

TASK TITLE: 2B Rod Drive MG Set Startup and Paralleling with Auto Synch Failure

JPM No.: IP-100

REV: 20070301

Task No.: R-RD-014

K/A No.: 001000 2.1.23

Objective No.: 4.C.RD-03

K/A IMP: 3.9/4.0

EXAMINEE: _____

RO SRO (Circle One)

EVALUATOR: _____

DATE: _____

The Examinee: PASSED _____ this JPM.
FAILED _____

TIME STARTED: _____

TIME FINISHED: _____

JPM TIME: _____ MINUTES

CRITICAL ELEMENTS: (*) 4, 7, 12

APPROX COMPLETION TIME: 45 MINUTES

EVALUATION METHOD:

LOCATION:

____ PERFORM

X IN PLANT

X SIMULATE

____ SIMULATOR

GENERAL REFERENCES:

1. BwOP RD-5, CONTROL ROD DRIVE MG SET STARTUP AND PARALLELING TO OPERATING MG SET, Rev. 9.

MATERIALS:

1. Copy of BwOP RD-5, Rev. 9.

TASK STANDARDS:

1. Startup the 2B rod drive MG set.
2. Determine 2B rod drive MG set will not automatically synchronize to 2A rod drive MG.
3. Perform alternate synchronization of 2B rod drive MG set to 2A rod drive MG set.

TASK CONDITIONS:

1. You are an extra NSO.
2. Unit 2 start up is in progress per 2BwGP 100-2, PLANT STARTUP.
3. 2A Rod Drive MG Set is running.

INITIATING CUES:

1. The Unit 2 US has directed you to start up and parallel the 2B Rod Drive MG Set per BwOP RD-5, CONTROL ROD DRIVE MG SET STARTUP AND PARALLELING TO OPERATING MG SET.
CUE: Hand examinee copy of BwOP RD-5.
2. Inform the Unit 2 US when you have completed starting up and paralleling 2B Rod Drive MG Set.

RECORD START TIME: _____

	PERFORMANCE STEP	STANDARD	CIRCLE APPLICABLE
1.	Refer to BwOP RD-5. CUE: All Prerequisites, Precautions, Limitations and Actions have been met.	Refer to BwOP RD-5.	SAT UNSAT N/A <u>Comments:</u>
2.	<p>Lineup the 2B Rod Drive MG Set Control Cabinet.</p> <p>CUE: Voltage Adjust Potentiometer is set same as 2A MG set.</p> <p>CUE: Motor breaker is tripped, GREEN (open) light is LIT.</p> <p>CUE: Synchronizer Switch is as seen (OFF).</p> <p>CUE: Generator breaker is tripped, GREEN (open) light is LIT.</p> <p>CUE: Ammeter selector switch is as seen.</p> <p>CUE: Voltmeter selector switch is as seen.</p>	<p>Perform the following at 2RD03E:</p> <ul style="list-style-type: none"> • VERIFY/SET the Voltage Adjust Potentiometer to approximately the same position as the 2A MG set. • VERIFY the Motor Breaker is Tripped and the OPEN light ENERGIZED. <ul style="list-style-type: none"> ○ VERIFY/PLACE the Synchronizer Switch in the OFF position. • VERIFY the Generator Breaker is Tripped and the OPEN light ENERGIZED. <ul style="list-style-type: none"> ○ VERIFY/PLACE Ammeter Selector Switch, in position A, B, or C. ○ VERIFY/PLACE Voltmeter Selector Switch, in position 1-2, 2-3, or 3-1. 	SAT UNSAT N/A <u>Comments:</u>

