Constellation Energy Group OPERATOR JOB PERFORMANCE MEASURE

Title: Downshift Reactor Rec	circulation Pumps		Revision: NRC 2005
Task Number: 2029150101			
Approvals: Gen eral Supervisor Operations Training (Designee	3/14/05 Date	<u>NA EXAMINATION SE</u> General Supervisor Operations (Designee)	CURITY Date
NA EXAMINATION SECURITY Configuration Control	/ Date		
Performer:	(RO/SRO)		
Trainer/Evaluator:			
Evaluation Method: <u>X</u> Perfor	rm	_Simulate	
Evaluation Location:Plan	t <u>X</u> Simula	ator	
Expected Completion Time: 20	minutes Time	Critical Task: NO	Alternate Path Task: NO
Start Time:	Stop Time:	Completion Tin	ne:
JPM Overall Rating:	Pass Fail		
NOTE: A JPM overall ra individual competency a	ating of fail shall be given area unsat requires a cor	i if <u>any</u> critical step is grad nment.	ed as fail. Any grade of unsat or

Comments:

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Evaluator Signature:_____

Date:_____

Recommended Start Location:

Simulator

Simulator Set-up:

Reset to IC-44

Directions to Operators:

Read Before Every JPM Performance:

For the performance of this JPM, I will function as the SM, CSO, and Auxiliary Operators. Prior to providing direction to perform this task, I will provide you with the initial conditions and answer any questions. During task performance, I will identify the steps to be simulated, or discuss and provide cues as necessary.

Read Before Each Evaluated JPM Performance:

This evaluated JPM is a measure of your ability to perform this task independently. The Control Room Supervisor has determined that a verifier is not available and that additional / concurrent verification will not be provided; therefore it should not be requested.

Read Before Each Training JPM Performance:

During this Training JPM, applicable methods of verification are expected to be used. Therefore, either another individual or I will act as the additional / concurrent verifier.

Notes to Instructor / Evaluator:

- 1. Critical steps are identified as Pass/Fail. All steps are sequenced critical unless denoted by a "•".
- 2. During Evaluated JPM:
 - Self-verification shall be demonstrated.
- 3. During Training JPM:
 - Self-verification shall be demonstrated.
 - No other verification shall be demonstrated.

References:

- 1. N2-OP-29 G.1.0
- 2. NUREG K/A 202001 A4.01 3.7/3.7

Tools and Equipment:

1. None

Task Standard:

Recirculation pumps 1A and 1B running in slow speed with their flow control valves full open.

- 1. The plant is at 41% power.
- 2. The Rod line is at 60%.
- 3. Hydrogen injection has been secured.
- 4. Evaluator to ask the operator for any questions.

Initiating cue:

RO - "(Operator's name), "Transfer Recirc Pumps from high speed to low speed per N2-OP-29 section G.1.0."

SRO - "(Operator's name), "Transfer Recirc Pumps from high speed to low speed."

Performance Steps	Standard	Grade
1. Provide repeat back of initiating cue. Evaluator Acknowledge repeat back providing correction if necessary	 Proper communications used for repeat back (GAP-OPS-O1) 	Sat/Unsat
RECORD START TIME		
2. Obtain a copy of the reference procedure and review/utilize the correct section.	N2-OP-29 obtained. Precautions & Limitations reviewed and section G.1.0 referenced	Sat/Unsat
 3. Verify the following: □ BRKR 1A/B control switches in NORMAL. 	 Observes BRKR 1A and 1B control switches in NORMAL 	Sat/Unsat
□ BRKR 2A/B are open AND control	 Observes BRKR 2A and 2B control switches in NORMAL 	Sat/Unsat
	 Observes BRKR 2A/2B green lights – ON Observes BRKR 2A/2B red lights – OFF 	Sat/Unsat Sat/Unsat
LFMG generator AND pump motor lockout AND relays are reset at RECIRCULATION SYSTEM LFMG SET AUXILIARY RELAY PANEL B35- P001A(B).	Cue: When asked, report that LFMG generator & pump motor lockout and relays are reset	
 At 2NPS-SWG004 (SWG005), confirm breaker 1, REACTOR RECIRCULATION PUMP MOTOR BRKR – 2A(B) 2RCS-M1A(B) is charged as indicated by yellow indicator on lower left of breaker. 	Cue: Acknowledge request and report that breaker 1 on both NPS-SWG004 and 005 are charged.	
 Position AND hold BRKR 5A(B) control switch to TRANSFER MG, THEN 	Rotates BRKR 5A control switch – TRANSFER MG	Pass/Fail
position the remaining BRKR 5B(A) control switch to TRANSFER MG	 Rotates BRKR 5B control switch – TRANSFER MG The following annunciators alarm not requiring action: 603139 "Reactor Water Level High" (in/clear) 	Pass/Fail

Perf	ormance Steps	Sta	andard	Grade
			603218 "OPRM Trip Enabled" (clears) 842310 "HWC Trouble" (reflashes) 851456 "Cnst System Trouble No Backup Pmp Available (in/clear)	
6. C	Dbserve the following: BRKR 5A trips.		Observes BRKR 5A red light – OFF Observes BRKR 5A green light – ON	Sat/Unsat Sat/Unsat
	BRKR 5B trips.		Observes BRKR 5B red light – OFF Observes BRKR 5B green light – ON	Sat/Unsat Sat/Unsat
C	BRKR 1A AND BRKR 1B close.		Observes BRKR 1A red light – ON Observes BRKR 1A green light – OFF Observes BRKR 1B red light – ON Observes BRKR 1B green light – OFF	Sat/Unsat Sat/Unsat Sat/Unsat Sat/Unsat
ĩ	Pump speed lowers to between 460 AND 350 rpm.		Observes speed on B35-651A and B drop <460 but >350 rpm	Sat/Unsat
-	BRKR 2A AND BRKR 2B close.		Observes BRKR 2A red light – ON Observes BRKR 2A green light – OFF Observes BRKR 2A red light – ON Observes BRKR 2A green light – OFF	Sat/Unsat Sat/Unsat Sat/Unsat Sat/Unsat
Ç	Pump speed stabilizes at about 445 rpm.		Observes speed on B35-651A and B at about 445 rpm	Sat/Unsat
7. l (F	Jsing RECIRC LOOP A <u>AND</u> B FLOW CONTROL stations, raise output signal o 100% (about 85 on A loop % VALVE POSITION indicated).	o o Th	Positions RECIRC LOOP A and B FLOW CONTROL to raise. Observe loop A VALVE POSITION at about 85% Observe loop B VALVE POSTION at about 95%	Pass/Fail Sat/Unsat Sat/Unsat
8. 1 F	Vonitors recirculation pump and LFMG parameters.		603218 "OPRM Trip Enabled" alarms Observe about 73 amps on AM- 2RCSA(B)60 Observe 445 rpm on B35-R651A(B). Dispatches an Auxiliary Operator to report LFMG generator voltage and amperage.	Sat/Unsat Sat/Unsat Sat/Unsat
		Cu vo ge	ue: As the Auxiliary Operator, report that LFMG 'A' generator indicates 1250 ofts and 95 amps. Also, LFMG 'B' enerator indicates 1250 volts and 94 amps.	

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Performance Steps	Standard	Grade
9. Reports that Recirc pumps have been	Cue: Acknowledges the report.	

transferred to slow speed.

TERMINATING CUE: Recirc pumps 1A and 1B running in slow speed.

RECORD STOP TIME_____

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- 1. The plant is at 41% power.
- 2. The Rod line is at 60%.
- 3. Hydrogen injection has been secured.
- 4. Evaluator to ask the operator for any questions.

Initiating cue:

RO - "(Operator's name), "Transfer Recirc Pumps from high speed to low speed per N2-OP-29 section G.1.0."

Candidate:

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- 1. The plant is at 41% power.
- 2. The Rod line is at 60%.
- 3. Hydrogen injection has been secured.
- 4. Evaluator to ask the operator for any questions.

Initiating cue:

**SRO** - "(Operator's name), "Transfer Recirc Pumps from high speed to low speed."

### Constellation Energy Group OPERATOR JOB PERFORMANCE MEASURE

| Title:                               | RCIC Injecti                    | on With Oscilla                       | tions (Faulted)                           | I.                                                | Revisi                               | on: NRC 2005      |          |     |
|--------------------------------------|---------------------------------|---------------------------------------|-------------------------------------------|---------------------------------------------------|--------------------------------------|-------------------|----------|-----|
| Task Number:                         | 2179150101                      |                                       |                                           |                                                   |                                      |                   |          |     |
| Approvals:                           |                                 |                                       |                                           |                                                   |                                      |                   |          |     |
| Ceneral Super<br>Operations Tra      | visor<br>ining (Designe         | <u>3/14/05</u><br>Date                | _                                         | <u>NA EXAMIN</u><br>General Supe<br>Operations (E | <u>NATION</u><br>ervisor<br>Designee | SECURITY          | Date     | -   |
| <u>NA EXAMINA</u><br>Configuration C | ATON SECUR<br>Control           | Date                                  | -                                         |                                                   |                                      |                   |          |     |
| Performer:                           |                                 |                                       | (RO/S                                     | RO)                                               |                                      |                   |          |     |
| Trainer/Evaluat                      | tor:                            |                                       |                                           |                                                   |                                      |                   |          |     |
| Evaluation Met                       | hod: <u>X</u> Perf              | orm                                   | _Simulate                                 |                                                   |                                      |                   |          |     |
| Evaluation Loca                      | ation: _Plant                   | _ <u>x</u> _s                         | Simulator                                 |                                                   |                                      |                   |          |     |
| Expected Com                         | pletion Time:                   | 15 min.                               | Time                                      | Critical Task:                                    | No                                   | Alternate Path    | ı Task:  | Yes |
| Start Time:                          |                                 | Stop Time:                            | <u>-</u> _                                | Completion T                                      | ime:                                 |                   |          |     |
| JPM Overall Ra                       | ating:                          | Pass                                  | Fail                                      |                                                   |                                      |                   |          |     |
| NOTE: A JPM (<br>individu            | overall rating of al competence | of fail shall be g<br>y area unsat re | given if <u>anv</u> crit<br>quires a comn | ical step is gra                                  | ded as f                             | fail. Any grade o | of unsat | or  |

Comments:

Evaluator's Signature:\_\_\_\_\_

02-OPS-SJE-217-2-05 NRC JPM 2 1

2/14/2005

**Recommended Start Location:** 

Simulator

Simulator Set-up:

- 1. Reset to any hot IC
- 2. RPV pressure >300 psig
- 3. Malfunction RC04, TRUE, Event Trigger 049 [Relatives]
  - FALSE, Event Trigger 050
- 4. Reactor in MODE 3 with Main Turbine off-line, or RCIC-Turbine trip bypassed.

Directions to Operators:

Read Before Every JPM Performance:

For the performance of this JPM, I will function as the SSS, CSO, and Auxiliary Operators. Prior to providing direction to perform this task, I will provide you with the initial conditions and answer any questions. During task performance, I will identify the steps to be simulated, or discuss and provide cues as necessary.

With the exception of accessing panels, NO plant equipment will be physically manipulated. Repositioning of devices will be simulated by discussion and acknowledged by my cues.

Read Before Each Evaluated JPM Performance:

This evaluated JPM is a measure of your ability to perform this task independently. The Control Room Supervisor has determined that a verifier is not available and that additional / concurrent verification will not be provided; therefore, it should not be requested.

Read Before Each Training JPM Performance:

During this Training JPM, applicable methods of verification are expected to be used. Therefore, either another individual or I will act as the independent/peer verifier.

Notes to Instructor / Evaluator:

- 1. Critical steps are identified in grading areas as **Pass/Fail**. All steps are sequenced critical unless denoted by a "•".
- 2. During Evaluated JPM:
  - Self-verification shall be demonstrated.
- 3. During Training JPM:
  - Self-verification shall be demonstrated.
  - Additional verification shall be demonstrated.

#### References:

- 1. N2-OP-35, Section F.2.0
- 2. NUREG K/A 217000 A4.01 3.7/3.7

Tools and Equipment:

None

Task Standard:

RCIC Flow Controller in manual and with RCIC injecting to RPV at approximately 600 gpm.

O2-OPS-SJE-217-2-05

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Reactor pressure is (report digital pressure reading on P603)
 RPV level is lowering.

