## INITIAL SUBMITTAL OF THE WALKTHROUGH JPMS

# FOR THE CLINTON INITIAL EXAMINATION - JULY/AUG 2002

ES-301 Control Room Systems and Facility Walk-Through Test Outline Form ES-301-2

Section 2

|  | Facility: Clinton Power Station Date of Example   | mination: 7/  | 29/2002            |
|--|---|---------------|--------------------|
|  | Exam Level (circle one): <b>RO</b> / <b>SRO(I)</b> / SRO(U) Operating Test  | Number: II    | <u>_T0101-1</u>    |
|  | B.1 Control Room Systems  | il , in ,     |                    |
|  | System / JPM Title  | Type<br>Code* | Safety<br>Functior |
|  | a. Standby Liquid Control: JPM (NEW) Initiate Standby Liquid<br>Control, RWCU Fails to Isolate, K/A 211000.A4.06, Imp 3.9 / 3.9   | N,S,A         | 1                  |
|  | b. Main Turbine Generator: JPM 011245J001, Synch Generator to Grid, K/A 245000.A4.02, Imp 3.1 / 2.9   | D,S,L         | 4                  |
|  | c. Rod Control and Information System: JPM 015200J024,<br>Defeat Rod Pattern Controller, K/A 201005.A2.04, Imp 3.2 / 3.2  | D,C           | 7                  |
|  | <ul> <li>Plant Ventilation: JPM 011288J005Manaul Pruge Operation of<br/>the Control Room HVAC System (VC), K/A 290003.A2.01, Imp<br/>3.1 / 3.2</li> </ul>                       | D,S           | 9                  |
|  | e. Instrument Air: JPM 015200J004, Pressurize the Containment<br>and Drywell Instrument Air Headers, K/A 300000.A4.01, Imp 2.6 /<br>2.7   | D,S,L         | 8                  |
| interstat  | f. Automatic Depressurization System: JPM 011218J004, ADS<br>Manual Initiation IAW EOP-3, K/A 218000.A4.01, Imp 4.4 / 4.4   | M,S,A         | 3                  |
|  | g. Emergency Generator: JPM 011264J015, (NEW), Load Diesel<br>Generator, K/A 264000.A4.04, Imp 3.7 / 3.7  | S,N,A         | 6                  |
|  | B.2 Facility Walk-Through   |               |                    |
|  | <ul> <li>RHR: Suppression Pool Cooling Mode: JPM 011205J001,<br/>Suppression Cooling from Remote Shutdown Panel, K/A<br/>219000.A2.13, Imp 3.5 / 3.7</li> </ul>                 | D,S,A         | 5                  |
| an ta an an ta ta an t                           | <ul> <li>Reactor Pressure Regulating: JPM 41248J002, Respond to<br/>Low Hydraulic Pressure on Steam Bypass Hydraulic Power Unit,<br/>K/A 241000.A2.06, Imp 3.1 / 3.2</li> </ul> | D,R           | 3                  |
| er alder ver einer der gegenzammen ogsachten der | c. Emergency Generators: JPM 011264J001, DG Emergency<br>Shutdown, K/A 264000.A3.03, Imp 3.4/3.4  | D,R,A         | 6                  |
|  | * Type Codes: (D)irect from bank, (M)odified from bank, (N)ew, (A)lte<br>room (S)imulator, (L)ow Power, (R)CA   | rnate path, ( | C)ontrol           |

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NUREG-1021, Revision 8, Supplement 1

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#### CLINTON POWER STATION

SYSTEM JPM

#### JPM NUMBER: B.1.a.1

## JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

**NOTE:** All steps of this checklist should be performed upon initial validation. Prior to JPM usage, revalidate JPM using steps 8 through 11 below.

- 1. Task description and number, JPM description and number are identified.
- 2. Knowledge and Abilities (K/A) references are included.
- Performance location specified. (in-plant, control room, or simulator)
- 4. Initial setup conditions are identified.
- 5. Initiating and terminating cues are properly identified.
  - 6. Task standards identified and verified by SME review.
  - 7. Critical steps meet the criteria for critical steps and are identified with an asterisk (\*).
    - Verify the procedure referenced by this JPM matches the most current revision of that procedure: Procedure Rev. \_\_\_\_ Date \_\_\_\_\_
      - Pilot test the JPM:
         a. verify cues both verbal and visual are free of conflict, and
         b. ensure performance time is accurate.
      - 10. If the JPM cannot be performed as written with proper responses, then revise the JPM.
      - 11. When JPM is revalidated, SME or Instructor sign and date JPM cover page.

| SME/Instructor | Date     |
|----------------|----------|
| SME/Instructor | Date     |
| SME/Instructor | <br>Date |

JPM NUMBER: B.1.a.1

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REVISION: 00

## **Revision Record (Summary)**

1. Revision 00, This is a new JPM

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| JPM NUMBER:  | <b>B.1.a.1</b>   | REVISIO   | N: <u>00</u>   |
|--|--|---|----------------|
| Operator's Name:<br>Job Title:                                   | RO SRO   | )   |                |
| JPM Title:<br>JPM Number:<br>Revision Number:<br>Task Number and | Initiate Standby B.1.a.1<br>B.1.a.1<br>Title: 441110.0<br>Initiation | Liquid Control, RWCU Fails to Isolate<br>01, Complete Control Room Actions to Per | form SLC       |
| K/A Number   | 211000.A4.06   | Importance 3.9 / 3.9  |                |
| Suggested Testin   | g Environment:   | Simulator   |                |
| Actual Testing E   | nvironment: 🗅  | Simulator 🖸 Plant 📮 Control Room  |                |
| Testing Method:  | <ul><li>Simulate</li><li>Perform</li></ul>                           | Alternate Path / Faulted: 🔳 Yes 🗆   | I No           |
| Time Critical:   | TYes   | No  |                |
| Estimated Time   | to Complete:_1(  | 0 minutes Actual Time Used:   | minutes        |
| References: Cl   | PS 4411.10, SLC  | OPERATIONS, Revision 3, Step 2.1  |                |
| <b>EVALUATION</b><br>Were all the Crit                           | SUMMARY:<br>ical Elements per:                                       | formed satisfactorily? 🗅 Yes 🗅  | No             |
| The operator's peak and has been det                             | erformance was e<br>ermined to be:                                   | valuated against the standards contained in<br>Satisfactory Unsatisfactor         | this JPM,<br>Y |
| Comments:  |  |   |                |
|  |  |   |                |
|  |  |   |                |
|  |  |   |                |
| Evaluator's Nan  | ne:  |   |                |
| Evaluator's Sign   | nature:  | Date:   |                |

#### JPM NUMBER: B.1.a.1

#### **REVISION: 00**

#### READ TO THE OPERATOR

I will explain the initial conditions, which step(s) to simulate or discuss, and provide the initiating cues. When you complete the task successfully, the objective of this Job Performance Measure will be satisfied.

#### SIMULATOR SET-UP CONDITIONS:

Initialize in a full power IC. Insert malfunctions to defeat automatic and manual scram signals. Defeat isolation of RWCU due to SLC initiation.

#### TASK STANDARDS:

SLC has been initiated. RWCU 1G33-F001 and F004 have been closed manually.

TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

None

#### **PROCEDURAL/REFERENCES:**

CPS 4411.10, SLC OPERATIONS, Revision 3, Step 2.1

#### **EVALUATOR INSTRUCTIONS:**

Amplifying cues are provided within the JPM steps.

## INITIAL CONDITIONS AND INITIATING CUE:

The plant is in an ATWS condition. You are directed to initiate SLC per CPS 4411.10, SLC OPERATIONS.

START TIME:

#### JPM NUMBER: B.1.a.1

**REVISION: 00** 

#### **PERFORMANCE INFORMATION**

Critical steps are denoted with an asterisk (\*) to the left of the step number and appear in **BOLDED** letters. Failure to meet the standards for a critical step constitutes failure of the Job Performance Measure. The sequence of steps is assumed unless denoted in the comments section of the JPM.

#### PERFORMANCE STEPS

## CPS 4411.10, SLC OPERATIONS

| *2.1.1 | (1) | Place handswitch for both SLC Pumps A and B, 1C41-C001A(B) to the |
|--------|-----|---|
|        |     | RUN position.   |

StandardRotates the handswitches for both SLC pump A and B to the RUN position<br/>and allows them to spring-return to normal.Observes the AMBER light for both pumps illuminate.

#### CUE

#### Comments

|                 |     | SAT       | UNSAT         | Comment Number                          |
|-----------------|-----|-----------|---------------|---|
| 2.1.1           | (2) | Record    | start time: _ |   |
| Standard        |     | Start tir | ne of the SL  | C pumps is recorded.                    |
| CUE<br>Comments |     | Examiı    | nee may repo  | rt start time to the CRS for recording. |
|                 |     | SAT       | UNSAT         | Comment Number                          |

|                 |                  | CLINTON POWER STATION<br>SYSTEM JPM  |  |
|-----------------|------------------|--|--|
| JPM NUMBER      | R: <u>B.1.</u> 2 | 1.1 REVISION: <u>00</u>  |  |
| 2.1.2           | (1)              | Verify SLC initiation sequence:<br>SLC DISCH TO RPV SQUIB A AND B CONTINUITY lights go out.  |  |
| Standard        |                  | Verifies SLC DISCH TO RPV SQUIB A AND B CONTINUITY lights go out.  |  |
| CUE<br>Comments |                  |  |  |
|                 |                  | SAT UNSAT Comment Number   |  |
| 2.1.2           | (2)              | SLC A(B) OUT OF SERVICE annunciators 5067(66)-8F alarm.  |  |
| Standard        |                  | Verifies SLC A(B) OUT OF SERVICE annunciators 5067(66)-8F alarm actuates.  |  |
| CUE<br>Comments |                  |  |  |
|                 |                  | SAT UNSAT Comment Number   |  |
| 2.1.2           | (3)              | SLC Suct Valve (Vlv) A(B) Fm SLC Strg (Stor) Tank [1C41-F001A(B)]<br>valves open.<br>1C41-F001A(B) will not open unless SLC Man Suct Vlv Fm SLC Test |  |
|                 |                  | Tank [1C41-F031] (normany locked shur) is fully shur   |  |
| Standard        |                  | Verifies SLC Suct Valve (Vlv) A(B) Fm SLC Strg (Stor) Tank [1C41-F001A(B)] valves open.  |  |
|                 |                  | Observes RED lights for both suction valves are illuminated.   |  |
| CUE             |                  |  |  |

Comments

UNSAT Comment Number SAT

## JPM NUMBER: B.1.a.1

## **REVISION:** <u>00</u>

| *2.1.2   | (4) | 1G33-F001 & F004, RWCU Inbd (Outbd) Suct Isol shut, unless the isolation logic is bypassed for RPV pressure control.             |  |
|----------|-----|--|--|
| Standard |     | Reports 1G33-F001 & F004, RWCU Inbd (Outbd) Suct Isol failed to shut.<br>Places handswitches for both 1G33-F001 & F004 to close. |  |
|          |     | Observes RED lights for both 1G33-F001 & F004 illuminate, GREEN go off.  |  |
| CUE      |     | If requested, state the isolation logic for 1G33-F001 & F004 is not defeated.  |  |
| Comments |     | May report failure of 1G33-F001 & F004 to close to the CRS and request direction.  |  |
|          |     | SAT UNSAT Comment Number   |  |

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| JPM NUMBER | : <u>B.1.a.</u> | 1 REVISION: <u>00</u>  |  |
|------------|-----------------|--|--|
| 2.1.2      | (5)             | SLC Pump A(B), 1C41-F001A(B) start when its respective suction valve is fully open.                      |  |
|            |                 | SLC pumps will start if SLC Man Suct Vlv Fm SLC Test Tank [1C41-<br>F031] (normally locked shut) is open |  |
| Standard   |                 | Verifies SLC Pump A(B), 1C41-F001A(B) start when its respective suction valve is fully open.             |  |
|            |                 | Observes RED light for both pumps illuminate.  |  |
| CUE        |                 |  |  |
| Comments   |                 |  |  |
|            |                 | GAT INGAT Commont Number   |  |
|            |                 | SAI UNSAI Comment Number   |  |
|            |                 |  |  |
| 2.1.3      |                 | IF RWCU is being used for RPV pressure control,  |  |
|            |                 | THEN Verify the Regen Hx and Filter Demin are bypassed.  |  |
|            |                 |  |  |
| Standard   |                 | Verifies RWCU is NOT being used for RPV pressure control.  |  |
| CUE        |                 | If asked, inform the examinee RWCU is not being used for RPV pressure control.                           |  |
| Comments   |                 |  |  |
|            |                 | SAT UNSAT Comment Number   |  |

|                        | CLINTON POWER STATION<br>SYSTEM JPM  |
|------------------------|--|
| JPM NUMBER: <u>B</u> . | .1.a.1 REVISION: <u>00</u>   |
| 2.1.4                  | Verify SLC solution injecting into the RPV by observing:   |
|                        | • SLC Strg Tank Level, 1C41-R601 lowering.   |
|                        | <ul> <li>SLC Pump Disch Header Press, 1C41-R600 is slightly &gt; RPV pressure<br/>and is &lt; 1400 psig.</li> </ul>      |
|                        | • Reactor power lowering.  |
| Standard               | Monitor Storage Tank level and observe level is lowering.<br>Verifies SLC pump discharge pressure id above RPV pressure. |
|                        | Verifies Reactor power is lowering.  |
| CUE                    |  |
| Comments               |  |
|                        | SAT UNSAT Comment Number   |

#### **TERMINATING CUES:**

Proper SLC initiation is verified and RWCU 1G33-F001 & F004 are closed.

STOP TIME:\_\_\_\_\_

#### **K/A REFERENCE NUMBERS**

#### Importance Rating

 $\frac{\text{K/A SYSTEM NUMBER}}{211000} \qquad \frac{\text{K/A NUMBER}}{\text{A4.06}} \qquad \frac{\text{RO}}{3.9} \qquad \frac{\text{SRO}}{3.9}$ 

Page 10 of 11

## JPM NUMBER: B.1.a.1

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**REVISION:** <u>00</u>

#### INITIATING CUE

The plant is in an ATWS condition. You are directed to initiate SLC per CPS 4411.10, SLC OPERATIONS.



| 4/12/02<br>Date        |
|------------------------|
| 5/4/02<br>Date         |
| <u>5/10/02</u><br>Date |
| <u>5/21/02</u><br>Date |
|                        |

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#### JPM NUMBER: 011245J005

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## JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

NOTE: All steps of this checklist should be performed upon initial validation. Prior to JPM usage, revalidate JPM using steps 8 through 11 below.

- 1. Task description and number, JPM description and number are identified.
- 2. Knowledge and Abilities (K/A) references are included.
- 3. Performance location specified. (in-plant, control room, or simulator)
  - 4. Initial setup conditions are identified.
    - 5. Initiating and terminating cues are properly identified.
      - 6. Task standards identified and verified by SME review.
    - 7. Critical steps meet the criteria for critical steps and are identified with an asterisk (\*).
    - 8. Verify the procedure referenced by this JPM matches the most current revision of that procedure: Procedure Rev. \_\_\_\_ Date \_\_\_\_\_
      - 9. Pilot test the JPM: a. verify cues both verbal and visual are free of conflict, and b. ensure performance time is accurate.
      - 10. If the JPM cannot be performed as written with proper responses, then revise the JPM.
        - 11. When JPM is revalidated, SME or Instructor sign and date JPM cover page.

| SME/Instructor | Date |
|----------------|------|
| SME/Instructor | Date |
| SME/Instructor | Date |

SME/Instructor

#### JPM NUMBER: 011245J005

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## **Revision Record (Summary)**

1. **Revision 03,** Revised to reflect PUR changes to 3004.01 Rev 22

## JPM NUMBER: 011245J005

**REVISION:** <u>03</u>

| Operator's Name:   |
|--|
| JPM Title:Synchronize the Main Generator to the Grid<br>JPM Number: 011245J005   |
| Revision Number: 03<br>Task Number and Title: 011245C005, Synchronize the Main Generator to the Grid   |
| K/A Number 245000.A4.02 Importance 3.1/2.9   |
| Suggested Testing Environment: Simulator   |
| Actual Testing Environment: 🗆 Simulator 🗅 Plant 🗅 Control Room   |
| Testing Method:       Simulate       Alternate Path / Faulted:       Yes       No         Perform       Perform                                    |
| Time Critical: 🛛 Yes 📕 No  |
| Estimated Time to Complete: <u>30</u> minutes Actual Time Used: minutes  |
| <b>References:</b> CPS No. 3004.01 TURBINE STARTUP AND GENERATOR<br>SYNCHRONIZATION<br>CPS No. 3105.05 GENERATOR                                   |
| <b>EVALUATION SUMMARY:</b><br>Were all the Critical Elements performed satisfactorily?  Yes  No  |
| The operator's performance was evaluated against the standards contained in this JPM, and has been determined to be:  Satisfactory  Unsatisfactory |
| Comments:  |
|  |
|  |
|  |
| Evaluator's Name:  |
| Evaluator's Signature: Date:   |

#### JPM NUMBER: 011245J005

#### READ TO THE OPERATOR

I will explain the initial conditions, which step(s) to simulate or discuss, and provide the initiating cues. When you complete the task successfully, the objective of this Job Performance Measure will be satisfied.

#### SIMULATOR SET-UP CONDITIONS:

- 1) Initialize in IC –21, Generator Ready to Sync, and Power is 12- 16%, make sure power is close to 16%
- 2) Lower grid voltage to 352 Kv
- 3) Need CPS No. 3004.01 completed through step 8.2.9.
- 4) Perform Generator startup per CPS No. 3105.05, sections 8.1.1 and 8.1.2 to prepare generator for syncronization.
  - a) Generator Gas Pressure Set at 45 psig to 50 psig or more
  - b) Field breaker closed with terminal voltage at ~22,000 volts.
  - c) Voltage Regulator controls in "Auto" and DC Regulator fully lowered
- 5) Filled out switching order.

#### TASK STANDARDS:

Synchronize the Main Generator to the Grid Demonstrate use of Core Work Practices.

## TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

None

#### **PROCEDURAL/REFERENCES**:

CPS No. 3004.01 TURBINE STARTUP AND GENERATOR SYNCHRONIZATION

#### **EVALUATOR INSTRUCTIONS:**

Amplifying cues are provided within the JPM steps. Evaluator provides switching order to Examinee. The switching order is kept in the CRS desk.

#### JPM NUMBER: 011245J005

#### INITIAL CONDITIONS AND INITIATING CUE:

- All steps up to and including 8.2.9 of CPS 3004.01 TURBINE STARTUP AND GENERATOR SYNCHRONIZATION are complete and signed off. Cooling water is available to the Turbine Lube Oil Coolers.
- CPS No. 3105.05 GENERATOR, section 8.1.1 and 8.1.2 are complete placing the Voltage Regulator in Automatic at ~22,000 terminal volts.
- Reactor power is between 12-16%.
- You are to synchronize the Main Generator to the Grid per the switching order and 3004.01.

START TIME: \_\_\_\_\_

#### JPM NUMBER: 011245J005

#### PERFORMANCE INFORMATION

Critical steps are denoted with an asterisk (\*) to the left of the step number and appear in **BOLDED** letters. Failure to meet the standards for a critical step constitutes failure of the Job Performance Measure. The sequence of steps is assumed unless denoted in the comments section of the JPM.

#### PERFORMANCE STEPS

CPS No. 3004.01 TURBINE STARTUP AND GENERATOR SYNCHRONIZATION 8.2.10 Generator Syncronization

| 8.2.10.1        | Turn off auto reclosures for breakers 4506 & 4510.                          |  |  |
|-----------------|---|--|--|
| Standard        | Directs the area operator to turn off reclosers for breakers 4506 and 4510. |  |  |
| CUE<br>Comments | Area operator reports reclosers are off for 4506 and 4510.                  |  |  |
|                 | SAT UNSAT Comment Number  |  |  |
| *8.2.10.2       | Open unit breakers 4506 and 4510.   |  |  |
| Standard        | Opens unit breakers 4506 and 4510.  |  |  |
| CUE<br>Comments | Operator should make PA announcements on equipment operation                |  |  |
|                 | SAT UNSAT Comment Number  |  |  |
| 8.2.10.3        | Locally verify breakers 4506 and 4510 open.                                 |  |  |
| Standard        | Instructs area operator to verify 4506 and 4510 open.                       |  |  |
| CUE<br>Comments | Area operator reports 4506 and 4510 are open                                |  |  |
|                 | SAT UNSAT Comment Number  |  |  |

## JPM NUMBER: 011245J005

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| 8.2.10.4                    | (Elec Maint to perform) Locally verify all three phases of the 345 Kv ring bus between breakers 4506 & 4510, and MOD 4508 are deenergized using the AB CHANCE SUPER TESTER (or equivalent) on the 100 - 800 Kv range. |
|-----------------------------|---|
| Standard                    | Instructs Electrical Maintenance to verify all three phases of 4506 and 4510, and MOD 4508 are deenergized using the AB Change Super Tester on the 100-800 Kv range.  |
| CUE                         | Electrical Maintenance reports all three phases of 4506 and 4510, and MOD 4508 are deenergized.   |
| Comments                    |   |
|                             | SAT UNSAT Comment Number  |
| 8.2.10.5                    | Locally engage the linkage for MOD 4508, and verify the MOD indicates fully open.   |
| Standard                    | Instruct area operator to engage the linkage for MOD 4508.<br>Verify the MOD indicates fully open.  |
| CUE<br>Comments             | Area operator reports the linkage for MOD 4508 is engaged.  |
|                             | SAT UNSAT Comment Number  |
| *8.2.10.6                   | Close MOD 4508 from the MCR.  |
| Standard<br>CUE<br>Comments | Close MOD 4508 from the MCR.  |
|                             | SAT UNSAT Comment Number  |
| 8.2.10.7                    | Locally verify MOD 4508 closed.   |
| Standard                    | Directs area operator to verify MOD 4508 closed.  |
| CUE<br>Comments             | Area operator reports MOD 4508 closed all three phases  |
|                             | SAT UNSAT Comment Number  |

## JPM NUMBER: 011245J005

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## \*8.2.10.8 Turn ON breaker 4510 (or 4506) Synch Switch.

| Standard        | Turns ON breaker 4510 (or | 4506) Synch Switch On . |
|-----------------|---------------------------|-------------------------|
| CUE<br>Comments | Bkr 4506 or 4510 may be u | sed interchangeably     |
|                 | SAT UNSAT Comr            | nent Number             |

#### NOTE

Steps 8.2.10.9 & 10 may be performed concurrently.

| 8.2.10.9        | Match Incoming Voltage to Running voltage.  |  |  |
|-----------------|---|--|--|
| Standard        | Incoming Voltage to Running voltage matched.  |  |  |
| CUE<br>Comments | Adjust voltage using RAISE/LOWER on AC Regulator.   |  |  |
|                 | SAT UNSAT Comment Number  |  |  |
| *8.2.10.10      | Adjust turbine speed using the Load Selector to establish a desired slow rotation in the fast direction on the synchroscope.                                    |  |  |
| Standard        | Synchroscope rotating slow in the fast direction. (Clockwise)   |  |  |
| CUE<br>Comments | Depress the INCREASE/DECREASE pushbuttons on the Load Selector.   |  |  |
|                 | SAT UNSAT Comment Number  |  |  |
| *8.2.10.11      | Close selected unit breaker 4510 (or 4506) as the synchroscope's pointer <u>nears</u> the vertical (~ 12 o'clock) position and the synchronizing lamps go dark. |  |  |
| Standard        | Both red lights "ON," 345kV Breaker 4510 (or 4506) closed.  |  |  |
| CUE<br>Comments | Breaker 4510 (or 4506) should be closed when the synchroscope pointer nears 12 o'clock. Also may verify position by red light on mimic P870.                    |  |  |
|                 | SAT UNSAT Comment Number  |  |  |

## JPM NUMBER: 011245J005

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# \*8.2.10.12 Raise generator load by selecting INCREASE on the Load Selector until bypass valves are shut and Load Set indication on 1H13-P678 is 500 MWe.

| Standard        | Raises generator load by selecting INCREASE on the Load Selector until bypass valves are shut and Load Set indication on 1H13-P678 is 500 MWe. |
|-----------------|--|
| CUE<br>Comments | This should be done quickly after closing breaker $4510$ (or $4506$ ) to minimize low load operation $< 50$ MWe on the Turbine Generator.      |

SAT UNSAT Comment Number

#### NOTE

Turbine EHC system is now on pressure control.

| 8.2.10.13                   | Turn OFF the unit breaker 4510 (or 4506) Synch Switch previously selected, and then, Turn ON the Synch Switch for the breaker that is open. |  |  |
|-----------------------------|---|--|--|
| Standard<br>CUE<br>Comments | Unit Bkr 4510 (4506) Synch Switch in OFF<br>Unit Bkr 4506 (4510) Synch Switch in ON   |  |  |
|                             | SAT UNSAT Comment Number  |  |  |
| 8.2.10.14                   | Verify the synchroscope is not moving and close the unit breaker 4506 (4510).   |  |  |
| Standard<br>CUE             | Verify both RED lights ON and GREEN light OFF for 4506 (4510)   |  |  |
| Comments                    | SAT UNSAT Comment Number  |  |  |
| 8.2.10.15                   | Turn OFF the selected Synch Switch.   |  |  |
| Standard                    | Turn OFF the selected Synch Switch.   |  |  |
| CUE<br>Comments             | Incoming and Running voltage meters go to zero.   |  |  |
|                             | SAT UNSAT Comment Number  |  |  |

## JPM NUMBER: 011245J005

| 8.2.10.16 | Turn auto reclosures for breakers 4506 and 4510 ON.   |  |
|-----------|---|--|
| Standard  | Directs area operator to turn auto reclosures for breakers 4506 and 4510 ON.  |  |
| CUE       | Area operator reports auto reclosures for breakers 4506 and 4510 are turned on.   |  |
| Comments  | SAT UNSAT Comment Number  |  |
| 8.2.10.17 | Notify the Electric Supply Dispatcher of the completed switching order.   |  |
| Standard  | Electric Supply Dispatcher is informed of the completed switching order.  |  |
| CUE       | As Electric Supply Dispatcher cue date and time reported executed on the switching order.<br>The operator should log the date and time. |  |
| Comments  | SAT UNSAT Comment Number  |  |

#### **TERMINATING CUES:**

The Main Generator is synchronized to the Grid with the Turbine Bypass valves closed.

STOP TIME:

## **K/A REFERENCE NUMBERS**

#### Importance Rating

| TALL ON OTTENA NUMBED | K/A NUMBER | RO  | <u>SRO</u> |
|-----------------------|------------|-----|------------|
| K/A SYSTEM NUMBER     | A4.02      | 3.1 | 2.9        |
| 243000                | A4.05      | 2.7 | 2.7        |

## JPM NUMBER: 011245J005

#### INITIATING CUE

- All steps up to and including 8.2.9 of CPS 3004.01 TURBINE STARTUP AND GENERATOR SYNCHRONIZATION are complete and signed off. Cooling water is available to the Turbine Lube Oil Coolers.
- CPS No. 3105.05 GENERATOR, section 8.1.1 and 8.1.2 are complete placing the Voltage Regulator in Automatic at ~22,000 terminal volts.
- Reactor power is between 12-16%.
- You are to synchronize the Main Generator to the Grid per the switching order and 3004.01.



| CLINTON POWER STATION |                                  |         |  |  |
|-----------------------|----------------------------------|---------|--|--|
|                       | Job Performance Measure          |         |  |  |
|                       |                                  |         |  |  |
|                       | IDM Number D 1 o 1               |         |  |  |
|                       |                                  |         |  |  |
|                       | Revision Number: 02              |         |  |  |
|                       | Date: 4/16/2002                  |         |  |  |
|                       |                                  |         |  |  |
| Developed By:         | D Antonelli                      | 4/16/02 |  |  |
|                       | Instructor                       | Date    |  |  |
| Validated By:         | T Pickley                        | 5/4/02  |  |  |
|                       | SME or Instructor                | Date    |  |  |
| Review By:            | P. O'Brien                       | 5/21/02 |  |  |
|                       | <b>Operations Representative</b> | Date    |  |  |
| Approved By:          | B. Price                         | 5/21/02 |  |  |
|                       | Training Department              | Date    |  |  |
|                       |                                  |         |  |  |

#### **JPM NUMBER**: 015200J024

**REVISION**: 2

#### JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

**NOTE:** All steps of this checklist should be performed upon initial validation. Prior to JPM usage, revalidate JPM using steps 8 through 11 below.

- \_\_\_\_ 1. Task description and number, JPM description and number are identified.
- 2. Knowledge and Abilities (K/A) references are included.
- 3. Performance location specified. (in-plant, control room, or simulator)
  - 4. Initial setup conditions are identified.
- 5. Initiating and terminating cues are properly identified.
  - 6. Task standards identified and verified by SME review.
  - 7. Critical steps meet the criteria for critical steps and are identified with an asterisk (\*).
  - Verify the procedure referenced by this JPM matches the most current revision of that procedure: Procedure Rev. \_\_\_\_ Date \_\_\_\_\_
  - 9. Pilot test the JPM:
     a. verify cues both verbal and visual are free of conflict, and
     b. ensure performance time is accurate.
    - 10. If the JPM cannot be performed as written with proper responses, then revise the JPM.
    - 11. When JPM is revalidated, SME or Instructor sign and date JPM cover page.

SME/Instructor

Date

SME/Instructor

Date

SME/Instructor

Date

JPM NUMBER: 015200J024

3

**REVISION**: <u>2</u>

## **Revision Record (Summary)**

1. **Revision 02**, Update to new procedure.

## JPM NUMBER: 015200J024

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**REVISION**: <u>2</u>

| Operator's Name:<br>Job Title:  |
|---|
| JPM Title:Defeating the Rod Pattern ControllerJPM Number:015200J024Revision Number:02Task Number and Title:015200C607 Defeating the Rod Pattern Controller per<br>CPS No. 4410.00C012 |
| K/A Number 201005.A2.04, Imp Importance 3.2/3.2   |
| Suggested Testing Environment: Control Room Simulation  |
| Actual Testing Environment: 🗅 Simulator 🗅 Plant 🗅 Control Room  |
| Testing Method:■SimulateAlternate Path / Faulted:□Yes■No□Perform  |
| Time Critical: 🛛 Yes 📕 No   |
| Estimated Time to Complete: 15 minutes Actual Time Used: minutes  |
| References:<br>4410.00 DEFEATING SYSTEM INTERLOCKS<br>4410.00C012 DEFEATING ATWS INTERLOCKS   |
| <b>EVALUATION SUMMARY:</b><br>Were all the Critical Elements performed satisfactorily?  |
| The operator's performance was evaluated against the standards contained in this JPM, and has been determined to be:  Satisfactory  Unsatisfactory                                    |
| Comments:   |
|   |
|   |
|   |
|   |
| Evaluator's Name:   |
| Evaluator's Signature: Date:  |

#### JPM NUMBER: 015200J024

#### READ TO THE OPERATOR

I will explain the initial conditions, which step(s) to simulate or discuss, and provide the initiating cues. When you complete the task successfully, the objective of this Job Performance Measure will be satisfied.

No equipment or controls will be manipulated during this evaluation, only **Simulated** Actions will occur.

#### SIMULATOR SET-UP CONDITIONS:

Not applicable

#### TASK STANDARDS:

The Rod Pattern Controller is defeated using 4410.00C012, DEFEATING ATWS INTERLOCKS.

## TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

EOP Tool Bag

#### PROCEDURAL/REFERENCES:

4410.00C012 DEFEATING ATWS INTERLOCKS

#### **EVALUATOR INSTRUCTIONS:**

Amplifying cues are provided within the JPM steps. Student will demonstrate knowledge of EOP tools, procedures and equipment location. Direct the examinee to the bottom drawer for training tools and equipment. Provide examinee the procedure.

## INITIAL CONDITIONS AND INITIATING CUE:

CAUTION

No equipment or controls will be manipulated during this evaluation, only **Simulated** Actions will occur.

You are directed to defeat the Rod Pattern Controller per CPS No. 4410.00C012.

START TIME: \_\_\_\_\_

JPM NUMBER: 015200J024

#### PERFORMANCE INFORMATION

Critical steps are denoted with an asterisk (\*) to the left of the step number and appear in **BOLDED** letters. Failure to meet the standards for a critical step constitutes failure of the Job Performance Measure. The sequence of steps is assumed unless denoted in the comments section of the JPM.

#### PERFORMANCE STEPS

## 4410.00C012 DEFEATING ATWS INTERLOCKS, 3.3, Defeating Rod Pattern Controller Div 1: 1H13-P661

## \*a) At panel 1H13-P661, Bay D, Row A11, Card 23 (RCIS, C11-N654A), ATM Trip Circuit 1, turn the SET adjustment screw CLOCKWISE 26 full turns.

| Standard | Correct   | location is id  | dentified.<br>ent screw located.  |   |
|----------|---|---|---|---|
|          | Set adju  | stment screv  | w is simulated turned clockwise 26 turns.   |   |
| CUE      | As exan<br>• On t<br>• Turr<br>• (after<br>26 f | ninee perform<br>he SET sdju<br>ning in direc<br>or demonstra | ms each task reply:<br>ist screw<br>tion<br>ting or stating he would perform 26 full turns state: |   |
| Comments | 201   |   |   |   |
|          | SAT   | UNSAT   | Comment Number  | - |

## JPM NUMBER: 015200J024

#### Div 2: 1H13-P662

## \*b) At panel 1H13-P662, Bay B, Row A11, Card 23 (RCIS, C11-N654B), ATM Trip Circuit 1, turn the SET adjustment screw CLOCKWISE 26 full turns.

| Standard | Correct location is identified.   |
|----------|---|
| CUE      | <ul> <li>Correct set adjustment screw located.</li> <li>Set adjustment screw is simulated turned clockwise 26 turns.</li> <li>As examinee performs each task reply:</li> <li>On the SET sdjust screw</li> <li>Turning in direction</li> <li>(after demonstrating or stating he would perform 26 full turns state:</li> <li>26 full turns completed</li> </ul> |
| Comments |   |

#### SAT UNSAT Comment Number

#### **TERMINATING CUES:**

The Rod Pattern Controller is reported defeated.