	PERFORMANCE STEP	STANDARD	CIRCLE APPLICABLE
3.	<p>Verify 2A Rod Drive MG Set Control Cabinet aligned.</p> <p>CUE: Synchronizer Switch is as seen (OFF).</p> <p>CUE: Ammeter selector switch is in same position as 2B MG set.</p> <p>CUE: Voltmeter selector switch is in same position as 2B MG set.</p>	<p>Perform the following at 2RD03E:</p> <ul style="list-style-type: none"> • Verify Synchronizer Switch is in OFF position. • Verify 2A MG Set Ammeter Selector Switch, is in same position as 2B MG Set Ammeter Selector Switch, • Verify 2A MG Set Voltmeter Selector Switch, is in same position as 2B MG Set Voltmeter Selector Switch. 	<p>SAT UNSAT N/A</p> <p><u>Comments:</u></p>
*4.	<p>Start the 2B Rod Drive MG Set.</p> <p>CUE: Relays are as seen (No Targets are up).</p> <p>NOTE: If examinee depresses the relay reset pushbutton, provide the following cue:</p> <p>CUE: Reset pushbutton has been depressed, and released.</p> <p>CUE: 2B MG Set Motor Breaker is closed, RED (closed) light is LIT, MG set is spinning up.</p> <p>CUE: 15 secs have elapsed, MG set is at rated speed.</p>	<p>Perform the following at 2RD03E:</p> <ul style="list-style-type: none"> ○ Ensure no targets indicating on the following relays: <ul style="list-style-type: none"> ○ Common Generator Ground Relay for both MG ○ 2B MG Set Phase A Dir Overcurrent. ○ 2B MG Set Phase C Dir Overcurrent. ○ Depress the Reset pushbutton. • Place 2B MG Set Motor Breaker control switch to CLOSE. ○ Allow 15 secs for 2B MG Set to reach rated speed. 	<p>SAT UNSAT N/A</p> <p><u>Comments:</u></p>

	EVALUATOR NOTE: DO NOT ALLOW EXAMINEE TO OPEN REACTOR TRIP BREAKER CABINET DOORS. Photos of the Reactor Trip and Bypass Breakers are attached on JPM pages 8 & 9.		
	PERFORMANCE STEP	STANDARD	CIRCLE APPLICABLE
5.	<p>Ensure locally the Reactor Trip Breakers are closed.</p> <p>NOTE: Provide examinee with photo of RTA and RTB (page 8) and provide the following cue:</p> <p>CUE: RTA and RTB are as shown in photo.</p> <p>NOTE: Provide trainee with photo of BYA and BYB (page 9) and provide the following cue.</p> <p>CUE: BYA and BYB are as shown in photo.</p>	<p>Perform the following at the Reactor Trip Switchgear:</p> <ul style="list-style-type: none"> • Determine RTA and RTB closed. ○ Determine BYA and BYB are open. 	<p>SAT UNSAT N/A</p> <p><u>Comments:</u></p>
6.	<p>Verify stationary disconnects are closed.</p> <p>CUE: All switches are as seen (closed).</p>	<p>Above the Rod Drive Cabinets, ENSURE the following Stationary Disconnects are CLOSED (in ON position):</p> <ul style="list-style-type: none"> • 2RD02JA • 2RD03JA • 2RD04JA • 2RD05JA • 2RD06JA 	<p>SAT UNSAT N/A</p> <p><u>Comments:</u></p>
*7.	<p>Perform field flash of 2B MG Set.</p> <p>CUE: Field Flash Pushbutton is depressed.</p> <p>CUE: 2B MG Set voltage is ~235 volts.</p> <p>CUE: Field Flash Pushbutton is released.</p>	<p>Perform the following at 2RD03E:</p> <ul style="list-style-type: none"> • Depress and hold the 2B MG Set Generator Field Flash pushbutton until voltage is steady at ~235 volts. 	<p>SAT UNSAT N/A</p> <p><u>Comments:</u></p>
8.	<p>Check the range of control of the MG Set Voltage Adjuster.</p> <p>CUE: As voltage adjust pot is adjusted up, voltage rises. As pot is adjusted down, voltage lowers. Range of control is 230-300 volts.</p>	<p>Perform the following at 2RD03E:</p> <ul style="list-style-type: none"> • Rotate the 2B MG Set Voltage Adjust Pot and CHECK the range of control ~230 to 300 volts.) 	<p>SAT UNSAT N/A</p> <p><u>Comments:</u></p>

