwheel has been rotated in the clockwise direction ¼ turn.

7. Performance step: Unlock and open HP95, HPI 2 Alternate Minimum Flow Line Downstream Isolation

✓

Standard: Unlock and rotate handwheel of HP95 in the counter clock-wise direction

Comment: Not critical to close ¼ turn

Cue: HP95 has been unlocked. HP95 handwheel has been rotated in counter clock-wise direction. The valve stem and handwheel rise.
(If performed) HP 95 handwheel has been rotated in the clockwise direction ¼ turn.

8. Performance step: Record HPI Pump 2 alternate minimum recirc line pressure

Standard: Record pressure indicated on PI3001.

Comment: None

Cue: PI3001 indicates 950 psi.

9. Performance step: Notify the Control Room HPI 2 alternate minimum recirc line-up is complete

Standard: Use GAI-TRONICS or radio to communicate with the Control Room.

Comment: None

Cue: Control Room acknowledges HPI 2 alternate recirc line-up is complete

10. Performance step: Proceed to ECCS Room 1

Standard: Proceed to ECCS Room 1

Comment: None

11. Performance step: Record HPI Pump 1 discharge pressure

Standard: Record pressure indicated on PIHP5B

Comment: None

Cue: PIHP5B indicates 1800 psi

12. Performance step: Disable DH64

√

Standard: Place HSDH64 in the DISABL position

Comment: None

Cue: HSDH64 RED disable pushbutton has been depressed. HSDH64 GREEN enable pushbutton pops out

13. Performance step: Record Decay Heat Pump 1 discharge pressure

Standard: Record pressure indicated on PIDH05B

Comment: None

Cue: PIDH05B indicates 195 psi

14. Performance step: Record HPI Pump 1 alternate minimum recirc line pressure

Standard: Record pressure indicated on PI3000.

Comment: None

Cue: PI3000 indicates 0 psi

15. Performance step: Unlock and open HP91, HPI 1 Alternate Minimum Flow Line Upstream Isolation

✓

Standard: Unlock and rotate handwheel of HP91 in the counter clock-wise direction

Comment: Not critical to close ¼ turn

Cue: HP91 has been unlocked. HP91 handwheel has been rotated in counter clock-wise direction. The valve stem is up.

(If performed) HP 91 handwheel has been rotated in the clockwise direction ¼ turn.

16. Performance step: Unlock and open HP92, HPI 1 Alternate Minimum Flow Line Downstream Isolation

✓

Standard: Unlock and rotate handwheel of HP92 in the counter clock-wise direction

Comment: Not critical to close ¼ turn

Cue: HP92 has been unlocked. HP92 handwheel has been rotated in counter clock-wise direction. The valve stem and handwheel rise.

(If performed) HP 92 handwheel has been rotated in the clockwise direction ¼ turn.

17. Performance step: Record HPI Pump 1 alternate minimum recirc line pressure

Standard: Record pressure indicated on PI3000.

Comment: None

Cue: PI3000 indicates 950 psi

18. Performance step: Notify the Control Room HPI 1 alternate minimum recirc line-up is complete

Standard: Use GAI-TRONICS of radio to communicate with the Control Room.

Comment: None

Cue: Control Room acknowledges HPI 1 alternate recirc line-up is complete

Terminating Cue: This JPM is complete.

VERIFICATION OF COMPLETION

Job Performance Measure No. _____ I _____

Examinee's Name:

Examiner's Name:

Date performed:

Facility Evaluator:

Number of attempts:

Time to complete:

Question Documentation:

Question: _____

Response: _____

Result: SAT or UNSAT

Examiner's signature and date: _____

Facility: Davis-BesseTask No: 059-013-04-0400Task Title: Emergency Operation of the Startup Feedwater PumpK/A Reference: 054-AA1.02 4.4/4.4Job Performance Measure No: J

Examinee: _____

NRC Examiner: _____

Facility Evaluator: _____

Date: _____

Method of testing:Simulated Performance X

Actual Performance _____

Classroom _____

Simulator _____

Plant X

READ TO THE EXAMINEE

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

Initial Conditions: The plant was at 100% power. A loss of all Main Feedwater and Auxiliary Feedwater has occurred. The Motor Driven Feed Pump failed to start.

Task Standard: Align the Startup Feedwater Pump and place in service

Required Materials: Support from Nuclear Security for entering the Auxiliary Feedwater Pump room

General References: DB-OP-06226, Startup Feed Pump Operating Procedure

Initiating Cue: The Unit Supervisor directs you to line up the Startup Feedwater Pump for emergency operation in accordance with section 5.1 of DB-OP-06226, Startup Feed Pump Operating Procedure. Another operator is standing by in the high voltage switchgear room to rack in AC212 for the SUFP. The Shift Manager has given permission to remove the Caution Tags on AC212 and NPO150.

Time Critical Task: No

Validation Time: 25 Minutes

Alternate Path: No

Initiating Cue

The plant was at 100% power. A loss of all Main Feedwater and Auxiliary Feedwater has occurred. The Motor Driven Feed Pump failed to start.

The Unit Supervisor directs you to line up the Startup Feedwater Pump for emergency operation in accordance with section 5.1 of DB-OP-06226, Startup Feed Pump Operating Procedure. Another operator is standing by in the high voltage switchgear room to rack in AC212 for the SUFP.

The Shift Manager has given permission to remove the Caution Tags on AC212 and NPO150.

PERFORMANCE INFORMATION

(Denote critical steps with a check mark)

1. Performance step: Notify Security access will be required to Room 238.

Standard: GaiTronics or phone call made.

Comment: Inform examinee that Security has been notified ahead of time.