STOP TIME:

#### **K/A REFERENCE NUMBERS**

K/A SYSTEM NUMBER 201005 K/A NUMBER A2.04  $\frac{\text{Importance Rating}}{\frac{\textbf{RO}}{3.2}} \frac{\textbf{SRO}}{3.2}$ 

JPM NUMBER: 015200J024

**REVISION**: 2

#### **INITIATING CUE**

#### CAUTION

No equipment or controls will be manipulated during this evaluation, only **Simulated** Actions will occur.

You are directed to defeat the Rod Pattern Controller per CPS No. 4410.00C012.

|   | Exelin.<br>Nuclear       |
|---|--------------------------|
| CLINTON POWER STATION                                     |                          |
| Job Performance Measure                                   |                          |
| JPM Number: B.1.d.1                                       |                          |
| Revision Number: 01                                       |                          |
| Date: 05/016/2002   |                          |
| Developed By: <u>B. Price</u><br>Instructor               | _ <u>5/16/02</u><br>Date |
| Validated By: <u>L. Pickley</u><br>SME or Instructor      | _ <u>5/16/02</u><br>Date |
| Review By: <u>P. O'Brien</u><br>Operations Representative | _5/17/02<br>Date         |
| Approved By: <u>B. Price</u><br>Training Department       | <u>5/21/02</u> _<br>Date |

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#### CLINTON POWER STATION JOB PERFORMANCE MEASURE WORKSHEET

**JPM NUMBER**: 011288J005

**REVISION:**\_\_\_\_01

## JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

**NOTE:** All steps of this checklist should be performed upon initial validation. Prior to JPM usage, revalidate JPM using steps 8 through 11 below.

| <br><ol> <li>Task description and number, JPM description and number are<br/>identified.</li> </ol> |  |                    |  |
|---|--|--------------------|--|
| <br>2.  | <ol><li>Knowledge and Abilities (K/A) references are included.</li></ol>   |                    |  |
| <br>3.  | . Performance location specified. (in-plant, control room, or simulator)   |                    |  |
| <br>4.  | Initial setup conditions are identified.   |                    |  |
| <br><b>5</b> .  | Initiating and terminating cues are properly identified.   |                    |  |
| <br>6.  | . Task standards identified and verified by SME review.  |                    |  |
| <br>7.  | Critical steps meet the criteria for critical steps with an asterisk (*).  | and are identified |  |
| <br>8.  | Verify the procedure referenced by this JPM n<br>current revision of that procedure:<br>Procedure Rev Date         | natches the most   |  |
| <br>9.  | Pilot test the JPM:<br>a. verify cues both verbal and visual are free o<br>b. ensure performance time is accurate. | of conflict, and   |  |
| <br>10  | I0. If the JPM cannot be performed as written with proper responses, then revise the JPM.                          |                    |  |
| <br>11. When JPM is revalidated, SME or Instructor sign and date JPM cover page.                    |  |                    |  |
| SM  | 1E/Instructor  | Date               |  |
| SM  | 1E/Instructor  | Date               |  |
| SN  | /IE/Instructor   | Date               |  |

## CLINTON POWER STATION JOB PERFORMANCE MEASURE WORKSHEET

JPM NUMBER: 011288J005

5

## **Revision Record (Summary)**

1. **Revision 01** This is revision is due to new Exelon format.
|   |                      | JOB P              | (<br>ERF | CLIN'<br>'ORM   | TON<br>IANC      | POWER<br>E MEA     | R ST.<br>SUR | ATIO<br>E W | ON<br>ORF    | KSHI          | EET              | 61                   |
|---|----------------------|--------------------|----------|-----------------|------------------|--------------------|--------------|-------------|--------------|---------------|------------------|----------------------|
| JPM NUMBER: 01                                | 128                  | 8J005              |          |                 |                  |                    |              | RF          | EVIS         | ION           | N:               |                      |
| Operator's Name:                              | Operator's Name: SS# |                    |          |                 |                  |                    |              |             |              |               |                  |                      |
| Job Title:                                    |                      | NLO                |          | RO              |                  | SRO                |              | STA         |              | SRO           | O Cert           | t                    |
| JPM Title: Manual P                           | urge                 | e Opera            | tion     | of the          | e Cont           | trol Roo           | mΗ           | VAC         | C Sys        | tem           | (VC)             |                      |
| Task Number and Tit<br>(VC)                   | tle:                 | 011288             | C53      | 7 / Ma          | anual            | Purge C            | pera         | tion        | of th        | ne Co         | ontrol           | Room HVAC System     |
| Suggested Testing                             | Env                  | ironme             | nt:      | Simu            | lator            |                    |              |             |              |               |                  |                      |
| Actual Testing <b>B</b>                       | Envi                 | ronmei             | nt:      |                 | Sin              | nulator            | Ç            | ב           | Pl           | ant           | Q                | Control Room         |
| Testing Method:                               |                      | Simulat<br>Perform | e        | A               | Alterr           | Faulte<br>nate Pat | d: [<br>h: [ | ץ ב<br>ץ ב  | les<br>les   |               | ■ N<br>■ N       | 10<br>10             |
| Time Critical:                                | ים                   | Yes                |          | No              |                  |                    |              |             |              |               |                  |                      |
| Estimated Time to                             | Con                  | nplete:            | 10       | minu            | ites             | Actua              | l Tir        | ne U        | sed:         |               | r                | ninutes              |
| References: CPS N                             | Io. 3                | 402.01,            | , CO     | NTRO            | OL RO            | OOM H              | VAC          | C (VC       | C), S        | ectio         | on 8.2.          | 1                    |
| <b>EVALUATION SU</b><br>Were all the Critical | MM<br>Elei           | IARY:<br>ments p   | erfo     | rmed            | satisfa          | actorily?          | •            | C           | Y            | es            |                  | No                   |
| The operator's perfo<br>determined to be:     | rma                  | nce was            | s eva    | luated<br>Satis | l agai<br>sfacto | nst the s<br>ry    | tand         | ards<br>🖬 ( | cont<br>Unsa | aine<br>tisfa | d in th<br>ctory | is JPM, and has been |
| Comments:                                     |                      |                    |          |                 |                  |                    |              |             |              |               |                  |                      |
|   |                      |                    |          |                 |                  |                    |              |             |              |               |                  | ······               |
|   |                      |                    |          |                 |                  |                    |              |             |              |               |                  |                      |
| Evaluator's Name:                             |                      |                    |          |                 |                  |                    |              |             |              |               |                  |                      |
| Evaluator's Signatur                          | re: _                |                    |          |                 |                  | Da                 | ate:_        |             | ,            |               | <u>.</u> ,       | _                    |

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# CLINTON POWER STATION JOB PERFORMANCE MEASURE WORKSHEET

#### **JPM NUMBER**: 011288J005

**REVISION:** 01

#### READ TO THE OPERATOR

I will explain the initial conditions, which step(s) to simulate or discuss, and provide the initiating cues. When you complete the task successfully, the objective of this Job Performance Measure will be satisfied.

## SIMULATOR SET-UP CONDITIONS:

Initialize to any suitable IC, ensure a VC train is running in normal mode. Initiate PC103 for VC "A" and PC104 for VC "B" to OFF to trip off both VC chillers

#### TASK STANDARDS:

The VC System is running in the Manual Purge mode of operation.

# TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

None

#### **PROCEDURAL/REFERENCES:**

CPS No. 3402.01, CONTROL ROOM HVAC (VC), Section 8.2.1

#### **EVALUATOR INSTRUCTIONS:**

Amplifying cues are provided within the JPM steps. May be applied to either VC train

## INITIAL CONDITIONS AND INITIATING CUE:

Both VC Chillers are out of service. Control Room temperatures exceed outside air temperature. To prevent overheating NSPS panel, place the Control Room HVAC train in Manual Purge per CPS No. 3402.01, Section 8.2.1

START TIME:

## CLINTON POWER STATION JOB PERFORMANCE MEASURE WORKSHEET JPM NUMBER: 011288J005 REVISION: 01

## **PERFORMANCE INFORMATION**

Critical steps are denoted with an asterisk (\*) to the left of the step number and appear in **BOLDED** letters. Failure to meet the standards for a critical step constitutes failure of the Job Performance Measure. The sequence of steps is assumed unless denoted in the comments section of the JPM.

# PERFORMANCE STEPS

#### 8.2.1 Manual Purge Initiation

# NOTE 1) In the event both Control Room HVAC Trains cooling capability is lost, the Manual Purge Mode may be used to prevent NSPS panels from overheating, when Control Room temperature exceeds the outside air temperature. 2) During operation in the purge mode, Cooling Coil 0VC06AA(B) may auto blow down due to inlet air temperature ≤ 49°F. An auto blow down may spray equipment in the vicinity of the drain and complicate restoration of VC chilled water.

3) In the event of detection of smoke or products of combustion in the areas served by the Control Room HVAC system, the Manual Purge mode may be used to purge smoke from the control room.

# CLINTON POWER STATION

JOB PERFORMANCE MEASURE WORKSHEET 88J005 REVISION:

# JPM NUMBER: 011288J005

| 1         | IF   | Outside air temp is approaching $\leq 49^{\circ}$ F and time permits,  |  |  |  |  |  |  |
|-----------|------|--|--|--|--|--|--|--|
|           | THEN | Manually drain operating train Cooling Coil 0VC06AA(B) as follows:   |  |  |  |  |  |  |
|           | a)   | hut down chiller per section 8.1.4.  |  |  |  |  |  |  |
|           | b)   | Furn off operating Chilled Water Pump breaker, 0VC08PA at Cont Bldg MCC E1 (0AP54EA) or 0VC08PB at Cont Bldg MCC F1 (0AP55EA). |  |  |  |  |  |  |
|           | c)   | Close 0VC040A(B), Coil Inlet Isol and 0VC007A(B), Coil Outlet Isol.  |  |  |  |  |  |  |
|           | d)   | Open 0VC062A(B) and 0VC061A(B), Coil HP Vents.   |  |  |  |  |  |  |
|           | e)   | Open 0VC015A(B), Coil Drain and monitor drain flow   |  |  |  |  |  |  |
| STANDARD: | ; ]  | Does not direct shutdown of chiller and blowdown of cooling coil.  |  |  |  |  |  |  |
| CUE:      | 1    | If requested, cue the operator that outside air temperature is 65°F.   |  |  |  |  |  |  |
| COMMENTS  | :    |  |  |  |  |  |  |  |
|           |      | SAT UNSAT  |  |  |  |  |  |  |

\*2 Open 0VC05YA(B) and 0VC49YA(B), Cont Rm Purge and Max Intake Dmpr by placing Cont Rm Trn A(B) Prg Dmprs 0VC05YA/49YA(0VC05YB/49YB) control switches in the OPEN position for train in service.

STANDARD: Operator takes handswitch for 0VC05YA and 0VC49YA to OPEN and observes RED light ON for each damper.

CUE: COMMENTS:

SAT \_\_\_\_\_ UNSAT \_\_\_\_\_

01

| JPM NUMBE             | CLINT<br>JOB PERFORMA<br>C <b>R</b> : _011288J005                                | ON POWER STATION<br>ANCE MEASURE WORKSHE<br><b>REVISION</b>                   | ET<br>: 01                            |                        |  |  |
|-----------------------|--|---|---------------------------------------|------------------------|--|--|
| *3                    | Open 0VC48YA(B) and 0V<br>placing Cont Rm Trn A(B)<br>switch in the OPEN positio | C81YA(B), Cont Rm Max In<br>Prg Dmprs 0VC48YA/81YA<br>n for train in service. | take and Purge I<br>(0VC48YB/81YE     | Omprs by<br>B) control |  |  |
| STANDARD:             | Operator takes handsv<br>RED light ON for eac                                    | vitch for 0VC48YA and VC81Y<br>h damper.                                      | A to OPEN and                         | observes               |  |  |
| CUE:                  |  |   |                                       |                        |  |  |
| COMMENTS              | : This operation will ac ISOL DMPR A.  | tuate annunciator 5050-5L, CLO  | OSED CONT RO                          | OM HVAC                |  |  |
|                       |  | SAT   | UNSAT                                 |                        |  |  |
| 4                     | Verify 0VC04YA(B), Cont  | Rm Rtrn Air Dmpr is closed.   |                                       |                        |  |  |
| STANDARD              | : Operator verifies 0VC  | C04YA CLOSED by observing   | GREEN light ON                        | Γ.                     |  |  |
| CUE:                  |  |   |                                       |                        |  |  |
| COMMENTS              | 5:   |   |                                       |                        |  |  |
|                       |  | SAT   | UNSAT                                 |                        |  |  |
| TERMINAT              | ING CUES:  |   | · · · · · · · · · · · · · · · · · · · |                        |  |  |
| The V                 | C system is running in the Ma  | nual Purge mode of operation.   |                                       |                        |  |  |
| STOP                  | TIME:  |   |                                       |                        |  |  |
| K/A REFERENCE NUMBERS |  |   |                                       |                        |  |  |
| K/A SYSTE             | M NUMBER   | K/A NUMBER  | Importance Rati                       | ng<br>SRO              |  |  |
| 290003                |  | A2.01   | 3.1                                   | 3.2                    |  |  |
|                       |  |   |                                       |                        |  |  |

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# CLINTON POWER STATION JOB PERFORMANCE MEASURE WORKSHEET JPM NUMBER: 011288J005 REVISION: 01

# INITIATING CUE

Both VC Chillers are out of service. Control Room temperatures exceed outside air temperature. To prevent overheating NSPS panel, place the Control Room HVAC system in Manual Purge per CPS No. 3402.01, Section 8.2.1



| CLINTON POWER STATION |   |                        |  |  |  |
|-----------------------|---|------------------------|--|--|--|
|                       | Job Performance Measu                   | ıre                    |  |  |  |
|                       |   |                        |  |  |  |
|                       | JPM Number: B.1.e 1                     |                        |  |  |  |
|                       | Revision Number: 03                     |                        |  |  |  |
|                       | Date: 04/18/02                          |                        |  |  |  |
| Developed By:         | D Antonelli<br>Instructor               | <u>4/18/02</u><br>Date |  |  |  |
| Validated By:         | T Pickley<br>SME or Instructor          | <u>5/4/02</u><br>Date  |  |  |  |
| Review By:            | P. O'Brien<br>Operations Representative | <u>5/10/02</u><br>Date |  |  |  |
| Approved By:          | B. Price<br>Training Department         | <u>5/21/02</u><br>Date |  |  |  |

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# JPM NUMBER: 015200J004

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# **REVISION: 3**

# JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

**NOTE:** All steps of this checklist should be performed upon initial validation. Prior to JPM usage, revalidate JPM using steps 8 through 11 below.

|           | 1.   | Task description and number, JPM description identified.  | and number are     |  |  |  |
|-----------|--|---|--------------------|--|--|--|
|           | 2.   | Knowledge and Abilities (K/A) references are i  | ncluded.           |  |  |  |
|           | <ol> <li>Performance location specified. (in-plant, control room, or simulator)</li> </ol> |   |                    |  |  |  |
|           | 4.   | Initial setup conditions are identified.  |                    |  |  |  |
| <u></u>   | 5.   | Initiating and terminating cues are properly ide  | entified.          |  |  |  |
| . <u></u> | 6.   | Task standards identified and verified by SME   | review.            |  |  |  |
|           | 7.   | Critical steps meet the criteria for critical steps with an asterisk (*).   | and are identified |  |  |  |
| <u></u>   | 8.   | Verify the procedure referenced by this JPM n<br>current revision of that procedure:<br>Procedure Rev Date          | natches the most   |  |  |  |
|           | 9.   | Pilot test the JPM:<br>a. verify cues both verbal and visual are free of<br>b. ensure performance time is accurate. | of conflict, and   |  |  |  |
|           | 10.  | If the JPM cannot be performed as written with responses, then revise the JPM.                                      | n proper           |  |  |  |
|           | 11.  | When JPM is revalidated, SME or Instructor s cover page.  | ign and date JPM   |  |  |  |
|           | SM   | E/Instructor  | Date               |  |  |  |
|           | SM   | E/Instructor  | Date               |  |  |  |
|           | SMI  | E/Instructor  | Date               |  |  |  |

# JPM NUMBER: 015200J004

# REVISION: 3

# **Revision Record (Summary)**

1. Revision 03, JPM updated to new Exelon format.

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# JPM NUMBER: 015200J004

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# REVISION: 3

| Operator's Name:  |  |   |   |    |
|---|--|---|---|----|
| Job Title: $\Box RC$  | SRO  |   |   |    |
| JPM Title: Pressuri<br>JPM Number: 0152<br>Revision Number:0<br>Task Number and T       | ze the Containment<br>200J004<br>3<br>Fitle: 015200C504/ I | and Drywell Instrument A<br>Respond to a Loss of Instr          | ir Headers<br>ument Air   |    |
| K/A Number 30000  | 00 A4.01   | Importance  | 2.6/2.7   |    |
| Suggested Testing   | g Environment: Si  | mulator   |   |    |
| Actual Test   | ting Environment:  | 🗅 Simulator 🗅 Pla   | ant 📮 Control Room  |    |
| Testing Method:   | <ul><li>Simulate</li><li>Perform</li></ul>                 | Faulted: 🗇 Y<br>Alternate Path: 📮 Y                             | Yes ■ No<br>Yes ■ No  |    |
| Time Critical:  | 🗅 Yes 🔳 N  | o   |   |    |
| Estimated Time to   | o Complete: 20 m   | inutes Actual Time U  | sed: minutes  |    |
| References: CPS   | No. 3214.01, PLAN  | T AIR (IA & SA)   |   |    |
| <b>EVALUATION S</b><br>Were all the Critica<br>The operator's perf<br>determined to be: | UMMARY:<br>al Elements perform<br>formance was evalua<br>S | ed satisfactorily?<br>ated against the standards of atisfactory | Yes <b>I</b> No<br>contained in this JPM, and has bee<br>Jnsatisfactory | 'n |
| Comments:   |  |   |   |    |
|   |  |   |   |    |
|   |  |   |   |    |
|   |  |   |   |    |
| Evaluator's Name:   |  |   |   |    |
| Evaluator's Signat  | ure:   | Date:   |   |    |

#### JPM NUMBER: 015200J004

**REVISION:** 3

#### READ TO THE OPERATOR

I will explain the initial conditions, which step(s) to simulate or discuss, and provide the initiating cues. When you complete the task successfully, the objective of this Job Performance Measure will be satisfied.

#### SIMULATOR SET-UP CONDITIONS:

Initialize to any IC with IA & SA in service, Reactor Mode Switch in SHUTDOWN, Inboard MSIV's shut. Insert a manual scram Shut the Containment and Drywell IA INBD and OUTBD Isol Valves (1IA005 and 1IA008). Shut the Containment and Drywell IA INBD and OUTBD Isol Valves (1IA006 and 1IA007). Shut the ADS IA CNMT INBD Isol Valves (IA012B and IA013B).

#### TASK STANDARDS:

Containment and Drywell Instrument Air headers are pressurized.

## TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

None

#### **PROCEDURAL/REFERENCES**:

CPS 3214.01, PLANT AIR (IA & SA)

#### **EVALUATOR INSTRUCTIONS:**

Amplifying cues are provided within the JPM steps.

## INITIAL CONDITIONS AND INITIATING CUE:

An inadvertent isolation of the IA system in the containment has occurred, the isolation signal has been reset and the requirements for CPS No. 4001.02, AUTOMATIC ISOLATION, have been met. Restore air pressure in accordance with CPS 3214.01, Sect 8.1.2.5.

START TIME: \_\_\_\_\_

#### JPM NUMBER: 015200J004

#### **REVISION:** 3

#### PERFORMANCE INFORMATION

Critical steps are denoted with an asterisk (\*) to the left of the step number and appear in **BOLDED** letters. Failure to meet the standards for a critical step constitutes failure of the Job Performance Measure. The sequence of steps is assumed unless denoted in the comments section of the JPM.

#### **PERFORMANCE STEPS**

8.1.2.5

Pressurizing the Containment and Drywell Instrument Air Header

#### CAUTION

When Containment and Drywell Instrument Air is restored per 8.1.2.5.1, 1SA030, 031, & 032 will open if no isolation signal is present.

## NOTE

Valves 1IA005, 1IA006, 1IA007 and 1IA008 are all air operated air valves and receive their operating air from the upstream side. Valve 1IA005 must open before the downstream valves can open. There may be a slight delay from the time the valves are energized to open and they all actually indicate open.

# JPM NUMBER: 015200J004

# REVISION: 3

| *8.1.2.5.1 | <ul> <li>Open the following valves:</li> <li>a) 11A005, Containment IA Outbd Isol Valve 11A008, Drywell IA Hdr<br/>Inbd Isol Valve</li> <li>b) 11A006, Containment IA Inbd Isol Valve 11A007, Drywell IA Hdr<br/>Outbd Isol Valve.</li> </ul>   |
|------------|---|
| STANDARD:  | <ul> <li>The operator takes the hand switches for the above listed values to the open position.</li> <li>a) Red light is ON for 1IA005, Containment IA Outbd Isol Value Red light is ON for 1IA008, Drywell IA Hdr Inbd Isol Value</li> <li>b) Red light is ON for 1IA006, Containment IA Inbd Isol Value Red light is ON for 1IA007, Drywell IA Hdr Outbd Isol Value.</li> </ul> |
| CUE:       |   |
| COMMENTS:  | IA008 will not open until IA006 and IA007 are opened.   |
| SAT        | _UNSATComment Number  |
| *8.1.2.5.2 | Restore normal ADS air supply.  |
|            | <ul> <li>a) Shut 1IA013A and 1IA012A (CNMT Compress Gas Outbd Isol Vlvs).</li> <li>b) Open 1IA013B and 1IA012B (CNMT Compress Gas Inbd Isol Vlvs).</li> <li>c) Return the control switches for 1IA013A and 1IA012A to AUTO.</li> </ul>  |
| STANDARD:  | <ul> <li>Operator takes handswitches for 1IA013A and 1IA012A to CLOSE and observes</li> <li>a) GREEN light ON for 1IA013A, CNMT Compress Gas Outbd Isol Vlv</li> <li>b) GREEN light ON for 1IA012A, CNMT Compress Gas Outbd Isol Vlv</li> </ul>   |
|            | <ul> <li>Operator takes handswitches for 1IA013B and 1IA012B to OPEN and observes</li> <li>a) RED light ON for 1IA013A, CNMT Compress Gas Outbd Isol Vlv</li> <li>b) RED light ON for 1IA012A, CNMT Compress Gas Outbd Isol Vlv</li> </ul>  |
| CUE:       |   |
| COMMENTS:  |   |
|            | SAT UNSAT Comment Number  |

# JPM NUMBER: 015200J004

# REVISION: 3

| 8.1.2.5.3 | Verify proper operation of the Automatic Depressurization System (ADS) air amplifiers:   |  |  |  |  |  |  |  |
|-----------|--|--|--|--|--|--|--|--|
|           | <ul> <li>a) Verify Air Amplifiers are balanced. Adjust regulators to a minimum of 60 psig to maintain downstream pressure.</li> <li>b) Verify High/Low Press ADS IA Supply Div 1 or 2 (5040-6F) annunciator is clear.</li> </ul> |  |  |  |  |  |  |  |
| STANDARD: | Operator verifies High/Low Press ADS IA Supply Div 1 or 2 (5040-6F)<br>annunciator is clear.<br>Look at ADS air header pressure on 1H13-P601 Verify Air Amplifiers are<br>balanced   |  |  |  |  |  |  |  |
| CUE:      | balanced   |  |  |  |  |  |  |  |
| COMMENTS: |  |  |  |  |  |  |  |  |
|           | SATUNSATComment Number   |  |  |  |  |  |  |  |
| 8.1.2.5.4 | Verify proper operation of ADS Air Regulating Valves 1IA044A(B) as follows:  |  |  |  |  |  |  |  |
|           | a) Slowly Open 1IA096D(C), Low Point Drain and bleed off air.  |  |  |  |  |  |  |  |
|           | <ul> <li>b) Close HA096D(C).</li> <li>c) Verify ADS Air Regulating Valve 1IA044A(B) controls pressure between 135 and 165 psig.</li> </ul>   |  |  |  |  |  |  |  |
| STANDARD: | Operator direct area operator to complete above step.  |  |  |  |  |  |  |  |
| CUE:      | As area operator cue that air has been bled off and pressure is approximately 145 psig.  |  |  |  |  |  |  |  |
| COMMENTS: |  |  |  |  |  |  |  |  |
|           | SAT UNSAT Comment Number   |  |  |  |  |  |  |  |

REVISION: 3

#### TERMINATING CUES:

Containment and Drywell Instrument Air headers are pressurized.

# **STOP TIME:**

# **K/A REFERENCE NUMBERS**

|                   | Importance Rating |           |     |  |  |  |
|-------------------|-------------------|-----------|-----|--|--|--|
| K/A SYSTEM NUMBER | K/A NUMBER        | <u>RO</u> | SRO |  |  |  |
| 300000            | A4.01             | 2.6       | 2.7 |  |  |  |

Page 9 of 10

#### JPM NUMBER: 015200J004

#### **REVISION: 03**

#### **INITIATING CUE**

An inadvertent isolation of the IA system in the containment has occurred, the isolation signal has been reset and the requirements for CPS No. 4001.02, AUTOMATIC ISOLATION, have been met. Restore air pressure in accordance with CPS 3214.01, Sect 8.1.2.5.





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# JPM NUMBER: 011218J004

EXC:

**REVISION: 01** 

# JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

**NOTE:** All steps of this checklist should be performed upon initial validation. Prior to JPM usage, revalidate JPM using steps 8 through 11 below.

|   | <ol> <li>Task description and number, JPM description<br/>identified.</li> </ol>   | n and number are     |  |  |  |  |  |
|---|--|----------------------|--|--|--|--|--|
|   | 2. Knowledge and Abilities (K/A) references are  | included.            |  |  |  |  |  |
|   | <ol><li>Performance location specified. (in-plant, control room, or<br/>simulator)</li></ol>   |                      |  |  |  |  |  |
|   | 4. Initial setup conditions are identified.  |                      |  |  |  |  |  |
|   | 5. Initiating and terminating cues are properly identified.  |                      |  |  |  |  |  |
|   | <ol><li>Task standards identified and verified by SME</li></ol>  | E review.            |  |  |  |  |  |
|   | <ol> <li>Critical steps meet the criteria for critical steps<br/>with an asterisk (*).</li> </ol>  | s and are identified |  |  |  |  |  |
|   | <ol> <li>Verify the procedure referenced by this JPM r<br/>current revision of that procedure:<br/>Procedure Rev Date</li> </ol>                 | natches the most     |  |  |  |  |  |
|   | <ol> <li>Pilot test the JPM:</li> <li>a. verify cues both verbal and visual are free</li> <li>b. ensure performance time is accurate.</li> </ol> | of conflict, and     |  |  |  |  |  |
|   | 10. If the JPM cannot be performed as written with proper responses, then revise the JPM.  |                      |  |  |  |  |  |
|   | 11.When JPM is revalidated, SME or Instructor s cover page.  | sign and date JPM    |  |  |  |  |  |
| ξ   | SME/Instructor   | Date                 |  |  |  |  |  |
| <pre>classical control of the second se<br/>second second sec</pre> | SME/Instructor   | Date                 |  |  |  |  |  |
| ξ   | SME/Instructor   | Date                 |  |  |  |  |  |
|   |  |                      |  |  |  |  |  |
|   |  |                      |  |  |  |  |  |
| · · · · · · · · · · · · · · · · · · ·   |  | Page 2 of 10         |  |  |  |  |  |

# **JPM NUMBER: 011218J004**

# **REVISION: 01**

# **Revision Record (Summary)**

1. **Revision 01**, Update to new EOP revision and to provide simulator instructions for initial set up.

Page 3 of 10

# JPM NUMBER: 011218J004

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# **REVISION:** <u>01</u>

|   | Operator's Name:   |
|---|--|
|   | JPM Title:ADS Manual Initiation IAW EOP-3 (Faulted)JPM Number:011218J004Revision Number:01Task Number and Title:011218C524 ADS Manual Initiation IAW EOP-3   |
|   | K/A Number 218000.A4.01 Importance 4.4/4.4   |
|   | Suggested Testing Environment: Simulator   |
|   | Actual Testing Environment: 🗅 Simulator 🗅 Plant 🖵 Control Room   |
|   | Testing Method:□ Simulate Alternate Path / Faulted: ■ Yes □ No<br>■ Perform  |
|   | Time Critical: 🛛 Yes 📕 No  |
|   | Estimated Time to Complete: 10 minutes Actual Time Used: minutes   |
|   | References: EOP-3<br>CPS No. 3101.01 MAIN STEAM (MS, IS & ADS), Step 8.2.2   |
|   | EVALUATION SUMMARY:<br>Were all the Critical Elements performed satisfactorily?<br>The operator's performance was evaluated against the standards contained in this JPM,<br>and has been determined to be:<br>Satisfactory<br>Unsatisfactory |
|   | Comments:  |
|   |  |
|   |  |
|   | Evaluator's Name:  |
|   | Evaluator's Signature: Date:   |
| anna aitean dha dharan anna anna an 2000 an da anna an 2000<br>Bharachan ta anna an 2000 anna an 2000 anna an 2000 an 2000<br>Ainean an 2000 an 2000 an 2000 anna an 2000 an 2000<br>Bharachan an 2000 anna anna an 2000 an 2000 anna an 2000 an 2000 |  |
|   | Page 4 of 10   |

## JPM NUMBER: 011218J004

**REVISION:** 01

# READ TO THE OPERATOR

I will explain the initial conditions, which step(s) to simulate or discuss, and provide the initiating cues. When you complete the task successfully, the objective of this Job Performance Measure will be satisfied.

## SIMULATOR SET-UP CONDITIONS:

IC-1, 100% power with a normal systems lineup. Insert malfunctions, HP13D and HP13H (to 0%) to fail 2 SRV's 1B21-F041D and 1B21-F047A in the shut position.

Insert a manual SCRAM and complete operator actions to control level and secure the Turbine Generator after coasting down. Manually initiate a Group 1 isolation.

When reactor pressure and level is stable FREEZE the simulator. Verify Drywell Pressure is not near 1.68 psig.

Start the simulator when the operator is ready to perform the JPM.

TASK STANDARDS:

Operator actions performed per EOP-3, and CPS No. 3101.01 to Manually initiate ADS with 7 Safety Relief Valves opened.

# TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

None

#### **PROCEDURAL/REFERENCES:**

EOP-3

CPS No. 3101.01 MAIN STEAM (MS, IS & ADS), Step 8.2.2

#### **EVALUATOR INSTRUCTIONS:**

After completion of briefing take the simulator out of FREEZE. Amplifying cues are provided within the JPM steps.

#### JPM NUMBER: 011218J004

**REVISION: 01** 

#### INITIAL CONDITIONS AND INITIATING CUE:

The plant has been operating at full power for several months, when a leak occurs. The reactor is shutdown with all rods inserted. A Group 1 isolation has occurred and was verified as being successful.

The leak has increased temperature in 2 areas above the Max Safe Area Temperature Limits. The CRS has been using EOP-8 and is currently entering EOP-3.

The A CRO has control of Reactor Level.

The Containment Evacuation Alarm has been sounded.

The CRS directs you to Initiate ADS AND verify seven (7) SRVs valves opened.

**START TIME:** 

Page 6 of 10

# JPM NUMBER: 011218J004

**REVISION: 01** 

# **PERFORMANCE INFORMATION**

Critical steps are denoted with an asterisk (\*) to the left of the step number and appear in **BOLDED** letters. Failure to meet the standards for a critical step constitutes failure of the Job Performance Measure. The sequence of steps is assumed unless denoted in the comments section of the JPM.