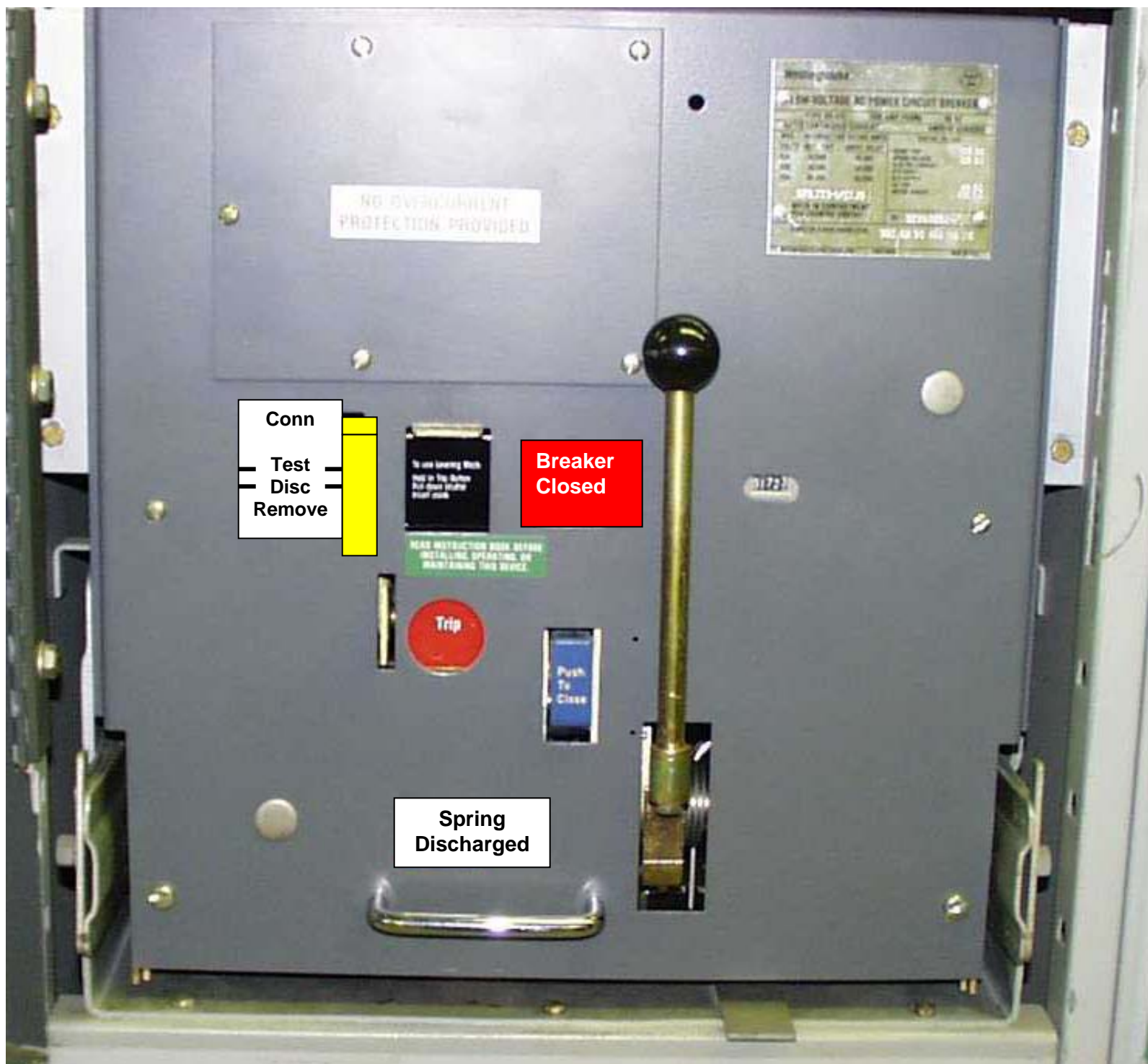
	PERFORMANCE STEP	STANDARD	CIRCLE APPLICABLE
9.	Adjust 2B MG Set voltage slightly higher than 2A MG Set. CUE: 2B MG set voltage is 1V higher than 2A voltages after adjustment of 2B MG set pot.	Perform the following at 2RD03E: <ul style="list-style-type: none"> Adjust 2B MG Set voltage 0-2.5V higher than 2A MG Set by adjusting the 2B MG set potentiometer. 	SAT UNSAT N/A <u>Comments:</u>
10.	Attempt automatic paralleling of 2A and 2B MG Sets. CUE: 2B MG Set Synch Switch is in ON position. CUE: 2B Generator Output breaker GREEN (open) light is LIT. CUE: 40 seconds have elapsed, 2B Generator Output breaker GREEN (open) light is LIT. CUE: Synch Switch is in OFF position. NOTE: Examinee may attempt auto parallel 2B MG set again. If examinee attempts auto parallel, repeat cues. A maximum of 3 auto parallel attempts is allowed per note prior to step F.11. Intent is for examinee to perform alternate synchronization loading method.	Perform the following at 2RD03E: <ul style="list-style-type: none"> Place 2B Synchronizer Switch to ON. Check for closure of the 2B Generator Output Breaker. <ul style="list-style-type: none"> Determine 2B MG Set Generator Output Breaker did not close. Place 2B Synchronizer Switch to OFF. 	SAT UNSAT N/A <u>Comments:</u>
EVALUATORS NOTE: Alternate path begins here.			
11.	Obtain Shift Supervisor's permission to use the alternate synchronizing and loading method. CUE: Unit Supervisor authorizes use of alternate method of synchronizing and loading 2B MG set.	Perform the following: <ul style="list-style-type: none"> Obtain Shift Supervisor's permission to use the alternate synchronizing and loading method. 	SAT UNSAT N/A <u>Comments:</u>