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Initiating Cues:

"(Operator's name), initiate RCIC, inject into the RPV and establish rated flow, per N2-OP-35, Section F.2.0."

| Performance Steps                                                                                                           | Standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Grade                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Provide repeat back of initiating cue.<br>Evaluator Acknowledge repeat back<br>providing correction if necessary.        | Proper communications used for back (GAP-OPS-O1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | repeat Sat/Unsat                                                                                                                                                      |
| RECORD START TIME                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                       |
| <ol> <li>Obtain a copy of the reference<br/>procedure and review/utilize the corre<br/>section of the procedure.</li> </ol> | N2-OP-35 obtained. Precautions<br>ct limitations reviewed and Section F<br>referenced.                                                                                                                                                                                                                                                                                                                                                                                                                                 | & Sat/Unsat<br><sup>-</sup> .2.0                                                                                                                                      |
| 3. Initiate RCIC.                                                                                                           | At P601, rotate RCIC manual initia pushbutton collar to armed position                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ation <b>Pass/Fail</b><br>on.                                                                                                                                         |
|                                                                                                                             | Depress RCIC manual initiation pushbutton.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Pass/Fail                                                                                                                                                             |
| 4. Verify RCIC System response.                                                                                             | <ul> <li>Verifies RCIC has started properly verifying the following:</li> <li>Gland Seal System Air Com STARTS.</li> <li>ICS*MOV116, Lube Oil Coo Water Supply, OPENS.</li> <li>ICS*MOV120, Turbine Stea Supply Valve, OPENS.</li> <li>ICS*MOV126, RCIC Pump discharge to the Reactor, O</li> <li>ICS*MOV143, RCIC Pump minimum flow to the Suppre Pool. OPENS and then CLC once discharge flow is great 220 gpm.</li> <li>ICS*AOV 156 and 157, RCI Injection Outboard and Inbo Isolation Valves, OPEN once</li> </ul> | y by<br>hpressor Sat/Unsat<br>hing Sat/Unsat<br>m Sat/Unsat<br>Sat/Unsat<br>Sat/Unsat<br>Sat/Unsat<br>Sat/Unsat<br>Sat/Unsat<br>Sat/Unsat<br>Sat/Unsat<br>C sard<br>e |
| O2-OPS-SJE-217-2-05 NRC                                                                                                     | System Pressure is greater<br>JPM 2 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | than 2/14/2005                                                                                                                                                        |

Reactor Pressure.

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|        | Performance Steps                                                                                                                                                                                                                                                                | Standard                                                                                                                                                                                                                   | Grade                  |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| $\sim$ | <ol> <li>Observe and respond to failure of the<br/>RCIC System flow controller in "AUTO".</li> </ol>                                                                                                                                                                             | <ul> <li>Recognizes as RCIC Flow is increasing that the flow to the Reactor Vessel is OSCILLATING.</li> <li>Places ICS*FC101, RCIC Flow Controller in "MANUAL" and ESTABLISHES approximately 600 gpm flow rate.</li> </ul> | Pass/Fail<br>Pass/Fail |
|        | <ul> <li>6. Reports to the SM;</li> <li>RCIC is injecting to the Reactor<br/>Vessel at 600 gpm in the MANUAL<br/>mode.</li> <li>The Flow Controller, 2ICS*FC101, IS<br/>NOT in the AUTOMATIC mode due<br/>to flow oscillations during startup of<br/>the RCIC System.</li> </ul> | CUE: As the SM, respond to the<br>Candidates report on the RCIC<br>System.<br>CUE: As the SM, respond to the<br>Candidates<br>report on the RCIC System.                                                                   | Sat/Unsat<br>Sat/Unsat |
|        | Current Reactor Vessel Level.                                                                                                                                                                                                                                                    | CUE: If asked, tell the Candidate that<br>RCIC flow is still required, and<br>to monitor the RCIC System for<br>any further signs of<br>malfunctions.                                                                      |                        |

Terminating Cue: The RCIC System is injecting in the manual mode at rated flow conditions.

RECORD STOP TIME

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- 1. Reactor pressure is (report digital pressure reading on P603)
  - 2. RPV level is lowering.

Initiating Cues:

"(Operator's name), initiate RCIC per N2-OP-35, Section F.2.0, inject into the RPV and establish rated flow."

### Candidate:

#### Constellation Energy Group OPERATOR JOB PERFORMANCE MEASURE

Title: Restart RHS in S/D Cooling Mode (Alternate) Task Number: 2050030101 Revision: NRC 2005

Date

Approvals:

NA EXAMINATION SECURITY General Supervisor General Supervisor **Operations** (Designee) Operations Training (Designee) NA EXAMINATION SECURITY Configuration Control Date Performer:\_\_\_\_\_(RO/SRO)

Trainer/Evaluator:\_\_\_\_\_

 Evaluation Method:
 X
 Perform
 \_\_\_\_\_\_Simulate

 Evaluation Location:
 Plant
 X
 \_\_\_\_\_Simulator

Expected Completion Time: 10 Mins. Time Critical Task: NO Alternate Path Task: YES

Start Time: \_\_\_\_\_ Stop Time: \_\_\_\_\_ Completion Time: \_\_\_\_\_

JPM Overall Rating: Pass Fail

**NOTE:** A JPM overall rating of fail shall be given if <u>any</u> critical step is graded as fail. Any grade of unsat or individual competency area unsat requires a comment.

Comments:

Evaluator's Signature:

Date:\_\_\_\_\_

**Recommended Start Location:** 

Unit 2 Simulator

Simulator Set-up:

- 1. Place Simulator in IC-24 Shut Down Cooling
- 2. Shutdown the 'B' RHS Loop per N2-OP-31, Section H.3.0
- 3. Set up the following I/O and Event Trigger: (P14/35), ET#51.
  - a. I/O 2RHS\*MOV40B control switch (Page 14/36) in 'Neutral' and trigger (ET-51) with the red open indication for 2RHS\*MOV40B.
     (P601-B22H-S44-A, RHR Shutdown Cooling Injection Isol VIv MOV 40B, NEUTRAL ET01)

Directions to Operators:

Read Before Every JPM Performance:

For the performance of this JPM, I will function as the SM, CSO, and Auxiliary Operators. Prior to providing direction to perform this task, I will provide you with the initial conditions and answer any questions. During task performance, I will identify the steps to be simulated, or discuss and provide cues as necessary.

Read Before Each Evaluated JPM Performance:

This evaluated JPM is a measure of your ability to perform this task independently. The Control Room Supervisor has determined that a verifier is not available and that additional / concurrent verification will not be provided; therefore, it should not be requested.

Read Before Each <u>Training</u> JPM Performance:

During this Training JPM, applicable methods of verification are expected to be used. Therefore, either another individual or I will act as the independent/peer verifier.

Notes to Instructor / Evaluator:

- 1. Critical steps are identified in grading areas as **Pass/Fail**. All steps are sequenced critical unless denoted by a "•".
- 2. During Evaluated JPM:
  - Self-verification shall be demonstrated.
- 3. During Training JPM:
  - Self-verification shall be demonstrated.
  - Additional verification shall be demonstrated.

#### References:

- 1. N2-OP-31, Section H.3.0 and H.4.0
- 2. N2-ARP-01, Attachment 6, ARP for window 601648
- 3. NUREG 1123, 205000 A4.01 3.7/3.7 Shutdown Cooling System (RHR Shutdown Cooling Mode)

Tools and Equipment:

None required

Task Standard:RHS\*P1B tripped within 40 seconds of start

- 1. Plant is in mode 4.
- 2. SDC Loop 'B; has been shut down per N2-OP-31, section H.3.0.
- 3. SDC Loop 'B' has been shut down for 15 minutes.
- 4. RDS Back fill is in service.
- 5. Instructor to ask operator for any questions.

Initiating Cues:

RO- "(Operator's name), Restart RHS Loop 'B' in Shut Down Cooling per N2-OP-31."

SRO- "(Operator's name), Restart RHS Loop 'B' in Shut Down Cooling."

| Performance Steps                                                                                                                                                                                                                                                                                                                                                                      | Sta              | andard                                                                            | Grade     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------|-----------|
| <ol> <li>Provide repeat back of initiating cue<br/>Evaluator Acknowledge repeat back<br/>providing correction if necessary.</li> </ol>                                                                                                                                                                                                                                                 | 9. <b>.</b><br>K | Proper communications used for repeat<br>back (GAP-OPS-01/Operations<br>Manual).  | Sat/Unsat |
| RECORD START TIME                                                                                                                                                                                                                                                                                                                                                                      |                  |                                                                                   |           |
| <ol> <li>Obtain a copy of the reference<br/>procedure and review/utilize the<br/>correct section of the procedure.</li> </ol>                                                                                                                                                                                                                                                          |                  | N2-OP-31 obtained. Precautions & limitations reviewed & section H.4.0 referenced. | Sat/Unsat |
| <ol> <li>IF RDS Backfill Injection is out of<br/>service to one OR more RPV Level<br/>reference Legs in Mode 3, THEN<br/>perform the following:</li> <li>a. Enter N2-OP-101C, Attachment 1.</li> <li>b. Perform concurrently with this<br/>Subsection to monitor for possible<br/>RPV level instrumentation notching.</li> <li>c. IF observed, take the proper<br/>actions.</li> </ol> |                  | Determines that RDS backfill is in service and no action is required,             | Sat/Unsat |
| <ol> <li>CAUTION: The RHR pump is without<br/>minimum flow protection, Minimum<br/>flow of &gt; 1000 gpm must be<br/>established within 40 seconds of<br/>pump start. Use of a stopwatch is<br/>recommended to ensure the pump it<br/>tripped within the required time if<br/>minimum flow is not achieved. Do n<br/>allow pump to run for &gt; 15 seconds<br/>deadheaded.</li> </ol>  | ut ם<br>is<br>ot | Obtains stopwatch.                                                                | Sat/Unsat |
| 5. Start 2RHS*P1B at Panel 601.                                                                                                                                                                                                                                                                                                                                                        |                  | Rotates RHS*P1B control switch to start and releases to Normal-After-Start.       | Pass/Fail |
| NRC JPM                                                                                                                                                                                                                                                                                                                                                                                | 3                | - 3 - 2/14/2005                                                                   |           |

| Performance Steps |                                                                                                                                  | Sta       | andard                                                                                                                           | Grade     |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------|-----------|
|                   |                                                                                                                                  |           | Starts the stopwatch                                                                                                             | Sat/Unsat |
|                   |                                                                                                                                  |           | Observes control switch red flagged.                                                                                             | Sat/Unsat |
|                   |                                                                                                                                  |           | Observes RHS*P1B red light – ON                                                                                                  | Sat/Unsat |
|                   |                                                                                                                                  |           | Observes RHS*P1B green light – OFF                                                                                               | Sat/Unsat |
| 6.                | Throttle open RHS*MOV40B, SDC B<br>RETURN THROTTLE to > 1000                                                                     |           | Places RHS*MOV40B control switch to<br>OPEN (requires key).                                                                      | Pass/Fail |
|                   | gpm.                                                                                                                             |           | Observes RHS*MOV40B red light – ON                                                                                               | Sat/Unsat |
|                   |                                                                                                                                  |           | Observes RHS*MOV40B green light –<br>ON                                                                                          | Sat/Unsat |
| 7.                | IF RHS*MOV40B does not begin to<br>open in 15 seconds OR system flow                                                             |           | Observes no rising flow indication on<br>meter E12-R603B                                                                         | Sat/Unsat |
|                   | is NOT > 1000 gpm 40 seconds after<br>pump start. Place RHS*P1B control<br>switch to STOP, THEN release to<br>Normal-After-Stop. |           | Prior to 40 seconds after RHS*P1B is<br>started, places RHS*P1B control switch<br>to STOP and releases to Normal-After-<br>Stop. | Pass/Fail |
| 8.                | Report to CRS inability to obtain required minimum flow on RHS*P1B and that the pump has been tripped.                           |           | Report made to CRS of inability to obtain satisfactory min-flow and that RHS*P1B has been tripped.                               | Sat/Unsat |
|                   |                                                                                                                                  | Cı<br>rej | ie: As the CRS, Acknowledge the port.                                                                                            |           |

Terminating Cue: RHS\*P1B tripped within 40 seconds of start.

RECORD STOP TIME

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- 1. Plant is in mode 4.
- 2. SDC Loop 'B; has been shut down per N2-OP-31, section H.3.0.
- 3. SDC Loop 'B' has been shut down for 15 minutes.
- 4. RDS Back fill is in service.
- 5. Instructor to ask operator for any questions.

Initiating Cues:

RO- "(Operator's name), Restart RHS Loop 'B' in Shut Down Cooling per N2-OP-31."