# PERFORMANCE STEPS

EOP 3

Initiate ADS per 3101.01/ADS

• OK to exceed 100°F/hr cooldown.

| CPS   | 3101.01 8.2.2         | ADS Initiation (Aut   | o/Manual)                             |  |                                    |                      |
|---|-----------------------|---|---------------------------------------|--|------------------------------------|----------------------|
| *3.   | Manually<br>Ari<br>AD | / initiate ADS:<br>m and depress <u>all</u> f<br>S Div 1/2 Logic Að | our<br>&E/B&F Initiate                | push-buttons.                              |                                    |                      |
| Stand   | lard                  | Rotate collars and o<br>OR<br>Rotate collars and o                  | depress ADS Div<br>depress ADS Log    | 1, Logic A&E push<br>gic 2 B&F Initiate pu | -buttons<br>ash-buttons.           |                      |
| CUE   | ,<br>ments            | Logic will initiate i<br>Initiate push-buttor                       | if only ADS Div<br>ns are operated; h | 1 and/or 2 Logic A&                        | tE and/or B&F<br>equires all four. | in a game and a star |
|   |                       | SAT UNSAT   | Comment Nu                            | mber                                       |                                    |                      |
|   |                       |   |                                       |  |                                    |                      |
|   |                       |   |                                       |  |                                    |                      |
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# JPM NUMBER: 011218J004

**REVISION:** <u>01</u>

|   | EOP 3   |   | aari      |
|---|---|---|-----------|
|   |   | All 7 ADS valves open? Yes or No.   | AN COL    |
|   | CPS 3101.01   | 8.2.2 ADS Initiation (Auto/Manual)  |           |
|   | *4.   | Verify seven ADS valves open using as needed:   |           |
| referiçore, altançar<br>M   | na na ana amin'ny fanansa mademinina<br>Ny INSEE dia mampiasa   | SPDS     DCS Display 122 (2H) [A constitute Input]  | 1         |
| ngan Bargana (n. 1993), (h. 1993)<br>1996 - Anna Santa (n. 1993)<br>1997 - Anna Santa (n. 1993)   | ې کې د خونه ها کې   | <ul> <li>DCS Display 122 (21) [Acoustic Monitor Input]</li> <li>DCS Display 186 (7B) ['A' Solenoid Input]</li> </ul>  |           |
|   |   | <ul> <li>1H13-P601/P642 Solenoid Indicator Lights</li> </ul>  |           |
|   |   | • 1H13-P866, Valve Flow Monitor Control Panel (Channels 2, 4, 6, 9, 11, 13, 16)   |           |
|   |   | <ul> <li>IHI3-P614, ADS Safety Valve Temperature recorder IB21-K614 (Pts 1 - 7)</li> <li>Indirect indication via changes in RPV pressure RPV level MSL flows &amp;</li> </ul> |           |
|   |   | suppression pool temperatures.  |           |
| · · ·   |   |   |           |
|   | Standard  | Recognizes that all seven valves have not opened and reports.   |           |
|   | CUE   | As CRS acknowledge reports and tells examinee to proceed with the assigned task.  |           |
|   |   |   |           |
|   | Comments  | 1B21-F041D and 1B21-F047A failed to open due to malfunction.  |           |
|   |   | SAT UNSAT Comment Number  | 5.00      |
|   |   |   |           |
|   |   |   |           |
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|   |   | Page 8 of 10  |           |
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| , <b>•</b>   |  |   | CLINTO   | N POWER STATION  | te de la constante de la const<br>La constante de la constante de |  |
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| t survey   | JPM NUMB                                 | ER: 011218J004  | Ĺ  | 5 1 <u>5 1 Eivi</u> <u>31 ivi</u>  | RE  | VISION: <u>01</u>  |
|  | EOP 3                                    | Open other SRVs<br>• OK t   | s until a total to exceed 100  | of seven are open<br>°F/hr cooldown.   |   | a ay a sta   |
|  | CPS 3101.01<br>* <b>3.</b>               | 8.2.1 <u>SRV - 1</u><br>Place keylock sw<br>OFF to shut the   | Manual Operativitch(es) for SSRV.  | ation<br>SRV(s) to OPEN to ope   | n the SRV, <u>or</u> to A   | UTO or   |
|  |  | Verify SRV(s) 0j  | pen/shut as ap   | plicable using as needed   | :   |  |
|  |  | <ul> <li>SPDS</li> <li>DCS Disj</li> <li>DCS Disj</li> <li>1H13-P6</li> <li>1H13-P8</li> <li>1H13-P6</li> <li>1H13-P6</li> <li>Indirect in suppressi</li> </ul>                         | play 122 (2H)<br>play 186 (7B)<br>01/P642 Sole<br>66, Valve Flo<br>14, ADS Safe<br>ndication via<br>on pool temp | [Acoustic Monitor Inpu<br>['A' Solenoid Input]<br>noid Indicator Lights<br>w Monitor Control Pane<br>ty Valve Temperature re<br>changes in RPV pressure<br>eratures. | t]<br>l (Channels 2, 4, 6, 9<br>corder 1B21-R614<br>s, RPV level, MSL f   | 9, 11, 13, 16)<br>(Pts 1 - 7)<br>lows, &   |
|  | Standard                                 | Opens   | two more SR  | Ws for a total of 7 SRVs   | open. Determines<br>to the open position  | which valves<br>on.  |
|  | CUE                                      | Ackno   | owledge the re<br>nate the JPM   | eport of 7 SRVs open.  |   | atomatique alaberta anaque nature entre a construction e Destruction de la const   |
|  | Comments                                 | The oj<br>report<br>SAT   | perator should<br>back to the C<br>UNSAT   | l verify the opening of th<br>CRS.<br>Comment Number   | e two additional va   | ves and  |
|  | TERMINA                                  | TING CUES:  |  |  | ···· .  |  |
| ningan sanah sanah sanah<br>Migar sanah san<br>Migar sanah | When the op<br>SRVs are op               | perator verifies that<br>pen.   | a total of sev   | en (7) SRVs are open and   | l reports to the CRS  | that seven (7)   |
|  | STOP TIM                                 | E:  |  |  |   |  |
| * - ,  | , e <del>,</del> e ,                     |   | K/A RE   | FERENCE NUMBERS  |   |  |
| inar i i   | a da anti da anti da anti da antigar     | ne ingene beer Kommen van waar wat en gegene ingene hat wordt en een<br>Neer een gemeente op gegene dat de gegene | un un anno an ann an an an an an ann an ann an   |  | Importan  | ce Rating  |
|  | <u>K/A SYST</u><br>218000                | TEM NUMBER  | . 21   | <u>K/A NUMBEF</u><br>A4.01   | $\frac{\mathbf{RO}}{4.4}$   | $\frac{\mathbf{SRO}}{4.4}$   |
|  |  |   |  |  |   |  |
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|  | an a |   |  | an a   | i san shan daga san s   | Page 9 of 10   |

## **JPM NUMBER: 011218J004**

#### **INITIATING CUE**

The plant has been operating at full power for several months, when a leak occurs. The reactor is shutdown with all rods inserted. A Group 1 isolation has occurred and was verified as being successful.

The leak has increased temperature in 2 areas above the Max Safe Area Temperature Limits. The CRS has been using EOP-8 and is currently entering EOP-3.

The A CRO has control of Reactor Level.

The Containment Evacuation Alarm has been sounded.

The CRS directs you to Initiate ADS AND verify seven (7) SRVs valves opened.





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|  | <b>CLINTON</b> | POWER | STATION |
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SYSTEM JPM

011264J015

JPM NUMBER:

z

**REVISION:** 00

# JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

NOTE: All steps of this checklist should be performed upon initial validation. Prior to JPM usage, revalidate JPM using steps 8 through 11 below.

|          | 1. Task description and number, JPM description identified.  | and number are     |
|----------|--|--------------------|
|          | 2. Knowledge and Abilities (K/A) references are in   | ncluded.           |
| <u> </u> | 3. Performance location specified. (in-plant, contro<br>simulator)   | ol room, or        |
|          | 4. Initial setup conditions are identified.  |                    |
|          | 5. Initiating and terminating cues are properly ider   | ntified.           |
|          | 6. Task standards identified and verified by SME   | review.            |
|          | 7. Critical steps meet the criteria for critical steps with an asterisk (*).   | and are identified |
|          | <ol> <li>Verify the procedure referenced by this JPM m<br/>current revision of that procedure:</li> <li>Procedure Rev Date</li> </ol>          | atches the most    |
|          | <ol> <li>Pilot test the JPM:</li> <li>a. verify cues both verbal and visual are free of<br/>b. ensure performance time is accurate.</li> </ol> | f conflict, and    |
|          | 10. If the JPM cannot be performed as written with responses, then revise the JPM.   | proper             |
|          | _11.When JPM is revalidated, SME or Instructor si<br>cover page.   | gn and date JPM    |
|          | SME/Instructor   | Date               |
|          | SME/Instructor   | Date               |
|          | SME/Instructor   | Date               |
|          |  |                    |
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Page 2 of 13

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|---|---------------------------------------|--|---|--|
|   | JPM NUMBER:                           | 011264J015   | R   | EVISION: <u>00</u>   |
|   |                                       |  |   |  |
|   |                                       |  | ••<br>•   |  |
|   |                                       |  | an a  | an man an a   |
|   | Revision Record                       | l (Summary)  |   |  |
| ۰.  | 1. <b>Revision 00,</b>                | This is a new JPM  |   |  |
|   |                                       |  |   |  |
|   |                                       |  | ۵۰۰۰۰ میلی در ۲۰۰۰ ۲۰۰۰ و ویست به رویند کرد.<br>۱۹۹۰ میلی در ۲۰۰۰ ۲۰۰۰ و ویست به رویند کرد. |  |
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|   |                                       |  |   |  |
|   |                                       |  |   | Page 3 of 12   |

011264J015 **REVISION:** JPM NUMBER: 00 **Operator's** Name: Job Title: **RO SRO** JPM Title: Parallel DG 1B With Off Site Power JPM Number: RO B.1.g.1 **Revision Number:** 00 350601.05, Complete Control Room Actions to Perform Task Number and Title: Diesel Generator - Offsite Power Parallel Operation K/A Number 264000.A4.01 Importance 3.3/3.4Suggested Testing Environment: Simulator Actual Testing Environment: D Simulator D Plant D Control Room Alternate Path /Faulted: Yes 🖸 No **Testing Method:** □ Simulate Perform Time Critical: 
Yes No **Actual Time Used: Estimated Time to Complete: \_30** minutes minutes CPS 9080.01, DIESEL GENERATOR 1A(B) OPERABILITY -**References:** MANUAL AND QUICK START OPERABILITY, Revision 47, Section

8.2.13

| • JPM NUMBER:                                   | CLINTON POWER ST<br>SYSTEM JPM<br>011264J015    | ATION<br>REVISION: 00                                |  |
|---|---|--|--|
| <b>EVALUATION SU</b><br>Were all the Critical   | <b>MMARY:</b><br>Elements performed satisfactor | ily? 🖸 Yes 🗖 No                                      |  |
| The operator's perfor<br>and has been determine | rmance was evaluated against the ined to be:    | e standards contained in this JPM,<br>Unsatisfactory |  |
| Comments:                                       |   |  |  |
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| Evaluator's Name:                               |   |  |  |
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|   |   |  |  |
|   |   | Page 5 of 12   |  |

JPM NUMBER: 011264J015

## **REVISION:** 00

#### READ TO THE OPERATOR

I will explain the initial conditions, which step(s) to simulate or discuss, and provide the initiating cues. When you complete the task successfully, the objective of this Job Performance Measure will be satisfied.

#### SIMULATOR SET-UP CONDITIONS:

Initialize to the Temporary IC established for this JPM, OR,

Initialize to any suitable IC with DG in standby, and:

- Start Diesel Generator 1B
- Transfer 4160 V Bus 1B1 to the ERAT
- Load lesson plan to fail the voltage regulator switch to raise when the output breaker is shut.
- Turn off the reclosing relays for breaker 1372, at the South Bloomington Substation, and breaker 1372, at Clinton Route 54 Substation. (Not simulated)
- Synch Switch is off with key removed
- Mark up a copy of CPS 9080.01 to Step 8.2.13 for use by the examinee in performing this JPM.

Fill out a CPS 3506.01C002, DIESEL GENERATOR START LOG

#### TASK STANDARDS:

<u>Diesel Generator 1B output breaker has been reopened.</u>

# TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

None

#### PROCEDURAL/REFERENCES:

CPS No. 9080.01, DIESEL GENERATOR 1A(B) OPERABILITY - MANUAL AND QUICK START OPERABILITY, Revision 47, Section 8.2.13

#### **EVALUATOR INSTRUCTIONS:**

Amplifying cues are provided within the JPM steps.

#### **INITIAL CONDITIONS AND INITIATING CUE:**

Parallel Diesel Generator 1B with off-site power for a one hour run.

DG 1B was started per CPS 9080.01; Section 8.2 and steps are completed through Step 8.2.12.4. Begin at Step 8.2.13.

Report when task is completed.

#### **START TIME:**

Page 6 of 12

JPM NUMBER: 011264J015

# **PERFORMANCE INFORMATION**

Critical steps are denoted with an asterisk (\*) to the left of the step number and appear in **BOLDED** letters. Failure to meet the standards for a critical step constitutes failure of the Job Performance Measure. The sequence of steps is assumed unless denoted in the comments section of the JPM.

PERFORMANCE STEPS 8.2.13.2 For DG 1B, place the ERAT SVC in FREEZE. Directs an operator to opened the temporary Toggle Switch, installed at local Standard panel 1CZ02J. Verifies that the ERAT SVC FROZEN (5011-8G) annunciator actuates. The temporary Toggle Switch, at local panel 1CZ02J is open. CUE Comments SAT UNSAT Comment Number \*8.2.13.3 Place DG 1B Output BKR SYNC switch to ON position. Inserts a key and turns the Output BKR SYNC switch to ON Standard CUE Comments UNSAT Comment Number SAT 8.2.13.4 Adjust DG 1B voltage so that INCOMING voltage is slightly higher than **RUNNING** voltage Examinee adjusts DG 1B voltage regulator so that incoming voltage is Standard slightly higher than running voltage. CUE Comments **UNSAT** Comment Number SAT

|   |  | CLINTO<br>S   | N POWER S<br>YSTEM JPN   | TATION<br>I  |   |   |   |
|---|--|---|--|--|---|---|---|
| JPM NUM   | IBER: <u>011264J015</u>                    | ,   |  |  | REVISI  | ON: <u>00</u>   | 3   |
| 8.2.13.5  | Adjust<br>freque<br>1)<br>2)<br>3)         | DG 1A(1B) s<br>ncy as indicate<br>CLOCKWIS<br>approximatel<br>slower.<br>Both synchro<br>Both synchro | peed such the<br>ed by the follo<br>E rotation of<br>y one revolut<br>oscope lights<br>oscope lights   | at DG frequence<br>owing:<br>the synchrosco<br>ion every 60-1<br>are extinguishe<br>are brightly lit   | by is slightly groupe at a speed of<br>20 sec (i.e., 1/2<br>ed at the 12 o'cl<br>at the 6 o'clock | eater than bus<br>f<br>– 1 RPM) or<br>ock position.<br>a position.  |   |
| Standard  | Exami<br>slightl<br>• Sl<br>• Bo<br>• Bo   | nee adjusts D<br>y greater than<br>ow rotation in<br>oth synchrosco<br>oth synchrosco                 | G 1B governo<br>bus frequence<br>the clockwise<br>ope lights are<br>ope lights are   | or control swite<br>y by observing<br>e direction<br>extinguished a<br>brightly lit at t   | ch so DG freque<br>;:<br>t the 12 o'clock<br>he 6 o'clock   | ency is   |   |
| CUE   |  |   |  |  |   |   |   |
| Comment   | s SAT                                      | UNSAT   | Comment 1  | Number   |   |   | · · · · · ·                                     |
|   |  |   |  |  |   | e na huistean an a   |   |
| 8.2.13.6  | Start                                      | GETARS reco   | ording.  | n na senara se a companya se a sugar a senara se sugar se a sugar s<br>Senara se a sugar se a s  |   |   |   |
| Standard  | Exam                                       | inee requests   | that GETARS  | S be started.  |   |   |   |
| CUE   | GETA                                       | ARS is runnin   | g/recording.   |  |   | and a general state of the state of the second state of the | na generat des a substant des la construcción e |
| Commen  | ts<br>SAT                                  | UNSAT   | Comment  | Number   |   |   |   |
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#### TON DOWED STATION ~~ т.

| *8.2.13.7.1       WHEN the synchroscope's pointer nears the vertical (12 o'clock) position and the synchronizing lamps go dark, Close DG 1B Output Bkr.         Standard       When synchroscope pointer nears 12 o'clock, operator takes handswitch for DG 1B output breaker to CLOSE and observes RED light ON.         CUE       Comments         SAT       UNSAT         Comments       SAT         Standard       Examinee immediately loads diesel to at least >100 KW by taking governor control switch to RAISE.         CUE       Comments         SAT       UNSAT         Comments       SAT         UNSAT       Comment Number         8.2.13.7.2       Promptly load DG 1B to at least 100 - 200 KW.         Standard       Examinee immediately loads diesel to at least >100 KW by taking governor control switch to RAISE.         CUE       Comments         SAT       UNSAT         Standard       Examinee identifies VARs are too high. Tries to adjust and determines there is a problem with the voltage regulation.         CUE       Comments         SAT       UNSAT         Comments       SAT         SAT       UNSAT | JPM NUMBER: | 011264J015 REVISION: 00   |
|---|-------------|---|
| Standard       When synchroscope pointer nears 12 o'clock, operator takes handswitch for DG 1B output breaker to CLOSE and observes RED light ON.         CUE       SAT       UNSAT       Comment Number         8.2.13.7.2       Promptly load DG 1B to at least 100 - 200 KW.         Standard       Examinee immediately loads diesel to at least >100 KW by taking governor control switch to RAISE.         CUE       Comments       SAT         Verify VARs between -500 and +500 KVAR; adjust as necessary.         Standard       Examinee identifies VARs are too high. Tries to adjust and determines there is a problem with the voltage regulation.         CUE       Comments         SAT       UNSAT  | *8.2.13.7.1 | WHEN the synchroscope's pointer <u>nears</u> the vertical (12 o'clock)<br>position and the synchronizing lamps go dark, Close DG 1B Output Bkr. |
| CUE       SAT       UNSAT       Comment Number         8.2.13.7.2       Promptly load DG 1B to at least 100 - 200 KW.         Standard       Examinee immediately loads diesel to at least >100 KW by taking governor control switch to RAISE.         CUE       Comments         SAT       UNSAT         Comments       SAT         Verify VARs between -500 and +500 KVAR; adjust as necessary.         Standard       Examinee identifies VARs are too high.<br>Tries to adjust and determines there is a problem with the voltage regulation.         CUE       Comments         Standard       Examinee identifies VARs are too high.<br>Tries to adjust and determines there is a problem with the voltage regulation.  | Standard    | When synchroscope pointer nears 12 o'clock, operator takes handswitch for DG 1B output breaker to CLOSE and observes RED light ON.              |
| Comments       SAT       UNSAT       Comment Number         8.2.13.7.2       Promptly load DG 1B to at least 100 - 200 KW.         Standard       Examinee immediately loads diesel to at least >100 KW by taking governor control switch to RAISE.         CUE       Comments         SAT       UNSAT         Comments       SAT         Werify VARs between -500 and +500 KVAR; adjust as necessary.         Standard       Examinee identifies VARs are too high.<br>Tries to adjust and determines there is a problem with the voltage regulation.         CUE       Comments         SAT       UNSAT         Comments       SAT  | CUE         |   |
| 8.2.13.7.2       Promptly load DG 1B to at least 100 - 200 KW.         Standard       Examinee immediately loads diesel to at least >100 KW by taking governor control switch to RAISE.         CUE       Comments         SAT       UNSAT         Comments       SAT         Verify VARs between -500 and +500 KVAR; adjust as necessary.         Standard       Examinee identifies VARs are too high.         Tries to adjust and determines there is a problem with the voltage regulation.         CUE         Comments         SAT       UNSAT         Comments         Standard         Examinee identifies VARs are too high.         Tries to adjust and determines there is a problem with the voltage regulation.         CUE         Comments         SAT       UNSAT   | Comments    | SAT UNSAT Comment Number  |
| Standard       Examinee immediately loads diesel to at least >100 KW by taking governor control switch to RAISE.         CUE       Comments         SAT       UNSAT <b>Xerify VARs between -500 and +500 KVAR; adjust as necessary.</b> Standard       Examinee identifies VARs are too high.<br>Tries to adjust and determines there is a problem with the voltage regulation.         CUE       Comments         SAT       UNSAT         Comments       Sat   | 8.2.13.7.2  | Promptly load DG 1B to at least 100 - 200 KW.   |
| CUE         Comments       SAT UNSAT Comment Number         *8.2.13.7.3       Verify VARs between -500 and +500 KVAR; adjust as necessary.         Standard       Examinee identifies VARs are too high.<br>Tries to adjust and determines there is a problem with the voltage regulation.         CUE       Comments         SAT       UNSAT         Comments       SAT  | Standard    | Examinee immediately loads diesel to at least >100 KW by taking governor control switch to RAISE.   |
| Comments       SAT       UNSAT       Comment Number         *8.2.13.7.3       Verify VARs between -500 and +500 KVAR; adjust as necessary.         Standard       Examinee identifies VARs are too high.<br>Tries to adjust and determines there is a problem with the voltage regulation.         CUE  | CUE         |   |
| *8.2.13.7.3       Verify VARs between -500 and +500 KVAR; adjust as necessary.         Standard       Examinee identifies VARs are too high.         Tries to adjust and determines there is a problem with the voltage regulation.         CUE         SAT       UNSAT         Comments  | Comments    | SAT UNSAT Comment Number  |
| *8.2.13.7.3       Verify VARs between -500 and +500 K VAR; adjust as necessary.         Standard       Examinee identifies VARs are too high.         Tries to adjust and determines there is a problem with the voltage regulation.         CUE         Comments         SAT   |             | 700 1 200 IZX AD, adjust as poposenty   |
| Standard       Examinee identifies VARs are too high.         Tries to adjust and determines there is a problem with the voltage regulation.         CUE         Comments         SAT       UNSAT         Comment Number  | *8.2.13./.3 | Verify VARs between -500 and +500 KVAR, aujust as necessary.  |
| Tries to adjust and determines there is a problem with the voltage regulation.         CUE <u>Comments</u> SAT       UNSAT         Comment Number   | Standard    | Examinee identifies VARs are too high.  |
| CUE <u>Comments</u> <u>SAT UNSAT Comment Number</u>   |             | Tries to adjust and determines there is a problem with the voltage regulation.  |
| Comments SAT UNSAT Comment Number   | CUE         | •<br>• • •  |
|   | Comments    | SAT UNSAT Comment Number  |
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**....** 

JPM NUMBER: 011264J015

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# **REVISION:** 00

# **CAUTION**

DG Reactive (KVAR) loading shall be maintained within the limits of Appendix A, DG 1A(1B) REACTIVE LOAD CAPABILITY CURVE.

|                            |          | Notify SRO of voltage regulator problem   |
|----------------------------|----------|---|
|                            | Standard | Examinee notifies SRO of voltage regulator problem.   |
|                            | CUE      | Ask Examinee for suggested action<br>If ann. 5007-5m 4Kv Bus volts Hi alarm activates, then annunce it like as if<br>you ar the ACRO. |
|                            | Comments | Examinee should suggest unloading opening the DG output breaker.  |
|                            |          | SAT UNSAT Comment Number  |
|                            | 8.2.14.2 | Lower DG 1B load to 100 - 200 KW.   |
| anterioren er an andere er | Standard | Examinee takes handswitch for DG 1B governor control switch to LOWER  |
|                            | CUE      |   |
|                            | Comments | SAT UNSAT Comment Number  |
|                            | 8.2.14.3 | Adjust DG 1A(1B) VARs to $\approx 0$ KVAR   |
|                            | Standard | Examinee takes handswitch for DG 1B voltage regulator to LOWER  |
|                            | CUE      |   |
|                            | Comments | SAT UNSAT Comment Number  |
| •                                | DEVISIO                    | DEVISION. 00            |                                     |  |                                      |
|----------------------------------|----------------------------|-------------------------|-------------------------------------|--|--------------------------------------|
| · JPM NUMBER: _0                 | )11264J015                 |                         |                                     |  |                                      |
| *8.2.14.4                        | Open DG                    | 3 1B Outpu              | ıt Bkr                              |  |                                      |
| Standard                         | Examinee<br>GREEN l        | e takes hand<br>ight ON | dswitch for DG 1B output 1          | breaker to TRIP an                                 | d observes                           |
| CUE                              |                            |                         |                                     |  |                                      |
| Comments                         | SAT                        | UNSAT                   | Comment Number                      |  |                                      |
| TERMINATING C<br>DG 1B Outp      | CUES:<br>out Breaker is re | eopened.                |                                     |  |                                      |
| Once the DG 1B our               | tput breaker is            | reopened t              | erminate the JPM.                   |  |                                      |
| STOP TIME:                       |                            |                         |                                     |  |                                      |
| anna - 1777 Taffa a shik pasanna |                            | K/A REI                 | FERENCE NUMBERS                     |  |                                      |
|                                  |                            |                         |                                     |  | - Deting                             |
|                                  |                            |                         |                                     | Importanc  | e Rating                             |
| <u>K/A SYSTEM NU</u><br>264000   | UMBER                      |                         | <u>K/A NUMBER</u><br>A2.01<br>A4.01 | <u>RO</u><br>3.5<br>3.3                            | <u>SRO</u><br>3.6<br>3.4             |
| <u>K/A SYSTEM NI</u><br>264000   | <u>UMBER</u>               |                         | <u>K/A NUMBER</u><br>A2.01<br>A4.01 | ImportancRO3.53.3                                  | <u>SRO</u><br>3.6<br>3.4             |
| <u>K/A SYSTEM N</u><br>264000    | <u>UMBER</u>               |                         | <u>K/A NUMBER</u><br>A2.01<br>A4.01 | RO<br>3.5<br>3.3                                   | <u>SRO</u><br>3.6<br>3.4             |
| K/A SYSTEM N<br>264000           | UMBER                      |                         | K/A NUMBER<br>A2.01<br>A4.01        | Importanc<br><u>RO</u><br><u>3.5</u><br><u>3.3</u> | <u>e Rating</u><br><u>3.6</u><br>3.4 |

Page 11 of 12

JPM NUMBER: 011264J015

# **REVISION:** 00

# INITIATING CUE

Parallel Diesel Generator 1B with off-site power for a one hour run.

DG 1B was started per CPS 9080.01; Section 8.2 and steps are completed through Step 8.2.12.4.

Begin at Step 8.2.13.

Page 12 of 12

|               |                                  | <b>EXEIÚI</b><br>Nuclea |
|---------------|----------------------------------|-------------------------|
|               | CLINTON POWER STATI              |                         |
|               | Job Performance Measu            | re                      |
|               | JPM Number: B.2.a 1              |                         |
|               | Revision Number: 02              |                         |
|               | Date: 4/18/02                    |                         |
| Developed By: | D Antonelli<br>Instructor        | <u>4/18/02</u><br>Date  |
| Validated By: | T Pickley                        | 5/4/02                  |
|               | SME or Instructor                | Date                    |
| Review By:    | P. O'Brien                       | 5/10/02                 |
|               | <b>Operations Representative</b> | Date                    |
| Approved By:  | B. Price                         | 5/21/02                 |
| -             | Training Department              | Date                    |

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#### **JPM NUMBER: 011205J001**

## JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

**NOTE:** All steps of this checklist should be performed upon initial validation. Prior to JPM usage, revalidate JPM using steps 8 through 11 below.

- 1. Task description and number, JPM description and number are identified.
- 2. Knowledge and Abilities (K/A) references are included.
- 3. Performance location specified. (in-plant, control room, or simulator)
- \_ 4. Initial setup conditions are identified.
- 5. Initiating and terminating cues are properly identified.
  - 6. Task standards identified and verified by SME review.
  - 7. Critical steps meet the criteria for critical steps and are identified with an asterisk (\*).
    - 8. Verify the procedure referenced by this JPM matches the most
       current revision of that procedure:
      - Procedure Rev. \_\_\_\_ Date \_\_\_\_\_
    - Pilot test the JPM:
       a. verify cues both verbal and visual are free of conflict, and
       b. ensure performance time is accurate.
    - 10. If the JPM cannot be performed as written with proper responses, then revise the JPM.
    - 11. When JPM is revalidated, SME or Instructor sign and date JPM cover page.

| SME/Instructor | Date |
|----------------|------|
| SME/Instructor | Date |
| SME/Instructor | Date |

Page 2 of 14

# JPM NUMBER: 011205J001

# **REVISION: 02**

# Revision Record (Summary)

......

1. **Revision 02,** Revised to reflect new RSP procedure 4003.01C007 RSP - DIV 1 SUPPRESSION POOL COOLING OPERATION and reformat.

Page 3 of 13

# JPM NUMBER: 011205J001

# **REVISION: 02**

| Operator's Name:  |    |
|---|----|
|   |    |
| JPM Title: Suppression Pool Cooling From The Remote Shutdown Panel Per Cps            |    |
| $\frac{No. 4003.01C7 - FAULTED}{0.0112051001}$  |    |
| Revision Number: 02   |    |
| Task Number and Title: 011205C519 015200C503  |    |
| K/A Number 219000 A2.13 Importance 3.5 / 3.7  |    |
| Suggested Testing Environment: Simulator and Inplant to locate the panel only         |    |
| Actual Testing Environment: 🖸 Simulator 🗅 Plant 🗅 Control Room                        |    |
| Testing Method:□ Simulate Alternate Path / Faulted: ■ Yes □ No<br>■ Perform           |    |
| Time Critical: 🗆 Yes 🔳 No   |    |
| Estimated Time to Complete: 20 minutes Actual Time Used: minutes                      | 17 |
|   |    |
| Keterences:   |    |
| CPS No. 4003.01C007 RSP - DIV 1 SUPPRESSION POOL COOLING OPERATION                    |    |
| TATAT TI A TYANI CIINANA A DAZ.   |    |
| Were all the Critical Elements performed satisfactorily? $\Box$ Yes $\Box$ No         |    |
|   |    |
| The operator's performance was evaluated against the standards contained in this JPM, |    |
| and has been determined to be.  |    |
| Comments:   |    |
|   |    |
|   |    |
|   |    |
|   |    |
| Evaluator's Name:   |    |
| Deter   |    |
| Evaluator's Signature: Date:  |    |
|   |    |
|   |    |
|   |    |

## JPM NUMBER: 011205J001

**REVISION: 02** 

## READ TO THE OPERATOR

I will explain the initial conditions, which step(s) to simulate or discuss, and provide the initiating cues. When you complete the task successfully, the objective of this Job Performance Measure will be satisfied.

#### SIMULATOR SET-UP CONDITIONS:

- 1. Initialize to any suitable IC with RHR and SX in standby (IC-1).
- 2. Verify, at the RSP, that SSW Strainer 1A Outlet Pressure indicator C61-R503 is reading greater than 100 PSIG.
- 3. Instructor Override for 1E12-F024A:
  - a. Insert Instructor Override to maintain the Remote Shutdown Panel control switch for 1E12-F024A in CLOSE. (A17\_A01\_S19\_1 E12A-F024A\_CLOSE TRUE)
  - b. Have a pending action that will place the control switch for 1E12-F024A in OPEN.

## **TASK STANDARDS:**

RHR'A is running in the Suppression Pool Cooling mode from the Remote Shutdown Panel.

## **TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:**

None

#### **PROCEDURAL/REFERENCES:**

#### CPS No. 4003.01C007 RSP - DIV 1 SUPPRESSION POOL COOLING OPERATION

#### **EVALUATOR INSTRUCTIONS:**

Amplifying cues are provided within the JPM steps. Student will perform JPM actions on the simulator and will be required to locate the RSD panel during the inplant walk through.

## JPM NUMBER: 011205J001

## **INITIAL CONDITIONS AND INITIATING CUE:**

The plant is recovering from a transient that requires operation of RHR in the Suppression Pool Cooling Mode. An unsuccessful attempt was made to place RHR Div.1 in Suppression Pool Cooling from the MCR. The operator was able to align the valves. However, when a start of the RHR Pump was attempted the breaker failed to respond. The breaker did not close and no <u>starting</u> current or flow was observed.

The MCR intends to use RHR B for Shutdown Cooling within the next half hour.

As a licensed operator you are directed to proceed to the Remote Shutdown panel to assume control of the lost Suppression Pool Cooling function of RHR as permitted by 4003.01 REMOTE SHUTDOWN Section 4.1, MCR Evacuation NOT Required, Loss of Vital System Control ONLY. You are to place RHR Division 1 in Suppression Pool Cooling in accordance with 4003.01C007, DIV 1 SUPPRESSION POOL COOLING OPERATION.

START TIME: \_\_\_\_\_

## JPM NUMBER: 011205J001

**REVISION: 02** 

## **PERFORMANCE INFORMATION**

Critical steps are denoted with an asterisk (\*) to the left of the step number and appear in **BOLDED** letters. Failure to meet the standards for a critical step constitutes failure of the Job Performance Measure. The sequence of steps is assumed unless denoted in the comments section of the JPM.

## PERFORMANCE STEPS

# 4003.01C007 RSP - DIV 1 SUPPRESSION POOL COOLING OPERATION

4.2Verify 1E12-F004A, RHR A Suppression Pool Suction Valve handswitch is in OPEN.StandardConfirms 1E12-F004A is in OPEN.