	PERFORMANCE STEP	STANDARD	CIRCLE APPLICABLE
*12.	<p>Parallel the 2A and 2B Rod Drive MG Sets using the alternate synchronizing and loading method.</p> <p>CUE: 2B synch switch is in ON position.</p> <p>CUE: 2B MG Set Motor Breaker is tripped. Green (open) light is energized.</p> <p>CUE: 2B MG set motor and generator breakers RED (closed) lights immediately LIGHT.</p>	<p>Perform the following at 2RD03E:</p> <ul style="list-style-type: none"> Place 2B MG Set Synchronizer Switch to ON. Place 2B MG Set Motor Breaker control switch to TRIP. Verify the 2B Motor and Generator Breakers BOTH CLOSE within 5-6 seconds. 	<p>SAT UNSAT N/A</p> <p><u>Comments:</u></p>
13.	<p>Complete switch alignment on 2B MG Set Control Cabinet.</p> <p>CUE: 2B synch switch is in OFF position.</p> <p>CUE: 2B MG set generator breaker control switch is in after closed.</p> <p>CUE: 2B MG set motor breaker control switch is in after closed.</p> <p>CUE: As Unit 2 US, acknowledge report</p>	<p>Perform the following at 2RD03E:</p> <ul style="list-style-type: none"> Place 2B MG Set Synchronizer Switch to OFF. Place 2B MG Set Generator Breaker control switch to AFTER CLOSED. Place 2B MG Set Motor Breaker control switch to AFTER CLOSED. Notify Unit 2 US 2B MG set is paralleled. 	<p>SAT UNSAT N/A</p> <p><u>Comments:</u></p>

CUE: THIS COMPLETES THIS JPM.

RECORD STOP TIME: _____

COMMENTS:





JOB PERFORMANCE MEASURE

TASK CONDITIONS:

1. You are an extra NSO.
2. Unit 2 start up is in progress per 2BwGP 100-2, PLANT STARTUP.
3. 2A Rod Drive MG Set is running.

INITIATING CUES:

1. The Unit 2 US has directed you to start up and parallel the 2B Rod Drive MG Set per BwOP RD-5, CONTROL ROD DRIVE MG SET STARTUP AND PARALLELING TO OPERATING MG SET.
2. Inform the Unit 2 US when you have completed starting up and paralleling 2B Rod Drive MG Set.

TASK TITLE: Local Start of 2B AF Pump with Failure of Battery Bank

JPM No.: IP-400S

REV: 20070301

Task No: R-AF-012

K/A No.: 061000A2.03

Objective No: 4.C.AF-02

K/A Imp: 3.1/3.4

EXAMINEE: _____

RO SRO (Circle One)

EVALUATOR: _____

DATE: _____

The Examinee: PASSED _____ this JPM.