- 1. Plant is in mode 4.
- 2. SDC Loop 'B; has been shut down per N2-OP-31, section H.3.0.
- 3. SDC Loop 'B' has been shut down for 15 minutes.
- 4. RDS Back fill is in service.
- 5. Instructor to ask operator for any questions.

Initiating Cues:

SRO- "(Operator's name), Restart RHS Loop 'B' in Shut Down Cooling."

#### Constellation Energy Group OPERATOR JOB PERFORMANCE MEASURE

Title: Initiate Containment Venting Through Standby Gas Treatment (GTS) Revision: NRC 2005

Task Number: 2000070501

Approvals:

General Supervisor

Operations Training (Designee)

NA EXAMINATION SECURITY

General Supervisor Operations (Designee) Date

| NA EXAMINATION SECURITY<br>Configuration Control Date                               |
|-------------------------------------------------------------------------------------|
| Performer:(RO/SRO)                                                                  |
| Trainer/Evaluator:                                                                  |
| Evaluation Method: X Perform Simulate                                               |
| Evaluation Location:PlantX_Simulator                                                |
| Expected Completion Time: 15 minutes Time Critical Task: NO Alternate Path Task: NO |
| Start Time: Stop Time: Completion Time:                                             |
| JPM Overall Rating: Pass Fail                                                       |

NOTE: A JPM overall rating of fail shall be given if <u>any</u> critical step is graded as fail. Any grade of unsat or individual competency area unsat requires a comment.

Comments:

Evaluator Signature:\_\_\_\_\_

Date:\_\_\_\_\_

Recommended Start Location:

Simulator

Simulator Set-up:

This JPM can be run from any IC. No setup is required.

Directions to Operators:

Read Before Every JPM Performance:

For the performance of this JPM, I will function as the SM, CSO, and Auxiliary Operators. Prior to providing direction to perform this task, I will provide you with the initial conditions and answer any questions. During task performance, I will identify the steps to be simulated, or discuss and provide cues as necessary.

Read Before Each Evaluated JPM Performance:

This evaluated JPM is a measure of your ability to perform this task independently. The Control Room Supervisor has determined that a verifier is not available and that additional / concurrent verification will not be provided; therefore it should not be requested.

Read Before Each Training JPM Performance:

During this Training JPM, applicable methods of verification are expected to be used. Therefore, either another individual or I will act as the additional / concurrent verifier.

Notes to Instructor / Evaluator:

- 1. Critical steps are identified as **Pass/Fail**. All steps are sequenced critical unless denoted by a "•".
- 2. During Evaluated JPM:
  - Self-verification shall be demonstrated.
- 3. During Training JPM:
  - Self-verification shall be demonstrated.
  - No other verification shall be demonstrated.

References:

- 1. N2-OP-61A, "Primary Containment Ventilation Purge & Nitrogen System", Section H.1.0
- 2. NUREG K/A: 295024, EA1.20 3.5 / 3.6

Tools and Equipment:

None required

Task Standard:

SBGTS Train "A" running, aligned to the Drywell in accordance with applicable procedures.

- 1. EOPs have been entered due to high suppression pool temperature.
- 2. Conditions require standby gas be placed on the drywell to reduce pressure.
- 3. Drywell and Suppression Chamber vent samples have been obtained and are satisfactory.
- 4. There is no Nitrogen makeup to the Primary Containment in progress.
- 5. Instructor to ask operator for any questions.

Initiating Cues:

**RO-** "(Operator's name), place Standby Gas Train "A" on the Drywell per N2-OP-61A, Section H.1.0." **SRO-** "(Operator's name), place Standby Gas Train "A" on the Drywell."

| Perfor | mance Steps                                                                                                                                                                                                                | Sta | andard                                                                                              | Grade                  |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------|------------------------|
| 1.     | Provide repeat back of initiating cue.<br>Evaluator Acknowledge repeat back<br>providing correction if necessary.                                                                                                          |     | Proper communications used for repeat back (GAP-OPS-O1)                                             | Sat/Unsat              |
| RECO   | RD START TIME                                                                                                                                                                                                              |     |                                                                                                     |                        |
| 2.     | Obtain a copy of the reference<br>procedure and review/utilize the correct<br>section of the procedure.                                                                                                                    |     | N2-OP-61A obtained. Precautions & Limitations reviewed & section H.1.0 referenced.                  | Sat/Unsat              |
| 3.     | IF required, as determined by<br>Chemistry Supervision, notify Chemistry<br>to sample the containment for the pre-<br>vent acceptance criteria of ODCM<br>Table D3.2.1-1 per Precaution and<br>Limitation D.13.0 guidance: |     | Determines that Chemistry samples<br>have been obtained and analysis is<br>completed                |                        |
| 4.     | IF time permits, concurrently with the following steps, fill out Attachment 3 for the valves operated (ODCM DSR 3.2.6.1). The listed position shall be the position of the valve following completion of the step.         |     | Cue operator that time does not permit the filling out of attachment 3.                             |                        |
| 5.     | IF desired to reduce Drywell or<br>Suppression Chamber pressure, open                                                                                                                                                      |     |                                                                                                     |                        |
| 3      | the following:<br>IAS*SOV168 at 2CEC*PNL851.                                                                                                                                                                               |     | Places IAS*SOV168 control switch                                                                    | Pass/Fail              |
|        |                                                                                                                                                                                                                            |     | Observes IAS*SOV168 red light – ON<br>Observes IAS*SOV168 green light -<br>OFF                      | Sat/Unsat<br>Sat/Unsat |
| 0      | IAS*SOV180 at 2CEC*PNI 851                                                                                                                                                                                                 | П   | Places IAS*SOV180 control switch                                                                    | Pass/Fail              |
| _      |                                                                                                                                                                                                                            |     | clockwise to OPEN<br>Observes IAS*SOV180 red light – ON<br>Observes IAS*SOV180 green light –<br>OFF | Sat/Unsat<br>Sat/Unsat |

| Perfor     | mance Steps                             | St | andard                                  | Grade      |
|------------|-----------------------------------------|----|-----------------------------------------|------------|
| 6.         | Start at least one of the GTS trains by |    | rotates the "Train A Initiation" switch | Pass/Fail  |
|            | placing TRAIN A (B) INITIATION          | ~  | clockwise to the start position         | Sot/Line-t |
|            | 2CEC*PNL870 (871) AND verify the        | L  | Observes fram A milation red light –    | Sat/Unsat  |
|            | following:                              |    | Observes Train A Initiation green light | Javondat   |
|            |                                         |    | - OFF                                   | Sat/Unsat  |
| C          | GTS*MOV1A (B), INLET FROM RX            |    | Observes GTS*MOV1A red light – ON       | Sat/Unsat  |
|            | BLDG VENTILATION - Opens.               | ш  | OFF                                     | Sat/Unsat  |
|            | GTS*AOV2A (B), TRAIN A (B) INLET        |    | Observes GTS*MOV2A red light – ON       | Sat/Unsat  |
|            | VLV - Opens.                            |    | Observes GTS*MOV2A green light -        |            |
|            |                                         | _  | OFF                                     | Sat/Unsat  |
|            | ISOL VLV - Opens                        |    | Observes GTS*MOV3A red light – ON       | Sat/Unsat  |
|            |                                         | -  | OFF                                     | Sat/Unsat  |
|            | GTS*FN1A (B), SBGTS FAN - Starts.       |    | Observes GTS*FN1A red light – ON        | Sat/Unsat  |
|            |                                         |    | Observes GTS*FN1A green light –         |            |
|            |                                         |    | Vrr                                     |            |
| 7.         | Verify that Chemistry is standing by to |    | Requests Chemistry Technician           | Sat/Unsat  |
| • •        | start the sampling required during the  |    | commence sampling                       |            |
|            | vent (ODCM Table D3.2.1-1).             | •  |                                         |            |
|            |                                         | Сι | le: If requested, inform Operator that  |            |
|            |                                         |    | during the vent.                        |            |
|            |                                         |    |                                         |            |
| 8.         | IF GTS operation is affecting Reactor   |    | Verify Reactor Building pressure <6"    | Sat/Unsat  |
|            | Building differential pressure, adjust  |    | WG on GTS*PDIK5A.                       |            |
|            | CONTROLLED SAPPLIK5A (B),               |    | If necessary, throttle pressure valve   | Pass/Fall  |
|            | PRESS, to throttle 2GTS*PV5A (B), RX    |    | maintain <6"WG Reactor Building         |            |
|            | BLDG PRESSURE CONTROL as                |    | pressure.                               |            |
|            | necessary.                              |    |                                         |            |
| ۵          | At CEC*PNI 873, verify the following    |    |                                         |            |
| 5.         | valves closed:                          |    |                                         |            |
|            | CPS*AOV104                              |    | Observe CPS*AOV104 green light –        | Sat/Unsat  |
|            |                                         | ~  | ON<br>Observe CRS*AOV(104 red light     | Sat/Unsat  |
| <b>п(</b>  | CPS*AOV105                              | L  | OFF                                     | Sat/Unsat  |
|            |                                         |    |                                         | Sarenout   |
|            |                                         |    | Observe CPS*AOV105 green light -        | Sat/Unsat  |
| <u>ے</u> ( | CPS*AOV110                              | _  | ON<br>Observe CRS*AOV/105 red light     | Sat/Unsat  |
|            |                                         | U  | OFF                                     | Sat/Unsat  |
| ) <i>د</i> | CPS*AOV111                              |    |                                         | Sat/Unsat  |
|            |                                         |    | Observe CPS*AOV110 green light –        | Sat/Unsat  |
|            | 275*50\/102                             | -  | UN<br>Observe CRS*AOV/110 red light     | Sat/Unsat  |
|            | 510 500 102                             |    | OFF                                     | SavUnsal   |
|            |                                         |    |                                         |            |
| <b>□</b> ( | GTS*AOV101                              |    | Observe CPS*AOV111 green light –        |            |
|            |                                         | _  | ON<br>Observe CDS*AOV(111 red light     |            |
| 02 000     |                                         |    | Observe CPS^AOV111 red light -          |            |
| 02-085     | -3JE-201-2-02 INRU JPM 4 2              | t  | 03/13/03                                |            |

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| Performance Steps                                         | Sta | andard                                                                                        | Grade                  |
|-----------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------|------------------------|
|                                                           |     | OFF                                                                                           |                        |
|                                                           |     | Observe CPS*AOV102 green light –<br>ON<br>Observe CPS*AOV102 red light –<br>OFF               |                        |
|                                                           |     | Observe CPS*AOV101 green light –<br>ON<br>Observe CPS*AOV101 red light –<br>OFF               |                        |
| 10. At CEC*PNL875, verify the following<br>valves closed: |     |                                                                                               |                        |
| □CPS*AOV106                                               |     | Observe CPS*AOV106 green light –<br>ON                                                        | Sat/Unsat<br>Sat/Unsat |
| □CPS*SOV132/AOV107                                        | Q   | Observe CPS*AOV106 red light –<br>OFF                                                         | Sat/Unsat              |
|                                                           |     | Observe CPS*SOV132/AOV107<br>areen light – ON                                                 | Sat/Unsat              |
| □CPS*AOV108                                               |     | Observe CPS*SOV132/AOV107 red<br>light – OFF                                                  | Sat/Unsat<br>Sat/Unsat |
| □CPS*SOV133/AOV109                                        |     | Observe CPS*AOV108 green light –<br>ON                                                        | Sat/Unsat              |
|                                                           |     | Observe CPS*AOV108 red light –<br>OFF                                                         | Sat/Unsat              |
|                                                           |     | Observe CPS*SOV133/AOV109<br>green light – ON<br>Observe CPS*SOV133/AOV109 red<br>light – OFF |                        |
| 11. Notify Chemistry to start ODCM required sampling.     | Cu  | ie: If requested, inform Operator that<br>Chemistry has started sampling<br>during the vent.  |                        |
| 12. At CEC*PNL873, open 2GTS*SOV102.                      |     | Rotates 2GTS*SOV102 control switch<br>clockwise to – OPEN                                     | Pass/Fail              |
|                                                           |     | Observe 2GTS*SOV102 red light –<br>ON                                                         | Sat/Unsat<br>Sat/Unsat |
|                                                           |     | Observe 2GTS*SOV102 green light –<br>OFF                                                      |                        |
| 13. At CEC*PNL873/875, open the following:                |     | Rotate CPS*AOV108 control switch                                                              | Pacc/Fail              |
| □CPS*AOV108                                               |     | clockwise to OPEN<br>Observe CPS*AOV108 red light – ON                                        | Sat/Lineat             |
|                                                           |     | Observe CPS*AOV108 green light –<br>OFF                                                       | Sat/Unsat              |
| □CPS*AOV110                                               |     | Rotate CPS*AOV110 control switch                                                              | Pass/Fail              |
| 02-OPS-SJE-261-2-02 NRC JPM 4 5                           | 5   | 03/15/05                                                                                      |                        |

| Performance Steps | Standard                                                                                                | Grade                  |  |
|-------------------|---------------------------------------------------------------------------------------------------------|------------------------|--|
|                   | <ul> <li>Observe CPS*AOV110 red light – ON</li> <li>Observe CPS*AOV110 green light –<br/>OFF</li> </ul> | Sat/Unsat<br>Sat/Unsat |  |

14. Reports that GTS Train A is running on *Cue: Acknowledge the report* the Drywell.

TERMINATING CUE: SBGTS Train "A" running on the Drywell.