CUE

Comments

|                 |                                   | -                        |  |  |
|-----------------|-----------------------------------|--------------------------|--|--|
| Comments        | SAT                               | UNSAT                    | Comment Number   |  |
| *4.3            | Verify/place folle                | owing transf             | fer switches to EMERG:                                       |  |
|                 | a)                                | C61-S6                   | e) C61-S12   |  |
|                 | b)                                | C61-S7                   | f) C61-HS502   |  |
|                 | c)                                | C61-S8                   | g) C61-HS510   |  |
|                 | <b>d</b> )                        | C61-S9                   |  |  |
| Standard<br>CUE | Transfe                           | er switches a            | re moved to the EMERG position.                              | an a suite suite<br>Suite suite suite<br>Suite suite suite suite |
| Comments        | SAT                               | UNSAT                    | Comment Number   | -  |
| 4.4             | Shut 1SX082A, F<br>RSP - DIV 1 SX | RHR Hx 1A D<br>OPERATION | Makeup Cond Inlet Valve per CPS No. 4003.01C005,<br>N (5.0). |  |
| Standard        | Refers                            | to 4003.01C              | 2005 Section 5.0   |  |
|                 |                                   |                          |  |  |

Comment Number

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# JPM NUMBER: 011205J001

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**REVISION:** <u>02</u>

| 4003.01C005 | , RSP - DIV 1 SX OPERATION   |
|-------------|--|
| Section 5.0 | OPERATING VALVES CONTROLLED BY MULTIPLE FUNCTION SWITCH,   |
| 5.1         | De-energize any open valves controlled by C61-HS507 that should remain open  |
| Standard    | Confirms that no breakers need to be opened.   |
| CUE         | Respond as CRS that 1SX082A RHR HX 1A MAKEUP COND INLET VLV is the only open valve.  |
| Comments    | SAT UNSAT Comment Number   |
| 5.2         | Use C61-HS507 to close the desired valve(s). Watch all valve indications to ensure tha only the selected valve(s) are closing.                       |
| Standard    | Operate C61-HS507 to close 1SX082A RHR HX 1A MAKEUP COND<br>INLET VLV and observes that it closes and the other valves listed above do<br>not close. |
| CUE         |  |
| Comments    | SAT UNSAT Comment Number   |
| 5.3         | When valve operation is complete, return any breakers turned off back to ON.   |
| Standard    | No action required   |
| CUE         |  |
| Comments    | SAT INSAT Comment Number   |

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|   |   | CLINTON POWER STATION  |
|---|---|--|
| <b>\$</b>   | JPM NUMB  | ER: <u>011205J001</u> REVISION: <u>02</u>                                |
|   | 4003.01C007   | RSP - DIV 1 SUPPRESSION POOL COOLING OPERATION                           |
|   | 4.5   | IF<br>THENSSW Strainer 1A Outlet Press, C61-R503 < 100 psig,             |
| ijenova na se | Standard  | Verifies that C61-R503 reads greater than 100 psig.                      |
|   | CUE   |  |
|   | Comments  | SAT UNSAT Comment Number   |
|   | *4.6  | Open 1E12-F014A, SSW Inlet RHR Hx A Valve.                               |
|   | Standard  | Operates control switch and observes Red light ON for 1E12-F014A         |
|   | CUE   |  |
|   | Comments  | SAT UNSAT Comment Number   |
|   | *4.7  | Open 1E12-F068A, RHR A Hx SSW Outlet Valve.                              |
|   | Standard  | Operates the control switch and observes the red light ON for 1E12-F068A |
|   | CUE   |  |
|   | Comments  | SAT UNSAT Comment Number   |
| ••••••••••••••••••••••••••••••••••••••            | 4.8   | Open 1E12-F003A, RHR A Hx Outlet Valve.                                  |
|   | Standard  | Verifies red light ON for 1E12-F003A                                     |
|   | CUE   |  |
|   | Comments  | Valve should already be OPEN.  |
|   |   | SAT UNSAT Comment Number   |
|   |   |  |
| an a          |   |  |
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# JPM NUMBER: 011205J001

**REVISION:** <u>02</u>

|   | 4.9      | Open 1E12-F047A, RHR A Hx Inlet Valve.                                   |  |
|---|----------|--|--|
|   | Standard | Operates the control switch and observes the red light ON for 1E12-F047A |  |
|   | CUE      |  |  |
| ಕ್ಷಣ್ಣ, ಕಟ್ಟಿಯಲ್ಲಿಯು ಬ್ಯಾಂಕ್ರಿ ಬಿಡ್ ನಿರ್ದೇಶ<br>ಕ್ಷೇ<br> | Comments | SAT UNSAT Comment Number   |  |
|   | *4.10    | Shut 1E12-F048A, RHR A Hx Bypass Valve.                                  |  |
|   | Standard | Holds control switch until green light ON for 1E12-F048A                 |  |
|   | CUE      |  |  |
|   | Comments | SAT UNSAT Comment Number   | ور بورد ارتم                             |
|   | 4.11     | Open 1E12-F064A, RHR Pump A Min Flow Recirc Valve.                       |  |
|   | Standard | Verifies red light ON for 1E12-F064A.                                    | an a |
|   | CUE      |  |  |
|   | Comments | Valve should already be OPEN.  |  |
| -   |          | SAT UNSAT Comment Number   |  |
|   | 4.12     | Open 1E12-F004A, RHR A Suppression Pool Suction Valve.                   |  |
|   | Standard | Verifies red light ON for 1E12- F004A.                                   |  |
|   | CUE      |  |  |
|   | Comments | Valve should already be OPEN.  |  |
|   |          | SAT UNSAT Comment Number   |  |
|   |          |  | 1.1.1                                    |
|   |          |  | بلعينمو                                  |
|   |          |  |  |

| · · · · · ·           |          | CLINTON POWER STATION<br>SYSTEM JPM  |
|-----------------------|----------|--|
| 1999 <b>- Ser</b> ang | JPM NUMB | ER: <u>011205J001</u> REVISION: <u>02</u>  |
|                       | *4.13    | Start RHR Pump A, 1E12-C002A.  |
|                       | Standard | Operates the control switch and observes red light ON for RHR Pump A and pump amps/min flow are indicated.   |
|                       | CUE      |  |
|                       | Comments | SAT UNSAT Comment Number   |
|                       | *4.14    | Open 1E12-F024A, RHR A Test Valve To Suppression Pool.   |
|                       | Standard | <ol> <li>Identifies and reports to CRS that 1E12-F024A will not open.</li> <li>Directs area operator check the circuit breaker.</li> </ol>   |
|                       | CUE      | 1. CRS advises RSP operator that the Area Operator is available in the area for support.   |
|                       |          | 2. If directed to check on and reset the breaker for 1E12-F024A:   |
|                       | Comments | <ul> <li>Report as Area Operator the breaker is tripped and you will reset it.</li> <li>Clear the Over Ride on 1E12-F024A, activate the pending action to open this valve and report that the breaker is now closed.</li> <li>If directed to Manually open 1E12-F024A:</li> <li>Clear the Over Ride on 1E12-F024A, activate the pending action to open this valve.</li> <li>Indicating lights for 1E12-F024A remain lit and valve will begin opening as soon as breaker is simulated reset (Override deleted), due to control power</li> </ul> |
|                       |          | being supplied from Remote Shutdown Panel.   |
|                       |          |  |

Page 11 of 13

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| ۰<br>۴ | •        |              | CI                          | LINTO]<br>S                                   | N POWER STATION                      |                         |     |
|--------|----------|--------------|-----------------------------|---|--------------------------------------|-------------------------|-----|
| \$     | JPM NUMB | ER: 01120    | <u>5J001</u>                | a tin na na na na kao minina pangina ya kaoni | an 1                                 | REVISION: <u>02</u>     |     |
|        | 4.16     | WHEN<br>THEN | RHR A flo<br>Shut 1E12-     | w≥11<br>F064A                                 | 00 gpm,<br>, RHR Pump A Min Flow     | Recirc Valve.           |     |
|        | Standard |              | Verifies RHR<br>GREEN light | flow><br>ON fo                                | 1100 gpm then SHUTS<br>r 1E12-F064A. | 1E12-F064A and verifies |     |
|        | CUE      |              | utanti a j                  |   | n e estanti e transferia.            |                         |     |
|        | Comments |              | SAT UN                      | SAT   | Comment Number                       |                         | 262 |
|        |          |              |                             |   |                                      |                         |     |

# **TERMINATING CUES:**

Examinee reports that RHR A is operating in the Suppression Pool Cooling mode from the Remote Shutdown Panel.

**STOP TIME:** 

## K/A REFERENCE NUMBERS

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| KAASNSORMONIIM BER | K/A NUMBER   | RO  | SRO   |   |
| 219000             | $= \frac{111110112211}{A2.13}$   | 3.5   | 3.7   |   |
| 295016             | AA 1.07  | 4.2   | 1.3*  |   |

## JPM NUMBER: 011205J001

**REVISION: 02** 

## INITIATING CUE

The plant is recovering from a transient that requires operation of RHR in the Suppression Pool Cooling Mode. An unsuccessful attempt was made to place RHR Div.1 in Suppression Pool Cooling from the MCR. The operator was able to align the valves. However, when a start of the RHR Pump was attempted the breaker failed to respond. The breaker did not close and no starting current or flow was observed.

The MCR intends to use RHR B for Shutdown Cooling within the next half hour.

As a licensed operator you are directed to proceed to the Remote Shutdown panel to assume control of the lost Suppression Pool Cooling function of RHR as permitted by 4003.01 REMOTE SHUTDOWN Section 4.1, MCR Evacuation NOT Required, Loss of Vital System Control ONLY. You are to place RHR Division 1 in Suppression Pool Cooling in accordance with 4003.01C007, DIV 1 SUPPRESSION POOL COOLING OPERATION.

Page 13 of 13



| (             | CLINTON POWER STATION                   |                        |
|---------------|---|------------------------|
|               | Job Performance Measure                 |                        |
|               | JPM Number: RO B2.b 1                   |                        |
|               | Revision Number: 01                     |                        |
|               | Date: 4/18/02                           |                        |
| Developed By: | D Antonelli<br>Instructor               | <u>4/18/02</u><br>Date |
| Validated By: | T. Pickley<br>SME or Instructor         | <u>5/4/02</u><br>Date  |
| Review By:    | P. O'Brien<br>Operations Representative | <u>5/10/02</u><br>Date |
| Approved By:  | B. Price                                | <u>5/21/02</u><br>Date |
|               |   |                        |

NRC SUBMITTAL COPY

Ner of

## CLINTON POWER STATION

SYSTEM JPM

#### JPM NUMBER: 041248J002

9

REVISION: 01

# JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

**NOTE:** All steps of this checklist should be performed upon initial validation. Prior to JPM usage, revalidate JPM using steps 8 through 11 below.

- 1. Task description and number, JPM description and number are identified.
  - 2. Knowledge and Abilities (K/A) references are included.
  - 3. Performance location specified. (in-plant, control room, or simulator)
- 4. Initial setup conditions are identified.
- 5. Initiating and terminating cues are properly identified.
- 6. Task standards identified and verified by SME review.
- 7. Critical steps meet the criteria for critical steps and are identified with an asterisk (\*).
- 8. Verify the procedure referenced by this JPM matches the most current revision of that procedure:
  - Procedure Rev. \_\_\_\_ Date \_\_
    - Pilot test the JPM: a. verify cues both verbal and visual are free of conflict, and b. ensure performance time is accurate.
- 10. If the JPM cannot be performed as written with proper responses, then revise the JPM.
- 11. When JPM is revalidated, SME or Instructor sign and date JPM cover page.

SME/Instructor

SME/Instructor

Date

Date

Date

SME/Instructor

JPM NUMBER: 041248J002

**REVISION:** <u>01</u>

# **Revision Record (Summary)**

1. **Revision 01,** Reformat and update to current procedures.

Page 3 of 9

| •   | CLINTON POWER STATION<br>SYSTEM JPM<br>JPM NUMBER: 041248J002 REVISION: 01  |
|---|---|
|   | Operator's Name:<br>Job Title:  |
| Normany Series as Successful and a series of the Series | JPM Title:Respond to Low Hydraulic Pressure on Steam Bypass EHCJPM Number:041248J002Revision Number:01Task Number and Title:041248C519, Respond to a low steam bypass electro-hydrauliccontrol system pressure  |
|   | K/A Number 241000.A2.06 Importance 3.1 / 3.2  |
| •   | Suggested Testing Environment: In Plant   |
|   | Actual Testing Environment: 🗅 Simulator 🗅 Plant 🗅 Control Room  |
|   | Testing Method:■ Simulate Alternate Path / Faulted: □ Yes ■ No<br>□ Perform   |
|   | Time Critical: 🛛 Yes 🔳 No   |
|   | Estimated Time to Complete: 15 minutes Actual Time Used: minutes  |
|   | References:   |
|   |   |
| •<br>•  | CPS No. 3105.04 STEAM BYPASS AND PRESSURE REGULATOR (SB)<br>CPS No. 5006.02-2L STEAM BYPASS AND PRESSURE REGULATING SYSTEM<br>HYDRAULIC POWER UNIT FAILURE  |
|   | CPS No. 3105.04 STEAM BYPASS AND PRESSURE REGULATOR (SB)<br>CPS No. 5006.02-2L STEAM BYPASS AND PRESSURE REGULATING SYSTEM<br>HYDRAULIC POWER UNIT FAILURE<br>EVALUATION SUMMARY:<br>Were all the Critical Elements performed satisfactorily?   |
|   | CPS No. 3105.04       STEAM BYPASS AND PRESSURE REGULATOR (SB)         CPS No. 5006.02-2L STEAM BYPASS AND PRESSURE REGULATING SYSTEM         HYDRAULIC POWER UNIT FAILURE         EVALUATION SUMMARY:         Were all the Critical Elements performed satisfactorily?         The operator's performance was evaluated against the standards contained in this JPM, and has been determined to be:         Satisfactory       Unsatisfactory  |
|   | CPS No. 3105.04       STEAM BYPASS AND PRESSURE REGULATOR (SB)         CPS No. 5006.02-2L STEAM BYPASS AND PRESSURE REGULATING SYSTEM         HYDRAULIC POWER UNIT FAILURE         EVALUATION SUMMARY:         Were all the Critical Elements performed satisfactorily?         Yes       No         The operator's performance was evaluated against the standards contained in this JPM, and has been determined to be:         Satisfactory       Unsatisfactory         Comments:   |
|   | CPS No. 3105.04       STEAM BYPASS AND PRESSURE REGULATOR (SB)         CPS No. 5006.02-2L STEAM BYPASS AND PRESSURE REGULATING SYSTEM         HYDRAULIC POWER UNIT FAILURE         EVALUATION SUMMARY:         Were all the Critical Elements performed satisfactorily?         Yes       No         The operator's performance was evaluated against the standards contained in this JPM, and has been determined to be:         Satisfactory       Unsatisfactory         Comments:   |
|   | CPS No. 3105.04       STEAM BYPASS AND PRESSURE REGULATOR (SB)         CPS No. 5006.02-2L STEAM BYPASS AND PRESSURE REGULATING SYSTEM         HYDRAULIC POWER UNIT FAILURE         EVALUATION SUMMARY:         Were all the Critical Elements performed satisfactorily?         Yes       No         The operator's performance was evaluated against the standards contained in this JPM, and has been determined to be:         Satisfactory       Unsatisfactory         Comments:   |
|   | CPS No. 3105.04       STEAM BYPASS AND PRESSURE REGULATOR (SB)         CPS No. 5006.02-2L STEAM BYPASS AND PRESSURE REGULATING SYSTEM         HYDRAULIC POWER UNIT FAILURE         EVALUATION SUMMARY:         Were all the Critical Elements performed satisfactorily?         Yes       No         The operator's performance was evaluated against the standards contained in this JPM, and has been determined to be:       Satisfactory         Comments:                          |
|   | CPS No. 3105.04       STEAM BYPASS AND PRESSURE REGULATOR (SB)         CPS No. 5006.02-2L STEAM BYPASS AND PRESSURE REGULATING SYSTEM         HYDRAULIC POWER UNIT FAILURE         EVALUATION SUMMARY:         Were all the Critical Elements performed satisfactorily?         Yes         No         The operator's performance was evaluated against the standards contained in this JPM, and has been determined to be:         Satisfactory       Unsatisfactory         Comments: |
|   | CPS No. 3105.04       STEAM BYPASS AND PRESSURE REGULATOR (SB)         CPS No. 5006.02-2L STEAM BYPASS AND PRESSURE REGULATING SYSTEM         HYDRAULIC POWER UNIT FAILURE         EVALUATION SUMMARY:         Were all the Critical Elements performed satisfactorily?         Yes       No         The operator's performance was evaluated against the standards contained in this JPM, and has been determined to be:       Satisfactory         Comments:                          |

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## JPM NUMBER: 041248J002

**REVISION:** 01

## READ TO THE OPERATOR

I will explain the initial conditions, which step(s) to simulate or discuss, and provide the initiating cues. When you complete the task successfully, the objective of this Job Performance Measure will be satisfied.

No equipment or controls will be manipulated during this evaluation, only **Simulated** Actions will occur.

## SIMULATOR SET-UP CONDITIONS:

Not Applicable

## TASK STANDARDS:

Restoration of HPU Hydraulic Pressure

#### **TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:**

Copy of CPS No. 5006.02-2L STEAM BYPASS AND PRESSURE REGULATING SYSTEM HYDRAULIC POWER UNIT FAILURE if requested by examinee.

## **PROCEDURAL/REFERENCES:**

CPS No. 3105.04 STEAM BYPASS AND PRESSURE REGULATOR (SB) CPS No. 5006.02-2L STEAM BYPASS AND PRESSURE REGULATING SYSTEM HYDRAULIC POWER UNIT FAILURE

## **EVALUATOR INSTRUCTIONS:**

Give the initiating cue at a location remote from the Hydraulic Skid so that they can demonstrate the ability to locate it in the plant.

Amplifying cues are provided within the JPM steps.

Provide the examinee a copy of CPS No. 5006.02-2L STEAM BYPASS AND PRESSURE REGULATING SYSTEM HYDRAULIC POWER UNIT FAILURE

## INITIAL CONDITIONS AND INITIATING CUE:

Plant is operating at near rated thermal power when Main Control Room alarm 5006-2L HPU TROUBLE actuates.

As the Area operator is directed to investigate the alarm.

**START TIME:** 

Page 5 of 9

## JPM NUMBER: 041248J002

**REVISION: 01** 

## **PERFORMANCE INFORMATION**

Critical steps are denoted with an asterisk (\*) to the left of the step number and appear in **BOLDED** letters. Failure to meet the standards for a critical step constitutes failure of the Job Performance Measure. The sequence of steps is assumed unless denoted in the comments section of the JPM.

**PERFORMANCE STEPS** 

| *Operator proceeds to the HPU on 762' Elevation of the Turbine Building.   |   |  |  |
|--|---|--|--|
| Standard   | Operator locates the HPU  |  |  |
| CUE<br>Comments  |   |  |  |
|  | SAT UNSAT Comment Number  |  |  |
| CPS No. 3105.04<br>8.3.2 Low Hydra<br>8.3.3  | STEAM BYPASS AND PRESSURE REGULATOR (SB)<br>aulic Pressure  |  |  |
| Determines that the state of th | he standby pump has not automatically started<br>Ianually start standby pump and check that it restores system pressure to 1500<br>700 psig.  |  |  |
| Standard   | Notes system pressure is $< 1300$ psig and starts the standby EHC pump.   |  |  |
| CUE  | When examinee looks at:   |  |  |
| · · · · · · · · · · · · · · · · · · ·  | <ul> <li>pressure instrument report that the running pump discharge pressure is -<br/>1100 psig.</li> </ul>   |  |  |
|  | • Low Hydraulic pressure light is ON.   |  |  |
|  |   |  |  |
|  | When the examinee investigates report that the standby pump is not running  |  |  |
|  | When the examinee investigates report that the standby pump is not running<br>If requested, respond that the running pump is not cavitating and the noise<br>level is less than normal.   |  |  |
|  | <ul> <li>When the examinee investigates report that the standby pump is not running If requested, respond that the running pump is not cavitating and the noise level is less than normal.</li> <li>If examinee reports to MCR requesting further instruction, ask what guidance is provided in 3105.04, direct the examinee to tell the MCR the actions that will be taken</li> </ul>  |  |  |
|  | <ul> <li>When the examinee investigates report that the standby pump is not running If requested, respond that the running pump is not cavitating and the noise level is less than normal.</li> <li>If examinee reports to MCR requesting further instruction, ask what guidance is provided in 3105.04, direct the examinee to tell the MCR the actions that will be taken</li> <li>When the standby pump start is simulated, report discharge pressure is 162. psig.</li> </ul> |  |  |
| Comments   | <ul> <li>When the examinee investigates report that the standby pump is not running If requested, respond that the running pump is not cavitating and the noise level is less than normal.</li> <li>If examinee reports to MCR requesting further instruction, ask what guidance is provided in 3105.04, direct the examinee to tell the MCR the actions that will be taken</li> <li>When the standby pump start is simulated, report discharge pressure is 162: psig.</li> </ul> |  |  |

| JPM NUME   | BER: 041248J002 REVISION: 01  |
|--|---|
| 2.   | Check hydraulic pump for the following problems:<br>1) Pump suction filters are dirty and need cleaning.  |
| Standard   | Locate suction strainer indicators.   |
| CUE  | Pointer is not indicating in the RED band   |
| Comments   | SAT UNSAT Comment Number  |
| 2.   | <ul><li>Check hydraulic pump for the following problems:</li><li>2) Pump discharge filter is dirty and needs replacing.</li></ul>   |
| Standard   | Locate discharge filter indication  |
| CUE  | High Filter "A" & "B" pressure drop is NOT energized  |
| Comments   | SAT UNSAT Comment Number  |
|  | - Check hydraulic nump for the following problems:  |
| 2.   | <ol> <li>Pump internal pressure compensator has failed as possibly indicated by pump<br/>running with no cavitation and little or no discharge pressure.</li> </ol>   |
| 2.<br>Standard   | <ul> <li>3) Pump internal pressure compensator has failed as possibly indicated by pump<br/>running with no cavitation and little or no discharge pressure.</li> <li>Inquires about noise level.</li> </ul>   |
| 2.<br>Standard<br>CUE  | <ul> <li>3) Pump internal pressure compensator has failed as possibly indicated by pump running with no cavitation and little or no discharge pressure.</li> <li>Inquires about noise level.</li> <li>Respond that the running pump is not cavitating and the noise level is less than normal.</li> <li>If condition is reported, respond as CRS and direct that the faulted pump be shutdown and terminate JPM.</li> </ul>   |
| 2.<br>Standard<br>CUE<br>Comments                                      | <ul> <li>Pump internal pressure compensator has failed as possibly indicated by pump running with no cavitation and little or no discharge pressure.</li> <li>Inquires about noise level.</li> <li>Respond that the running pump is not cavitating and the noise level is less than normal.</li> <li>If condition is reported, respond as CRS and direct that the faulted pump be shutdown and terminate JPM.</li> </ul>  |
| 2.<br>Standard<br>CUE<br>Comments                                      | <ul> <li>Pump internal pressure compensator has failed as possibly indicated by pump<br/>running with no cavitation and little or no discharge pressure.</li> <li>Inquires about noise level.</li> <li>Respond that the running pump is not cavitating and the noise level is less<br/>than normal.</li> <li>If condition is reported, respond as CRS and direct that the faulted pump be<br/>shutdown and terminate JPM.</li> </ul>  |
| 2.<br>Standard<br>CUE<br>Comments                                      | <ul> <li>Pump internal pressure compensator has failed as possibly indicated by pump<br/>running with no cavitation and little or no discharge pressure.</li> <li>Inquires about noise level.</li> <li>Respond that the running pump is not cavitating and the noise level is less<br/>than normal.</li> <li>If condition is reported, respond as CRS and direct that the faulted pump be<br/>shutdown and terminate JPM.</li> <li>SAT UNSAT Comment Number</li> <li>Check shut 1C85-FV01, Suppression Header Bypass.</li> </ul>  |
| 2.<br>Standard<br>CUE<br>Comments<br>3.<br>Standard                    | <ul> <li>Pump internal pressure compensator has failed as possibly indicated by pump<br/>running with no cavitation and little or no discharge pressure.</li> <li>Inquires about noise level.</li> <li>Respond that the running pump is not cavitating and the noise level is less<br/>than normal.</li> <li>If condition is reported, respond as CRS and direct that the faulted pump be<br/>shutdown and terminate JPM.</li> <li>SAT UNSAT Comment Number</li> <li>Check shut 1C85-FV01, Suppression Header Bypass.</li> <li>Locate 1C85-FV01</li> </ul>  |
| 2.<br>Standard<br>CUE<br>Comments<br>3.<br>Standard<br>CUE             | <ul> <li>3) Pump internal pressure compensator has failed as possibly indicated by pump<br/>running with no cavitation and little or no discharge pressure.</li> <li>Inquires about noise level.</li> <li>Respond that the running pump is not cavitating and the noise level is less<br/>than normal.<br/>If condition is reported, respond as CRS and direct that the faulted pump be<br/>shutdown and terminate JPM.</li> <li>SAT UNSAT Comment Number</li> <li>Check shut 1C85-FV01, Suppression Header Bypass.<br/>Locate 1C85-FV01</li> <li>Report that it is shut if position is checked.</li> </ul> |
| 2.<br>Standard<br>CUE<br>Comments<br>3.<br>Standard<br>CUE<br>Comments | <ul> <li>3) Pump internal pressure compensator has failed as possibly indicated by pump<br/>running with no cavitation and little or no discharge pressure.</li> <li>Inquires about noise level.</li> <li>Respond that the running pump is not cavitating and the noise level is less<br/>than normal.</li> <li>If condition is reported, respond as CRS and direct that the faulted pump be<br/>shutdown and terminate JPM.</li> </ul> SAT UNSAT Comment Number Check shut 1C85-FV01, Suppression Header Bypass. Locate 1C85-FV01 Report that it is shut if position is checked. SAT UNSAT Comment Number  |

## JPM NUMBER: 041248J002

**REVISION:** <u>01</u>

| Δ   |   |
|-----|---|
| - 7 | ÷ |

Check level in the reservoir at the Normal level mark  $\pm$  3 inches.

|   | Standard  | Locate  | reservoir leve                                  | el.  |   |   |   |
|---|---|---|---|--|---|---|---|
|   | CUE   | Report  | level is norm                                   | al.  |   |   |   |
|   | Comments  |   |   |  |   |   |   |
|   |   | SAT   | UNSAT   | Comment Number   |   |   |   |
|   | 5.  | Low hydraulic pro   | essure could                                    | be caused by air in the suct   | ion line or the pu  | mp.   |   |
|   |   | The pump<br>Check for l   | will usually s<br>eaks in suction               | ound louder than normal.<br>on piping.   |   |   |   |
|   | Standard  | Checks  | for air in the                                  | suction line or the pump   |   |   |   |
|   | CUE   | Respon<br>than no   | d that the run<br>rmal.                         | nning pump is not cavitating   | g and the noise le  | vel is less   |   |
|   | Comments  | SAT   | UNSAT   | Comment Number   |   |   |   |
|   | TERMINATI<br>Standby<br>reported<br>should d  | NG CUES:<br>pump is running v<br>l to the MCR. If the<br>direct the initial run | with normal r<br>he operator do<br>nning pump b | pressure verified, the initial<br>pes not secure the initial pu<br>pe secured. | pump is secured<br>mp prior to repor  | and problem is<br>ting the MCR  |   |
| a in a secondaria de la companya de  | STOP TIME:  | · · · · · · · · · · · · · · · · · · ·   |   |  | a a a a a a a a a a a a a a a a a a a   |   |   |
| negari (n. 1997)<br>Magnatari (n. 1997) - Francisco (n. 1997)<br>Magnatari (n. 1997) - Angatari (n. 1997)<br>Magnatari (n. 1997) - Angatari (n. 1997) | (a) A more than a second second<br>second second second<br>second second second<br>second second second<br>second second second<br>second second second<br>second second se | n an  | K/A REF   | ERENCE NUMBERS   | n an de la construir de la cons<br>La construir de la construir de<br>La construir de la construir de | n den en e   | origina (A.S. La<br>Maraka - Siran Tarina<br>Maraka - Siran Siran Siran |
|   |   |   |   |  | Importanc   | e Rating  |   |
|   | K/A SYSTE   | M NUMBER  |   | K/A NUMBER   | RO  | <u>SRO</u>  |   |
|   | 241000  |   |   | A2.06  | 3.1   | 3.2   |   |
|   |   |   |   |  |   |   |   |
| al <mark>ejet</mark> terijanje teri   | a an  | n en en anter anno en                       |   |  |   | an air an Airtheann an Airtheann an Airtheann an Airtheann a' Airtheann a' Airtheann a' Airtheann a' Airtheann<br>An an Airtheann a' Airtheann airtheann an Airtheann a' Airtheann a' Airtheann a' Airtheann a' Airtheann a' Airthe |   |
|   |   |   |   |  |   |   |   |
|   |   |   |   |  |   |   |   |
|   |   |   |   |  |   |   |   |

JPM NUMBER: 041248J002

ی در این از میرود در این بروی در میشوند به میشوند هم میشوند از میشوند. این در این از میرود در این برای کرده از مانیه میشوند میشوند از این میتواند از میتواند. **REVISION: 01** 

## **INITIATING CUE**

Plant is operating at near rated thermal power when Main Control Room alarm 5006-2L HPU TROUBLE actuates.

As the Area operator you are directed to investigate the alarm.

Page 9 of 9





NRC SUBMITTAL COPY

**JPM NUMBER**: 011264J001

**REVISION**: 02

# JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

**NOTE:** All steps of this checklist should be performed upon initial validation. Prior to JPM usage, revalidate JPM using steps 8 through 11 below.

| <u> </u> | Task description and number, JPM description identified.   | and number are     |
|----------|--|--------------------|
| 2.       | Knowledge and Abilities (K/A) references are i   | ncluded.           |
| 3.       | Performance location specified. (in-plant, contrained simulator)   | rol room, or       |
| 4.       | Initial setup conditions are identified.   |                    |
|          | Initiating and terminating cues are properly ide   | ntified.           |
| 6.       | Task standards identified and verified by SME  | review.            |
| 7.       | Critical steps meet the criteria for critical steps with an asterisk (*).  | and are identified |
| 8.       | Verify the procedure referenced by this JPM m  | natches the most   |
|          | Procedure Rev. Date  |                    |
| 9.       | Pilot test the JPM:<br>a. verify cues both verbal and visual are free o<br>b. ensure performance time is accurate. | f conflict, and    |
|          | . If the JPM cannot be performed as written with responses, then revise the JPM.                                   | n proper           |
| 11       | When JPM is revalidated, SME or Instructor si cover page.  | gn and date JPM    |
| SM       | E/Instructor   | Date               |
| SM       | E/Instructor   | Date               |
| SM       | E/Instructor   | Date               |

# JPM NUMBER: 011264J001

**REVISION**: 02

# **Revision Record (Summary)**

1. Revision 01, JPM updated to revision 28a of CPS No. 3506.01, DIESEL GENERATOR AND SUPPORT SYSTEMS

| •                        | C<br>JPM NUMBER: 011264J001  | CLINTON POWER STATION<br>SYSTEM JPM                           | REVISION                          |   |
|--------------------------|--|---|-----------------------------------|---|
|                          | Operator's Name:<br>Job Title: 🔲 NLO 📮   | RO 🗆 SRO 🗖 STA 🗖  | SRO Cert                          |   |
|                          | JPM Title: Perform an Alternate Shut<br>3506.01 (Faulted)<br>JPM Number: 011264J001<br>Revision Number: 02<br>Task Number and Title: 011264C523/ | down of the 1A Emergency Dies<br>Perform an Emergency Stop of | sel Generator IAW                 | <sup>7</sup> CPS No.  |
|                          | K/A Number: 264000.A3.03   | Import  | ance 3.4 / 3.4                    |   |
|                          | Suggested Testing Environment:   | Plant   |                                   |   |
|                          | Actual Testing Environment   | : 🗆 Simulator 🗆   | Plant 🛛                           | Control Room  |
| intan a bizzani bizinani | Testing Method: ■ Simulate<br>□ Perform  | Faulted: ■ Yes<br>Alternate Path: □ Yes                       | □ No<br>■ No                      |   |
|                          | 🥗 Time Critical: 🛛 Yes 🔳 🗎   | No  |                                   | na na na sana ang na  |
|                          | Estimated Time to Complete: 15   | minutes Actual Time Used:                                     | minutes                           | nan provinsi na provinsi n<br>La sela na provinsi na provi<br>Provinsi na provinsi na pro |
|                          | References: CPS No. 3506.01, DIES  | EL GENERATOR AND SUPPO  | ORT SYSTEMS                       |   |
|                          | <b>EVALUATION SUMMARY:</b><br>Were all the Critical Elements perform   | ned satisfactorily?   | es 🖬 No                           |   |
|                          | The operator's performance was evaludetermined to be:  | ated against the standards conta<br>Satisfactory Dusati       | iined in this JPM, i<br>isfactory | and has been  |
|                          | Comments:  |   |                                   | ining and a set of the providence of the set of the set<br>Initial providence of the set of the<br>   |
|                          |  |   |                                   |   |
|                          |  |   |                                   |   |
|                          | Evaluator's Name:  |   |                                   |   |
|                          | Evaluator's Signature:   | Date:   |                                   |   |
|                          |  |   |                                   |   |
|                          |  |   |                                   |   |
|                          |  |   |                                   | Page 4 of 11  |

**6**22.0

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## **JPM NUMBER**: 011264J001

**REVISION**: 02

## **READ TO THE OPERATOR**

I will explain the initial conditions, which step(s) to simulate or discuss, and provide the initiating cues. When you complete the task successfully, the objective of this Job Performance Measure will be satisfied.

No equipment or controls will be manipulated during this evaluation, only **Simulated** Actions will occur.

#### SIMULATOR SET-UP CONDITIONS:

Not Applicable.

#### TASK STANDARDS:

DG shutdown per CPS No. 3506.01.