FAILED _____

TIME STARTED: _____

TIME FINISHED: _____

JPM TIME: _____ MINUTES

CRITICAL ELEMENTS: (*) 2, 6, 7

APPROX COMPLETION TIME: 35 MINUTES

CRITICAL TIME: NA

EVALUATION METHOD:

___ PERFORM

X SIMULATE

LOCATION:

X IN PLANT

___ SIMULATOR

GENERAL REFERENCES:

1. BwOP AF-7, Rev. 28, Auxiliary Feedwater Pump B (Diesel) Startup on Recirc.
2. BwOP AF-7T1, Rev. 4, Diesel Driven Auxiliary Feedwater Pump Operating Log.

MATERIALS:

1. Copy of BwOP AF-7, Rev. 28.
2. Copy of BwOP AF-7T1, Rev. 4.
3. GA Key for accessing 2B AF pump rear door.

TASK STANDARDS:

1. Start 2B AF pump lube oil system.
2. Determine 2B AF pump battery bank has failed.
3. Align alternate 2B AF pump battery bank.
4. Start 2B AF pump.

TASK CONDITIONS:

1. You are an extra NSO.
2. Unit 2 is undergoing a loss of heat sink event.
3. Main control room HVAC is operating in makeup mode.
4. An EQUIPMENT OPERATOR is standing by at the 2B AF pump to monitor governor linkages during startup.

INITIATING CUES:

1. The Unit 2 Unit Supervisor directs you to locally start the 2B Auxiliary Feedwater pump in accordance with BwOP AF-7, Auxiliary Feedwater Pump B (Diesel) Startup on Recirc.

CUE: Hand examinee copy of BwOP AF-7 and BwOP AF-7T1.

2. BwOP AF-7 steps F.1 thru F.10 are complete.

EVALUATOR NOTE: Verify/obtain GA Key for accessing 2B AF pump room rear door.

RECORD START TIME: _____

	PERFORMANCE STEP	STANDARD	CIRCLE APPLICABLE
1.	Refer to BwOP AF-7 CUE: All precautions, prerequisites and limitations and actions are complete.	Perform the following: <ul style="list-style-type: none"> Refer to BwOP AF-7 to step F.9. 	SAT UNSAT N/A <u>Comments:</u>
*2.	Start Lube Oil systems: (steps F.11 – F.14) NOTE: 2B AF Pump lube oil pump panels are located behind 2AF01J. CUE: Gearbox lube oil pump control switch is in START. CUE: If asked, you hear Gearbox lube oil pump motor running. CUE: Aux lube oil pump control switch is in START. CUE: If asked, you hear Aux lube oil pump motor running. CUE: Lube oil is within sightglass. NOTE: After examinee locates inlet and outlet pressure gages, provide the following cue: CUE: Inlet pressure (RIGHT) is 28 psig, and the outlet pressure (LEFT) is 26 psig.	Perform the following to START Auxiliary Lube Oil Systems: <ul style="list-style-type: none"> At Aux FW Pump 2B Lube Oil Pump 2AF01PB-C local control panel, place 2HS-AF152, Aux FW Pp 2B Gear Box Lube Oil Pp, L/C/S, to START At Aux FW Pump 2B Lube Oil Pump 2AF01PB-A Local Control Panel, place 2HS-AF120, Aux FW Pp 2B Lube Oil Pp, L/C/S to START. <ul style="list-style-type: none"> Verify pump lube oil inventory is within the sightglass Verify Lube Oil Filter Differential Pressure is < 4 psid 	SAT UNSAT N/A <u>Comments:</u>
3.	Verify/Place VC in M/U mode per BwOP VC-5: (step F.15) CUE: From initiating cue, VC is operating in makeup mode.	Verify/Place VC in M/U mode per BwOP VC-5, at SM discretion. <ul style="list-style-type: none"> From initiating cue, VC is operating in makeup mode. 	SAT UNSAT N/A <u>Comments:</u>