RECORD STOP TIME\_\_\_\_\_

- 1. EOPs have been entered due to high suppression pool temperature.
- 2. Conditions require standby gas be placed on the drywell to reduce pressure.
- 3. Drywell and Suppression Chamber vent samples have been obtained and are satisfactory.
- 4. There is no Nitrogen makeup to the Primary Containment in progress.
- 5. Instructor to ask operator for any questions.

Initiating Cues:

**RO-** "(Operator's name), place Standby Gas Train "A" on the Drywell per N2-OP-61A, Section H.1.0."

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- 1. EOPs have been entered due to high suppression pool temperature.
- 2. Conditions require standby gas be placed on the drywell to reduce pressure.
- 3. Drywell and Suppression Chamber vent samples have been obtained and are satisfactory.
- 4. There is no Nitrogen makeup to the Primary Containment in progress.
- 5. Instructor to ask operator for any questions.

Initiating Cues:

SRO- "(Operator's name), place Standby Gas Train "A" on the Drywell."

Constellation Energy Group OPERATOR JOB PERFORMANCE MEASURE

Title: Energize Reserve Station Transformer 1B and NPS-SWG003. Revision: NRC 2005 Task Number: 2000350501

Approvals:

General Supervisor

Operations Training (Designee)

NA EXAMINATION SECURITY General Supervisor Date Operations (Designee)

| NA EXAMINATION SEC    | URITY |
|-----------------------|-------|
| Configuration Control | Date  |

Performer:\_\_\_\_\_(RO/SRO)

Trainer/Evaluator:\_\_\_\_\_

Evaluation Method: <u>X</u>\_\_\_Perform

Evaluation Location: \_\_\_\_\_Plant

Expected Completion Time: 20 minutes
Path Task: NO

\_\_\_\_Simulate

<u>X</u>Simulator

Time Critical Task: NO

Alternate

Start Time: \_\_\_\_\_ Stop Time: \_\_\_\_\_ Completion Time: \_\_\_\_\_

JPM Overall Rating: Pass Fail

NOTE: A JPM overall rating of fail shall be given if <u>any</u> critical step is graded as fail. Any grade of unsat or individual competency area unsat requires a comment.

Comments:

Evaluator Signature:\_\_\_\_\_

Date:\_\_\_\_\_

Recommended Start Location:

Simulator

Simulator Set-up:

Reset to IC 46

Directions to Operators:

Read Before Every JPM Performance:

For the performance of this JPM, I will function as the SM, CSO, and Auxiliary Operators. Prior to providing direction to perform this task, I will provide you with the initial conditions and answer any questions. During task performance, I will identify the steps to be simulated, or discuss and provide cues as necessary.

Read Before Each Evaluated JPM Performance:

This evaluated JPM is a measure of your ability to perform this task independently. The Control Room Supervisor has determined that a verifier is not available and that additional / concurrent verification will not be provided; therefore it should not be requested.

Read Before Each Training JPM Performance:

During this Training JPM, applicable methods of verification are expected to be used. Therefore, either another individual or I will act as the additional / concurrent verifier.

Notes to Instructor / Evaluator:

1. Critical steps are identified as **Pass/Fail**. All steps are sequenced critical unless denoted by a "•".

- During Evaluated JPM:
  - Self-verification shall be demonstrated.
- 3. During Training JPM:
  - Self-verification shall be demonstrated.
  - No other verification shall be demonstrated.

References:

2.

1. N2-SOP-03

Tools and Equipment:

1. None

Task Standard:

Reserve Transformer 1B energized from Line 6 and NPS-SWG003 and NNS-SWG013 energized from Reserve Transformer 1B.

- 1. The plant experienced a Loss of Line 6.
- 2. The plant was manually scrammed.
- 3. Immediate and Subsequent Actions of N2-SOP-3 are complete.
- 4. Fault Identification and Isolation per Attachment 1 Section 1.4 are complete.
- 5. Power has been restored to Line 6 and Power Control has verified its reliability.
- 6. Ask the operator for any questions.

Initiating cue:

**RO-** "(Operator's name), Energize Reserve Station Transformer 1B from Line 6, then restore power to

2NPS-SWG003 and NNS-SWG013 per N2-SOP-3 Attachment 1 Section 1.5 Power Restoration."

**SRO-** "(Operator's name), Energize Reserve Station Transformer 1B from Line 6, then restore power to

2NPS-SWG003 and NNS-SWG013 per N2-SOP-3."

| Pe | erformance Steps                                                                                                                 | St       | andard                                                                                                      | Grade     |
|----|----------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------|-----------|
| 1. | Provide repeat back of initiating cue.<br>Evaluator Acknowledge repeat back<br>providing correction if necessary                 |          | Proper communications used for repeat back (GAP-OPS-O1)                                                     | Sat/Unsat |
| RE | ECORD START TIME                                                                                                                 |          |                                                                                                             |           |
| 2. | Obtain a copy of the reference procedure and review/utilize the correct section.                                                 |          | N2-SOP-3 obtained. Precautions &<br>Limitations are reviewed and<br>Attachment 1 Section 1.5<br>referenced. | Sat/Unsat |
| 3. | Review Attachment 1 Section 1.5 Power<br>Restoration to determine applicable<br>Attachment to Energize Reserve<br>Transformer 1B |          | Per step 1.5.2, determines<br>performance of Attachment 6 is<br>required.                                   | Sat/Unsat |
| 4. | At Panel 808 (CB 288'), verify reset 86-<br>2SPRY01 (RES STA SER XFMR 1B PRIM<br>PROT LO RELAY).                                 |          | Verifies 86 device is reset                                                                                 | Sat/Unsat |
|    |                                                                                                                                  | Cı<br>th | ue: If asked, inform the candidate<br>at 86-SPRY01 is reset.                                                |           |
| 5. | At Panel 809 (CB 288'), verify reset 86-                                                                                         |          | Verifies 86 device is reset                                                                                 | Sat/Unsat |
|    | PROT LOCKOUT RELAY).                                                                                                             | Cu<br>th | ie: If asked, inform the candidate<br>at 86-SPRZ08 is reset.                                                |           |
| 6. | Determine step 6.2 is N/A                                                                                                        |          | Marks N/A block for step 6.2                                                                                | Sat/Unsat |
| 7. | Determine section 6.3 is applicable                                                                                              |          | Carries out the actions of section 6.3                                                                      | Sat/Unsat |
|    | NRC JPM 5                                                                                                                        | 3        | 03/15/05                                                                                                    |           |

| Performance Steps                                                         | Standard                                                                                                                                                                                                                                                         | Grade                                      |
|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| 8. Close MDS2 - (115 KV MOD SWITCH 63)<br>LINE 6.                         | <ul> <li>Places MDS2 control switch to<br/>CLOSE</li> <li>Observes MDS2 red light – ON</li> <li>Observes MDS2 green light – OFF</li> </ul>                                                                                                                       | <b>Pass/Fail</b><br>Sat/Unsat<br>Sat/Unsat |
| 9. Close MDS4 - (115 KV CIRCUIT<br>SWITCHER CKT SWITCH 38).               | <ul> <li>Places MDS4 control switch from<br/>PULL-TO-LOCK to NORMAL-<br/>AFTER-OPEN</li> <li>Places MDS4 control switch to<br/>CLOSE</li> </ul>                                                                                                                  | Pass/Fail<br>Pass/Fail<br>Sat/Unsat        |
|                                                                           | <ul> <li>Observes MDS4 red light – ON</li> <li>Observes MDS4 green light – OFF</li> <li>The following annunciators clear with no required action:</li> <li>852421 "MOT Operator CKT 2YUC-MDS4"</li> <li>852435 "RES STA SER XFMER 1B Loss of Voltage"</li> </ul> | Sat/Unsat                                  |
| 10. IF required, place in Normal-After-Trip 2NPS-SWG003-1.                | <ul> <li>Places 3-1 control switch from<br/>PULL-TO-LOCK to NORMAL-<br/>AFTER-TRIP.</li> </ul>                                                                                                                                                                   | Pass/Fail                                  |
|                                                                           | Observes 3-1 green light – ON                                                                                                                                                                                                                                    | Sat/Unsat                                  |
| 11. Return to Attachment 1 Section 1.5.                                   | <ul> <li>Per step 1.5.8, determines<br/>performance of Attachment 7 is<br/>required.</li> </ul>                                                                                                                                                                  | Sat/Unsat                                  |
| 12. Step 7.1 Prerequisites                                                | Cue: If asked, 7.1.4 lockouts have<br>been verified reset. Step 7.1,<br>Prerequisites, are completed                                                                                                                                                             |                                            |
| 12. Determines section 7.2 is applicable                                  | <ul> <li>Carries out the actions of section</li> <li>7.2</li> </ul>                                                                                                                                                                                              | Sat/Unsat                                  |
| 13. Place 3-14 in Pull-to-Lock.                                           | Places 3-14 control switch in<br>PULL-TO-LOCK                                                                                                                                                                                                                    | Pass/Fail                                  |
|                                                                           | <ul> <li>Observes 3-14 green/red lights –</li> <li>OFF</li> </ul>                                                                                                                                                                                                | Sat/Unsat                                  |
|                                                                           | <ul> <li>The following annunciator clears with no required action:</li> <li>852560 "13.8KV Bus NPS003 ACB 3-1/14/16 Auto Trip/FTC</li> </ul>                                                                                                                     |                                            |
| 14. Place the SYNC switch to ON<br>(SYNCHRONIZE RES STA SVCE XFMR<br>1B). | Rotates the SYNC switch to ON                                                                                                                                                                                                                                    | Pass/Fail                                  |
| 15. Close 3-1.                                                            | Rotates 3-1 control switch to                                                                                                                                                                                                                                    | Pass/Fail                                  |
| NRC JPM 5                                                                 | 4 03/15/05                                                                                                                                                                                                                                                       |                                            |

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erformance Steps Standard		Grade
	CLOSE Observes 3-1 red light – ON Observes 3-1 green light – OFF Numerous annuciators clear. Numerous annunciators alarm. Numerous annunciators reflash. None of these requires action.	Sat/Unsat Sat/Unsat
16. Place the SYNC switch to OFF.	Rotates the SYNC switch to OFF	Pass/Fail
17. Close 13-6.	 Rotates 13-6 control switch from PULL-TO-LOCK to NORMAL- AFTER-TRIP. Observes 13-6 green light – ON Rotates 13-6 control switch to CLOSE Observes 13-6 red light – ON Observes 13-6 green light – OFF The following annunciator clears with no required action: 852527 "4KV Bus NNS 013 Undervoltage" 	Pass/Fail Sat/Unsat Pass/Fail Sat/Unsat Sat/Unsat
18. Return to Attachment 1 Section 1.5.		

19. Reports that Reserve Station Transformer 1B is energized from Line 6, and 2NPS-SWG003 & NNS-SWG013 are energized from Reserve Station Transformer 1B Cue: Acknowledge report.

TERMINATING CUE: Reserve Station Transformer 1B Powered from Line 6, and NPS-SWG003 & NPS-SWG013 are energized from Reserve Station Transformer 1B.

RECORD STOP TIME_____

- 1. The plant experienced a Loss of Line 6.
- 2. The plant was manually scrammed.
- 3. Immediate and Subsequent Actions of N2-SOP-3 are complete.
- 4. Fault Identification and Isolation per Attachment 1 Section 1.4 are complete.
- 5. Power has been restored to Line 6 and Power Control has verified its reliability.
- 6. Ask the operator for any questions.

Initiating cue:

RO- "(Operator's name), Energize Reserve Station Transformer 1B from Line 6, then restore power to 2NPS-SWG003 and NNS-SWG013 per N2-SOP-3 Attachment 1 Section 1.5 Power Restoration."