Cue: **Guard is being dispatched.**

2. Performance step: Open FW 106, SUFP to Main FW Line Isolation.

√

Standard: Handwheel rotated counter clock wise

Comment: Not critical to close ¼ turn

Cue: FW 106 handwheel has been rotated in counter clock-wise direction. The valve stem is out.

(If performed) FW 106 handwheel has been rotated in the clockwise direction ¼ turn.

3. Performance step: Open FW 32, SUFP Suction from Deaerator Storage Tanks

√

Standard: Handwheel rotated counter clock wise

Comment: Not critical to close ¼ turn

Cue: FW 32 handwheel has been rotated in counter clock-wise direction. The valve stem is out.

(If performed) FW 32 handwheel has been rotated in the clockwise direction ¼ turn.

4. Performance step: Open CW 196, SUFP Seal Water Cooler/L.O. Cooler Inlet Header Isolation Valve

√

Standard: Handwheel rotated counter clock wise

Comment: Not critical to close ¼ turn

Cue: CW 196 handwheel has been rotated in counter clock-wise direction. The valve stem is out.

(If performed) CW 196 handwheel has been rotated in the clockwise direction ¼ turn.

5. Performance step: Open CW 197, SUFP Seal Water Cooler/L.O. Cooler Outlet Header Isolation Valve

√

Standard: Handwheel rotated counter clock wise

Comment: Not critical to close ¼ turn

Cue: CW 197 handwheel has been rotated in counter clock-wise direction. The valve stem is out.

(If performed) CW 197 handwheel has been rotated in the clockwise direction ¼ turn.

6. Performance step: Rack in AC212, Start-up FD Pump breaker.

√

Standard: Communicate to the standby Operator to rack in AC212

Comment: None

Cue: Another Operator has racked in breaker AC212.

7. Performance step: Start SUFP

√

Standard: Local START button (NP0150) pressed

Comment: None

Cue: Caution Tag has been removed from NPO150. START has been pressed on NPO150, pump shaft starts turning. Pump start up noise can be heard.

8. Performance step: Notify the Control Room the SUFP is available

√

Standard: Control Room notified by radio or GaiTronics

Comment: None

Cue: Control Room acknowledges Startup Feedwater Pump is available.

Terminating Cue: This JPM is complete

VERIFICATION OF COMPLETION

Job Performance Measure No. _____ J _____

Examinee's Name:

Examiner's Name:

Date performed:

Facility Evaluator:

Number of attempts:

Time to complete:

Question Documentation:

Question: _____

Response: _____

Result: SAT or UNSAT

Examiner's signature and date: _____

Facility: Davis-BesseTask No: 064-008-05-0401Task Title: Emergency Shutdown of the Station Blackout Diesel Generator (SBODG)K/A Reference: 064-A4.01 4.0/4.3Job Performance Measure No: K

Examinee: _____

NRC Examiner: _____

Facility Evaluator: _____

Date: _____

Method of testing:Simulated Performance X

Actual Performance _____

Classroom _____

Simulator _____

Plant X

READ TO THE EXAMINEE

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

Initial Conditions: The plant is in Mode 5. The SBODG was started from the Control Room for a dead bus load test and is loaded on D2 bus.

Task Standard: Use the shutdown lever to perform an emergency shutdown of the SBODG

Required Materials: None

General References: DB-OP-06334, Station Blackout Diesel Generator Operating Procedure

Initiating Cue: The SBODG has lost oil pressure. The Shift Manager directs you to emergency shutdown the SBODG in accordance with DB-OP-06334, Station Blackout Diesel Generator Operating Procedure

Time Critical Task: NO

Validation Time: 9 Minutes

Alternate Path: Yes

Initiating Cue

The plant is in Mode 5.

The SBODG was started from the Control Room for a dead bus load test and is loaded on D2 bus.

The SBODG has lost oil pressure.

The Shift Manager directs you to emergency shutdown the SBODG in accordance DB-OP-06334, Station Blackout Diesel Generator Operating Procedure

PERFORMANCE INFORMATION

(Denote critical steps with a check mark)

1. Performance step: Emergency shutdown the SBODG

Standard: Depress the Emergency Stop pushbutton on panel C30202 or C30203

Comment: May try both Emergency Stop pushbuttons. One pushbutton is on the Electrical Panel and one pushbutton is on the Engine Panel.

Cue: The Emergency Stop pushbutton on the SBODG electrical panel has been depressed. No changes in the electrical panel indications. AD301 red light is lit.

Cue: The Emergency Stop pushbutton on the SBODG engine panel has been depressed. The engine tachometer indicates 900 RPM. The SBODG continues to run.

2. Performance step: Open SBODG output breaker

✓

Standard: Manually trip AD 301

Comment: None

Cue: AD301 breaker switch rotated to the TRIP position. RED light goes off. GREEN light lights.

3. Performance step: Emergency shutdown the SBODG

✓

Standard: Shutdown lever taken to the trip position

Comment: Shutdown lever

Cue: The shutdown lever has been moved clockwise to the TRIPPED position. Overspeed trip reset lever moves clockwise to the TRIPPED position. The engine begins to slow down.

4. Performance step: Observe SBODG is shutdown

Standard: Check SBODG on engine tachometer

Comment: None

Cue: Engine tachometer indicates 0 RPM.

5. Performance step: Notify the Shift Manager the SBODG is not functional.

Standard: Communicate with the Shift Manager via the GAI-TRONICS or radio

Comment: None

Cue: The Shift Manager acknowledges the SBODG is not functional

Terminating Cue: This JPM is complete

VERIFICATION OF COMPLETION

Job Performance Measure No. _____ K _____

Examinee's Name:

Examiner's Name:

Date performed:

Facility Evaluator:

Number of attempts:

Time to complete:

Question Documentation:

Question: _____

Response: _____

Result: SAT or UNSAT

Examiner's signature and date: _____