	PERFORMANCE STEP	STANDARD	CIRCLE APPLICABLE
4.	<p>Align AFW system discharge flowpath (steps F.16 – F.17)</p> <p>CUE: If asked, as US, direct that step 16a and 16b will not be performed.</p> <p>CUE: Equipment Operator is standing by to monitor governor linkage.</p>	<p>ALIGN 2B AFW pump discharge flowpath as applicable:</p> <ul style="list-style-type: none"> • Determine AF pump is being started to inject into the SGs during emergency condition ○ Contact US to determine if CLOSURE of B Train 2MOV-AF013s or 2AOV-AF004B will be necessary ○ Verify Equipment Operator standing by to monitor the governor linkage during start of the engine 	<p>SAT UNSAT N/A</p> <p><u>Comments:</u></p>
5.	<p>Attempt to start 2B AF Pump: (step F.18.a & b.)</p> <p>CUE: Engine Start Selector Switch is in MANUAL.</p> <p>CUE: If asked, the Engine Ready light is NOT lit.</p> <p>CUE: Start pushbutton is depressed and held.</p> <p>CUE: Engine cranking sounds are NOT present.</p> <p>CUE: Engine Starting Light NOT LIT.</p> <p>CUE: Start pushbutton released.</p>	<p>Perform the following at 2AF01J:</p> <ul style="list-style-type: none"> • Place the Engine Start Selector Switch to MANUAL. • Depress and Hold the start pushbutton. ○ Check the engine cranking indicator ○ Release the Start Pushbutton. • Determine engine did not start. 	<p>SAT UNSAT N/A</p> <p><u>Comments:</u></p>
EVALUATOR NOTE: Alternate path begins here.			
*6.	<p>Select alternate battery bank for 2B AF pump (step F.18.c)</p> <p>NOTE: When examinee locates Battery Bank Selector Switch, provide the following cue:</p> <p>CUE: Battery Selector Switch is in POS 1.</p> <p>NOTE: When examinee repositions Battery Bank Selector Switch, provide the following cue:</p> <p>CUE: Battery Selector Switch is in POS 2.</p> <p>NOTE: If examinee investigates AF pump batteries and/or chargers, provide the following cues:</p> <p>CUE: Battery and/or chargers are as seen.</p>	<p>Perform the following at 2AF01J:</p> <ul style="list-style-type: none"> • Select alternate battery bank by rotating the Battery Selector Switch to POS 2 	<p>SAT UNSAT N/A</p> <p><u>Comments:</u></p>

	PERFORMANCE STEP	STANDARD	CIRCLE APPLICABLE
*7.	<p>Start 2B AF Pump (step F.18.c.1 – F.18.f)</p> <p>CUE: RESET pushbutton has been depressed and released.</p> <p>CUE: If asked, Engine Ready light is as seen (BLUE light LIT).</p> <p>CUE: Start pushbutton is being depressed and held.</p> <p>CUE: Engine start noises are heard.</p> <p>CUE: Engine starting light is lit.</p> <p>CUE: 2SI-AF8002, Engine Speed, is rising and Engine Running (GREEN) light is LIT at 350 rpm</p> <p>CUE: Start pushbutton is released</p> <p>CUE: 2SI-AF8002, Engine Speed, is 1825 rpm</p> <p>CUE: If examinee reports start of 2B AF pump to US, as US acknowledge report and direct examinee to continue BwOP AF-7.</p>	<p>Perform the following at 2AF01J:</p> <ul style="list-style-type: none"> • Momentarily depress the RESET pushbutton. <ul style="list-style-type: none"> ○ Verify the Ready to Start light is LIT. • Depress and Hold the Start Pushbutton <ul style="list-style-type: none"> ○ VERIFY Engine Starting Light indicates starting sequence is in process ○ VERIFY Engine Running Light is ILLUMINATED when speed indicates 350 RPM ○ RELEASE the START pushbutton ○ CHECK Speed between 1795-1845 RPM 	
8.	<p>Check Auxiliary Feedwater Pump recirc flow: (step F.18.g)</p> <p>NOTE: Recirc flow gauge is large black gauge located on wall to left of pump room door</p> <p>CUE: 2FI-AF096 indicates 90 gpm</p>	<p>Perform the following at 2FI-AF096:</p> <p>Verify AF recirc flow \geq 85 gpm.</p>	<p>SAT UNSAT N/A</p> <p><u>Comments:</u></p>

	PERFORMANCE STEP	STANDARD	CIRCLE APPLICABLE
9.	<p>Ensure SX Cooling is supplied to the engine: (step F.18.h)</p> <p>NOTE: Valves are in overhead above 2AF01J. After identifying limit switches, provide the following cues:</p> <p>CUE: 2SX173 limit switch is made up (valve is open)</p> <p>CUE: 2SX178 limit switch is made up (valve is open)</p> <p>CUE: US informs you that another operator will complete step F.18 of BwOP AF-7.</p>	<p>Verify the following valves open:</p> <ul style="list-style-type: none"> • 2SX173 SX Supply Isolation valve • 2SX178 SX Return Isolation valve 	<p>SAT UNSAT N/A</p> <p><u>Comments:</u></p>

CUE: THIS COMPLETES THIS JPM.