- 1. The plant experienced a Loss of Line 6.
- 2. The plant was manually scrammed.
- 3. Immediate and Subsequent Actions of N2-SOP-3 are complete.
- 4. Fault Identification and Isolation per Attachment 1 Section 1.4 are complete.
- 5. Power has been restored to Line 6 and Power Control has verified its reliability.
- 6. Ask the operator for any questions.

Initiating cue:

SRO- "(Operator's name), Energize Reserve Station Transformer 1B from Line 6, then restore power to 2NPS-SWG003 and NNS-SWG013 per N2-SOP-3."

Constellation Energy Group OPERATOR JOB PERFORMANCE MEASURE

Title: PERFORM TURBINE CONTROL VALVE (CV1) CYCLING SURVEILLANCE Task Number: 2129050201 Revision: NRC 2005

Approvals:

Date Visor Gè feral Supe

Operations Training (Designee)

NA EXAMINATION SECURITY

General Supervisor Operations (Designee) Date

NA EXAMINATION SECU	RITY		_	
Configuration Control	Date			
Performer:	(RO/S	RO)		
Trainer/Evaluator:	<u> </u>			
Evaluation Method: X	Perform	<u> </u>	_Simul	ate
Evaluation Location:F	Plant	X_Simula	ator	
Expected Completion Time:	15 minutes Tir	ne Critical Task	: NO	Alternate Path Task: YES
Start Time:	Stop Time:		Compl	etion Time:
JPM Overall Rating:	Pass	Fail		
	I rating of fail st	all he given if a	ny critic	cal step is graded as fail. Ar

NOTE: A JPM overall rating of fail shall be given if <u>any</u> critical step is graded as fail. Any grade of unsat or individual competency area unsat requires a comment.

Comments:

Evaluator Signature:_____

Date:

Recommended Start Location:

Simulator

Simulator Set-up:

- 1. Reset to a full power IC (such as IC-20).
- 2. Malfunction RP02, TRUE, QUEUED

Directions to Evaluator:

- 1. Reduce recirc flow to reduce power to 85 % by APRM's
- 2. Set the MAX COMBINED FLOW LIMITER to 7.50.
- 3. This JPM will require an instructor to role-play as a second RO. The second RO will hold the test pushbutton, allowing the candidate to verify indications.

Directions to Operators:

Read Before Every JPM Performance:

For the performance of this JPM, I will function as the SM, CSO, and Auxiliary Operators. Prior to providing direction to perform this task, I will provide you with the initial conditions and answer any questions. During task performance, I will identify the steps to be simulated, or discuss and provide cues as necessary.

Read Before Each Evaluated JPM Performance:

This evaluated JPM is a measure of your ability to perform this task independently. The Control Room Supervisor has determined that a verifier is not available and that additional / concurrent verification will not be provided; therefore it should not be requested.

Read Before Each Training JPM Performance:

During this Training JPM, applicable methods of verification are expected to be used. Therefore, either another individual or I will act as the additional / concurrent verifier.

Notes to Instructor / Evaluator:

- 1. Critical steps are identified as **Pass/Fail**. All steps are sequenced critical unless denoted by a "•".
- 2. During Evaluated JPM:
 - Self-verification shall be demonstrated.
- 3. During Training JPM:
 - Self-verification shall be demonstrated.
 - No other verification shall be demonstrated.

References:

- 1. N2-OSP-RPS-Q001
- 2. NUREG K/A 212000 A2.03 3.5/3.5

Tools and Equipment:

1. None

Task Standard:

Cycle CV1 results in a RPS failure, then insert a manual trip of RPS A2 logic.

NRC JPM 6 2 03/15/05
- The plant is at 85% power.
 No equipment is out of service.
- - 4. Ask the operator for any questions.

Initiating cue:

"(Operator's name), Perform Turbine Control Valve Cycling per N2-OSP-RPS-Q001."

Pe	rformance Steps	St	andard	Grade
1.	Provide repeat back of initiating cue. Evaluator Acknowledge repeat back providing correction if necessary		Proper communications used for repeat back (GAP-OPS-O1)	Sat/Unsat
RE	CORD START TIME			
2.	Provide candidate with a marked-up working copy of Surveillance Test N2-OSP-RPS-Q001.		N2-OSP-RPS-Q001 section 8.0 is referenced	Sat/Unsat
3.	NOTE : Perform Step 8.1.1 only if Reactor and Turbine power are less than 30%.		Determines that step 8.1.1 is N/A - Rx and Turbine power is greater than 30%.	Sat/Unsat
4.	NOTES : Closing 2MSS-CV1 may cause bypass valve(s) to open to maintain pressure.		Informs CRS and/or CSO of expected annunciators	Sat/Unsat
	 Closing 2MSS-CV1 will cause the following annunciators to alarm: 603104 RPS A TURB CONT VLV FAST CLOSE TRIP 603110 RPS A AUTO TRIP 	Cı th	<i>le: As the CRS/CSO acknowledge e annunciator report.</i>	
5.	Verify no trip signals exist in RPS B Trip System.		Observes no red annunciators lit on panel 603	Sat/Unsat
6.	Notify CSO of trip to be received in RPS A Trip System.		Notifies the CSO of expected half scram initiation in RPS A Trip System.	Sat/Unsat
		Cı	e:Acknowledge that a half scram will be received.	
7.	Depress and HOLD, CV-1 TEST pushbutton, (hold depressed until directed to release), when position indicator indicates value is fully closed		Depresses the CV-1 TEST pushbutton on panel 2CEC*PNL842	Pass/Fail
	(0% indicated), verify following alarms and indications:	Сı TE ca	ie: Instructor role play to hold the EST pushbutton allowing the ndidate to verify indications.	

Performance Steps	Standard	Grade
 Annunciator 603104 RPS A TURB CONT VLV FAST CLOSE TRIP alarmed. 	 Observes 603104 annunciator window is lit. 	Sat/Unsat
 Annunciator 603110 RPS A AUTO TRIP alarmed. 	 Observes 603110 annunciator window is <u>extinguished.</u> 	Sat/Unsat
PILOT SCRAM VALVE SOLENOIDS A,C,E,G indicating lights on 2CEC*PNL603 are OFF.	 Observes Pilot SCRAM valve solenoids white lights A, C, E & G – <u>ON</u> 	Sat/Unsat
 REACTOR SCRAM TRIP LOGIC A2 indicating light on 2CEC*PNL609 is OFF. 	<i>Cue: If asked, state that the Reactor SCRAM Trip Logic A2 white light Located on P609 is ON</i>	Sat/Unsat
 RECIRC PUMP TRIP SYSTEM B indicating light C72A-DS13 on 2CEC*PNL609 is OFF, C72A-DS15 on 2CEC*PNL611 becomes brighter. 	<i>Cue: If asked, state that the Recirc Pump Trip System B light C72A-DS13 on P609 is OFF and C72A-DS15 on P611 is BRIGHTER.</i>	Sat/Unsat
 Process points MSSUC10 and RPSUC03 are generated. 	 Observes computer alarms MSSUC10 and RPSUC03 on the process computer 	Sat/Unsat
9. Reports to the SM that RPS A did not trip and/or RPS A, C, E & G white lights are still ON.	<i>Cue: As the SM, acknowledge the report of the failure of RPS A to trip.</i>	Sat/Unsat
	Cue: If asked, inform the candidate to take the appropriate action.	
10. Obtains a copy of N2-SOP-97 flow chart.	References N2-SOP-97 flow chart	Sat/Unsat
11. Stop any half scram <u>OR</u> isolation testing	Notifies the SM to stop half scram or isolation testing.	Sat/Unsat
	NOTE: The candidate may also notify the CRS, or just make the decision that the	
	surveillance test has already been stopped and not inform anyone.	
	Cue: As the SM, acknowledge the request.	
12. What was the cause?	 Determines the cause of the RPS failure is a FAILURE TO TRIP 	Sat/Unsat
24. Arm and Depress manual scram switches for the affected channel	Rotate REACTOR SCRAM A2 collar clockwise to the ARMED position.	Pass/Fail
	Depress REACTOR SCRAM A2 pushbutton.	Pass/Fail

Performance Steps	Standard	Grade
25. Verify the following indications:		
indicating lights on 2CEC*PNL603 are OFF	 Observes Pilot SCRAM valve solenoids white lights A, C, E & G – OFF 	Sat/Unsat
REACTOR SCRAM TRIP LOGIC A1		Sat/Unsat
indicating light on 2CEC*PNL609 is OFF	<i>Cue: When asked, state that the Reactor SCRAM Trip Logic A2 white light located on P609 is OFF</i>	
26. Reports that RPS A is tripped.	CUE: Acknowledge the report.	

TERMINATING CUE: Cycle CV1 results in a RPS failure, then insert a manual trip of RPS A2 logic.

RECORD STOP TIME_____

- 1. The plant is at 85% power.
- 2. No equipment is out of service.
 - 3. A second RO is available to assist with surveillance performance.
 - 4. Ask the operator for any questions.

Initiating cue:

"(Operator's name), Perform Turbine Control Valve Cycling per N2-OSP-RPS-Q001."

Candidate: Direct ALL communications and announcements through the JPM Evaluator, first.

Constellation Energy Group OPERATOR JOB PERFORMANCE MEASURE

Title:Shift Running Instrument Air CompressorsTask Number:2780040101

Revision: NRC 2005

Approvals:

General Supervisor Date Operations Training (Designee) NA EXAMINATION SECURITY General Supervisor Operations (Designee)

Date

NA EXAMINATION SECURITYConfiguration ControlDate

Performer:_____(RO/SRO)

Trainer/Evaluator:

Evaluation Method: <u>X</u> Perform

Evaluation Location: ____Plant ____X_Simulator

Expected Completion Time: 15 minutes Time Critical Task: NO Alternate Path Task: Yes

Start Time: _____ Stop Time: _____ Completion Time: _____

JPM Overall Rating: Pass Fail

NOTE: A JPM overall rating of fail shall be given if <u>any</u> critical step is graded as fail. Any grade of unsat or individual competency area unsat requires a comment.

Simulate

Comments:

Evaluator Signature:_____

Date:_____

Recommended Start Location:

Simulator

Simulator Set-up:

- 1. Reset to IC20 or equivalent
- 2. Verify A-B-C air compressor line-up
- 3. Enter the following Malfunctions:
 - □ IA02A, 2IAS-C3A Thermal Overload Trip, TUA = 5 sec ET77
 - □ IA02B, 2IAS-C3B Thermal Overload Trip, TUA = 1 min ET77
- 4. Enter the following Instructor Overrides:
 - P851-1B-2IASA01-A, Instrument Air Compressor Selector SW, POS_4, TUA = 15 sec ET77 (P11/21)
 - P851-1B-2IASA01-A, Instrument Air Compressor Selector SW, POS_3, TUA = 15 sec ET91 (P11/21)

Directions to Operators:

Read Before Every JPM Performance:

For the performance of this JPM, I will function as the SM, CSO, and Auxiliary Operators. Prior to providing direction to perform this task, I will provide you with the initial conditions and answer any questions. During task performance, I will identify the steps to be simulated, or discuss and provide cues as necessary.

Read Before Each Evaluated JPM Performance:

This evaluated JPM is a measure of your ability to perform this task independently. The Control Room Supervisor has determined that a verifier is not available and that additional / concurrent verification will not be provided; therefore it should not be requested.

Read Before Each Training JPM Performance:

During this Training JPM, applicable methods of verification are expected to be used. Therefore, either another individual or I will act as the additional / concurrent verifier.

Notes to Instructor / Evaluator:

- 1. Critical steps are identified as **Pass/Fail**. All steps are sequenced critical unless denoted by a "•".
- 2. During Evaluated JPM:
 - Self-verification shall be demonstrated.
- 3. During Training JPM:
 - Self-verification shall be demonstrated.
 - No other verification shall be demonstrated.

References:

- 1. N2-OP-19, Section F.2.0
- 2. N2-SOP-19
- 3. NUREG K/A 295019 AA2.01 3.5/3.6

Tools and Equipment:

1. None

Task Standard:IAS-C3C is running and IAS header pressure has recovered above alarmsetpoint.

- 1. The plant is operating at 100% power.
- 2. 2IAS-C3A is operating but degraded.
- 3. IAS 120VAC remains energized.
- 4. Ask the operator for any questions.

Initiating cue:

RO - "(Operator's name), Shift Instrument Air Compressors from 'A' running to 'B' running per N2-OP-19 Section

F.2.0.