## **TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:**

None to perform the task, Need a 3210 Key to unlock valve 1DO006A.

#### **PROCEDURAL/REFERENCES:**

CPS No. 3506.01, Diesel Generators and Support Systems, Section 8.4.4.1

#### **EVALUATOR INSTRUCTIONS:**

Amplifying cues are provided within the JPM steps. Faulted/alternate path JPM.

## **INITIAL CONDITIONS AND INITIATING CUE:**

The 1A Emergency Diesel Generator is operating unloaded and cannot be shutdown from the Main Control Room. The CRS has directed you, the local operator, to shutdown the diesel generator IAW CPS No. 3506.01.

#### **START TIME:**

Page 5 of 11

**JPM NUMBER**: 011264J001

**REVISION:** 02

## **PERFORMANCE INFORMATION**

Critical steps are denoted with an asterisk (\*) to the left of the step number and appear in BOLD letters. Failure to meet the standards for a critical step constitutes failure of the Job Performance Measure. The sequence of steps is assumed unless denoted in the comments section of the JPM.

**PERFORMANCE STEPS** 

8.4.4 Emergency Shutdown of a DG

| 8.4.4.1   | Stopping DGs Using Emergency Stop Push-button   |
|-----------|---|
| 1         | Depress Diesel Generator 1A Emergency stop push-button on local DG Control Panel  |
| STANDARD: | The Diesel Generator 1A "Emergency Stop" push-button is depressed.  |
| CUE:      | Diesel Generator 1A continues operating. (Annunciator, Lockout Relay Tripped<br>energized.) 86 LOR - Blue light is ON. 41R - red light is ON. |
|           | Diesel Generator is making load metallic noises, vibrating vigorously and has an  |

unusually loud rumbling noise.

## COMMENTS:

SAT\_\_\_\_UNSAT Comment Number

Page 6 of 11

|   | SVSTEM IPM   |
|---|--|
| JPM NUMBER:   | <u>011264J001</u> <b>REVISION</b> : <u>02</u>  |
| 8.4.4.2 Stopp   | ping DGs Using Fuel Racks  |
|   |  |
| – STANDARD:   | The operator determines that step 8.4.4.2 is not a viable option and that he should continue at 8.4.4.3  |
|   |  |
| CUE:  | There is <u>no other operator</u> available locally, DG 1A continues to "operate".   |
| - COMMENTS:   |  |
|   | SAT UNSAT Comment Number   |
|   | ·  |
|   |  |
|   |  |
| 8.4.4.3 Stopp   | ping DGs Using Overspeed Trip Devices  |
| 8.4.4.3 Stopp   | ping DGs Using Overspeed Trip Devices<br>NOTE:   |
| 8.4.4.3 Stopp   | noing DGs Using Overspeed Trip Devices<br>NOTE:<br>e following requires only 1 operator for DG 1A, and may be used provided  |
| 8.4.4.3 Stopp<br>The<br>no l  | NOTE:<br>e following requires only 1 operator for DG 1A, and may be used provided<br>hazard from the engine to the operator is suspected. (i.e., DG rupture)   |
| 8.4.4.3 Stopp<br>The<br>no l  | NOTE:<br>e following requires only 1 operator for DG 1A, and may be used provided<br>hazard from the engine to the operator is suspected. (i.e., DG rupture)   |
| 8.4.4.3 Stopp<br>The<br>no l  | NOTE:<br>e following requires only 1 operator for DG 1A, and may be used provided<br>hazard from the engine to the operator is suspected. (i.e., DG rupture)<br>The operator determines that step 8.4.4.3 is not a viable option and that he should<br>continue at 8.4.4.4.  |
| 8.4.4.3 Stopp<br>The<br>no 1<br>STANDARD:<br>CUE:   | NOTE:<br>e following requires only 1 operator for DG 1A, and may be used provided<br>hazard from the engine to the operator is suspected. (i.e., DG rupture)<br>The operator determines that step 8.4.4.3 is not a viable option and that he should<br>continue at 8.4.4.4.<br>May need to cue that the platforms on the D/G are shaking and appears to be   |
| 8.4.4.3 Stopp<br>The<br>no 1<br>STANDARD:<br>CUE:   | NOTE:<br>e following requires only 1 operator for DG 1A, and may be used provided<br>hazard from the engine to the operator is suspected. (i.e., DG rupture)<br>The operator determines that step 8.4.4.3 is not a viable option and that he should<br>continue at 8.4.4.4.<br>May need to cue that the platforms on the D/G are shaking and appears to be<br>UNSAFE.  |
| 8.4.4.3 Stopp<br>The<br>no 1<br>  | NOTE:<br>e following requires only 1 operator for DG 1A, and may be used provided<br>hazard from the engine to the operator is suspected. (i.e., DG rupture)<br>The operator determines that step 8.4.4.3 is not a viable option and that he should<br>continue at 8.4.4.4.<br>May need to cue that the platforms on the D/G are shaking and appears to be<br>UNSAFE.<br>If the operator contacts the MCR and reports the conditions, the CRS should tell<br>him to use his best judgement for the method selected to shutdown the DG  |
| 8.4.4.3 Stopp<br>The<br>no 1<br>- STANDARD:<br>CUE:   | NOTE:<br>e following requires only 1 operator for DG 1A, and may be used provided<br>hazard from the engine to the operator is suspected. (i.e., DG rupture)<br>The operator determines that step 8.4.4.3 is not a viable option and that he should<br>continue at 8.4.4.4.<br>May need to cue that the platforms on the D/G are shaking and appears to be<br>UNSAFE.<br>If the operator contacts the MCR and reports the conditions, the CRS should tell<br>him to use his best judgement for the method selected to shutdown the DG.   |
| <ul> <li>8.4.4.3 Stopp</li> <li>The no l</li> <li>STANDARD:</li> <li>CUE:</li> <li>COMMENTS:</li> </ul> | <ul> <li>bing DGs Using Overspeed Trip Devices</li> <li>NOTE:</li> <li>e following requires only 1 operator for DG 1A, and may be used provided hazard from the engine to the operator is suspected. (i.e., DG rupture)</li> <li>The operator determines that step 8.4.4.3 is not a viable option and that he should continue at 8.4.4.4.</li> <li>May need to cue that the platforms on the D/G are shaking and appears to be UNSAFE.</li> <li>If the operator contacts the MCR and reports the conditions, the CRS should tell him to use his best judgement for the method selected to shutdown the DG.</li> </ul>                    |
| <ul> <li>8.4.4.3 Stopp</li> <li>The no l</li> <li>STANDARD:</li> <li>CUE:</li> <li>COMMENTS:</li> </ul> | bing DGs Using Overspeed Trip Devices         NOTE:         e following requires only 1 operator for DG 1A, and may be used provided hazard from the engine to the operator is suspected. (i.e., DG rupture)         The operator determines that step 8.4.4.3 is not a viable option and that he should continue at 8.4.4.4.         May need to cue that the platforms on the D/G are shaking and appears to be UNSAFE.         If the operator contacts the MCR and reports the conditions, the CRS should tell him to use his best judgement for the method selected to shutdown the DG.         SAT UNSAT Comment Number            |
| 8.4.4.3 Stopp<br>The<br>no 1<br>STANDARD:<br>CUE:<br>COMMENTS:  | bing DGs Using Overspeed Trip Devices         NOTE:         e following requires only 1 operator for DG 1A, and may be used provided         hazard from the engine to the operator is suspected. (i.e., DG rupture)         The operator determines that step 8.4.4.3 is not a viable option and that he should         continue at 8.4.4.4.         May need to cue that the platforms on the D/G are shaking and appears to be         UNSAFE.         If the operator contacts the MCR and reports the conditions, the CRS should tell         him to use his best judgement for the method selected to shutdown the DG.         SAT |
| 8.4.4.3 Stopp<br>The<br>no 1<br>STANDARD:<br>CUE:<br>COMMENTS:  | bing DGs Using Overspeed Trip Devices         NOTE:         e following requires only 1 operator for DG 1A, and may be used provided hazard from the engine to the operator is suspected. (i.e., DG rupture)         The operator determines that step 8.4.4.3 is not a viable option and that he should continue at 8.4.4.4.         May need to cue that the platforms on the D/G are shaking and appears to be UNSAFE.         If the operator contacts the MCR and reports the conditions, the CRS should tell him to use his best judgement for the method selected to shutdown the DG.         SATUNSATComment Number              |
| 8.4.4.3 Stopp<br>The<br>no 1<br>STANDARD:<br>CUE:<br>COMMENTS:  | bing DGs Using Overspeed Trip Devices         NOTE:         e following requires only 1 operator for DG 1A, and may be used provided hazard from the engine to the operator is suspected. (i.e., DG rupture)         The operator determines that step 8.4.4.3 is not a viable option and that he should continue at 8.4.4.4.         May need to cue that the platforms on the D/G are shaking and appears to be UNSAFE.         If the operator contacts the MCR and reports the conditions, the CRS should tell him to use his best judgement for the method selected to shutdown the DG.         SATUNSAT Comment Number             |

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| CLINTON POWER STATION |
|-----------------------|
| SYSTEM JPM            |

REVISION: 02

8.4.4.4

Stopping DGs by Isolating Fuel Supply

NOTE

The following requires only 1 operator and may be used if a hazard exists to the operator from the engine or the previous methods did not work. It takes 1-2 minutes for the engine to starve of fuel oil.

| *1 T      | <b>Unlock and close the FO Day Tnk Supply to Engines for the applicable DG:</b>  |
|-----------|--|
|           | 1DO006A for DG 1A  |
| STANDARD: | The operator unlocks and closes the 1DO006A valve to shut off the fuel supply.   |
| CUE:      | Ask where would get the key.   |
|           | Valve is unlocked, valve handwheel is turned, valve closed.<br>Approximately 1 minute after closing the Day Tank Supply valve the engine<br>sputters, does a coastdown and then stops. |
| COMMENTS: | These valves are in the Day Tank Room and will require a standard operations key to unlock valve. They would be on the operator key ring or WCS would issue a key.                     |

| SAT | IINSAT | Comment Number |
|-----|--------|----------------|
| 5A1 |        |                |

| *2           | Close the following Air Receiver Outlet Isol Valves for the applicable DG:<br>• 1DG154 & 1DG155 for DG 1A.   |                         |                               |  |  |
|--------------|--|-------------------------|-------------------------------|--|--|
| STANDARD:    | Valves unlocked, then air receiver A/B outlet valves 1DG154 & 155 closed.<br>Lockwire removed, 1DG154 & 155 handles turned clockwise to be perpendicuto to the pipe. |                         |                               |  |  |
| CUE:         |  |                         |                               |  |  |
| COMMENTS     | These values are located on the Diesel Generator 1A Air Skid, and are the  |                         |                               |  |  |
| COMMENTS:    | These valves are located t   | in the Dieser Generator | IA Ali Skiu, aliu ale me Ali  |  |  |
| COMINEN 15:  | Receiver "A" (154) and "   | B" (155) Outlet Valves  | IA Ali Skiu, aliu are the Ali |  |  |
| COMMENTS:    | Receiver "A" (154) and "]  | B" (155) Outlet Valves  |                               |  |  |
| COMMULINI'S. | Receiver "A" (154) and "I<br>SAT   | B" (155) Outlet Valves  | Comment Number                |  |  |
| COMMULN 13.  | Receiver "A" (154) and "]  | B" (155) Outlet Valves  | Comment Number                |  |  |
|              | Receiver "A" (154) and "<br>SAT  | B" (155) Outlet Valves  | Comment Number                |  |  |
|              | Receiver "A" (154) and "<br>SAT  | B" (155) Outlet Valves  | Comment Number                |  |  |
| COMINIENTS.  | Receiver "A" (154) and "<br>SAT  | B" (155) Outlet Valves  | Comment Number                |  |  |
|              | Receiver "A" (154) and "<br>SAT  | B" (155) Outlet Valves  | Comment Number                |  |  |
|              | Receiver "A" (154) and "I  | B" (155) Outlet Valves  | Comment Number                |  |  |

## **JPM NUMBER**: 011264J001

**REVISION**: 02

# **TERMINATING CUES:**

Diesel Generator 1A has stopped operating and the operator actions performed per CPS No. 3506.01, Diesel Generator and Support Systems, Sections 8.4.4.1 and 8.4.4.4 are completed.

STOP TIME:

Page 9 of 11

JPM NUMBER: 011264J001

**REVISION**: \_\_\_\_02

# K/A REFERENCE NUMBERS

| n an | Importance Rating |     |            |   |
|--|-------------------|-----|------------|---|
| K/A SYSTEM NUMBER                        | K/A NUMBER        | RO  | <u>SRO</u> |   |
| 264000                                   | K4.01             | 3.5 | 3.7        |   |
| 264000                                   | K4.02             | 4.0 | 4.2        |   |
| 264000                                   | A3.03             | 3.4 | 3.4        | 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - |



Page 10 of 11

#### JPM NUMBER: 011264J001

## CLINTON POWER STATION SYSTEM JPM

### **REVISION: 02**

## CAUTION

No equipment or controls will be manipulated during this evaluation, only **Simulated** Actions will occur.

## **INITIATING CUE**

The 1A Emergency Diesel Generator is operating unloaded and cannot be shutdown from the Main Control Room. The CRS has directed you, the local operator, to shutdown the diesel generator IAW CPS No. 3506.01.

Control Room Systems and Facility Walk-Through Test Outline Form ES-301-2 ES-301 Facility: Clinton Power Station

Exam Level (circle one): RO / SRO(I) / SRO(U)

Date of Examination: 7/29/2002

Operating Test Number: ILT0101-2

B.1 Control Room Systems

|   | System / JPM Title  | Type<br>Code* | Safety<br>Function |  |  |
|---|---|---------------|--------------------|--|--|
| а.  | <b>Recirculation:</b> JPM 014202J001, Emergency Shutdown and Isolation of One RR Loop from Fast, K/A 202001.A4.01, Imp 3.7 / 3.7                        | S,D           | 1                  |  |  |
| b.  | Reactor Core Isolation Cooling: JPM 015200J011, Defeat Low<br>RCIC Supply Pressure Isolation, K/A 217000.A2.02, Imp 3.8 / 3.7                           | C,D,L         | 4                  |  |  |
| C.  | <b>Reactor Feedwater:</b> JPM 011259J001, Transfer Control of Feed<br>Reg. Valve 1FW004 to Startup Level, K/A 259002.A4.03, Imp 3.8<br>/ 3.6            | S,D,L         | 2                  |  |  |
| d.  | <b>A.C. Electrical Distribution:</b> JPM 011262J002, 4160 V Bus 1B1 from the main to the reserve source IAW 3501.01, K/A 262001.A1.02, Imp 3.1 / 3.5    | S,A           | 6                  |  |  |
| e.  | Local Power Range Monitor: JPM 011215J001, Bypass LPRM, K/A 215005.A4.04, Imp 3.2 / 3.2   | D,C           | 7                  |  |  |
| f.  | Standby Gas Treatment: JPM (NEW), Standby Gas Treatment (VG) trips upon Start, K/A 261000.A2.05, Imp 3.0 / 3.1  | N,S,A         | 9                  |  |  |
| g.  | Automatic Depressurization System: JPM (NEW), Initiate ADS Loss of Normal Instrument Air, Transfer to Alternate Source, K/A 218000.A2.03, Imp 3.4 / 3.6 | N,A,S,L       | 3                  |  |  |
| B.2   | Pacility Walk-Through   | <u> </u>      | <u> </u>           |  |  |
| a.  | Primary Containment: JPM 015200J082, Startup Hydrogen<br>Recombiner from Local Panel, K/A 223001.A2.04, Imp 3.7 / 3.8                                   | R,D,L         | 5                  |  |  |
| b.  | <b>Reactor Core Isolation Cooling:</b> JPM (NEW) RCIC Startup at the RSD Panel with Flow Controller Failure, K/A 217000.A2.10, Imp 3.1 / 3.1            | S,N,A         | 4                  |  |  |
| C.  | Fire Protection System: JPM 011268J009, Perform WS/FP<br>Crosstie to Feed the RPV, K/A 286000.A1.05, Imp 3.2 / 3.2                                      | M,R           | 2                  |  |  |
| * Ty<br>roo   | ype Codes: (D)irect from bank, (M)odified from bank, (N)ew, (A)lterr<br>m, (S)imulator, (L)ow Power, (R)CA  | ate path, (C  | )ontrol            |  |  |
| NRC SUBMITTAL COPY NURFG-1021 Revision & Supplement |   |               |                    |  |  |


### CLINTON POWER STATION

| O I O I LIVI JE IVI |  | S | YS | TE | Μ | JP | M |  |
|---------------------|--|---|----|----|---|----|---|--|
|---------------------|--|---|----|----|---|----|---|--|

# JPM NUMBER: 014202J001 REVISION: 06 JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

**NOTE:** All steps of this checklist should be performed upon initial validation. Prior to JPM usage, revalidate JPM using steps 8 through 11 below.

- 1. Task description and number, JPM description and number are identified.
- 2. Knowledge and Abilities (K/A) references are included.
- 3. Performance location specified. (in-plant, control room, or simulator)
- 4. Initial setup conditions are identified.
- 5. Initiating and terminating cues are properly identified.
- 6. Task standards identified and verified by SME review.
- 7. Critical steps meet the criteria for critical steps and are identified with an asterisk (\*).
- Verify the procedure referenced by this JPM matches the most current revision of that procedure: Procedure Rev. \_\_\_\_\_ Date \_\_\_\_\_
- 9. Pilot test the JPM:
  - a. Verify cues both verbal and visual are free of conflict, and
  - b. Ensure performance time is accurate.
- 10. If the JPM cannot be performed as written with proper responses, then revise the JPM.
- 11. When JPM is revalidated, SME or Instructor sign and date JPM cover page.

| SME / Instructor – Signature / Printed | Date |
|--|------|
| SME / Instructor – Signature / Printed | Date |
| SME / Instructor – Signature / Printed | Date |

# JPM NUMBER: <u>014202J001</u> Revision Record (Summary)

# **REVISION:** <u>06</u>

| Revision | Date       | Description  |
|----------|------------|--|
| 00       | Unknown    | Unknown  |
|          | Unknown    | Unknown  |
| 02       | Unknown    | Unknown  |
| 03       | Unknown    | Unknown  |
| 04       | Unknown    | Unknown  |
| 05       | 07/25/2001 | JPM reviewed and revised to update to new Exelon format. |
| 06       | 04/12/2002 | Revised due to procedure changes.                        |



# CLINTON POWER STATION

| PM NUMBER:014202J001  | REVISION: 06   |
|---|--|
| perator's Name:   |  |
| ob Title: 🗆 NLO 🔲 RO  | SRO STA SRO Cert.  |
| PM Title:Emergency Shutde<br>Loop from Fast SpPM Number:014202J001evision Number:06ask Number and Title:014202C514 / EmRecirculation LoopRecirculation Loop | own and Isolation of One Reactor Recirculation<br>peed per CPS 3302.01<br>nergency Shutdown and Isolation of One Reactor<br>on from Fast Speed |
| A Number 202001 A4.01<br>202001 A4.02<br>202001 A4.05   | Importance 3.7 / 3.7<br>Importance 3.5 / 3.4<br>Importance 3.3 / 3.3   |
| aggested Testing Environment: Sim   | ulator   |
| ctual Testing Environment:  | nulator 🗌 Plant 🗌 Control Room   |
| Simulate  | Alternate Path / Faulted: 🗌 Yes 🔳 No   |
| Perform   |  |
| 'ime Critical: 🗌 Yes 🔳 No   |  |
| Stimated Time to Complete: 15 minute  | Actual Time Used: minutes  |
| eferences: CPS 3302 01 Reactor Recir  | culation (RR)  |
| WATHATION CUMMADY.  |  |
| VALUATION SUMMARY:  | tisfactorily? 🗌 Ves 🔲 No   |
| 'he operator's performance was evaluated ag<br>een determined to be:  | gainst the standards contained in this JPM, and has isfactory  |
| Comments:   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   | ······   |
|   |  |
| Evaluator's Name:   | · · · · · · · · · · · · · · · · · · ·  |
|   |  |
| valuator's Signature:   | Date:  |

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JPM NUMBER: \_\_014202J001

### **REVISION: 06**

### **READ TO THE OPERATOR**

I will explain the initial conditions, which step(s) to simulate or discuss, and provide the initiating cues. When you complete the task successfully, the objective of this Job Performance Measure will be satisfied.

#### SIMULATOR SET-UP CONDITIONS:

- 1. Initialize to any suitable full power IC (IC-1) with RR Pumps in fast speed and rod line such that a single RR Pump trip does not cause entry into the Restricted Zone, Exit Region, or Controlled Entry Region.
- 2. Load Remote LC103 to shut 1C11-F026B using a remote or manual trigger.
- 3. Insert RR06C, RR Pump "B" Seal B1 Failure, 100%.
- 4. Insert RR06D, RR Pump "B" Seal B2 Failure, 50% with 5 minute ramp, then take the simulator out of FREEZE.
- 5. Start mixing compressor(s) and maintain DW pressure between 0.3 and 1.0 psig.
- 6. Freeze the simulator when Drywell pressure is approximately 0.6 psig.

#### **TASK STANDARDS:**

• Reactor Recirculation Pump B shutdown and the "B" Loop of RR System isolated.

#### TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

None

#### **PROCEDURAL/REFERENCES:**

CPS 3302.01, Reactor Recirculation (RR)

#### **EVALUATOR INSTRUCTIONS:**

Amplifying cues are provided within the JPM steps. Take simulator out of FREEZE after examinee acknowledges the initiating cue.

### INITIAL CONDITIONS AND INITIATING CUE:

The plant is operating at 100 % power. The Reactor Recirculation Pump "B" outer seal has failed and the inner seal is failing. The CRS has directed you to perform an Emergency Shutdown and Isolation of the "B" Reactor Recirculation Loop. Report when you have completed the task.

**START TIME:** 

# JPM NUMBER: \_\_014202J001

**REVISION: 06** 

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# **PERFORMANCE INFORMATION**

Critical steps are denoted with an asterisk (\*) to the left of the step number and appear in **BOLDED** letters. Failure to meet the standards for a critical step constitutes failure of the Job Performance Measure. The sequence of steps is assumed unless denoted in the comments section of the JPM.

# PERFORMANCE STEPS

| *1 8.2.3.1        | <ul> <li>Trip RR Pump B, ensuring pump amps and speed show a complete pump tr</li> <li>from fast speed by opening Bkr 3B, 4B or 5B, or</li> </ul>   |
|-------------------|---|
| -Standard:        | The operator depresses the pushbuttons for the 3B, 4B, or 5B breaker to the open<br>position. Breaker indication is green for motor breaker used. Pump amps on CR<br>and speed indication on P678 are zero. |
| ĩ Cue:            |   |
| Comments:         | Operator may lower reactor water level prior to tripping the pump.  |
|                   | SAT UNSAT Comment Number  |
| *2 8.2.3.2        | Shut 1B33-F067B, Discharge Vlv.   |
| Standard:<br>Cue: | The close pushbutton for 1B33-F067B is depressed, and when the valve is shut, observes its red light is "OUT" and the green light is "ON" (indicates shut).   |
| Comments:         | It will take two minutes to fully close this valve.   |
|                   | The annunciator "RECIRC MTR B LS AUTO XFER CKT NA" will alarm when 1B33-F067B closes.   |
|                   |   |

| •             | JPM NUMBER: | 014202J001                             | SYSTEM JPM<br>REVISION: 06  |  |  |  |  |  |
|---------------|-------------|--|---|--|--|--|--|--|
| Martin , some | 3 8.2.3.3   | Enter CPS 4008.0                       | 1, Abnormal Reactor Coolant Flow. 3.0   |  |  |  |  |  |
| $\smile$      |             | IMMEDIATE OF                           | PERATOR ACTIONS   |  |  |  |  |  |
|               |             | 3.1 SCRAM                              | the reactor if any of the following occur:  |  |  |  |  |  |
|               |             | o                                      | RESTRICTED ZONE is entered.   |  |  |  |  |  |
|               |             | · 0                                    | Core instabilities are observed.  |  |  |  |  |  |
|               |             | o                                      | No RR pumps are operating with mode switch in RUN.  |  |  |  |  |  |
|               |             | o                                      | Power is approaching any automatic SCRAM setpoint.  |  |  |  |  |  |
|               | Standard:   | Verifies Immedia<br>Restricted Zone, I | Verifies Immediate Operator Actions. Informs CRS that plant is not in the Restricted Zone, Exit Region, or Controlled Entry Region. |  |  |  |  |  |
|               | Cue:        | Respond to report                      | of IA completed   |  |  |  |  |  |
|               | Comments:   |  |   |  |  |  |  |  |

|                   | SAT UNSAT Comment Number  |
|-------------------|---|
| 4 8.2.3.4         | Continue to evaluate degrading plant conditions to determine if Loop Isolation per<br>Section 8.2.4 will be required. |
| Standard:<br>Cue: | Continues to Section 8.2.4 for loop isolation.  |
| Comments:         | Isolation of loop was part of the initiation cue.   |
|                   | SAT UNSAT Comment Number  |

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MELL STREET

JPM NUMBER: 014202J001

**REVISION:** <u>06</u>

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| *5 8.2.4.1 | Shut 1G33-F106, Recirc L                                      | oop B Suct. [RT vlvs]  |
|------------|---|--|
| Standard:  | The operator depresses the C<br>indicate shut, green light "O | LOSE pushbutton for 1G33-F106, the valve should N", red light "OFF". |
| Cue:       | If requested state that B RR                                  | Seal Cavity is 147°F   |
| Comments:  |   |  |
|            | SAT UNSAT   | Comment Number   |
| 7 8.2.4.3  | Shut/Verify shut 1B33-F07:                                    | B, Pmp B Seal Stag Shutoff Vlv.                                      |
| Standard:  | The operator takes the 1B33                                   | -F075B switch to the CLOSE position.                                 |
| Cue:       |   |  |
| Comments:  |   |  |
|            | SAT UNSAT   | Comment Number   |
|            |   |  |
|            |   |  |
|            |   |  |
|            |   |  |
|            |   |  |

| أسومها          |         |  |   |  |  | <u> </u>     |
|-----------------|---------|--|---|--|--|--------------|
|                 | *8      | 8.2.4.4  | Shut 11   | 333-F023A(B),  | Pmp Suction Vlv.   | ********     |
|                 |         | Standard:  | The ope<br>should i   | rator depresses<br>indicate shut, gr   | the CLOSE pushbutton for 1B33-F023B, and the valve reen light "ON", and red light "OFF".   |              |
|                 |         | Cue:   | an a  |  |  |              |
| an an the state |         | Comments:  | 1. It w   | ill take two mir   | nutes to fully close this valve.   |              |
|                 |         |  | 2.<br>when 11   | The annunciato<br>B33-F023B clos   | or "RECIRC MTR B LS AUTO XFER CKT NA" will a ses.  | larm         |
|                 | <u></u> |  | SAT   | UNSAT  | Comment Number   |              |
|                 | 9       | 8.2.4.5  | Notify (  | Chemistry that t   | the RR loop will be isolated.  |              |
|                 |         |  | Coordin<br>operatio<br>(i.e., iso   | ate with Chemi<br>n before fully is<br>lating the idle l   | istry to establish normal water chemistry limits for pow<br>solating the loop due to possible high conductivity intru<br>loop prior to power accession). | er<br>ision  |
|                 | Stan    | dard:  | The ope   | rator reminds th   | he CRS to contact Chemistry concerning chemistry limi  | ts.          |
|                 | Cue:    | en je sam untersterine sterie standard standard standard | As the C  | CRS, acknowled   | dge the reminder.  | e terretaria |
|                 | Com     | ments:   |   |  |  |              |
|                 |         |  | SAT   | UNSAT  | Comment Number   |              |
|                 |         |  |   | · · · · · · · · · · · · · · · · · · ·  |  |              |
|                 |         | 11 m   |   |  |  |              |
|                 |         |  |   |  |  |              |
|                 |         |  |   |  |  |              |
|                 |         |  |   |  |  |              |
|                 |         |  |   |  |  |              |
|                 |         |  | ment of the second s | and the second state of th |  |              |

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| CLINTON POWER STATION |
|-----------------------|
| SYSTEM JPM            |

|                   | SYSTEM JPM   |
|-------------------|--|
| JPM NUMBER:       | <u>014202J001</u> REVISION: <u>06</u>  |
| 10 8.2.4.6        | WHEN the idle RR loop has depressurized to ~ Drywell pressure, Isolate CRD Seal Injection Flow   |
| Standard:<br>Cue: | Waits for idle RR loop to depressurize via the blown Recirculation Pump seals.   |
| Comments:         | State actions will be done once conditions are satisfied, and will be turned over to our relief  |
|                   | SAT UNSAT Comment Number   |
| 11 8.2.4.7        | If the loop is to remain isolated in MODEs 1, 2 or 3, record the date & time of isolation in the Clinton Narrative Log & notify NSED - ECCS & Reactivity Systems Team. |
| Standard:         | record the date & time of isolation in the Clinton Narrative Log & notify NSED -<br>ECCS & Reactivity Systems Team   |
| - Cue:            | As the CRS, state that the B RO will perform this actions.   |
| Comments:         |  |
| TEDMINADOVC       | SAT UNSAT Comment Number   |
| I EKWIINA LING C  | UES:   |

Reactor Recirculation Pump B is shutdown with the loop isolated, waiting for idle RR loop to depressurize.
STOP TIME:

| K/A REFEREN       | CE NUMBERS |                   | Maatilika Angeli (Maana III) |  |
|-------------------|------------|-------------------|------------------------------|--|
|                   |            | Importance Rating |                              |  |
| K/A System Number | K/A Number | <u>RO</u>         | SRO                          |  |
| 202001            | A4.01      | 3.7               | 3.7                          |  |
|                   | A4.02      | 3.5               | 3.4                          |  |
|                   | A4.05      | 3.3               | 3.3                          |  |



JPM NUMBER: 014202J001

# **REVISION: 06**

# **INITIATING CUE**

The plant is operating at 100 % power. The Reactor Recirculation Pump "B" outer seal has failed and the inner seal is failing. The CRS has directed you to perform an Emergency Shutdown and isolation of the "B" Reactor Recirculation Loop. Report when you have completed the task.

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|         | <b>CLINTON POWER ST</b>                      | ATION          |
|---------|--|----------------|
|         | Job Performance Me                           | easure         |
|         |  |                |
|         | JPM Number: B.1.I                            | b.2            |
|         | Revision Number:                             | 06             |
|         | Date: 04/12/2002                             | 2              |
| Develop | ed By: <u>C Ware</u>                         | 4/12/02        |
|         | Instructor                                   | Date           |
| Validat | ed By: <u>T Pickley</u><br>SME or Instructor | 5/4/02<br>Date |
| Revi    | ew By: P. O'Brien                            | 5/6/02         |
|         | <b>Operations Representativ</b>              | e Date         |
| Approv  | ed By:B. Price                               | 5/22/02        |
|         | Training Department                          | Date           |

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## SYSTEM JPM JPM NUMBER: 015200J011 REVISION: 06 JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

**CLINTON POWER STATION** 

**NOTE:** All steps of this checklist should be performed upon initial validation. Prior to JPM usage, revalidate JPM using steps 8 through 11 below.

| 1. | Task description and number | , JPM description and number are |  |
|----|-----------------------------|----------------------------------|--|
|    | identified.                 |                                  |  |

- 2. Knowledge and Abilities (K/A) references are included.
- 3. Performance location specified. (in-plant, control room, or simulator)
- 4. Initial setup conditions are identified.
- 5. Initiating and terminating cues are properly identified.
- 6. Task standards identified and verified by SME review.
- 7. Critical steps meet the criteria for critical steps and are identified with an asterisk (\*).
- 8. Verify the procedure referenced by this JPM matches the most current revision of that procedure:
- Bate \_\_\_\_\_ Date \_\_\_\_\_
  - 9. Pilot test the JPM:
    - a. Verify cues both verbal and visual are free of conflict, and
    - b. Ensure performance time is accurate.
  - 10. If the JPM cannot be performed as written with proper responses, then revise the JPM.
  - 11. When JPM is revalidated, SME or Instructor sign and date JPM cover page.

| Date |
|------|
|      |
| Date |
|      |

# CLINTON POWER STATION SYSTEM JPM 015200J011

**REVISION:** <u>06</u>

# Revision Record (Summary)

JPM NUMBER:

an a shiriya

| Revision | Date       | Description                       |
|----------|------------|-----------------------------------|
| 00       | Unknown    | Unknown                           |
| 01       | Unknown    | Unknown                           |
| 02       | Unknown    | Unknown                           |
| 03       | Unknown    | Unknown                           |
| 04       | Unknown    | Unknown                           |
| 05       | 12/13/2001 | JPM updated to new Exelon format. |
| 06       | 04/12/2002 | Revised due to procedure changes. |

Page 3 of 9

| JPM NUMBE                            | CR: 015200J0                           | 11 REVISION: <u>06</u>   |  |
|--------------------------------------|--|--|--|
| Operator's Name                      | e:                                     |  | <u>k (n)</u>                             |
| Job Title:                           | NLO 🗆 RO                               | SRO STA SRO Cert.  | ******                                   |
| JPM Title:                           | Defeating the Lop<br>per CPS No. 441   | w RCIC Steam Supply Pressure Isolation Interlock   |  |
| JPM Number:                          | 015200J011                             |  |  |
| Revision Number                      | er: 06                                 | forting the Law DOLO Star Star D   |  |
|                                      | Isolation Interloc                     | k per CPS 4410.00C001  |  |
| K/A Number                           | 217000.A2.02                           | Importance 3.8 / 3.7   |  |
| Suggested Test                       | ing Environment: Co                    | ntrol Room   |  |
| Actual Testing                       | Environment: 🗌 Sin                     | nulator 🗆 Plant 🗌 Control Room   |  |
| Testing Method                       | l: ■ Simulate<br>□ Perform             | Alternate Path / Faulted: 🗌 Yes 📕 No   |  |
| Time Critical:                       | 🗆 Yes 🔳 No                             | )  |  |
| Estimated Time                       | e to Complete: 5 minutes               | s Actual Time Used: minutes  |  |
| References                           | CPS 4410 00 Defeating Sy               | etam Intarlocka  | ****                                     |
|                                      | CPS 4410.00C001, Defeating 55          | ng RCIC Interlocks   |  |
| EVALUATION                           | SUMMARY:                               | เสียที่มีผู้มีผู้มีข้อมีของสองสารแข่งสองสองสองสอง ใช้สุริเทร ของกระบบสองสองสองสองสองสารแห่งรายและสารและของสอง คระบบร                   | · •. · · · ·                             |
| Were all the Crit                    | tical Elements performed sa            | itisfactorily? 🗌 Yes 🗌 No  |  |
| The operator's po<br>been determined | erformance was evaluated a<br>l to be: | gainst the standards contained in this JPM, and has lisfactory   |  |
| Comments:                            |  |  |  |
|                                      |  |  |  |
|                                      |  |  |  |
|                                      |  |  |  |
| <u></u>                              |  | <del>an kanan kanan di kanan jangan dalah kana kana kana dalah dana manan kanan da</del> n tahun kanan sebuah kanan dan kanan<br>Tahun |  |
| -                                    |  |  |  |
|                                      |  |  |  |
| Evaluator's Nam                      | e:                                     |  |  |
| Evaluator's Sign                     | ature:                                 | Date:  |  |
| 3                                    |  |  |  |
|                                      |  |  |  |
|                                      |  |  | n an |
|                                      |  |  |  |

## JPM NUMBER:

### **REVISION: 06**

### **READ TO THE OPERATOR**

I will explain the initial conditions, which step(s) to simulate or discuss, and provide the initiating cues. When you complete the task successfully, the objective of this Job Performance Measure will be satisfied. No equipment or controls will be manipulated during this evaluation, only **Simulated** Actions will occur.