RECORD STOP TIME: _____

COMMENTS:

JOB PERFORMANCE MEASURE

TASK CONDITIONS:

1. You are an extra NSO.
2. Unit 2 is undergoing a loss of heat sink event.
3. Main control room HVAC is operating in makeup mode.
4. An Equipment Operator is standing by at the 2B AF pump to monitor governor linkages during startup.

INITIATING CUES:

1. The Unit 2 Unit Supervisor directs you to locally start the 2B Auxiliary Feedwater pump in accordance with BwOP AF-7, Auxiliary Feedwater Pump B (Diesel) Startup on Recirc.
2. BwOP AF-7 steps F.1 thru F.10 are complete.

TASK TITLE: Align the Fire Hazards Panel

JPM No.: IP-704

Task No.: R-OA-001

Objective No.: 4D.OA-27

REV: 20070301

K/A No.: 016000G2.1.30

K/A IMP: 3.9/3.4

EXAMINEE: _____

RO SRO (Circle One)

EVALUATOR: _____

DATE: _____

The Examinee: PASSED _____ this JPM.

TIME STARTED: _____

FAILED _____

TIME FINISHED: _____

JPM TIME: _____ MINUTES

CRITICAL ELEMENTS: (*) 2, 3

APPROX COMPLETION TIME: 20 MINUTES

CRITICAL TIME: NA

EVALUATION METHOD:

____ PERFORM
X SIMULATE

LOCATION:

X IN PLANT
____ SIMULATOR

GENERAL REFERENCES:

1. 2BwOA PRI-5, CONTROL ROOM INACCESSIBILITY, Rev. 103

MATERIALS:

1. Copy of 2BwOA PRI-5, CONTROL ROOM INACCESSIBILITY.

TASK STANDARDS:

1. Align the Unit 2 Fire Hazards Panel to the Division 22 Power Supply.
2. Align Unit 2 S/G Levels, S/G Pressures, PZR Level, and PZR Pressure instrumentation to the Unit 2 Fire Hazards Panel

TASK CONDITIONS:

1. You are an extra NSO.
2. A fire is ongoing in the Main Control Room and the Unit 2 AEER.
3. The Remote Shutdown Panels have been manned.
4. 1BwOA PRI-5 and 2BwOA PRI-5 are in progress.
5. Bus 241 is deenergized.
6. The 2HS-LV001, Fire Hazards Panel Power Switch, is in the Division 21 position.

INITIATING CUES:

1. The Unit 2 Unit Supervisor directs you to proceed to 2PL10J, Unit 2 Fire Hazards Panel and align 2PL10J to the Division 22 Power Supply.
2. After aligning 2PL10J to the Division 22 Power Supply, align the following instrumentation to the Unit 2 Fire Hazards panel per step 8.c. RNO of 2BwOA PRI-5:
 - a. 2A & 2B SG WR Levels
 - b. 2A & 2B SG Pressures
 - c. PZR Level
 - d. PZR Pressure
3. Inform the Unit 2 Unit Supervisor when you have completed aligning the Unit Fire Hazards Panel.