SRO- "(Operator's name), Shift Instrument Air Compressors from 'A' running to 'B'.

Performance Steps		Standard	Grade
1.	Provide repeat back of initiating cue. Evaluator Acknowledge repeat back providing correction if necessary	Proper communications used for repeat back (GAP-OPS-O1)	Sat/Unsat

RECORD START TIME

2.	•Obtain a copy of the reference procedure and review/utilize the correct section.	N2-OP-19 obtained. Precautions & Limitations reviewed and section F.2.0 referenced.	Sat/Unsat
3.	For the oncoming 2IAS –C3B: • Verify OFF/OPERATE switch in OPERATE	 Requests an in-plant operator to verify that IAS-C3B is ready to start. 	Sat/Unsat
	 Verify UNLOAD/NORMAL switch in NORMAL Confirm fault indicator lamps extinguished 	Cue: As an operator at the Air Compressor, report that the OFF/OPERATE switch is in OPERATE, the UNLOAD/NORMAL switch is in NORMAL, and all fault indicator lights are OFF	
4.	Slowly open 2CCP-V523	Request that the in-plant operator slowly open 2CCP-V523	Sat/Unsat
		<i>Cue: As an in-plant operator report that 2CCP-V523 is open</i>	
5.	Select 2IAS-C3B as LEAD on Instrument	Rotates Instrument Air Compressor	
	Air Compressor Selector at P851	Selector Switch to BCA position	Pass/Fail
6.	Air Compressor Selector at P851 Place 2IAS-C3B control switch in Normal- After Start at P851	 Rotates instrument Air compressor Selector Switch to BCA position Rotates IAS-C3B control switch to START Observes IAS-C3B red light – ON Observes IAS-C3B green light – OFF Observes AM-2IASB03 amps – rise to 280 amps and drop back to 175 amps. 	Pass/Fail Pass/Fail Sat/Unsat Sat/Unsat Sat/Unsat

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Performance Steps	Standard	Grade
7. IAS-C3A trips on thermal overload	 Observes Annunciator 851228, INSTR AIR CPSR 3A/3B/3C AUTO START/ FAIL TO TRIP – LIT Observes IAS-C3A green light – ON Observes IAS-C3A red light – OFF Observes AM-2IASA03 amps – 0 	Sat/Unsat Sat/Unsat Sat/Unsat Sat/Unsat
	NOTE: Annunciators 851259, INST AIR COMPRESSOR CLG WTR FLOW LOW, and 851260, INST AIR COMPRESSOR COOLING SYS TROUBLE may alarm. These annunciators are of no consequence to the JPM, and the candidates may not responds to them.	
 Reports to the CRS that IAS-3CA ha tripped on thermal overload/motor electrical fault 	as Cue: Acknowledge the report of IAS- C3A trip	Sat/Unsa
9. •Obtains and references ARP 851228	 B Enter N2-SOP-19 May dispatch an operator to check the running and tripped air compressor 	Sat/Unsa
	 Rotates and pulls IAS-C3A control switch to PULL-TO-LOCK Verify the Instrument Air Compressor Selector in the BCA position 	Pass/Fai Sat/Unsa
	NOTE: If IAS-C3A control switch is placed in PULL-TO-LOCK prior to the trip of IAS-C3B, annunciator 851228 will alarm.	
10. •IAS-C3B Trips	 Observes IAS-C3B green light – ON Observes IAS-C3B red light – OFF 	Sat/Unsa Sat/Unsa
11. •Reports to the CRS that IAS-3CB ha tripped on thermal overload/motor electrical fault	as Cue: Acknowledge the report of IAS- C3B trip	Sat/Unsa
12. •Obtains and references N2-SOP-19	 Determines the air compressors are tripped or degraded 	Sat/Unsa
13. •Loss of all air compressors due to sle transfer or loss of control power?	ow Determines that electrical power and control power remain available	Sat/Unsa
14. ●Annunciator 851229, INSTR AIR SYSTEM TROUBLE sounds.	Recognizes that IAS pressure is less that 90 psig.	Sat/Unsa
	 Recognizes that IAS-C3C did not automatically start. 	Sat/Unsa
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Performance Steps	Standard	Grade
15. If required start/verify auto started air compressors		
16. Select IAS-C3C as the LEAD on the Instrument Air Compressor Selector Switch.	 Rotates Instrument Air Compressor Selector Switch to the CAB position. 	Pass/Fail
17. Place 2IAS-C3C control switch in Normal- After Start.	 Rotates IAS-C3C control switch to START Observes IAS-C3C red light - ON Observes IAS-C3C green light - OFF Observes AM-2IASC03 amps - rise to 280 amps and drop back to 175 amps. Releases IAS-C3C to the NORMAL - 	Pass/Fail Sat/Unsat Sat/Unsat Sat/Unsat Pass/Fail
18. Pressure Restored?	 AFTER-START Observes 2IAS-PI101 pressure indication rising. 	Sat/Unsat
19. Notifies the CRS Instrument Air Compressor 'C' did not start automatically. Instrument Air Compressor 'C' was manually started and Instrument Air pressure is recovering	Cue: As the CRS, Acknowledge the report	Sat/Unsat

End of JPM

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TERMINATING CUE: IAS-C3C is running and IAS header pressure has recovered above alarm setpoint.

RECORD STOP TIME_____

- 1. The plant is operating at 100% power.
- 2. 2IAS-C3A is operating but degraded.
- 3. IAS 120VAC remains energized.
- 4. Ask the operator for any questions.

Initiating cue:

RO - "(Operator's name), Shift Instrument Air Compressors from 'A' running to 'B' running per N2-OP-19 Section F.2.0.

Candidate:

Direct ALL communications and announcements through the JPM Evaluator, first.

- 1. The plant is operating at 100% power.
- 2. 2IAS-C3A is operating but degraded.
- 3. IAS 120VAC remains energized.
- 4. Ask the operator for any questions.

Initiating cue:

SRO- "(Operator's name), Shift Instrument Air Compressors from 'A' running to 'B'.

Candidate: Direct ALL communications and announcements through the JPM Evaluator, first.

Constellation Energy Group OPERATOR JOB PERFORMANCE MEASURE

Title: Manual Initiation of the	e Control Building	Special Filter Train	Revision: NRC 2005
Task Number: 28800201012			
Approvals:			
General Supervisor	5/16/0 5	NA EXAMINATION SE	CURITY Date
Operations Training (Designe	e)	Operations (Designee))
NA EXAMINATION SECURIT	-Υ Date		
Performer:	(RO/SRO)		
Trainer/Evaluator:			
Evaluation Method: X	_Perform	Simulate	
Evaluation Location:Pla	ant	X_Simulator	
Expected Completion Time: 1	5 minutes Time C	ritical Task: NO Alternat	te Path Task: NO
Start Time:	Stop Time:	Completion Tir	ne:
JPM Overall Rating:	Pass Fai	I	
NOTE: A JPM overall r grade of unsat or indivi	ating of fail shall b dual competency	e given if <u>anv</u> critical step i area unsat requires a com	s graded as fail. Any ment.

Comments:

Evaluator Signature:_____

Date:_____

Recommended Start Location: (Completion time based on the start location)

Simulator

Simulator Set-up (if required):

Any IC as long as no LOCA or LOOP exists that will automatically start Control Building Special Filter Train.

Directions to Operators:

Read Before Every JPM Performance:

For the performance of this JPM, I will function as the SM, CSO, and Auxiliary Operators. Prior to providing direction to perform this task, I will provide you with the initial conditions and answer any questions. During task performance, I will identify the steps to be simulated, or discuss and provide cues as necessary.

Read Before Each Evaluated JPM Performance:

This evaluated JPM is a measure of your ability to perform this task independently. The Control Room Supervisor has determined that a verifier is not available and that additional / concurrent verification will not be provided; therefore it should not be requested.

Read Before Each Training JPM Performance:

During this Training JPM, applicable methods of verification are expected to be used. Therefore, either another individual or I will act as the additional / concurrent verifier.

- Notes to Instructor / Evaluator:
 - 1. Critical steps are identified as **Pass/Fail**. All steps are sequenced critical unless denoted by a "•".
 - 2. During Evaluated JPM:
 - Self-verification shall be demonstrated.
 - 3. During Training JPM:
 - Self-verification shall be demonstrated.
 - No other verification shall be demonstrated.

References:

- 1. N2-OP-53A, Rev 08, Control Building Ventilation System
- 2. NUREG K/A 290003 A4.01 (3.2/3.2), 295038 EA1.07 (3.6/3.8)

Tools and Equipment:

1. None

Task Standard:

Control Building Special Filter Train A operating in the filtration mode

- 1. EOP-MSL has been entered.
- 2. Control Building radiation levels are 6E-6 mci/cc and rising
- 3. Ask the candidate if they have any questions.

Initiating Cues:

RO- "(Operator's name), manually initiate Control Building Special Filter Train A per N2-OP-53A, section H.6.0."

SRO- "(Operator's name), manually initiate Control Building Special Filter Train A"

Pe	rformance Steps	Sta	andard	Grade
1.	Provide repeat back of initiating cue. Evaluator Acknowledge repeat back providing correction if necessary		Proper communications used for repeat back (GAP-OPS-O1)	Sat/Unsat
RE	CORD START TIME			
2.	Obtain a copy of the reference procedure and review/utilize the correct section of the procedure.		N2-OP-53A obtained. Precautions & limitations reviewed & section H.6.0 referenced.	Sat/Unsat
3.	Close HVC*MOV1A, CONTROL ROOM AC FLT TRAIN BYP VLV at 2CEC*PNL870.		Places HVC*MOV1A control switch in CLOSE. Observe HCV*MOV1A green light –	Pass/Fail
			ON Observe HCV*MOV1A red light – OFF	Sat/Unsat
4.	Close HVC*MOV1B, CONTROL ROOM AC FLT TRAIN BYP VLV at 2CEC*PNL871	۵	Places HVC*MOV1B control switch in CLOSED	Pass/Fail
			Observe HVC*MOV1B green light – ON	Sat/Unsat Sat/Unsat
_			Observe HVC MOV IB red light – OFF	
5.	Start HVC*FN2A, CONTROL ROOM AC BOOSTER FAN at 2CEC*PNL870.		Places and holds HVC*FN2A control switch in START	Pass/Fail
			Observes HVC*FN2A red light – ON Observes HVC*FN2A green light – OFF	Sat/Unsat Sat/Unsat
		0	Returns the HVC*FN2A control switch to NORMAL-AFTER START.	rass/ran
6.	Observe 2HVC*FR10A FILTER TRAIN HVC*FLT2A INLET AIR FLOW (red pen) should indicate approximately 63% of full scale (corresponds to approximately 2250 scfm).		Observes 2HVC*FR10A FILTER TRAIN HVC*FLT2A INLET AIR FLOW (red pen) indicates approximately 63% of full scale.	Sat/Unsat
7.	Confirm that Control Room/Atmosphere, d/p is \geq +0.125 in WG as read on 2HVC-PDI147, located in the Control Room behind 2CEC-PNL849.	Си Ра РЕ	ie: When operator walks behind Fire onel 2CEC-PNL849 provide cue that 01147 indicates +0.2 inches WG.	Sat/Unsat

Performance Steps	Standard	Grade

- 8. Observes the following at 2HVC*PNLCH7A:
 - ON INDICATOR red light ON
 - LOW AIRFLOW INDICATOR green light OFF
 - OVERTEMPERATURE INDICATOR
 green light OFF
- Dispatches Auxiliary Operator to verify Sat/Unsat indications locally on 2HVC*PNLCH7A:

NOTE: May simulate going to the panel instead of sending an Auxiliary Operator

Cue: When asked, as the Auxiliary Operator Report:

- ON INDICATOR red light ON
- LOW AIRFLOW INDICATOR green light OFF
- OVERTEMPERATURE INDICATOR
 green light OFF

Cue: Acknowledge the request.

- Notify Radiation Protection to periodically sample the Control Room Atmosphere to ensure proper operation of the Special Filter Train in service. (Simulate)
- 10. Reports that Control Building Special Filter Train "A" has been initiated.

Cue: Acknowledge the report.

D TERMINATING CUE: Control Room Special Filter Train "A" initiated.

RECORD STOP TIME_____

- 1. EOP-MSL has been entered.
- 2. Control Building radiation levels are 6E-6 mci/cc and rising
- 3. Ask the candidate if they have any questions.