#### SIMULATOR SET-UP CONDITIONS:

Not Applicable

### **TASK STANDARDS:**

• The Low RCIC Steam Supply Pressure Interlock is defeated.

015200J011

#### **TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:**

EOP Tool Bag

#### **PROCEDURAL/REFERENCES:**

CPS 4410.00, Defeating System Interlocks CPS 4410.00C001, Defeating RCIC Interlocks

#### **EVALUATOR INSTRUCTIONS:**

Amplifying cues are provided within the JPM steps.

### **INITIAL CONDITIONS AND INITIATING CUE:**

Defeat the Low RCIC Steam Supply Pressure Isolation Interlock per CPS 4410.00C001 c.

START TIME:

## CLINTON POWER STATION SYSTEM JPM 015200J011

# JPM NUMBER:

**REVISION: 06** 

## **PERFORMANCE INFORMATION**

Critical steps are denoted with an asterisk (\*) to the left of the step number and appear in **BOLDED** letters. Failure to meet the standards for a critical step constitutes failure of the Job Performance Measure. The sequence of steps is assumed unless denoted in the comments section of the JPM.

# PERFORMANCE STEPS

# CPS 4410.00, Defeating System Interlocks

| 3.3 |       | Defeating Low RCIC Steam Supply Pressure Isolation  |
|-----|-------|---|
| *1  | 3.3.1 | Div 1: 1H13-P661  |
|     |       | At panel 1H13-P661, Bay D, Row A16, Card 13 (RCIC, E31-N685A), ATM<br>Trip Circuit 1, turn the SET adjustment screw <u>CLOCKWISE</u> 26 full turns. |

| Standard: | Correct location   | on is identi   | fied.   |
|-----------|--|--|---|
|           | Correct set adj  | ustment sc   | crew located.   |
|           | Set adjustment   | t screw is s   | simulated turned clockwise 26 turns.  |
| Cue:      | As examinee p<br>On the SE<br>Turning in<br>(after dem<br>26 full turn | erforms ea<br>T sdjust sc<br>direction<br>onstrating<br>ns complet | ach task reply:<br>rew<br>or stating he would perform 26 full turns state:<br>ted |
| Comments: |  | •  |   |
|           | 54T II   | TARK   | Comment Number  |

Page 6 of 9

| a de la construcción de la constru<br>La construcción de la construcción d<br>La construcción de la construcción d | CLINTON POWER STATION<br>SYSTEM IPM  |   |   |  |
|--|--|---|---|--|
| JPM NUMBER:  | 015200J011   | REVISION: <u>06</u>   |   |  |
| *2 3.3.2   | Div 2: 1H13-P662   |   |   |  |
|  | At panel 1H13-P662, Bay B,<br>Trip Circuit 1, turn the SET   | Row A15, Card 13 (RCIC, E31-N685B), ATM<br>adjustment screw <u>CLOCKWISE</u> 26 full turns. | 98. <del>9</del> 84939999999999999999999999999999999999 |  |
| Standard:  | Correct location is identified.  |   |   |  |
|  | Correct set adjustment screw l   | ocated.   |   |  |
|  | Set adjustment screw is simula   | ted turned clockwise 26 turns.  |   |  |
| Cue:   | As examinee performs each ta   | sk reply:   |   |  |
|  | <ul> <li>Turning in direction</li> </ul>   |   |   |  |
|  | <ul> <li>(after demonstrating or sta<br/>26 full turns completed</li> </ul>  | ting he would perform 26 full turns state:  |   |  |
| Comments:  | 20 fun turns completed   |   |   |  |
| · · ·  |  |   |   |  |
| na an a   | SAT UNSAT C  | omment Number   |   |  |
|  |  |   |   |  |
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|  | n and market for the more final sector of the sector of th |   |   |  |
| TERMINATING CUI  |  |   |   |  |
| TERMINATING CUI<br>The Low RCIC  | ES:<br>2 Steam Supply Pressure Isolation In  | terlock has been defeated per CPS 4410.00C001.  |   |  |
| TERMINATING CUI<br>The Low RCIC  | ES:<br>2 Steam Supply Pressure Isolation In  | terlock has been defeated per CPS 4410.00C001.  |   |  |
| TERMINATING CUI<br>The Low RCIC  | E <b>S:</b><br>C Steam Supply Pressure Isolation In  | terlock has been defeated per CPS 4410.00C001.  |   |  |
| TERMINATING CUI<br>The Low RCIC  | ES:<br>C Steam Supply Pressure Isolation In  | terlock has been defeated per CPS 4410.00C001.  |   |  |
| TERMINATING CUI<br>The Low RCIC  | ES:<br>2 Steam Supply Pressure Isolation In  | terlock has been defeated per CPS 4410.00C001.  |   |  |
| TERMINATING CUI<br>The Low RCIC<br>STOP TIME:  | ES:<br>2 Steam Supply Pressure Isolation In  | terlock has been defeated per CPS 4410.00C001.  |   |  |
| TERMINATING CUI<br>The Low RCIC  | ES:<br>2 Steam Supply Pressure Isolation In  | terlock has been defeated per CPS 4410.00C001.  |   |  |
| TERMINATING CUI<br>The Low RCIC  | ES:<br>Steam Supply Pressure Isolation In  | terlock has been defeated per CPS 4410.00C001.  |   |  |
| TERMINATING CUI<br>The Low RCIC  | ES:<br>2 Steam Supply Pressure Isolation In  | terlock has been defeated per CPS 4410.00C001.  |   |  |
| TERMINATING CUI<br>The Low RCIC  | ES:<br>Steam Supply Pressure Isolation In  | terlock has been defeated per CPS 4410.00C001.  |   |  |
| TERMINATING CUI<br>The Low RCIC  | ES:<br>2 Steam Supply Pressure Isolation In  | terlock has been defeated per CPS 4410.00C001.  |   |  |
| TERMINATING CUI<br>The Low RCIC  | ES:<br>2 Steam Supply Pressure Isolation In  | terlock has been defeated per CPS 4410.00C001.  |   |  |
| TERMINATING CUI<br>The Low RCIC  | ES:<br>2 Steam Supply Pressure Isolation In  | terlock has been defeated per CPS 4410.00C001.  |   |  |
| TERMINATING CUI<br>The Low RCIC  | ES:<br>2 Steam Supply Pressure Isolation In  | terlock has been defeated per CPS 4410.00C001.  |   |  |
| TERMINATING CUI   The Low RCIC   | ES:<br>2 Steam Supply Pressure Isolation In  | terlock has been defeated per CPS 4410.00C001.  |   |  |
| TERMINATING CUI<br>The Low RCIC  | ES:<br>2 Steam Supply Pressure Isolation In  | terlock has been defeated per CPS 4410.00C001.  |   |  |
| TERMINATING CUI<br>The Low RCIC  | ES:<br>2 Steam Supply Pressure Isolation In  | terlock has been defeated per CPS 4410.00C001.  |   |  |

Page 7 of 9

# CLINTON POWER STATION SYSTEM JPM 015200J011

JPM NUMBER:

# **REVISION:** <u>06</u>

| K/A REFERDN       | CE NUMBERS |          |           |
|-------------------|------------|----------|-----------|
|                   |            | Importan | ce Rating |
| K/A System Number | K/A Number | RO       | SRO       |
| 217000            | A2.02      | 3.8      | 3.7       |

Page 8 of 9

| PM NUMBER:   |  | CLI  | NTON POWER<br>SYSTEM JI  | STATION<br>M   |   |   |
|--|--|--|--|--|---|---|
| Defeat the Low RCIC Steam Supply Pressure Isolation Interlock per CPS 4410.00C001 Defeating RCIC<br>Interlocks   | JPM NUMBER:                              | 015200J0   | <u>11</u>  | REVIS  | ION: <u>06</u>  |   |
| Defeat the Low RCIC Steam Supply Pressure Isolation Interlock per CPS 4410.00C001 Defeating RCIC<br>Interlocks   |  | an a suara di si suara di sua   | INITIATING   | CUE  |   |   |
| Page 9 of 9  | Defect the Law DOIO G                    |  |  |  |   | an a                              |
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| Fage 9 of 9  |  |  |  | ς δια μέτα στη ματά ματά τη πολογική τη πολογική τη πολογική<br>Το πολογικό τη ματά τη πολογική τη πολογ | na materia de la construcción de la | eine andrink fahren Arman Statistica atom in Statistica andre setting |
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|              | NOTE:         All s<br>Prior           1.         1.           2.         3.           4.         - | teps of this checklist should be perform<br>r to JPM usage, revalidate JPM using<br>Task description and number, JPM<br>identified.<br>Knowledge and Abilities (K/A) refere<br>Performance location specified. (in-  | ned upon initial validation.<br>steps 8 through 11 below.<br>description and number are<br>ences are included.  |
|--------------|---|--|---|
|              | 1.<br>2.<br>3.<br>4.  | Task description and number, JPM<br>identified.<br>Knowledge and Abilities (K/A) refere<br>Performance location specified. (in-  | description and number are<br>ences are included.   |
|              | 2.<br>3.<br>4.  | Knowledge and Abilities (K/A) reference of the second seco | ences are included.   |
|              | 3.<br>4.  | Performance location specified. (in-   | when he and he are an alternation   |
|              | 4.  |  | plant, control room, or simulator)  |
|              | _   | Initial setup conditions are identified  | i.  |
|              | 5.  | Initiating and terminating cues are p  | properly identified.  |
| ··· ·        | 6.  | Task standards identified and verified   | ed by SME review.   |
| _            | 7.  | Critical steps meet the criteria for cr<br>an asterisk (*).  | ritical steps and are identified with   |
| $\mathbf{O}$ | 8.  | Verify the procedure referenced by<br>current revision of that procedure:<br>Procedure Rev Date  | this JPM matches the most   |
|              | 9.  | Pilot test the JPM:<br>a. Verify cues both verbal and visu<br>b. Ensure performance time is acc  | al are free of conflict, and<br>urate.  |
| _            |   | If the JPM cannot be performed as then revise the JPM.   | written with proper responses,  |
| _            | 11.   | When JPM is revalidated, SME or I cover page.  | nstructor sign and date JPM   |
|              |   | na n   | , 1999 - Carlon Carl |
| _            | SME / Instruc   | ctor – Signature / Printed   | Date  |
|              | SME / Instruc   | ctor – Signature / Printed   | Date  |
|              | SME / Instruc   | ctor – Signature / Printed   | Date  |
|              |   |  |   |

# **REVISION:** <u>04</u>

# JPM NUMBER: 011259J001 Revision Record (Summary)

|   | Revision | Date       | Description as a second s |
|---|----------|------------|--|
| -   | 00       | Unknown    | Unknown  |
| <b>AGAD</b> A A SECONDER STOLEN ST<br>STAN STOLEN S | 01       | Unknown    | Unknown  |
|   | 02       | Unknown    | Unknown  |
|   | 03       | 08/02/2001 | JPM updated to new Exelon format.  |
|   | 04       | 04/12/2002 | Revised due to procedure changes.  |

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|  | CLINTON POWER STATION   |                           |
|--|---|---------------------------|
|  | JPM NUMBER: 011259J001 REVISION: 04   |                           |
|  | Operator's Name:      Job Title:    Indextor NLO      Indextor NLO    Indextor NLO  | e data en a               |
|  | JPM Title:       Transfer Control of Feed Reg. Valve 1FW004 to Startup Level         Controller per CPS 3103.01       Controller per CPS 3103.01         JPM Number:       011259J001         Revision Number:       04 | ána sa tanton o re        |
|  | Level Controller per CPS 3103.01  | 91.052.052.00 × 2 × 2 × 2 |
|  | K/A Number 259002 A4.03 Importance 3.8 / 3.6  |                           |
| •  | Suggested Testing Environment: Simulator  |                           |
|  | Actual Testing Environment:   |                           |
| en e   | Testing Method:□SimulateAlternate Path / Faulted:□Yes■No■Perform  |                           |
|  | Time Critical: 🗌 Yes 🔳 No   |                           |
|  | Estimated Time to Complete: <u>15 minutes</u> Actual Time Used: minutes   |                           |
|  | References: CPS 3103.01, Feedwater (FW)   |                           |
|  | EVALUATION SUMMARY:         Were all the Critical Elements performed satisfactorily?         Yes  |                           |
|  | The operator's performance was evaluated against the standards contained in this JPM, and has been determined to be:  |                           |
|  | Comments:   |                           |
|  |   |                           |
|  | ·   |                           |
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| ander and an and a start of a sta | Evaluator's Signature: Date:  |                           |
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|  | 4 of 10   |                           |

# CLINTON POWER STATION

SYSTEM JPM

### JPM NUMBER: 011259J001

### **READ TO THE OPERATOR**

I will explain the initial conditions, which step(s) to simulate or discuss, and provide the initiating cues. When you complete the task successfully, the objective of this Job Performance Measure will be satisfied.

### SIMULATOR SET-UP CONDITIONS:

Initialize to any IC where level is controlled by the FRV, 1FW004. Place 1C34-R601C in manual control of 1FW004 and set the output to control level in the normal band. Select TURB 1A (non-operating feed pump) on the RFP START MODE ACTUATOR SELECTOR SWITCH.

### TASK STANDARDS:

• Control of the FRV, 1FW004 has been transferred to the Startup Level Controller in Automatic.

#### **TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:**

None

### **PROCEDURAL/REFERENCES:**

CPS 3103.01, Feedwater (FW)

#### **EVALUATOR INSTRUCTIONS:**

Amplifying cues are provided within the JPM steps. During the conduct of this JPM the applicant needs to manually control RPV level in the normal band.

#### **INITIAL CONDITIONS AND INITIATING CUE:**

A power ascension is in progress with the Feed Regulating Valve (FRV), 1FW004 controlled in manual on the RFP C Flow Controller. Transfer control of FRV 1FW004 to the Startup Level Controller in automatic per CPS 3103.01, Feedwater. Start at step 8.1.5.2.

#### **START TIME:**

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# CLINTON POWER STATION

SYSTEM JPM

# JPM NUMBER: 011259J001

**REVISION: 04** 

### **PERFORMANCE INFORMATION**

Critical steps are denoted with an asterisk (\*) to the left of the step number and appear in **BOLDED** letters. Failure to meet the standards for a critical step constitutes failure of the Job Performance Measure. The sequence of steps is assumed unless denoted in the comments section of the JPM.

# **PERFORMANCE STEPS**

# 8.1.5 Placing the Startup Level Controller in Operation

2 Verify/Place the S.U. Level Controller in manual.

Standard: Verifies/Places the S.U. Level Controller in manual and verifies that the amber light is ON for 1C34-R602.

Cue:

Comments:

| C |           | SAT UNSAT Comment Number   |
|---|-----------|--|
|   | 3         | Verify RFP Start Mode Actuator Selector Switch is selected to a non-operating RFP.   |
|   | Standard: | Verifies RFP Start Mode Actuator Selector Switch is selected to a non-operating RFP. |
|   | Cue:      |  |
|   | Comments: | Simulator setup places RFP Start Mode Actuator Selector Switch in TURB 1A (a         |
|   |           | SAT UNSAT Comment Number   |

# JPM NUMBER: 011259J001

**REVISION:** <u>04</u>

| 4   | Place/Verify the RFP Flow Controllers, NOT selected in step 8.1.5.3, in manual.   |
|---|---|
| Standard:<br>Cue:   | Places/Verifies the RFP Flow Controllers, 1C34-R601A, B, and C are in manual.   |
| Comments:   |   |
|   | SAT UNSAT Comment Number  |
| 5   | Adjust the S.U. Level Controller % output to match the RFP Flow Controller % output.  |
| Standard:   | Adjusts the S.U. Level Controller % output to match the RFP Flow Controller % output.   |
| Cue:  |   |
| Comments:   |   |
|   |   |
| a a come a come de la face en entre de la come de la com | SAT UNSAT Comment Number  |
| n en ren het  |   |
| *6  | Using the RFP Start Mode Actuator Selector Switch, select the VALVE pushbutton.   |
| Standard:   | Selects VALVE on the Start Mode Actuator Selector Switch, verifies that the amb light is ON for 1C34-R601A, and verifies that the amber light is OFF for 1C34-R601C.        |
| Cue:  |   |
| Comments:   | The following annunciators clear when 1FW004 is selected to the S.U. Level Controller.  |
|   | <ul><li>RFPT A OFF</li><li>RFPT CONT SIG FAILURE</li></ul>  |
|   | SAT UNSAT Comment Number  |
|   |   |
|   |   |
| n an  | a <mark>na na kuluka kukuka kukuka herenderi na na</mark> na na kukuka kukuka na kukuka kukuka kuku<br>Na na |
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# CLINTON POWER STATION

| •               | JPM NU | MBER:011          | 259J001                                  |  | REVISION: 04   |
|-----------------|--------|-------------------|--|--|--|
|                 | 7      |                   | IF the 11<br>the 1FW                     | W004 valve way was a way was warded with the way was warded with the way was a way was warded with the way was was was warded with the way was | as inadvertently moved in the previous steps, <b>THEN</b> restore<br>desired position using the RFP 1C controller  |
|                 |        | Standard:         | If necess controlle                      | ary, restores the  | e 1FW004 valve to the desired position using the RFP 1C  |
|                 |        | Cue:              |  |  | SYSTEM JPM         alve was inadvertently moved in the previous steps, THEN restor         a to the desired position using the RFP 1C controller.         res the 1FW004 valve to the desired position using the RFP 1C         AT         Comment Number         te S.U. Level Controller in automatic by adjusting the thumb-<br>mut pointer is at the setpoint, then press AUTO pushbutton.         he S.U. Level Controller in automatic by adjusting the thumb-<br>mut pointer is at the setpoint, then presses AUTO pushbutton         her S.U. Level Controller in automatic by adjusting the thumb-<br>pulpointer is at the setpoint, then presses AUTO pushbutton         her S.U. Level Controller in automatic by adjusting the thumb-<br>pulpointer is not critical to this step). Verifies that the Green light is<br>2.         AT       Comment Number         evel Controller setpoint to 35 inches.         evel Controller to 35 inches.         evel Controller to 35 inches.         AT         Comment Number |
|                 |        | Comments:         |  |  |  |
|                 |        |                   | SAT                                      | UNSAT  | Comment Number   |
|                 | *8     |                   | Null and<br>wheel ur                     | place the S.U.<br>Itil the Input p   | Level Controller in automatic by adjusting the thumb-<br>ointer is at the setpoint, then press AUTO pushbutton.  |
|                 |        | Standard:         | Nulls and<br>wheel un<br>(nulling t      | l places the S.U<br>til the Input poi<br>he controller is  | . Level Controller in automatic by adjusting the thumb-<br>nter is at the setpoint, then presses AUTO pushbutton<br>not critical to this step). Verifies that the Green light is   |
|                 |        | Cue:              | ON IOF I                                 | C34-K602.  |  |
|                 |        | Comments:         |  |  |  |
|                 |        |                   |  |  |  |
|                 |        |                   | SAT                                      | UNSAT  | Comment Number   |
|                 | 9      |                   | Adjust th                                | e S.U. Level Co  | ontroller setpoint to 35 inches.   |
|                 |        | Standard:         | Adjusts t                                | he S.U. Level C  | ontroller to 35 inches.  |
|                 |        | Cue:<br>Comments: |  |  |  |
|                 |        |                   | SAT                                      | UNSAT  | Comment Number   |
| and constraints |        |                   |  |  |  |
|                 |        |                   |  |  |  |
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|                 |        |                   |  |  |  |

<u>....</u>

# JPM NUMBER: \_\_011259J001

### **TERMINATING CUES:**

FRV 1FW004 is being controlled by the Startup Level Controller in automatic.

**STOP TIME:** 

| K/A REFEREN       | CE NUMBERS |          |           |
|-------------------|------------|----------|-----------|
|                   |            | Importan | ce Rating |
| K/A System Number | K/A Number | RO       | SRO       |
| 259002            | A4.03      | 3.8      | 3.6       |

**JPM NUMBER: 011259J001** 

**REVISION: 04** 

# **INITIATING CUE**

A power ascension is in progress with the Feed Regulating Valve (FRV), 1FW004 controlled in manual on the RFP C Flow Controller. Transfer control of FRV 1FW004 to the Startup Level Controller in automatic per CPS 3103.01, Feedwater. Start at step 8.1.5.2.

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JPM NUMBER: 011262J002

**REVISION: 02** 

# JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

**NOTE:** All steps of this checklist should be performed upon initial validation. Prior to JPM usage, revalidate JPM using steps 8 through 11 below.

| 1.   | Task description and number, JPM description identified.   | on and number are                         |  |
|--|--|---|--|
| 2.   | Knowledge and Abilities (K/A) references are   | e included.                               |  |
| 3.   | Performance location specified. (in-plant, cor simulator)  | ntrol room, or                            |  |
| 4.   | Initial setup conditions are identified.   |   |  |
| 5.   | Initiating and terminating cues are properly ic  | dentified.                                |  |
| 6.   | Task standards identified and verified by SM   | E review.                                 |  |
| 7.   | Critical steps meet the criteria for critical step with an asterisk (*).   | os and are identified                     |  |
|  | Verify the procedure referenced by this JPM current revision of that procedure:<br>Procedure Rev Date            | matches the most                          | ···· · · · · · · · · · · · · · · · · ·   |
| 9.   | Pilot test the JPM:<br>a. verify cues both verbal and visual are free<br>b. ensure performance time is accurate. | of conflict, and                          |  |
| 10   | ). If the JPM cannot be performed as written winner responses, then revise the JPM.                              | ith proper                                |  |
| 11   | . When JPM is revalidated, SME or Instructor cover page.   | sign and date JPM                         |  |
| n na sana ang pangkan na sana ang pangkan na sana ng pangkan ng pangkan ng pangkan ng pangkan ng pangkan ng pa<br>Ng pangkan ng | uli a provinski na provinski na provinski provinski provinski provinski provinski provinski sa provinski se pro  | ana ya kata kata kata kata kata kata kata | a ana ang ang ang ang ang ang ang ang an |
| SM   | E/Instructor   | Date                                      |  |
| SM   | IE/Instructor  | Date                                      |  |
| SN   | IE/Instructor  | Date                                      |  |
|  |  |   |  |

# JPM NUMBER: 011262J002

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# **REVISION: 02**

| R                  | Revision Recor | d (Summary)                              |                   |
|--------------------|----------------|--|-------------------|
| 1.                 | . Revision 01, | JPM updated to new Exelon format.        |                   |
| 2.                 | Revision 02,   | Updated to Revision 24b of CPS 3501.01.  |                   |
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| JPM NUMBER:  | 011262J002   | REVISION:  | 02                            |
|--|--|--|-------------------------------|
| Operator's Name  |  |  |                               |
| Job Title:   | □ NLO □ RO □ SRO □   | STA 🛛 SRO Cert   |                               |
| JPM Title: Transferrin<br>JPM Number: 011262<br>Revision Number:<br>Task Number and Titl | ng 4160V Bus 1B1 from the Main to<br>2002<br><u>01</u><br>le: 350101.18, Complete Control R<br>1AP07E, (1B1, 1AP09E) [1C1, | the Reserve Source IAW CPS 3501.01<br>oom Actions to Energize 4160V Bus 1A<br>1E22-S004] | 1,                            |
| Suggested Testing E  | nvironment: Simulator  |  |                               |
| Actual Testing Envir   | conment:  Gimulator  | Plant Control Room   |                               |
| Testing Method:  | SimulateAlternate PaPerform  | th/Faulted: Yes 🗅 No   |                               |
| Time Critical: D   | Zes ■ No   |  |                               |
| Estimated Time to C  | omplete:6 minutes Actual T   | ime Used: minutes  |                               |
| References: CPS 350<br>Revision  | 1.01, HIGH VOLTAGE AUXILIAR<br>24b, Step 8.1.8   | Y POWER SYSTEM,  |                               |
| <b>EVALUATION SUN</b><br>Were all the Critical F   | <b>IMARY:</b><br>Elements performed satisfactorily?  | 🗅 Yes 🗅 No   |                               |
| The operator's perform<br>determined to be:  | nance was evaluated against the stan   | dards contained in this JPM, and has bee<br>Unsatisfactory                               | en                            |
| Comments:  |  |  |                               |
|  |  |  |                               |
|  |  |  |                               |
|  |  | · · ·  |                               |
| Evaluator's Name:  |  |  |                               |
| Evaluator's Signature  | :I   | Date:  |                               |
|  |  |  |                               |
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|  |  |  |                               |

### JPM NUMBER: 011262J002

**REVISION: 02** 

### **READ TO THE OPERATOR**

I will explain the initial conditions, which step(s) to simulate or discuss, and provide the initiating cues. When you complete the task successfully, the objective of this Job Performance Measure will be satisfied.

### SIMULATOR SET-UP CONDITIONS:

Any IC in which the RAT and ERAT are available and the Main TG is off line. Insert Override 4160V Bus 1B1 RES BKR 1AP09EC to "Flag\_A\_Trip" (TRUE) Simulator Operator prepared to Main Breaker.

### TASK STANDARDS:

- Operator actions performed per CPS No. 3501.01, step 8.1.8.
- Identified failure of ERAT breaker to close and action taken to prevent tripping RAT \_\_\_\_\_breaker.

### TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

None

### **PROCEDURAL/REFERENCES:**

CPS No. 3501.01, HIGH VOLTAGE AUXILIARY POWER SYSTEM, Rev. 24b, Step 8.1.8

# **EVALUATOR INSTRUCTIONS:**

Amplifying cues are provided within the JPM steps.

### **JPM NUMBER: 011262J002**

**REVISION: 02** 

## **INITIAL CONDITIONS: 100% Power**

### **INITIATING CUE**

(Note to Examiner: Ensure Simulator Operator is positioned to trip the Main Breaker if reserve breaker switch is released before Sync Scope is taken to off.)

CPS 9080.01, DIESEL GENERATOR 1A (B) OPERABILITY, is scheduled to be performed on the Division II Diesel Generator. In support of this the Control Room Supervisor has directed you to transfer 4160V bus 1B1 from the RAT to the ERAT per CPS 3501.01, HIGH VOLTAGE AUXILIARY POWER SYSTEM. Report when the task is complete.

#### **START TIME:**

Page 6 of 12
**JPM NUMBER: 011262J002** 

**REVISION: 02** 

## **PERFORMANCE INFORMATION**

Critical steps are denoted with an asterisk (\*) to the left of the step number and appear in **BOLD** letters. Failure to meet the standards for a critical step constitutes failure of the Job Performance Measure. The sequence of steps is assumed unless denoted in the comments section of the JPM.

## **PERFORMANCE STEPS**

| *2.                                      | Place the 4160V BUS 1B1 RES BKR SYNC keylock switch to the 'ON'<br>position.   |  |  |
|--|--|--|--|
| STANDARD:                                | 4160V BUS 1B1 RES BKR SYNC keylock switch is placed in the "ON" position.  |  |  |
| CUE:                                     |  |  |  |
| n an | n seneral and an and the seneral s |  |  |
| COMMENTS:                                | When operating the Auxiliary Power System, the operator must ensure that only  |  |  |

SAT UNSAT Comment Number

Page 7 of 12

| R: 011262J002   |   |  | <b>REVISION:</b>  | 12   |
|---|---|--|---|--|
|   |   |  |   |  |
| an na managan na karang ang karang managang pangan (berdi).<br>San na karang karang karang managang pang pang pang berdipang pang pang pang pang pang pang pang | a ana ang ang ang ang ang ang ang ang an  | n an   | ananan artan mananan karan karan<br>Karan karan kar   | n stan halaf states, and a mark for t  |
| 41 COM S- 6-4 D -1  | -4-101414   |  |   |  |
| 4160V Safety Rel  | ated Bus IAI (  | IBI) (ICI) transf  | er:   |  |
| As time and reso  | ources permit, p  | rior to transfer:  |   | میں اور میں کا میں اور کا میں ہوتے ہوئے ہوئے ہوتے ہیں۔<br>مراجع میں کا میں م  |
| Attempt to adjus<br>section(s) 8.3.1/2  | it 4160V Bus In<br>2.   | coming Voltage v   | vithin 4084 - 4300V per   |  |
| Operator verific<br>INCOMING V  | es that voltage is<br>OLTAGE meter  | s between 4084 - 4<br>r.   | 4300V on 4160V BUS 1B1  |  |
|   |   |  |   |  |
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|   | <u>SAT</u>  | UNSAT  | Comment Number  | alatina da sera de actual de sera de s   |
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|   | 4160V Safety Rel<br>As time and reso<br>Attempt to adjus<br>Section(s) 8.3.1/2<br>Operator verific<br>INCOMING Ve | 4160V Safety Related Bus 1A1 (<br>As time and resources permit, p.<br>Attempt to adjust 4160V Bus In<br>Section(s) 8.3.1/2.          Operator verifies that voltage is<br>INCOMING VOLTAGE meter         SAT | <ul> <li>4160V Safety Related Bus 1A1 (1B1) (1C1) transfer:</li> <li>As time and resources permit, prior to transfer:</li> <li>Attempt to adjust 4160V Bus Incoming Voltage v</li> <li>section(s) 8.3.1/2.</li> <li>Operator verifies that voltage is between 4084 - 4 INCOMING VOLTAGE meter.</li> </ul> | 4160V Safety Related Bus 1A1 (1B1) (1C1) transfer:          As time and resources permit, prior to transfer:         Attempt to adjust 4160V Bus Incoming Voltage within 4084 - 4300V per section(s) 8.3.1/2.         Operator verifies that voltage is between 4084 - 4300V on 4160V BUS 1B1 INCOMING VOLTAGE meter.         SAT       UNSAT         Comment Number |

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| JPM NUMBE | R: 011262J002   |   | <b>REVISION: 0</b>  | 2   |
|-----------|---|---|---|---|
|           |   | an a  | na kana katala ana katala katala<br>Mana mana katala kata |   |
| 5.        | Verify the synchroscope is  | steady at ~ the 12 o'c  | lock position.  |   |
| STANDARD: | Syncroscope steady at ~ th  | e 12 o'clock position.  |   |   |
| CUE:      | No desta forma de la compañía de la<br>Compañía de la compañía |   | na na pinana na manga ang atala kana ili kara pina pinang na pina dan kana kana kana kana kana kana kan   | 2000 - 2000 - 2000 - 2000 - 2000 - 2000<br>2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 -<br>-   |
| COMMENTS: | The operator shall verify v<br>"When closing any 6900V<br>and voltage match must be   | oltage and synchroniz<br>or 4160V breaker on<br>verified to prevent eq  | ation per Precaution 4.2.<br>an energized bus, synchronizat<br>uipment damage."   | tion  |
|           | SAT   | UNSAT   | Comment Number  |   |
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| JPM NUMBI                                       | REVISION: 02   |   |   |
|---|--|---|---|
| y na waxaya wanga wanga ya na ala sa kata a nag | nne fræda angenska kan er forge og fræderige kom ønger opgensken for en sjonar som som som som som som som som | anta a mana manana na na manana manazara an                 | Banaani aa aa kaasaa ah saasaa ah saasa |
| *6. Cl  | ose the Bus Res Bkr, and hol   | d in close position   |   |
| De<br>•   | etermine Bus Res Bkr did not<br>No Closed indication on the<br><u>No load shift is indicated on</u>            | t close via:<br>Res Bkr, <u>and</u><br>the bus load meters. |   |
| Pl<br>(th                                       | ace the sync switch to OFF pr<br>is prevents the auto trip of the  | rior to releasing the s<br>load breaker and the re          | witch to the AUTO position esulting loss of the bus).   |
| STANDARD:                                       | 4160V BUS 1B1 RES BKI<br>and held until the operator<br>load shift.  | R 1AP09EC switch is verifies that the break                 | taken to the "CLOSED" positioner did not close and there was r  |
|   | The operator places the 410<br>releasing the breaker switc   | 60V Bus 1B1 RES BK<br>h to AUTO.                            | R SYNC switch to OFF prior  |
| CUE:  | As the CRS, acknowledge  | the report from the op                                      | erator of the failure to transfer.  |
| COMMENTS:                                       | The operator should recogn<br>performs alternate action w<br>releasing the breaker switc                       | nize the failure of the b<br>which is to turn the syn<br>h. | reaker to close and therefore<br>chroscope switch to OFF prior  |
|   | ርላጥ  | INIGAT  | Commont Number  |

The 4160V bus 1B1 is still on the RAT and the CRS has been informed of the problem.