RECORD START TIME: _____

	PERFORMANCE STEP	STANDARD	CIRCLE APPLICABLE
1.	<p>Refer to 2BwOA PRI-5 and proceed to 2PL10J, Fire Hazards Panel.</p> <p>CUE: When examinee locates 2BwOA PRI-5, provide copy.</p> <p>NOTE: If examinee asks for status of coincident instrumentation channels, provide the following cue:</p> <p>CUE: No other coincident instrumentation channels are in test or tripped.</p> <p>NOTE: 2PL10J is located in 426' Curved Wall Area, Grid S-24.</p>	<p>Perform the following:</p> <ul style="list-style-type: none"> • Locate and obtain 2BwOA PRI-5, step 8.c RNO. • Proceed to 2PL10J, Unit 2 Fire Hazards Panel. (426' S.7-24 electrical penetration area) 	<p>SAT UNSAT N/A</p> <p><u>Comments:</u></p>
*2.	<p>Align the Fire Hazards Panel to Division 22 Power Supply:</p> <p>NOTE: If asked for indications on 2PL10J, provide the following cues:</p> <p>CUE: Division 21 Power Available Light AND Power Light are NOT LIT. Division 22 Power Available Light is LIT.</p> <p>CUE: All instrumentation indicates off scale low.</p> <p>NOTE: After examinee places 2HS-LV001 to Position 3 (Division 22), provide the following cue:</p> <p>CUE: Division 21 Power Available Light is NOT LIT. Power light and Division 22 Power Available Lights are BOTH LIT.</p>	<p>Perform the following at 2PL10J:</p> <ul style="list-style-type: none"> ○ Verify the Division 22 Power Available light is LIT. • Place 2HS-LV001, Fire Hazards Panel Power Switch, in Position 3 (Division 22 Bus 232X2). ○ Verify the Power Light is LIT. 	<p>SAT UNSAT N/A</p> <p><u>Comments:</u></p>

	PERFORMANCE STEP	STANDARD	CIRCLE APPLICABLE
*3.	<p>Align the Fire Hazards Panel.</p> <p>NOTE: As examinee aligns instrumentation, provide the following cues:</p> <p>CUE: 2HS-FW309 is in FIRE position and 2A SG WR is 60%.</p> <p>CUE: 2HS-FW310 is in FIRE position and 2B SG WR is 60%.</p> <p>CUE: 2HS-MS193 is in FIRE position and 2A SG pressure is 1080 psig.</p> <p>CUE: 2HS-MS194 is in FIRE position and 2B SG pressure is 1080 psig.</p> <p>CUE: 2HS-RY033 is in FIRE position and PZR pressure is 2220 psig.</p> <p>CUE: 2HS-RY034 is in FIRE position and PZR level is 30%.</p>	<p>Perform the following at 2PL10J:</p> <ul style="list-style-type: none"> Place the following panel switches to the FIRE position: <ul style="list-style-type: none"> 2HS-FW309 – SG 2A WR Level. 2HS-FW310 – SG 2B WR Level. 2HS-MS193 – SG 2A Pressure. 2HS-MS194 – SG 2B Pressure. 2HS-RY033 – PZR Pressure. 2HS-RY034 – PZR Level. 	<p>SAT UNSAT N/A</p> <p><u>Comments:</u></p>
4	<p>Inform Unit Supervisor Unit 2 Fire Hazards Panel is aligned.</p> <p>CUE: As Unit 2 Unit Supervisor, acknowledge report.</p>	<p>Inform Unit Supervisor Unit 2 Fire Hazards Panel is aligned.</p>	

CUE: THIS COMPLETES THIS JPM.

RECORD STOP TIME: _____

COMMENTS:

JOB PERFORMANCE MEASURE

TASK CONDITIONS:

1. You are an extra NSO.
2. A fire is ongoing in the Main Control Room and the Unit 2 AEER.
3. The Remote Shutdown Panels have been manned.
4. 1BwOA PRI-5 and 2BwOA PRI-5 are in progress.
5. Bus 241 is deenergized.
6. The 2HS-LV001, Fire Hazards Panel Power Switch, is in the Division 21 position.

INITIATING CUES:

1. The Unit 2 Unit Supervisor directs you to proceed to 2PL10J, Unit 2 Fire Hazards Panel, and align 2PL10J to the Division 22 Power Supply.
2. After aligning 2PL10J to the Division 22 Power Supply, align the following instrumentation to the Unit 2 Fire Hazards panel per step 8.c. RNO of 2BwOA PRI-5:
 - a. 2A & 2B SG WR Levels
 - b. 2A & 2B SG Pressures
 - c. PZR Level
 - d. PZR Pressure
3. Inform the Unit 2 Unit Supervisor when you have completed aligning the Unit Fire Hazards Panel.