Initiating Cues:

RO- "(Operator's name), manually initiate Control Building Special Filter Train A per N2-OP-53A, section H.6.0."

Candidate: Direct ALL communications and announcements through the JPM Evaluator, first.

- 1. EOP-MSL has been entered.
- Control Building radiation levels are 6E-6 mci/cc and rising Ask the candidate if they have any questions. 2.
- 3.

Initiating Cues:

SRO- "(Operator's name), manually initiate Control Building Special Filter Train A"

Candidate: Direct ALL communications and announcements through the JPM Evaluator, first.

Constellation Energy Group OPERATOR JOB PERFORMANCE MEASURE

Title: Vent Control Rod Overpiston Volume

Revision: NRC 2005

Task Number: 2009620501, 2009620504

Approvals:

General Supervisor Operations Training (Designee)

NA EXAMINATION SECURITY General Supervisor **Operations** (Designee)

Date

NA EXAMINATION SECURITY Configuration Control Date Performer: (RO/SRO) Trainer/Evaluator: Evaluation Method: _____Perform X Simulate Evaluation Location: X Plant Simulator Expected Completion Time: 20 minutes Time Critical Task: NO Alternate Path Task: NO Start Time: Stop Time: _____ Completion Time: _____ JPM Overall Rating: Pass Fail NOTE: A JPM overall rating of fail shall be given if any critical step is graded as fail. Any grade of unsat or individual competency area unsat requires a comment.

Comments:

Evaluator Signature:

Date:_____

02-OPS-PJE-200-2-69

Recommended Start Location: (Completion time based on the start location)

RP Access Area

Simulator Set-up (if required):

None

Directions to the Instructor/Evaluator:

Prior to the performance of this JPM, obtain SM / CSO general permission to open equipment cabinets and inspection covers. If opening the equipment cabinet or inspection cover will affect Tech. Spec. Operability, operational status, or the effects are unknown, obtain specific SM / CSO permission

Directions to Operators:

Read Before Every JPM Performance:

For the performance of this JPM, I will function as the SM, CSO, and Auxiliary Operators. Prior to providing direction to perform this task, I will provide you with the initial conditions and answer any questions. During task performance, I will identify the steps to be simulated, or discuss and provide cues as necessary.

Read Before Each Evaluated JPM Performance:

This evaluated JPM is a measure of your ability to perform this task independently. The Control Room Supervisor has determined that a verifier is not available and that additional / concurrent verification will not be provided; therefore it should not be requested.

Read Before Each Training JPM Performance:

During this Training JPM, applicable methods of verification are expected to be used. Therefore, either another individual or I will act as the additional / concurrent verifier.

Notes to Instructor / Evaluator:

- 1. Critical steps are identified as **Pass/Fail**. All steps are sequenced critical unless denoted by a "•".
- 2. During Evaluated JPM:
 - Self-verification shall be demonstrated.
- 3. During Training JPM:
 - Self-verification shall be demonstrated.
 - No other verification shall be demonstrated.

References:

- 1. N2-EOP-6, Att. 14, Rev. 5, "Alternate Rod Insertions," Sections 3.6
- 2. NUREG 1123, K/A 295015, AA.1.01 (3.8/3.9)

Tools and Equipment: EOP box has a breakaway tie-wrap.

Task Standard: Control Rod 26-59 at notch 00 and 2RDS*V1 shut.

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- 1. A scram has occurred.
- 2. Several rods have not fully inserted.
- 3. Communications are established with Control Room.
- 4. An OD-7, Print out of Rod Positions is NOT available.
- 5. Instructor to ask operator for any questions.

Initiating Cues:

"(Operator's name) using EOP-6, Attachment 14, insert control rod <u>26-59</u> to notch 00 by locally venting its overpiston area."

Performance Steps	Standard	Grade
1. Provide repeat back of initiating cue. Evaluator Acknowledge repeat back providing correction if necessary	Proper communications used for repeat back (GAP-OPS-O1/Operations Manual)	Sat/Unsat
RECORD START TIME		
2. Obtain a copy of the reference procedure and review/utilize the correct section of the procedure	Open EOP box by removing breakaway tie-wrap and review procedure and enclosures. Reference EOP-6, Att. 14, Section 3.6	Sat/Unsat
	Describe and identify the tools necessary to perform the task, but do NOT remove the tools from the EOP Box	
3. Locate the correct HCU (26-59).	Physically locate the correct HCU (26- 59). Use Figure 14-1, RDS HCU LOCATIONS, as a guide, if required.	Pass/Fail
 4. Remove Cap from 2 RDS*V1, Withdraw Line Vent Valve Drain. Cue: Simulate cap removal. 	AT HCU, use wrench to remove the Withdraw Line Vent Valve Cap.	Pass/Fail
 •5. Connect adapter. Cue: Simulate drain adapter connected. 	At HCU, connect adapter to the correct RDS*V1 by threading in the quick disconnect adapter.	Pass/Fail

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Performance Steps	Standard	Grade
•6. Connect hose. Cue: Simulate hose connected and routed. If the candidate starts to go down the ladder to secure the hose at the drain, tell them another operator has secured the bottom of the hose.	At HCU, connect hose to the quick disconnect adapter and route to a drain. Secure the hose at the drain against whip.	Pass/Fail
 •7. Uncap 2RDS*V1 Valve Operator. Cue: Simulate cap removed. 	At HCU, remove cap from RDS*V1 Valve Operator.	Pass/Fail
 Insert rod. Cue: Simulate RDS*V1 opened. 	At HCU, slowly open RDS*V1 by inserting the T-handled HCU Vent Tool and rotating counter clockwise, venting the above piston area.	Pass/Fail
 Report to Control Room. Cue: Acknowledge report and inform the operator that control rod 26-59 has fully inserted. To restore 26- 59 to normal. 	Report that RDS*V1 is opened. Request rod position.	Sat/Unsat
10. Shut RDS*V1. Cue: Simulate RDS*V1 shut.	At HCU, using the T-handled HCU Vent Tool shut RDS*V1 by rotating the operator clockwise.	Pass/Fail
11. Replace the cap on 2RDS*V1 Valve Operator.Cue: Simulate cap replaced.	At HCU, replace the cap on RDS*V1 Valve Operator.	Sat/Unsat

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Performance Steps	Standard	Grade

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NOTE: At this time the JPM may be stopped.

End of JPM

TERMINATING CUE: Control Rod 26-59 at notch 00 and 2RDS*V1 shut.

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RECORD STOP TIME_____

- 1. A scram has occurred.
- 2. Several rods have not fully inserted.
- 3. Communications are established with Control Room.
- 4. An OD-7, Print out of Rod Positions is NOT available.
- 5. Instructor to ask operator for any questions.

Initiating Cues:

"(Operator's name) using EOP-6, Attachment 14, insert control rod <u>26-59</u> to notch 00 by locally venting its overpiston area."

Candidate:

Direct ALL communications and announcements through the JPM Evaluator, first.

Constellation Energy Group OPERATOR JOB PERFORMANCE MEASURE

Approvals:			
DANA 3	<u> 11105</u>	NA EXAMINATION SECU	JRITY
General Supervisor Operations Training (Design	Date nee)	General Supervisor Operations (Designee)	Date
NA EXAMINATION SECUR Configuration Control	Date		
Performer:	(RO/SRO)		
Trainer/Evaluator:			
Evaluation Method:	Perform	<u>X</u> Simulate	
Evaluation Location: X	_Plant	Simulator	
Expected Completion Time:	25 minutes Time Crit	ical Task: NO Alternate F	Path Task: NO
Start Time:	Stop Time:	Completion Time:	
JPM Overall Rating:	Pass Fail		
	I roting of foil shall be	given if any critical stan is a	radad on fail Any

NOTE: A JPM overall rating of fail shall be given if <u>any</u> critical step is graded as fail. Any grade of unsat or individual competency area unsat requires a comment.

Comments:

Evaluator Signature:_____

Date:____

O2-OPS-PJE-205-2-02

Revision: NRC 2005

Title: Align Fire Water System to Inject to RHR A

Task Number: 2009020504

Recommended Start Location: (Completion time based on the start location)

RP Access Area

Simulator Set-up (if required):

N/A

Directions to the Instructor/Evaluator:

Prior to the performance of this JPM, obtain SM / CSO general permission to open equipment cabinets and inspection covers. If opening the equipment cabinet or inspection cover will affect Tech. Spec. Operability, operational status, or the effects are unknown, obtain specific SM / CSO permission

Directions to Operators:

Read Before Every JPM Performance:

For the performance of this JPM, I will function as the SM, CSO, and Auxiliary Operators. Prior to providing direction to perform this task, I will provide you with the initial conditions and answer any questions. During task performance, I will identify the steps to be simulated, or discuss and provide cues as necessary.

Read Before Each Evaluated JPM Performance:

This evaluated JPM is a measure of your ability to perform this task independently. The Control Room Supervisor has determined that a verifier is not available and that additional / concurrent verification will not be provided; therefore it should not be requested.

Read Before Each Training JPM Performance:

During this Training JPM, applicable methods of verification are expected to be used. Therefore, either another individual or I will act as the additional / concurrent verifier.

Notes to Instructor / Evaluator:

- 1. Critical steps are identified as **Pass/Fail**. All steps are sequenced critical unless denoted by a "•".
- 2. During Evaluated JPM:
 - Self-verification shall be demonstrated.
- 3. During Training JPM:
 - Self-verification shall be demonstrated.
 - No other verification shall be demonstrated.

References:

- 1. EOP-6, Rev. 7, Attachment 6, RHR Fire Water System Cross-Tie
- 2. NUREG 1123, 295031, EA1.08 3.8 / 3.9

O2-OPS-PJE-205-2-02

Tools and Equipment: 1. PL-3 Key

- 2. EOP tool boxes are secured with a breakaway tie-wrap

Task Standard:

Fire Water System is aligned to inject to RHR loop A per N2-EOP-6, Attachment 6.

- 1. All high pressure feed to the RPV is lost.
- 2. Alternate injection systems are being lined up.
- 3. Instructor to ask operator for any questions.

Initiating Cues:

"(Operator's name), Line-up the Fire Water System to RHR loop A, per EOP-6, Attachment 6."

Perfor	mance Steps	Standard	Grade
1. F ir A p n	Provide repeat back of nitiating cue. <i>Evaluator</i> Acknowledge repeat back providing correction if necessary.	Proper communications used for repeat back (GAP-OPS-O1/Operations Manual)	Sat/Unsat
RECO	ORD START TIME		
•2. C ru ru s	Dbtain a copy of the reference procedure and review/utilize the correct section of the procedure.	N2-EOP-6, Attachment 6 obtained. Section 3.1 referenced.	Sat/Unsat
CUE:	Steps 3.1.1, 3.1.2, 3.1.3		
and 3.	.1.4 are complete.		
NOTE actual conne equipr Identif use ald all that	For simulation purposes, layout of hoses/flanges and action to pump or plant ment is not required. fication of hose/flange and ong with connection points is t is required.		
3. V C 77	/erify closed 2RHS*V70, CONDENSATE FLUSH TO A' CONTMT SPRAY HDR. Cue: 2RHS*V70 is closed	2RHS*V70, CONDENSATE FLUSH TO 'A' CONTMT SPRAY HDR is rotated in the clockwise direction to verify it is closed. (<i>Rx Bldg EL 289</i>).	Sat/Unsat

Per	formance Steps	Standard	Grade
4.	Close 2CNS-V621, CNS TO RHR SUPPLY ISOL. Cue: 2CNS-V621 is closed	2CNS-V621, CNS TO RHR SUPPLY ISOL is rotated in the clockwise direction to verify it is closed. (<i>Rx Bldg, Northside</i> <i>EL289 above 2RHS*MOV24A, LPCI</i>	Sat/Unsat
5.	Remove test connection blind flange from between valves 2CNS-V621 AND 2RHS*V70. Cue: Blind flange is removed	Blind Flange is properly removed using the tools from the EOP gang box. (<i>Rx Bldg EL 289</i>)	Pass/Fail
6.	Install 2 ½ inch fire hose adapter to test connection. Cue: Adapter is installed.	Adapter installed to test connection flange correctly using tools from the EOP gang box.	Pass/Fail
7.	Connect male end of 2 ½ inch fire hose from EOP box to test connection flange adapter.	Male end of 2 ½ inch fire hose from EOP box is properly connected to test connection flange adapter	Pass/Fail
	Cue: Male end of 2 ½ inch fire hose is connected to test connection flange adapter.		
8.	Disconnect firehose at FHR 93 Cue: Firehose is connected	Firehose from EOP gangbox is properly connected to FHR 93 using tools from the EOP gang box. (<i>Rx Bldg, EL 289, near North stairwell entrance</i>)	Pass/Fail
9.	Connect 2 1/2" firehose from test connection flange	Firehose is properly connected to FHR 93 using tools from the EOP gang box	Pass/Fail
	Cue: Firehose is connected to FHR 93		
10. Cue	Open 2FPW-V391, FHR 93 ANGLE VALVE	2FPW-V391, FHR 93 ANGLE VALVE is opened by rotating the handwheel in the counterclockwise direction.	Pass/Fail
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Performance Steps	Standard	Grade
11. Unlock AND open 2RH	IS*V70 Using the PL-3 Key, unlock AND open 2RHS*V70 by rotating the handwheel the counterclockwise direction.	n Pass/Fail ⊺in
Cue: 2RHS*V70 is unlocked open.	and	
 Notify control room that water is lined-up to inje RHR 'A' 	t fire ect via	Sat/Unsat

End of JPM

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TERMINATING CUE: Fire Water System is aligned to inject to RHR loop A per N2-EOP-6, Attachment 6.