**STOP TIME:** 

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# JPM NUMBER: 011262J002

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# **REVISION: 02**

# K/A REFERENCE NUMBERS

|                   |            | Import | ance Rating |
|-------------------|------------|--------|-------------|
| K/A SYSTEM NUMBER | K/A NUMBER | RO     | <u>SRO</u>  |
| 262001            | A1.02      | 3.1    | 3.5         |
|                   | A4.01      | 3.4    | 3.7         |
|                   | A4.02      | 3.4    | 3.4         |
|                   | A4.03      | 3.2    | 3.4         |
|                   | A4.04      | 3.6    | 3.7         |
| •                 | A4.05      | 3.3    | 3.3         |

Page 11 of 12

**JPM NUMBER: 011262J002** 

**REVISION: 02** 

## **INITIATING CUE**

CPS 9080.01, DIESEL GENERATOR 1A (B) OPERABILITY, is scheduled to be performed on the Division II Diesel Generator. In support of this the Control Room Supervisor has directed you to transfer 4160V bus 1B1 from the RAT to the ERAT per CPS 3501.01, HIGH VOLTAGE AUXILIARY POWER SYSTEM. Report when the task is complete.

Page 12 of 12



| ř             | CLINTON POWER STAT                      | ΓΙΟΝ                   |
|---------------|---|------------------------|
|               | Job Performance Meas                    | sure                   |
|               | JPM Number: B.1.e.2                     |                        |
|               | Revision Number: 03                     |                        |
|               | Date: 08/02/2001                        |                        |
| Developed By: | Terry Mayfield<br>Instructor            | <u>8/2/01</u><br>Date  |
| Validated By: | T Pickley<br>SME or Instructor          | <u>5/5/02</u><br>Date  |
| Review By:    | P. O'Brien<br>Operations Representative | <u>5/6/02</u><br>Date  |
| Approved By:  | B. Price<br>Training Department         | <u>5/22/02</u><br>Date |
|               |   |                        |

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Page 1 of 10

## JPM NUMBER: 011215J001

# **REVISION: 03**

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| ي رويد | JOR | PERF | ORMANCE | MEASURE  | VALIDATION   | CHECKLIST  |

**NOTE:** All steps of this checklist should be performed upon initial validation. Prior to JPM usage, revalidate JPM using steps 8 through 11 below.

- 1. Task description and number, JPM description and number are identified.
  - 2. Knowledge and Abilities (K/A) references are included.
- 3. Performance location specified. (in-plant, control room, or simulator)
- 4. Initial setup conditions are identified.
- 5. Initiating and terminating cues are properly identified.
  - 6. Task standards identified and verified by SME review.
  - 7. Critical steps meet the criteria for critical steps and are identified with an asterisk (\*).
  - Verify the procedure referenced by this JPM matches the most current revision of that procedure: Procedure Rev.
  - Pilot test the JPM:
     a. verify cues both verbal and visual are free of conflict, and
     b. ensure performance time is accurate.
  - 10. If the JPM cannot be performed as written with proper responses, then revise the JPM.
  - 11. When JPM is revalidated, SME or Instructor sign and date JPM cover page.

SME/Instructor

Date

Date

SME/Instructor

SME/Instructor

Date

| τ.<br>                             |  | CLINTON POWER<br>SYSTEM JI               | STATION<br>PM   |  |  |
|------------------------------------|--|--|---|--|--|
|                                    | JPM NUMBER: 0                            | 11215J001                                | RE  | VISION: 02                                     |  |
|                                    | Revision Recor                           | d (Summary)                              |   |  |  |
| $\bigcirc$                         | 1. Revision 02,                          | JPM Updated to new Exelo                 | on format   |  |  |
|                                    | 2. <b>Revision 03,</b>                   | Incorporate comments.                    |   |  |  |
|                                    | an a | an a | · · · · · · · · · · · · · · · · · · ·                           | · · · · · · · · · · · · · · · · · · ·          |  |
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|                                    |  |  |   | Page 3 of 10                                   |  |

نتتمنأ

| n an | CLINTON POWER STATION  |
|--|--|
|  | JPM NUMBER: 011215J001 REVISION: 02  |
|  | Operator's Name:<br>Job Title:   |
|  | JPM Title: Bypass a Local Power Range Monitor (LPRM)   |
|  | JPM Number: 011215J001<br>Revision Number:02<br>Task Number and Title: 011215C525,Bypass a Local Power Range Monitor                               |
|  | Suggested Testing Environment: Main Control Room   |
|  | Actual Testing Environment:  Simulator  Plant  Control Room  |
| · · · · · · · · · · · · · · · · · · ·    | Testing Method:SimulateFaulted:YesNoPerformAlternate Path:YesNo  |
|  | Time Critical: 🖵 Yes 📕 No  |
|  | Estimated Time to Complete: <u>12</u> minutes Actual Time Used: minutes  |
|  | References: CPS No. 3308.01,Local/Avg. Power Range Monitors  |
| <b>U</b>                                 | <b>EVALUATION SUMMARY:</b><br>Were all the Critical Elements performed satisfactorily?  Yes  No  |
|  | The operator's performance was evaluated against the standards contained in this JPM, and has been determined to be:  Satisfactory  Unsatisfactory |
|  | Comments:  |
|  |  |
|  |  |
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|  |  |
|  | Evaluator's Name:  |
|  | Evaluator's Signature:   |
|  | Date   |
|  | NRC SUBMITTAL COPY   |
|  | Page 4 of 10   |

## **JPM NUMBER**: 011215J001

## **REVISION:** 02

# READ TO THE OPERATOR

I will explain the initial conditions, which step(s) to simulate or discuss, and provide the initiating cues. When you complete the task successfully, the objective of this Job Performance Measure will be satisfied.

No equipment or controls will be manipulated during this evaluation, only **Simulated** Actions will occur.

#### SIMULATOR SET-UP CONDITIONS:

None

#### TASK STANDARDS:

LPRM 38-15-C of APRM Channel B is bypassed.

#### **TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:**

Assistance from a MCR operator may be needed to unlock panel 1H13-P670

#### **PROCEDURAL/REFERENCES:**

#### CPS No. 3308.01, LOCAL/AVG. POWER RANGE MONITORS

#### **EVALUATOR INSTRUCTIONS:**

Amplifying cues are provided within the JPM steps.

#### **INITIAL CONDITIONS AND INITIATING CUE:**

The plant is at rated power. The Control Room Supervisor directs you to place LPRM 38-15-C of APRM Channel B in bypass due to a faulty indication. The Reactor Engineer has been notified. The following LPRMs are currently bypassed:

|    |         | and the second second second |         |         |         |
|----|---------|------------------------------|---------|---------|---------|
| A) | 06-23-A | 06-15-B                      | 22-23-A | 30-15-C | 30-39-D |
| B) | 14-07-A | 14-39-A                      | 46-39-A | 06-31-C | 30-31-D |
| C) | 14-15-A | 30-07-В                      | 22-15-D | 38-31-D | 30-23-В |
| D) | 14-15-B | 14-31-B                      | 14-07-С | 30-23-С | 38-39-D |

#### **START TIME:**

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Page 5 of 10

JPM NUMBER: 011215J001

#### **PERFORMANCE INFORMATION**

Critical steps are denoted with an asterisk (\*) to the left of the step number and appear in **BOLD** letters. Failure to meet the standards for a critical step constitutes failure of the Job Performance Measure. The sequence of steps is assumed unless denoted in the comments section of the JPM.

#### **PERFORMANCE STEPS**

JPM TITLE: Bypass a Local Power Range Monitor (LPRM)

# \*8.3.1 Turn the LPRM card Mode Switch to "BY".

STANDARD: Operator determines that there are >2 LPRM inputs per level and >16 LPRM inputs to the channel. Operator locates LPRM card 38-15-C for APRM channel B in Panel 1H13-P670 and simulates turning the Mode Switch to the "BY" position.

|   | SAT | UNSAT                                    | C         | omments Numb | er |  |
|---|-----|--|-----------|--------------|----|--|
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| • |                   |   | CLINTON  | POWER STA                                     | TION  |   |                |
|---|-------------------|---|--|---|---|---|----------------|
|   | JPM NUMBER:       | 011215J001  | 51   | SIEWIJPM                                      |   | <b>REVISION</b> : 02  | 2              |
|   | 832 xr.           |   |  |   |   |   |                |
|   | Ve                | rify:<br>1. The<br>illur                              | LPRM BYPAS<br>ninated on the L                                 | SED LED on<br>PRM section                     | the associated Ll<br>of the full core d                   | PRM string is<br>lisplay.   |                |
|   |                   | 3. The are c  | green OP LED<br>UPSCL TRIP a<br>extinguished.                  | on the LPRM<br>nd DNSCL T                     | card extinguishe<br>RIP LED's on th                       | e associated LPRM of  | card           |
|   |                   | 4. The  | UPSCALE/DO<br>M on the full co                                 | WNSCALE li<br>ore display.                    | ghts extinguishe  | d for the associated  |                |
|   | 1<br>STANDARD:    | Operator ic   | lentifies LPRM   | string 38-15 o                                | n full core displa  | av.   |                |
|   | CUE:              | When the o  | operator identific<br>the LPRM BYP                             | es LPRM strin<br>ASS pushbut                  | ng 38-15 on full of ton, cue that the                     | core display and simu<br>GREEN lamp is lit.                             | ılates         |
|   | 2<br>STANDARD:    | Operator ic   | lentifies the OP   | LED on LPRI                                   | M card 38-15-C.   |   |                |
|   | CUE:              | When the c  | operator identifie<br>ed.                                      | es OP LED la                                  | np, cue that the g  | green lamp is   |                |
|   | 3<br>STANDARD:    | Operator ic<br>15-C.                                  | lentifies the UPS  | SCL TRIP and                                  | DNSCL TRIP I  | LED's on LPRM car   | <br>d 38-      |
|   | CUE:              | When the<br>LED's on l                                | operator identifi<br>LPRM card 38-1                            | es the location 5-C, cue that                 | n of the UPSCL the LED's are ex                           | TRIP and DNSCL T tringuished.   | RIP            |
|   | 4<br>STANDARD:    | Operator si<br>location of<br>display on<br>LPRM read | mulates selectin<br>the UPSCALE/<br>the lower right h<br>lout. | g a rod next to<br>DOWNSCAL<br>and side of th | D LPRM string 3<br>E lights for LPR<br>e full core displa | 8-15and identifies th<br>M 38-15-C. This is<br>ay to the left of the "( | e<br>the<br>j" |
|   | CUE:<br>Comments: | Cue that th extinguishe                               | e UPSCALE/DO<br>ed.  | OWNSCALE                                      | lights for LPRM   | 38-15-C are   |                |
|   |                   |   |  |   |   |   |                |
|   |                   |   |  | SAT   | UNSAT   | Comments Num  | ber            |
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Page 7 of 10

JPM NUMBER: 011215J001

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| NAME OF TAXABLE ADDRESS OF TAXAB | the second second second |     |      |   |

|           | Determine Core Thermal 1                                   | Power (CTP) by either:  |
|-----------|--|---|
|           | Process Computer (OD-3)                                    |   |
|           | 3D Monicore, or  |   |
|           | Manually using CPS 2208<br>DETERMINATION                   | .01, CORE THERMAL POWER   |
|           |  |   |
| STANDARD  | Operator simulates requestin<br>depressing F7 on the 3D Mo | ng an Official 3D Monicore printout by simulating onicore computer. |
|           | Using a existing Official 3D                               | Monicore Case, operator locates the % CTP                           |
| CUE:      | Cue the operator to use 3D I                               | Monicore  |
|           | Cue the operator that the % APRM indicate power.           | CTP on the Monicore Case is the same value as actual                |
|           | SAT UNS  | AT Comments Number  |
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| <b>REVISION</b> : | 02 |
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| or or incomber.  |   |  |   |
|--|---|--|---|
| 8.3.4 Co   | mpare the CTP and the Al  | PRM meter reading.   |   |
|  |   | · · · · ·  |   |
| STANDARD:  | Operator locates the C  | ORE POWER in percent on the  | first page of the 3D                                |
|  | SUMMARY)  | op right hand side of the printou                                  | t under LOAD LINE                                   |
| CIIF.  | Cue the operator that f   | he % CTP on the Monicore Cas                                       | e is the same value as actus                        |
| 001.   | APRM indicated powe   | er.  | e is the same value as actua                        |
| COMMENTS:  |   |  |   |
|  | SAT   | UNSAT Comm   | nents Number  |
|  | ······································                            |  | ······  |
|  | · · · · · · · · · · · · · · · · · · ·                             | ······································                             |   |
|  |   | ······   |   |
| TERMINATING  | CUES:   |  |   |
| TERMINATING (<br>LPRM 38-1   | CUES:<br>5-C of APRM 'B' is bypa                                  | assed  |   |
| TERMINATING (<br>LPRM 38-1<br>STOP TIME:                                   | CUES:<br>5-C of APRM 'B' is bypa                                  | nssed  |   |
| TERMINATING (<br>LPRM 38-1<br>STOP TIME:                                   | CUES:<br>5-C of APRM 'B' is bypa<br>K/A RE                        | assed  |   |
| TERMINATING (<br>LPRM 38-1<br>STOP TIME:<br><u>K/A SYSTEM N</u>            | CUES:<br>5-C of APRM 'B' is bypa<br><u>K/A RE</u><br><u>UMBER</u> | nssed<br><u>EFERENCE NUMBERS</u> <u><u>I</u> <u>K/A NUMBER</u></u> | mportance Rating<br>RO SRO                          |
| TERMINATING (<br>LPRM 38-1<br>STOP TIME:<br><u>K/A SYSTEM NI</u><br>215005 | CUES:<br>5-C of APRM 'B' is bypa<br><u>K/A RE</u><br><u>UMBER</u> | assed<br>EFERENCE NUMBERS<br>K/A NUMBER                            | mportance Rating<br>RORO3.23.2                      |
| TERMINATING (<br>LPRM 38-1<br>STOP TIME:<br><u>K/A SYSTEM NI</u><br>215005 | CUES:<br>5-C of APRM 'B' is bypa<br><u>K/A RE</u><br><u>UMBER</u> | ussed<br>EFERENCE NUMBERS<br>K/A NUMBER<br>A4.04                   | mportance Rating<br><u>RO</u> <u>SRO</u><br>3.2 3.2 |
| TERMINATING (<br>LPRM 38-1<br>STOP TIME:<br><u>K/A SYSTEM NI</u><br>215005 | CUES:<br>5-C of APRM 'B' is bypa<br><u>K/A RE</u><br><u>UMBER</u> | nssed<br>EFERENCE NUMBERS<br><u>K/A NUMBER</u><br>A4.04            | mportance Rating<br>RO SRO<br>3.2 3.2               |
| TERMINATING (<br>LPRM 38-1<br>STOP TIME:<br><u>K/A SYSTEM NI</u><br>215005 | CUES:<br>5-C of APRM 'B' is bypa<br><u>K/A RE</u><br><u>UMBER</u> | ussed<br>EFERENCE NUMBERS<br><u>K/A NUMBER</u><br>A4.04            | mportance Rating<br><u>RO</u> <u>SRO</u><br>3.2 3.2 |
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| TERMINATING (<br>LPRM 38-1<br>STOP TIME:<br><u>K/A SYSTEM NI</u><br>215005 | CUES:<br>5-C of APRM 'B' is bypa<br>K/A RE<br>UMBER               | assed<br>EFERENCE NUMBERS<br>K/A NUMBER<br>A4.04                   | mportance Rating<br><u>RO</u> SRO<br>3.2 3.2        |

# -JPM NUMBER: 011215J001

**REVISION: 02** 

# **INITIATING CUE**

# CAUTION

No equipment or controls will be manipulated during this evaluation, only **<u>Simulated</u>** Actions will occur.

The Control Room Supervisor directs you to place LPRM 38-15-C of APRM Channel B in bypass due to a faulty indication. The Reactor Engineer has been notified. The following LPRMs are currently bypassed:

| A) | 06-23-A | 06-15-B | 22-23-A | 30-15-C | 30-39-D |
|----|---------|---------|---------|---------|---------|
| B) | 14-07-A | 14-39-A | 46-39-A | 06-31-C | 30-31-D |
| C) | 14-15-A | 30-07-В | 22-15-D | 38-31-D | 30-23-B |
| D) | 14-15-B | 14-31-B | 14-07-C | 30-23-С | 38-39-D |

Page 10 of 10



#### JPM NUMBER: B.1.f.2

**REVISION: 00** 

# JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

**NOTE:** All steps of this checklist should be performed upon initial validation. Prior to JPM usage, revalidate JPM using steps 8 through 11 below.

- Task description and number, JPM description and number are identified.
- 2. Knowledge and Abilities (K/A) references are included.
- 3. Performance location specified. (in-plant, control room, or simulator)
- 4. Initial setup conditions are identified.
- 5. Initiating and terminating cues are properly identified.
- 6. Task standards identified and verified by SME review.
- 7. Critical steps meet the criteria for critical steps and are identified with an asterisk (\*).
- Verify the procedure referenced by this JPM matches the most current revision of that procedure:
   Procedure Rev. Date
- Pilot test the JPM:
   a. verify cues both verbal and visual are free of conflict, and
   b. ensure performance time is accurate.
- 10. If the JPM cannot be performed as written with proper responses, then revise the JPM.
- 11. When JPM is revalidated, SME or Instructor sign and date JPM cover page.

 SME/Instructor
 Date

 SME/Instructor
 Date

SME/Instructor

Date

|          | a sa   | CLIN   | TON POWER ST                             | ΓΑΤΙΟΝ                                   |   |         |
|----------|--|--|--|--|---|---------|
|          | JPM NUMBER:  | <b>B.1.f.2</b>   | SYSTEM JPM                               | [<br>                                    | <b>REVISION:</b>  | 00      |
| $\smile$ |  |  |  | an a |   |         |
|          |  |  |  |  |   |         |
|          | <b>Revision Record</b>   | (Summary)  | )  |  |   |         |
|          | 1. <b>Revision 00,</b>   | This is a nev  | v JPM                                    |  |   |         |
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|          |  |  |  |  | Page  | 3 of 10 |
|          |  |  |  | •  |   |         |

| •           | JPM NUMBER: <u>B.1.f.2</u> REVISION: <u>00</u>  |
|-------------|---|
|             |   |
|             | Operator's Name:  |
|             | IDM Title: Standby Cas Treatment (VC) Tring Upon Start  |
|             | JPM Number: B.1.f.2   |
|             | Revision Number:         00           Task Number and Title:         331901.04, Complete Control Room Actions to Perform                            |
|             | Manual Initiation of the VG System  |
|             | K/A Number: 261000.A2.05 Importance 3.0/3.1   |
|             | Suggested Testing Environment: Simulator  |
|             | Actual Testing Environment: 🗅 Simulator 🗅 Plant 🗅 Control Room  |
|             | Testing Method: 🗆 Simulate Alternate Path / Faulted: 🖬 Yes 🗅 No   |
|             | Perform   |
|             | Time Critical: 🗆 Yes 🔳 No   |
| ,<br>,<br>, | Estimated Time to Complete: 15 minutes Actual Time Used: minutes  |
|             | <b>References:</b> CPS 3319.01, STANDBY GAS TREATMENT (VG),<br>Revision 14, Step 8.2.1  |
|             | EVALUATION SUMMARY:   |
|             | Were all the Critical Elements performed satisfactorily? $\Box$ Yes $\Box$ No   |
|             | The operator's performance was evaluated against the standards contained in this JPM, and has been determined to be:<br>Satisfactory Unsatisfactory |
|             | Comments:   |
|             |   |
|             |   |
|             |   |
|             | Evaluator's Name:   |
|             |   |
|             | Eveluator's Signature.  |

Page 4 of 10

# JPM NUMBER: B.1.f.2

## **REVISION: 00**

# READ TO THE OPERATOR

I will explain the initial conditions, which step(s) to simulate or discuss, and provide the initiating cues. When you complete the task successfully, the objective of this Job Performance Measure will be satisfied.

## SIMULATOR SET-UP CONDITIONS:

Trigger malfunction to trip the 1A VG fan.

Secure VF.

#### TASK STANDARDS:

Trip of VG fan 1A is reported and VG Train 1B is operating to maintain Secondary Containment control.

# TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

None

## **PROCEDURAL/REFERENCES:**

CPS 3319.01, STANDBY GAS TREATMENT (VG), Revision 14, Step 8.2.1

# **EVALUATOR INSTRUCTIONS:**

Amplifying cues are provided within the JPM steps.

# INITIAL CONDITIONS AND INITIATING CUE:

VF tripped and has been secured. Investigation is under way why VF failure to startup. Radiation Protection and Chemistry have been notified of intent to start VG. You are directed to manually initiate the 1A train of Standby Gas Treatment (VG) for Secondary Containment Control per CPS 3319.01, STANDBY GAS TREATMENT.

START TIME: \_\_\_\_\_

# JPM NUMBER: B.1.f.2

# **REVISION: 00**

# **PERFORMANCE INFORMATION**

Critical steps are denoted with an asterisk (\*) to the left of the step number and appear in **BOLDED** letters. Failure to meet the standards for a critical step constitutes failure of the Job Performance Measure. The sequence of steps is assumed unless denoted in the comments section of the JPM.

PERFORMANCE STEPS

| *8.2.1.1                                 | Notify Radiation Protection to <b>verify either OPR03S or OPR04S is in service and operable</b> ,  |  |
|--|--|--|
|  | And  |  |
|  | • Notify RP that VG will be manually started.  |  |
| •  |  |  |
| Standard                                 | Verify either OPR03S or OPR04S is in service and operable,   |  |
|  | And  |  |
|  | • Notify RP that VG will be manually started   |  |
| CUE                                      | Respond as RP that VG will be manually started   |  |
| Comments                                 | Procedure is inaccurate, OPR03S or OPR04S will be checked by the operator on the AR/PR panel   |  |
| n an | Verify either OPR03S or OPR04S is in service and operable is the critical portion of this step.  |  |
|  | SAT UNSAT Comment Number   |  |
| 8.2.1.2                                  | Notify the Chemistry Department after SGTS flow is initiated to perform sampling per CPS No. 9940.01, WEEKLY CHEMISTRY SURVEILLANCE LOG. (ODCM section 3.2.2/TBL 3.4-1 ITEM B) |  |
| Standard                                 | Notify Chemistry to perform CPS 9940.01 for VG operations  |  |
| CLE                                      | State the B RO will take care of this action   |  |
| Comments                                 |  |  |
| Comments                                 |  |  |
| <u> </u>                                 | SAT UNSAT Comment Number   |  |
| 8.2.1.3                                  | Monitor Secondary Containment pressure using 0PDI-VG101 (0PDI-VG001) on PNL 1H13-P801 as needed through the remainder of this section.   |  |
| Standard<br>CUE<br>Comments              | Monitors Secondary Containment pressure.   |  |
|  | SAT UNSAT Comment Number   |  |
|  | · · · · · · · · · · · · · · · · · · ·  |  |

| JPM NUMBER:                        | : <u>B.1.f.2</u> REVISION: <u>00</u>   |
|------------------------------------|--|
| 8.2.1.4                            | Prior to manual VG initiation, manually shutdown and isolate VF using CPS No 3404.01, FUEL BUILDING HVAC (VF) to prevent tripping on high differential pressure.   |
| Standard<br>CUE                    | Verifies VF is secured.  |
| Comments                           |  |
|                                    | SAT UNSAT Comment Number   |
| *8.2.1.5                           | Place the SGTS train A in service by starting Exhaust Fan, 0VG02CA and   |
|                                    | verify the following automatic actions:  |
| Standard                           | Starts SGTS Train A Exhaust Fan.   |
| Standard                           | Starts SGTS Train A Exhaust Fan.<br>Reports SGTS Train A Exhaust Fan tripped.  |
| Standard                           | verify the following automatic actions:         Starts SGTS Train A Exhaust Fan.         Reports SGTS Train A Exhaust Fan tripped.         If asked as the CRS, What do you recommend for action to recover secondary containment differential pressure?   |
| Standard<br>■ CUE                  | Verify the following automatic actions:         Starts SGTS Train A Exhaust Fan.         Reports SGTS Train A Exhaust Fan tripped.         If asked as the CRS, What do you recommend for action to recover secondary containment differential pressure?         Examinee recommends startup of the B VG train   |
| Standard<br><u>CUE</u><br>Comments | <ul> <li>Verify the following automatic actions:</li> <li>Starts SGTS Train A Exhaust Fan.<br/>Reports SGTS Train A Exhaust Fan tripped.</li> <li>If asked as the CRS, What do you recommend for action to recover secondary containment differential pressure?<br/>Examinee recommends startup of the B VG train Direct starting SGTS Train B.</li> </ul> |

# JPM NUMBER: B.1.f.2

# **REVISION:** <u>00</u>

| Ĺ                        | *8.2.1.5  | Place the SGTS train B in service by starting Exhaust Fan, 0VG02CB<br>and verify the following automatic actions: |
|--------------------------|-----------|---|
|                          |           | a) 1VG17YB, Fuel Bldg Exh Outbd Isol Dmpr closes  |
|                          |           | b) 1VG16YB, Fuel Bldg Exh Outbd Isol Dmpr closes  |
|                          |           | c) 1VG04YB, SGTS TRN B Pmp Rms Suction Damper opens<br>(1VG04YB is normally open)                                 |
| -                        |           | d) 1VG05YB, SGTS TRN B Fuel Bldg Suct Dmpr opens  |
|                          |           | e) 1VG06YB, SGTS TRN B ECCS Rms Suct Dmpr opens   |
|                          |           | f) 1VG02YB, SGTS TRN B Fuel Bldg Isol Dmpr opens  |
|                          |           | g) 0VG01YB, SGTS TRN B Inlet Damper opens (modulates)   |
|                          |           | h) SGTS TRN B Htr, 0VG04AB energizes  |
|                          |           | i) 0VG02YB, SGTS TRN B Exh Fan 2CB Dmpr opens   |
|                          |           | j) 0VG05YB, SGTS TRN B Exhaust Fan (Stack) Dmpr opens   |
|                          | Standard  | Starts Exhaust Fan, 0VG02CA and verifies by status indicating lights:   |
|                          |           | a) 1VG17YB, Fuel Bldg Exh Outbd Isol Dmpr closes  |
|                          | )         | b) 1VG16YB, Fuel Bldg Exh Outbd Isol Dmpr closes  |
|                          |           | c) 1VG04YB, SGTS TRN B Pmp Rms Suction Damper opens<br>(1VG04YB is normally open)                                 |
|                          |           | d) 1VG05YB, SGTS TRN B Fuel Bldg Suct Dmpr opens  |
|                          |           | e) 1VG06YB, SGTS TRN B ECCS Rms Suct Dmpr opens   |
|                          |           | f) 1VG02YB, SGTS TRN B Fuel Bldg Isol Dmpr opens  |
|                          |           | g) 0VG01YB, SGTS TRN B Inlet Damper opens (modulates)   |
|                          |           | h) SGTS TRN B Htr, 0VG04AB energizes  |
|                          |           | i) 0VG02YB, SGTS TRN B Exh Fan 2CB Dmpr opens   |
|                          |           | j) 0VG05YB, SGTS TRN B Exhaust Fan (Stack) Dmpr opens   |
|                          | · · · · · | Directs NLO to locally verify SGTS Room Fan 0VG05CB started.  |
| <b>1000-0</b> 00-000-000 | CUE       | AS NLO report SGTS Room Fan 0VG05CB started.  |
|                          |           | nin kunnen energinen han den sin her interneten mensen den en e                  |
|                          |           | SAT UNSAT Comment Number  |

|   | JPM NUMBER: <u>B.1.f.2</u>         | CLINTON POWER STATION<br>SYSTEM JPM | REVISION: 00            |                   |
|---|------------------------------------|-------------------------------------|-------------------------|-------------------|
|   | SGTS Train P is operating          | to maintain Gaarmalama Gaartai      | • , •,                  |                   |
|   | STOP TIME:                         | to maintain Secondary Containment   | integrity.              |                   |
|   |                                    | K/A REFERENCE NUMBERS               |                         |                   |
|   |                                    |                                     | Importance              | Rating            |
|   | <u>K/A SYSTEM NUMBER</u><br>261000 | K/A NUMBER<br>A2.05                 | <b><u>RO</u></b><br>3.0 | <u>SRO</u><br>3.1 |
|   |                                    |                                     |                         |                   |
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|   |                                    |                                     |                         |                   |

# CLINTON POWER STATION

SYSTEM JPM

# JPM NUMBER: B.1.f.2

# **REVISION:** <u>00</u>

# **INITIATING CUE**

VF tripped and has been secured. Investigation is under way why VF failure to startup. Radiation Protection and Chemistry have been notified of intent to start VG. You are directed to manually initiate the 1A train of Standby Gas Treatment (VG) for Secondary Containment Control per CPS 3319.01, STANDBY GAS TREATMENT.

Page 10 of 10





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| JPM | NUMBER: | B.1.g.2 |
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| NOTE:                                    | Prior to JPM usage, revalidate JPM using   | rmed upon initial validation.<br>g steps 8 through 11 below. |
|--|--|--|
|  | 1. Task description and number, JF identified.   | M description and number are                                 |
| · · ·                                    | 2. Knowledge and Abilities (K/A) re-   | ferences are included.                                       |
|  | <ul> <li> 3. Performance location specified. (<br/>simulator)</li> </ul>   | in-plant, control room, or                                   |
|  | 4. Initial setup conditions are identif  | ied.   |
|  | 5. Initiating and terminating cues ar  | e properly identified.                                       |
|  | 6. Task standards identified and ve  | rified by SME review.  |
|  | <ul> <li>7. Critical steps meet the criteria for<br/>with an asterisk (*).</li> </ul>  | critical steps and are identified                            |
|  | 8. Verify the procedure referenced current revision of that procedure Procedure Rev. Date  | by this JPM matches the most                                 |
|  | <ul> <li>9. Pilot test the JPM:</li> <li>a. verify cues both verbal and vis</li> <li>b. ensure performance time is ac</li> </ul> | ual are free of conflict, and curate.                        |
|  | 10. If the JPM cannot be performed a responses, then revise the JPM.   | as written with proper                                       |
|  | 11. When JPM is revalidated, SME c cover page.   | r Instructor sign and date JPM                               |
| a an | SME/Instructor   | Date   |
|  | SME/Instructor   | Date   |
|  | SME/Instructor   | Date   |

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| <br>JPM NUMBER:   | CLINT<br><b>B.1.g.2</b>   | FON POWER SYSTEM JP                                | STATION<br>M                           | REVISION: 00                                 | _ |
|---|---|--|--|--|---|
| Operator's Name:<br>Job Title:  |   | 0  |  |  |   |
| JPM Title: Initi<br>Sou<br>JPM Number:<br>Revision Number:<br>Task Number and | ate ADS With Lo<br>rce<br>RO B.1.g.2<br><u>00</u><br>Fitle: <u>310101.0</u><br>Initiation | oss of Normal 1<br>7, Complete Co<br>(Auto / Manua | nstrument Air,<br>ontrol Room Ac<br>l) | Transfer to Alternate                        |   |
| K/A Number:   | 218000.A2.03  |  | Importance                             | 3.4 / 3.6                                    |   |
| Suggested Testing   | Environment:  | Simulator<br>Simulator                             | Plant                                  | Control Room                                 |   |
| Testing Method:   | <ul><li>☐ Simulate</li><li>■ Perform</li></ul>  | Alternate Pa                                       | th / Faulted:                          | 🛛 Yes 📮 No                                   |   |
| Time Critical: 🛛  | Yes 🔳 No  | 0  |  |  |   |
| Estimated Time to<br>References: CPS  | 5 <b>Complete:</b> <u>1</u> (<br>5 3101.01, MAIN  | )_ minutes<br>  STEAM (MS,                         | Actual Time U<br>IS &ADS), Ste         | <b>(sed:</b> minutes)<br>eps 8.2.2 and 8.2.3 |   |
|   |   |  |  |  |   |
|   |   |  |  |  |   |
|   |   |  |  |  |   |
|   |   |  |  |  |   |
|   |   |  |  | Page 4 of 1                                  | 1 |

|   | JPM NUMBER: <u>B.1</u><br>EVALUATION SUMMA<br>Were all the Critical Eleme | CLINTON POWER STAT<br>SYSTEM JPM<br>1.g.2<br>ARY:<br>ents performed satisfactorily? | REVISION: 00                    |  |
|---|---|---|---------------------------------|--|
|   | The operator's performanc<br>and has been determined to<br>Comments:      | e was evaluated against the s<br>o be:  | tandards contained in this JPM, |  |
|   |   |   |                                 |  |
|   | Evaluator's Name:   |   | Date:                           |  |
|   |   |   |                                 |  |
| in a second a second |   |   |                                 |  |
|   |   |   |                                 |  |

Page 5 of 11

JPM NUMBER: B.1.g.2

# **READ TO THE OPERATOR**

I will explain the initial conditions, which step(s) to simulate or discuss, and provide the initiating cues. When you complete the task successfully, the objective of this Job Performance Measure will be satisfied.