RECORD STOP TIME_____

See.

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- 1. All high pressure feed to the RPV is lost.
- 2. Alternate injection systems are being lined up.
- 3. Instructor to ask operator for any questions.

Initiating Cues:

"(Operator's name), Line-up the Fire Water System to RHR loop A, per EOP-6, Attachment 6."

Candidate:

Direct ALL communications and announcements through the JPM Evaluator, first.

Constellation Energy Group OPERATOR JOB PERFORMANCE MEASURE

Title: Lower Control Building Operator During Control Room Evacuation Revision: NRC 2005 Task Number: 2640020101

Approvals:

General Supervisor Date Operations Training (Designee) NA EXAMINATION SECURITY

X Simulate

General Supervisor Date Operations (Designee)

NA EXAMINATION SECURITY Configuration Control Date

Performer:_____(RO/SRO)

Trainer/Evaluator:_____

Evaluation Method: _____Perform

Evaluation Location: X Plant Simulator

Expected Completion Time: 25 minutes Time Critical Task: NO Alternate Path Task: Yes

Start Time: _____ Stop Time: _____ Completion Time: _____

JPM Overall Rating: Pass Fail

NOTE: A JPM overall rating of fail shall be given if <u>any</u> critical step is graded as fail. Any grade of unsat or individual competency area unsat requires a comment.

Comments:

Evaluator Signature:_____

Date:_____

Recommended Start Location:

Control Building Elev. 261 in the vicinity of the Remote Shutdown or Diesel Generator Rooms

Simulator Set-up:

N/A

Directions to the Instructor/Evaluator:

Prior to the performance of this JPM, obtain SM / CSO general permission to open equipment cabinets and inspection covers. If opening the equipment cabinet or inspection cover will affect Tech. Spec. Operability, operational status, or the effects are unknown, obtain specific SM / CSO permission

Directions to Operators:

Read Before Every JPM Performance:

For the performance of this JPM, I will function as the SM, CSO, and Auxiliary Operators. Prior to providing direction to perform this task, I will provide you with the initial conditions and answer any questions. During task performance, I will identify the steps to be simulated, or discuss and provide cues as necessary.

Read Before Each Evaluated JPM Performance:

This evaluated JPM is a measure of your ability to perform this task independently. The Control Room Supervisor has determined that a verifier is not available and that additional / concurrent verification will not be provided; therefore it should not be requested.

Read Before Each Training JPM Performance:

During this Training JPM, applicable methods of verification are expected to be used. Therefore, either another individual or I will act as the additional / concurrent verifier.

Notes to Instructor / Evaluator:

- 1. Critical steps are identified as **Pass/Fail**. All steps are sequenced critical unless denoted by a "•".
- 2. During Evaluated JPM:
 - Self-verification shall be demonstrated.
- 3. During Training JPM:
 - Self-verification shall be demonstrated.
 - No other verification shall be demonstrated.

References:

- 1. N2-SOP-78
- 2. N2-OP-100A Section H.13

Tools and Equipment:

1. None

Task Standard: Division I Diesel Generator locally started and output breaker 101-1 locally closed.

- 1. Plant has scrammed
- 2. Control Room Evacuation is required
- 3. You are the Lower Control Building Operator
- Lower Control Building Operator immediate actions are in progress
 2VBS*PNLB100 Breakers 3 and 4 have just been positioned to OFF.
- 6. Ask the operator for any questions.

Initiating cue:

"(Operator's name), complete the Immediate and Subsequent Actions of N2-SOP-78."

Pe	Performance Steps Standard		Grade	
1.	Provide repeat back of initiating cue. Evaluator Acknowledge repeat back providing correction if necessary	Pr ba	oper communications used for repeat ck (GAP-OPS-O1)	Sat/Unsat
RE	CORD START TIME			
2.	•Obtain a copy of the reference procedure and review/utilize the correct section.	٦	Obtain copy of N2-SOP-78.	Sat/Unsat
3.	Reports to Remote Shutdown/Diesel Generator Room Area		Reports to Remote Shutdown/Diesel Generator Room Area	
	Cue: When asked if the Division any Diesel Generator started, inform			
	the Lower Control Building Operator (candidate) that Division		Acknowledges Division I Diesel Generator did NOT start	Sat/Unsat
	l Diesel Generator did NOT start	۵	Acknowledges loss of Line 5 occurred	Sat/Unsat
	AND a loss of Offsite		Determines Offsite power is lost to ENS*SWG101	Sat/Unsat
NC SII be	DTE: ALL actions are to be MULATED. No equipment is to operated by candidates.		Determines Division I Diesel Generator must be started locally using N2-OP-100A, section H.13 and prestart checks and data recording is NOT required.	Sat/Unsat

	Pe	erformance Steps	St	andard	Grade
			_		
	4.	•Obtain a copy of the reference procedure and review/utilize the correct section.		reviews section H.13	Sat/Unsat
	5.	Verify Lube Oil AND Jacket Water Temperatures are >75°F.		SIMULATE: Verifies Lube Oil AND Jacket Water Temperatures are >75°F, by use of RTD Temperature	Sat/Unsat
		Cue: Lube oil and jacket water temperatures are 125°F.		Meter Selector switch selected to Point 1 and Point 5	
	6.	Verify NO Lube Oil OR Jacket Water High Temperature Alarms exist.		Observes NO Lube Oil OR Jacket Water High Temperature annunciators lit at 2CES*IPNL406, ENGINE CONTROL PANEL	Sat/Unsat
	7.	At 2CES*IPNL407, GENERATOR CONTROL PANEL, perform the following:			
		 Verify 2ENS*SWG101-13, CIRCUIT BREAKER PREFERRED OFFSITE, is open. 		Verifies 2ENS*SWG101-13, CIRCUIT BREAKER PREFERRED OFFSITE, is open by observing green light ON and red light OFF.	Sat/Unsat
		Cue: Circuit Breaker Preferred Offsite breaker green light is ON and red light is OFF.			
		 Verify 2ENS*SWG101-10, CIRCUIT BREAKER ALTERNATE OFFSITE, is open. 		Verifies 2ENS*SWG101-10, CIRCUIT BREAKER ALTERNATE OFFSITE, is open by observing both green and red lights OFF.	Sat/Unsat
		Cue: Circuit Breaker Alternate Offsite breaker green light is OFF and red light is OFF.		NOTE: 2ENS*SWG101-10 is a "cubicle only" arrangement. There is no breaker installed in this switchgear cubicle.	
.		Verify 2ENS*SWG101-N1, CIRCUIT BREAKER NEUTRAL, is closed.		Verifies 2ENS*SWG101-N1, CIRCUIT BREAKER NEUTRAL, is closed by observing green light OFF and red light ON.	Sat/Unsat
		NRC JP	'M 1'	1 4 03/16/05	

Pe	rformance Steps	St	andard	G	rade
	Cue: Circuit Breaker Preferred Offsite breaker green light is OFF and red light is ON.				
	 Verify GOVERNOR mode switch is in ISOCH. 		Verifies GOVERNOR mode switch is in ISOCH.	Sat	/Unsat
	Cue: GOVERNOR mode switch is in ISOCH.				
	 Verify VOLTAGE REGULATOR MANUAL- AUTO switch is in AUTO. 		Verify VOLTAGE REGULATOR MANUAL-AUTO switch is in AUTO.	Sat	/Unsat
	Cue: VOLTAGE REGULATOR MANUAL- AUTO switch is in AUTO				
	NOTE: A Service Water Pump will have to be started shortly after reenergizing the Bus to provide cooling to the Diesel Generator.				
8.	Perform prestart checks on a Division I Service Water Pump in accordance with N2-OP-11, Service Water System.		Acknowledges prestart checks are complete for Service Water Pump A.	Sat	/Unsat
	Cue: Inform candidate that another operator has completed prestart checks on Service Water Pump A.				
9.	At 2CES*IPNL406, ENGINE CONTROL PANEL, perform the following:				
	Place CONTROL MODE switch in LOCAL AND verify the white LOCAL indicating	٥	SIMULATE: Place CONTROL MODE switch in LOCAL	Pas	ss/Fail
	light is illuminated.	٦	Verifies the white LOCAL indicating light is illuminated	Sat	/Unsat
	NRC JP	'M 1	1 5 03/16/05		

Performance Steps	St	andard	Grade
switch is in LOCAL AND the white LOCAL indicating light is illuminated.	•		
 Depress ENGINE CONTROL START pushbutton 		SIMULATE: Depresses ENGINE CONTROL START pushbutton	Pass/Fail
10. At 2CES*IPNL407, verify the following Diesel Generator start indications:			
Diesel Speed as indicated on 12ESI-2EGSA04 ENGINE SPEED, rises to 600 RPM.		Confirms Diesel Speed as indicated on 12ESI-2EGSA04 ENGINE SPEED, rises to 600 RPM.	Sat/Unsat
Cue: Diesel Speed is 600 RPM			
 Generator Voltage as indicated on GVM-2EGPA22 VOLTS GENERATOR, rises to 4160 A-C VOLTS. 		Confirms Generator Voltage as indicated on GVM-2EGPA22 VOLTS GENERATOR, rises to 416O A-C VOLTS.	Sat/Unsat
Cue: Generator Voltage is 4160 Volts AC			
 Generator Frequency as indicated on FM-2EGPA22 FREQUENCY GENERATOR, rises to 60 HERTZ. 		Confirms Generator Frequency as indicated on FM-2EGPA22 FREQUENCY GENERATOR, rises to 60 HERTZ.	Sat/Unsat
Cue: Generator Frequency is 60 Hz			
 Generator Field Current as indicated on GFAM- 2EGPA21 AMPS FIELD, indicates about 91 DC AMPERES. 		Confirms Generator Field Current as indicated on GFAM-2EGPA21 AMPS FIELD, indicates about 91 DC AMPERES.	Sat/Unsat
Cue: Generator Field Current indicates about 91 DC AMPERES			
11. At 2ENS*SWG101, manually close 2ENS*SWG101-1, EMG. GEN. 2EGS G1.		SIMULATE: At 2ENS*SWG101, manually closes 2ENS*SWG101-1, EMG. GEN. 2EGS G1	Pass/Fail

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Performance Steps	Sta	andard	Grade
12. Start a Division I Service Water Pump in accordance with N2- OP-11.		Acknowledges Service Water Pump A has been started.	Sat/Unsat
another operator has started Service Water Pump A.			
 Locally verify 2SWP*MOV66A (B), SERVICE WTR OUTLET, is open. 		In Division I Diesel Generator Room, locally verifies 2SWP*MOV66A, SERVICE WTR OUTLET, is open	Pass/Fail
Note: 2SWP*MOV66A position must be verified locally because 2CEC*PNL852 is in the Main Control Room.			
Cue: SWP*MOV66A is Open.			
14. Report Division I Diesel Generator is started and ENS*SWG101 is energized.			
End of JPM			

TERMINATING CUE: Division I Diesel Generator locally started and output breaker 101-1 locally closed.

RECORD STOP TIME_____

Initial Conditions:

- 1. Plant has scrammed
- 2. Control Room Evacuation is required
- 3. You are the Lower Control Building Operator
- 4. Lower Control Building Operator immediate actions are in progress
- 5. 2VBS*PNLB100 Breakers 3 and 4 have just been positioned to OFF.
- 6. Ask the operator for any questions.

Initiating cue:

"(Operator's name), complete the Immediate and Subsequent Actions of N2-SOP-78."