#### SIMULATOR SET-UP CONDITIONS:

Initialize to a full power IC. Initiate a Group 1 Isolation and stabilize RPV parameters. Initiate a break in the IA header to the Drywell to remove IA from the SRV operators. Use the SRV accumulator leak malfunctions to depressurize the ADS valve accumulators and the mixing compressors to maintain drywell pressure less than 1.68 psig.

This setup may be snapshot into a temporary IC for use with this JPM.

# **TASK STANDARDS:**

ADS is manually initiated and SRVs open by placing the ADS Backup Air Bottles are On Service.

#### **TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:** None

#### **PROCEDURAL/REFERENCES:**

CPS 3101.01, MAIN STEAM (MS, IS & ADS), Steps 8.2.2 and 8.2.3

# **EVALUATOR INSTRUCTIONS:**

Amplifying cues are provided within the JPM steps.

## **INITIAL CONDITIONS AND INITIATING CUE:**

With all MSIVs closed.

The Control Room Supervisor has directed you to manually initiate ADS per CPS 3101.01. MAIN STEAM.

**START TIME:** 

Page 6 of 11

JPM NUMBER: B.1.g.2

# PERFORMANCE INFORMATION

Critical steps are denoted with an asterisk (\*) to the left of the step number and appear in **BOLDED** letters. Failure to meet the standards for a critical step constitutes failure of the Job Performance Measure. The sequence of steps is assumed unless denoted in the comments section of the JPM.

#### PERFORMANCE STEPS

|                  | 3101.01    |   |
|------------------|------------|---|
|                  | 1. 8.2.2.1 | Observe SRV/ADS limitations in section 6.3 (page 6).  |
|                  | Standard   | Examinee refers to and observes SRV/ADS limitations during performance of this procedure.   |
| <b></b>          | CUE        |   |
|                  | Comments   | Limitations address SP parameters, SRV cycle order and frequency, Placing<br>Div. 1 and Div. 2 SRV control switches to OFF when IA is lost. |
|                  |            | The examinee may transfer the ADS valves to the Backup Air Bottles before performing Steps 1 and 2.   |
| na, ina wakaza a |            | SAT UNSAT Comment Number  |
|                  |            |   |
|                  | 2. 8.2.2.2 | Sound the CNMT evacuation alarm.  |
|                  | Standard   | Examinee activates the Containment evacuation alarm.  |
|                  | CUE        |   |
|                  | Comments   |   |
|                  |            |   |

|               | ĩ               | CLINTON POWER STATION   |  |
|---------------|-----------------|---|--|
| an agus teaca | JPM NUMBER:     | B.1.g.2   | REVISION: 00   |
|               | *3. 8.2.2.3     | If ADS has <u>not</u> initiated, manually initiate ADS:<br>Arm and depress <u>all</u> four ADS Div 1/2 Logic A&<br>buttons.   | E/B&F Initiate push-   |
|               | Standard        | Rotate collars and depress ADS Div 1, Logic A&E I<br>OR<br>Rotate collars and depress ADS Logic 2 B&F Initiat   | push-buttons<br>te push-buttons.                                     |
|               | CUE<br>Comments | Logic will initiate if only ADS Div 1 and/or 2 Logic<br>Initiate push-buttons are operated; however, procedu<br>The examinee may transfer the ADS valves to the B<br>first steps in this JPM.<br>SAT UNSAT Comment Number | A&E and/or B&F<br>are requires all four.<br>ackup Air Bottles as the |
|               | 4.              | Determine that the ADS Backup Air Bottles must be   | e Placed in Service  |
|               | Standard        | Examinee determines that there is no IA to the ADS  | valves.  |
|               |                 |   |  |
|               | CUE             |   |  |
|               | CUE<br>Comments | <ul> <li>This can be determined by:</li> <li>A failure of the ADS valves to open</li> <li>Annunciator 5067-7L or</li> <li>Low pressure indication on the ADS IA pressure</li> </ul>                                       | meter P601.  |
|               | CUE<br>Comments | <ul> <li>This can be determined by:</li> <li>A failure of the ADS valves to open</li> <li>Annunciator 5067-7L or</li> <li>Low pressure indication on the ADS IA pressure</li> <li>SAT UNSAT Comment Number</li> </ul>     | meter P601.  |
|               | CUE<br>Comments | <ul> <li>This can be determined by:</li> <li>A failure of the ADS valves to open</li> <li>Annunciator 5067-7L or</li> <li>Low pressure indication on the ADS IA pressure</li> <li>SAT UNSAT Comment Number</li> </ul>     | meter P601.  |
|               | COMMENTS        | <ul> <li>This can be determined by:</li> <li>A failure of the ADS valves to open</li> <li>Annunciator 5067-7L or</li> <li>Low pressure indication on the ADS IA pressure</li> </ul> SAT UNSAT Comment Number              | meter P601.  |
|               | Comments        | <ul> <li>This can be determined by:</li> <li>A failure of the ADS valves to open</li> <li>Annunciator 5067-7L or</li> <li>Low pressure indication on the ADS IA pressure</li> </ul> SAT UNSAT Comment Number              | meter P601.  |

Page 8 of 11

| ĩ  | CLINTON POWER STATION<br>SYSTEM JPM  |  |
|--|--|--|
| JPM NUMBER:  | B.1.g.2 REVI   | <b>SION:</b> <u>00</u>   |
| *5. 8.2.3.1  | Placing ADS Backup Air Bottles On Service  |  |
|  | Shut 1IA012B, ADS IA CNMT Inbd Isol Vivs.  |  |
|  | Verify IIA012A, ADS IA CNMT Outbd Isol Vlvs opens.   |  |
| Standard   | Examinee transfers ADS to the Backup Air Bottles:  |  |
| ningangan samaan manan manan dari barti dari dari dari maganan dari menyeri dari antara kenyeri yakar menyeri b<br>I | Closes 1IA012B, ADS IA CNMT Inbd Isol Vlvs, AND  |  |
|  | <ul> <li>Verifies 1IA012A, ADS IA CNMT Outbd Isol Vlvs opens.</li> </ul>   |  |
| CUE<br>Comments  | The examinee may transfer the ADS values to the Backup Air first steps in this IPM   | Bottles as the   |
|  |  |  |
|  | SAT UNSAT Comment Number   |  |
| *6. 8.2.3.2  | Shut 1IA013B, ADS IA CNMT Inbd Isol Vlvs.  |  |
|  | Verify 1IA013A, ADS IA CNMT Outbd Isol Vlvs opens.   |  |
|  |  |  |
| Standard   | Closes 1IA013B, ADS IA CNMT Inbd Isol Vlvs, AND  |  |
|  | • Verifies 11A013A, ADS IA CNMT Outbd Isol Vlvs opens  |  |
| CUE  |  |  |
| Comments   |  |  |
|  | SAT UNSAT Comment Number   |  |
|  |  |  |
| 1. 8.2.3.3   | Verify (1H13-P601, 5067):  |  |
|  | • ADS Instrument Air Hdr Pressure, 1PI-IA078/79 > 147.5 ps   | sig.   |
|  | ADS Backup Air Hdr Pressure, 1PI-IA080/81 > 2300 psig.   |  |
| Standard   | At Panel 1H13-P601, examinee verifies:   |  |
|  | • ADS Instrument Air Hdr Pressure, 1PI-JA078/79 > 147.5 m  | sia  |
|  | • ADS Backup Air Hdr Pressure, 1PI-IA080/81 > 2300 psig.   | <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>   |
| CUE  | 1 , , , , , , , , , , , , , , , , , , ,  |  |
| Comments   |  |  |
| n en ser en norden en e   | άντ τριάντος το τ  |  |
|  | SAI UNSAI Comment Number   |  |
|  | n na seneral de la construction de<br>Numeri 1918 de la construction de la<br>Numeri 1918 de la construction de la | and and a second se |

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Page 9 of 11

|  |   | CLINT  | ON POWER STATION                                     |   |
|--|---|--|--|---|
| -  | JPM NUMBER:   | B.1.g.2  | SYSTEM JPM   | <b>REVISION: 00</b>   |
| · · · · · · · · · · · · · · · · · · ·  | ningen men er ner nermennen en kriste men en en en konstruktionen an en ander sen en   | na n         | n terren an      |   |
|  | 8. 8.2.2.4  | Verify <u>seven</u> ADS <ul> <li>SPDS</li> </ul> | valves open using as needed:                         |   |
|  |   | • DCS Display 1                                  | 122 (2H) [Acoustic Monitor In                        | put]  |
|  |   | DCS Display 1                                    | 186 (7B) ['A' Solenoid Input]                        |   |
| And a second s | n an an an ann an Anna an Anna<br>Anna an Anna an   | • 1H13-P601/P6                                   | 42 Solenoid Indicator Lights                         | 1   |
|  |   | • 1H13-P866, V<br>(Channels 2-4                  | alve Flow Monitor Control Par                        | nel   |
|  |   | • 1H13-P614. A                                   | DS Safety Valve Temperature                          | recorder 1B21-R614  |
|  |   | (Pts 1 - 7)                                      |  |   |
|  |   | • Indirect indica & suppression                  | tion via changes in RPV pressu<br>pool temperatures. | are, RPV level, MSL flows,  |
|  |   |  | 1  |   |
|  | Ston dand   | Francisco data mui                               | ADO M 1  | 1 • • •   |
|  | Standard  | indications of ADS                               | nes all seven ADS Valves are o<br>S valve(s) open.   | open by using multiple  |
|  | CUE   |  |  |   |
|  | Comments  |  |  |   |
|  | · · · ·   |  | · · · · ·  |   |
|  |   | SAT UNSAT  | Comment Number                                       |   |
|  |   |  |  |   |
|  | 9.  | Report to the CRS                                | that all 7 ADS valves are oper                       |   |
|  | (a) The second second second system is the two β − second s<br>second second |  | una an 7 1155 variob are oper                        | 1.  |
|  | Standard  | Examinee renorts :                               | to the CRS that all 7 ADS valu                       | es are onen   |
|  |   |  |  | es are open.  |
|  | CUE   | As the CRS ackno                                 | wledge the report of all 7 ADS                       | S valves open   |
|  | Comments  |  | when the report of all 7 MD.                         |   |
|  |   |  |  |   |
|  |   | SAT UNSAT  | Comment Number                                       |   |
| and a second   | ΤΕΡΜΙΝΙΑΤΙΝΟ ΟΙΠ  | PQ.  | n an             | g a trainin air ain a s-s-s- <del>alainin a gu ann an ann an ann an ann ann ann ann a</del> |
|  | ADS operating   | air is transferred to the                        | ne Backup Air Bottles and AD                         | S is manually initiated.  |
|  | STOP TIME:  |  |  |   |
|  |   | V/A DE   | FEDENCE NUMDEDS                                      |   |
|  | <i>i</i>  | N/A KE   | FERENCE NUMBERS                                      |   |
| •  | K/A SYSTEM NUM  | BFR  | K/A NUMBER   | Importance Rating   |
|  | 218000  |  | 2.03   | $\frac{1}{3.4}$ $\frac{500}{3.6}$   |
|  |   |  |  |   |
|  |   |  |  |   |
| ·  |   |  |  |   |
|  |   |  |  | Page 10 of 11   |
JPM NUMBER: B.1.g.2

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## **INITIATING CUE**

With all MSIVs closed.

The Control Room Supervisor has directed you to manually initiate ADS per CPS 3101.01, MAIN STEAM.

Page 11 of 11



NRC SUBMITTAL COPY

#### **JPM NUMBER: 015200J082**

## JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

**NOTE:** All steps of this checklist should be performed upon initial validation. Prior to JPM usage, revalidate JPM using steps 8 through 11 below.

- 1. Task description and number, JPM description and number are identified.
- 2. Knowledge and Abilities (K/A) references are included.
  - \_\_\_\_ 3. Performance location specified. (in-plant, control room, or simulator)
    - 4. Initial setup conditions are identified.
- 5. Initiating and terminating cues are properly identified.
  - 6. Task standards identified and verified by SME review.
  - Critical steps meet the criteria for critical steps and are identified with an asterisk (\*).
    - Verify the procedure referenced by this JPM matches the most current revision of that procedure: Procedure Rev. Date
    - 9. Pilot test the JPM:
      - a. verify cues both verbal and visual are free of conflict, and b. ensure performance time is accurate.
    - 10. If the JPM cannot be performed as written with proper responses, then revise the JPM.
    - 11. When JPM is revalidated, SME or Instructor sign and date JPM cover page.

SME/Instructor

Date

SME/Instructor

Date

SME/Instructor

Date

Page 2 of 12

## JPM NUMBER: 015200J082

## **REVISION: 02**

# **Revision Record (Summary)**

1. **Revision 01**, JPM Updated to new Exelon format

2. Revision 02, Incorporating comments

|       | CLINTON POWER STATION<br>SYSTEM JPM<br>JPM NUMBER: 015200J082 REVISION: 02   |   |
|-------|--|---|
|       | Operator's Name:<br>Job Title:   |   |
|       | JPM Title: <u>Startup a Hydrogen Recombiner from the Local Control Panel</u><br>JPM Number: <u>015200J082</u><br>Revision Number: <u>02</u><br>Task Number and Title: <u>015200C663</u> , Startup a Hydrogen Recombiner from the Local<br><u>Control Panel</u> |   |
|       | Suggested Testing Environment: Plant   |   |
|       | Actual Testing Environment:  |   |
|       | ■ Testing Method: ■ Simulate Faulted: □ Yes ■ No<br>□ Perform Alternate Path: □ Yes ■ No<br>Time Critical: □ Ves ■ No  |   |
|       | Time Critical: 🖵 Yes 🔳 No  |   |
|       | Estimated Time to Complete: 10 minutes Actual Time Used: minutes   |   |
|       | References: CPS No. 4411.11, HYDROGEN CONTROL SYSTEM OPERATION,<br>Section 2.5   |   |
|       | <b>EVALUATION SUMMARY:</b><br>Were all the Critical Elements performed satisfactorily?  Yes  No  |   |
|       | The operator's performance was evaluated against the standards contained in this JPM, and has been determined to be:  Satisfactory  Unsatisfactory   |   |
|       | Comments:  |   |
|       |  |   |
|       |  | المنظمة المنظمة<br>منظمة المنظمة ال<br>منظمة المنظمة ال |
| ·<br> |  |   |
|       |  | ne e na se  |
|       | Evaluator's Name:  |   |
|       | Evaluator's Signature: Date:   |   |
|       |  |   |

#### JPM NUMBER: 015200J082

#### **REVISION:** 01

#### **READ TO THE OPERATOR**

I will explain the initial conditions, which step(s) to simulate or discuss, and provide the initiating cues. When you complete the task successfully, the objective of this Job Performance Measure will be satisfied.

No equipment or controls will be manipulated during this evaluation, only <u>Simulated</u> Actions will occur.

#### SIMULATOR SET-UP CONDITIONS:

None

#### TASK STANDARDS:

Hydrogen Recombiner A is started and has reached operating temperature.

## **TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:**

None

#### PROCEDURAL/REFERENCES:

CPS No. 4411.11, HYDROGEN CONTROL SYSTEM OPERATION, Section 2.5

#### **EVALUATOR INSTRUCTIONS:**

Amplifying cues are provided within the JPM steps.

#### **INITIAL CONDITIONS AND INITIATING CUE:**

The Main Control Room switch for the A Hydrogen Recombiner is broken. Start the A Hydrogen Recombiner from its local panel per CPS 4411.11, Section 2.5.

START TIME:

|         | CLINTON POWER STATION<br>SYSTEM JPM  |
|---------|--|
| j 7     | <b>JPM NUMBER</b> : 015200J082 <b>REVISION:</b> 01   |
|         |  |
|         | PERFORMANCE INFORMATION  |
| <u></u> | Critical steps are denoted with an asterisk (*) to the left of the step number and appear in <b>BOLD</b> letters.<br>Failure to meet the standards for a critical step constitutes failure of the Job Performance Measure. The sequence of steps is assumed unless denoted in the comments section of the JPM. |
|         | PERFORMANCE STEPS  |
|         | JPM TITLE: Startup A Hydrogen Recombiner from the Local Control Panel  |
|         | 2.5.1 IF CNMT water level is approaching or is $\geq$ 40 (50) ft, 1' 4" Range 4 (3' 8" Range 3) as indicated on 1LI-CM260/261 (1H13-P601, 5063),   |
|         | THEN_(MCR) Shut 1HG001/4, Unit 1 CGCS CNMT Isol Vlvs.  |
|         | STANDARD: Operator simulates contacting MCR and requesting that Containment water level  |
|         |  |
|         | CUE: As the BCRO, report that containment water level is 19 feet 6 inches.   |
| C       | COMMENTS: No additional action required  |
|         | SATUNSATComments Number  |
|         |  |
|         |  |
|         |  |
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|         |  |
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|         |  |
|         | Page 6 of 12   |
|         |  |
|         |  |

| ,                          |   | CL  | INTON POWER STAT<br>SYSTEM JPM  | ION  |                      |
|----------------------------|---|---|---|--|----------------------|
| •,                         | JPM NUMBER                              | : <u>015200J082</u>                             |   | <b>REVISION:</b> 01  |                      |
|                            | 2.5.2 (1                                | MCR) Open 1HG001/4                              | , Unit 1 CGCS CNMT I  | sol Vlvs.  |                      |
|                            | STANDARD:                               | Operator simulate                               | s contacting MRC and r  | equesting that 1HG001/4 be OPEN  | NED.                 |
|                            | CUE:                                    | As the BCRO, rep                                | ort that 1HG001/4 are (   | DPEN.  |                      |
|                            | COMMENTS:                               |   |   |  |                      |
|                            |   | SAT   | UNSAT   | Comments Number  |                      |
| n<br>Distance of the state | 2.5.3 (N                                | ACR) Place CGCS Re                              | comb 1, 0HG01SA cont  | rol switch in TEST.  |                      |
| entra di                   | STANDARD:                               | Operator simulates<br>TEST.<br>After 0HG01SA is | s contacting MCR and resput in TEST, operator of  | equesting that 0HG01SA be placed checks DS-4 at the local panel.   | eersteet see<br>L in |
|                            | CUE:                                    | As the BCRO, rep<br>When operator che           | ort that 0HG01SA is in<br>ecks DS-4, cue that the 0   | TEST.<br>GREEN light is illuminated.   |                      |
|                            | COMMENTS:                               |   |   |  |                      |
|                            |   | SAT   | UNSAT   | Comments Number  | . <u></u>            |
| <del></del>                | , so a noo an an a san aray ya mada a a | 1 Cand W. Madalian an amaraka sa ita.           | nanikalahananda tanta matana nasia.   | indire, contra statication de las servas en estas para   | inni (saran) sa      |
|                            |   |   |   |  |                      |
|                            |   |   |   |  |                      |
|                            |   | n an        | مور در در در معرور در مورد در ویونو کارونو و کارونو در این ویونو در از این این در این در در در در در در در در د<br>در در در در در معرور در مورد در ویونو کارونو کارونو و در این ویونو کارونو در این در د | and a second   |                      |
|                            |   |   | n an  | Mangana ana amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny faritr<br>29 man-20 many faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o ami<br>20 many faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny f |                      |
|                            |   |   |   |  |                      |

| JPM NUMBER: | 015200J082 |
|-------------|------------|
|-------------|------------|

|   | *2.5.4    | At 0HG01JA, Hydrogen Recombiner local control panel, start CGCS Recombiner, 0HG01SA, by placing 1HS-HG021B HS-1 Start/Stop control switch to ON. (CB 737', AA-130) |  |
|---|-----------|--|--|
|   | STANDARD: | Operator simulates placing 1HS-HG021B, HS-1, in ON   | naar sin si  |
|   | CUE:      | Switch is in the ON position. RED light is ON, GREEN light is OFF.   |  |
|   | COMMENTS  | :  |  |
|   |           | SAT UNSAT Comments Number  | geletik igi  |
| Andreas (1995)<br>                      | *2.5.5    | At 0PL47JA, Hyd Recomb Rooms Cooling System Panel:<br>Start Hyd Recomb Rm Clg Fan, 0VG01CA. (CB 702', T-129)   |  |
|   | STANDARD: | At 0PL47JA, operator simulates taking control switch for 0VG01CA to START.   |  |
|   | CUE:      | Switch is in START. RED light is ON, GREEN light is OFF.<br>Cue that approximately 1.5 hours has passed.   |  |
|   | COMMENTS  |  |  |
|   |           | SAT UNSAT Comments Number  |  |
|   |           |  |  |
| ANGERGIUS die 'n Yn Cort Anna e Angeren |           |  | *****  |
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|   |           | Page 8 of 12   |  |

and the set of the set

| CLINTON POWER STATION |
|-----------------------|
| SYSTEM JPM            |

JPM NUMBER: 015200J082

|          | At 0<br>Cha | HG01JA, Hydrogen<br>mber Gas Temp, 1 <sup>-</sup> | n Recombiner local c<br>FIC-HG044: (CB 73' | ontrol panel, verify TIC<br>7', AA-130) | -4 Reaction |
|----------|-------------|---|--|---|-------------|
|          | a)          | Set to 1325°F, and                                | d  | . ,                                     |             |
|          | b)          | Temperature inc                                   | reases to 1325°F.                          |   |             |
| STANDARI | ):          | Operator simulates<br>increases to 1325°F         | verifying TIC-4 is set                     | t for 1325°F and that tem               | perature    |
| CUE:     |             | TIC-4 is set for 132<br>Reaction Chamber          | 25°F.<br>gas temperature is 132            | 25°F.                                   |             |
| COMMENT  | S:          | The recombiner tak<br>temperature of 132:         | es approximately 1.5<br>5°F.               | hours to reach its normal               | operating   |
|          |             | SAT   | UNSAT                                      | Comments Numb                           | Der         |
|          |             |   |  |   |             |
|          |             |   |  |   |             |
|          |             |   |  |   |             |
|          |             |   |  |   |             |
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|          |             |   |  |   |             |
|          |             |   |  |   |             |

## JPM NUMBER: 015200J082

**REVISION:** 01

## TERMINATING CUES:

Hydrogen Recombiner A is started and has reached operating temperature.

## **STOP TIME:**

Page 10 of 12

## JPM NUMBER: 015200J082

## **REVISION:** 01

## K/A REFERENCE NUMBERS

## Importance Rating

| K/A NUMBER | RO   | <u>SRO</u>  |
|------------|--|---|
| K3.04      | 3.3  | 3.5   |
| K4.04      | 3.5  | 3.8   |
| K6.05      | 3.1  | 3.3   |
| A2.04      | 3.7  | 3.8   |
|            | K/A NUMBER<br>K3.04<br>K4.04<br>K6.05<br>A2.04 | K/A NUMBER         RO           K3.04         3.3           K4.04         3.5           K6.05         3.1           A2.04         3.7 |

Page 11 of 12

#### JPM NUMBER: 015200J082

#### **REVISION: 01**

#### **INITIATING CUE**

#### CAUTION

No equipment or controls will be manipulated during this evaluation, only **Simulated** Actions will occur.

The Main Control Room switch for the A Hydrogen Recombiner is broken. Start the A Hydrogen Recombiner from its local panel per CPS 4411.11, Section 2.5.

Page 12 of 12



# **CLINTON POWER STATION Job Performance Measure** 2 JPM Number: B.2.b.2 **Revision Number: 00** Date: 04/23/2002 Developed By: Paul M. Higginbotham 4/23/02 Instructor Date Validated By: <u>T Pickley</u> 5/5/02 **SME or Instructor** Date Review By: P. O'Brien 5/7/02 **Operations Representative** Date Approved By: B. Price 5/22/02 **Training Department** Date

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| J  | IPN                                     | N      | N    | UN          | ΛB           | ER:   | В.   | 2.b. | 2 |
|----|---|--------|------|-------------|--------------|---|--|------|---|
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**REVISION: 00** 

## JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

**NOTE:** All steps of this checklist should be performed upon initial validation. Prior to JPM usage, revalidate JPM using steps 8 through 11 below.

- 1. Task description and number, JPM description and number are identified.
- 2. Knowledge and Abilities (K/A) references are included.
- 3. Performance location specified. (in-plant, control room, or simulator)
- 4. Initial setup conditions are identified.
- 5. Initiating and terminating cues are properly identified.
- 6. Task standards identified and verified by SME review.
- 7. Critical steps meet the criteria for critical steps and are identified with an asterisk (\*).
- Verify the procedure referenced by this JPM matches the most current revision of that procedure:
- Procedure Rev. \_\_\_\_ Date \_\_\_\_\_
- 9. Pilot test the JPM:
  - a. verify cues both verbal and visual are free of conflict, and b. ensure performance time is accurate.
- 10. If the JPM cannot be performed as written with proper responses, then revise the JPM.
- 11. When JPM is revalidated, SME or Instructor sign and date JPM cover page.

SME/Instructor

Date

SME/Instructor

SME/Instructor

Date

Date

Page 2 of 12

JPM NUMBER: B.2.b.2

**REVISION:** 00

**Revision Record (Summary)** 

:

1. **Revision 00,** This is a new JPM

Page 3 of 11

| JPM NUMBI                                 | E <b>R: B.2.b.2</b>                                       | REVISION: 00   |
|---|---|--|
|   |   |  |
| Operator's Na<br>Job Title:               | me:   |  |
| JPM Title:<br>JPM Number:<br>Revision Num | RCIC Startup at the RSD Pa<br>B.2.b.2<br>ber: 00          | anel With Flow Controller Failure  |
| Task Number                               | and Title: 400301.04, Com<br>Shutdown Tasks<br>task)      | plete In-Plant Actions to Perform Remote<br>that DO Require MCR Evacuation (licensed |
| K/A Number:                               | 217000.A2.10  | Importance 3.1 / 3.1   |
| Suggested Te                              | sting Environment: Simul                                  | lator RSD Panel and Plant  |
| Actual Testin                             | g Environment: 🗅 Simul                                    | lator 🖸 Plant 📮 Control Room   |
| Testing Meth                              | od: 🗆 Simulate Alter<br>Perform                           | nate Path / Faulted: 🔳 Yes 🗔 No  |
| Time Critical                             | : 🛛 Yes 🔳 No  |  |
| Estimated Ti                              | me to Complete: <u>20</u> minu                            | ites Actual Time Used: minutes   |
| References:                               | CPS 4003.01C002, R<br>OP-AA-101-111, ROLES A<br>PERSONNEL | RSP – RCIC OPERATION, Revision 2<br>ND RESPONSIBILITIES OF ON-SHIFT                  |
|   |   |  |
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|  | JPM NUMBER:                                 | B.2.b.2   | 1997-1999-1999-1997-1997-1997-1997-1997 |   | <b>REVISION:</b>                      | 00   |   |
|--|---|---|---|---|---------------------------------------|--|---|
|  | <b>EVALUATION S</b><br>Were all the Critica | U <b>MMARY:</b><br>l Elements perfe   | ormed satisfact                         | orily? 🗖 Yes  | 🖵 No                                  |  |   |
|  | The operator's perfe<br>and has been detern | ormance was ev<br>nined to be:  | aluated against                         | t the standards correctly U   | ontained in this.                     | JPM,                                       |   |
|  | Comments:                                   |   |   |   |                                       |  |   |
|  |   |   |   |   |                                       | <u></u>                                    |   |
|  |   |   | ·····                                   |   | · · · · · · · · · · · · · · · · · · · |  |   |
|  |   |   |   |   |                                       |  |   |
|  |   | · · · · · · · · · · · · · · · · · · ·   | ······                                  |   |                                       | ······································     |   |
|  | Evaluator's Name:<br>Evaluator's Signatu    | re:   |   |   | Date:                                 |  |   |
|  |   |   |   |   |                                       |  |   |
|  |   |   |   |   |                                       |  |   |
|  |   |   |   |   |                                       |  | eller et el<br>Regeler et eller et e |
| and a second |   |   |   |   |                                       |  |   |
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|  |   |   |   |   |                                       |  |   |
|  |   |   |   |   |                                       |  |   |
|  |   | and a subject of the second |   | sa da para da Santa S |                                       | nin an | an a  |
|  |   |   |   |   | Page                                  | 5 of 11                                    |   |

#### JPM NUMBER: <u>B.2.b.2</u>

## READ TO THE OPERATOR

I will explain the initial conditions, which step(s) to simulate or discuss, and provide the initiating cues. When you complete the task successfully, the objective of this Job Performance Measure will be satisfied.

#### SIMULATOR SET-UP CONDITIONS:

Initialize in a full power IC and insert malfunction to fail the automatic function of the RCIC controller at the Remote Shutdown Panel to 0 flow.

Perform the immediate actions for MCR evacuation.

Establish RPV level low in the normal operating band.

Verify RCIC is not initiated.

Perform CPS 4003.01C002 through Step 5.3.

This setup may be snapshot into a temporary IC for use with this JPM.

#### TASK STANDARDS:

RCIC is being manually controlled from the Remote Shutdown Panel, controlling RPV level, Level 3 to Level 8.

#### **TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:**

None

## PROCEDURAL/REFERENCES:

CPS 4003.01C002, RSP – RCIC OPERATION, Revision 2 OP-AA-101-111, ROLES AND RESPONSIBILITIES OF ON-SHIFT PERSONNEL

#### **EVALUATOR INSTRUCTIONS:**

Amplifying cues are provided within the JPM steps. Student will perform JPM actions on the simulator and will be required to locate the RSD panel during the inplant walk through.

## INITIAL CONDITIONS AND INITIATING CUE:

The Main Control Room has been evacuated. Subsequent actions of CPS 4003.01 have been completed. CPS 4003.01C002 has been performed through Step 5.3. The CRS directs you to complete the RCIC system startup from the Remote Shutdown Panel and inject to the Reactor Vessel to control RPV water level, Level 3 to Level 8 per CPS 4003.01C002, RSP - RCIC Operation.

#### **START TIME:**

Page 6 of 11

JPM NUMBER: B.2.b.2

**REVISION: 00** 

## **PERFORMANCE INFORMATION**

Critical steps are denoted with an asterisk (\*) to the left of the step number and appear in **BOLDED** <u>letters.</u> Failure to meet the standards for a critical step constitutes failure of the Job Performance Measure. The sequence of steps is assumed unless denoted in the comments section of the JPM.

|                | PERFORMANCE STEPS   |
|----------------|---|
| CPS 4003.01C00 | 2   |
| *1. 5.4        | Open 1E51-F046, RCIC Pump Supply To Turb Lube Oil Clr.                  |
| Standard       | Opens 1E51-F046 and verifies RED status light is lit                    |
| CUE            | opens inter i o to una venines iche status inglit is lit.               |
| Comments       |   |
|                | SAT UNSAT Comment Number  |
| 2. 5.5         | Verify open 1E51-F077 and F078, RCIC Exh Vac Bkr Outbd (Inbd) Isol      |
|                | Valves.   |
| Standard       | Verifies 1E51-F077 and F078 are open by observing RED status lights are |
| קוזי           | lit.  |
| Comments       |   |
|                |   |
|                | SAT UNSAT Comment Number  |
| т. м.<br>      |   |
| 5.6            | Start Gland Seal Compressor, 1E51-C002F.                                |
| Standard       | Starts Gland Seal Compressor and verifies RED status light is lit       |
| CUE            |   |
| Comments       |   |
|                | SAT UNSAT Comment Number  |

| CLINTON POWER STATION |
|-----------------------|
| SYSTEM JPM            |

| JPM NUMBER:                             | B.2.b.2 REVISION: <u>00</u>   |
|---|---|
| 4. 5.7                                  | Open 1E51-F019, RCIC Pmp Min Flow Recirc To Suppr Pool.                             |
| Standard<br>CUE<br>Comments             | Opens 1E51-F019 and verifies RED status light is lit.                               |
|   | SAT UNSAT Comment Number  |
| *5. 5.8                                 | Open 1E51-F045, RCIC Turb Stm Supp Shutoff Valve.                                   |
| Standard                                | Opens 1E51-F045 and observes RED status light is lit.                               |
|   | <ul> <li>Monitors RCIC turbine speed on C61-R003.</li> </ul>                        |
|   | Monitors RCIC pump flow on C61-R001-1.  |
|   | • Determines RCIC turbine pump flow is not rising to the controller setpoint value. |
|   | Reports to SRO  |
| CUE                                     | Ask what would you do about this? And direct to take that action:                   |
| n an an an ann an an an an an ann an an | As SRO direct operator to take manual control of the RCIC Flow Controller           |
| Comments                                |   |

SAT UNSAT Comment Number

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|                                      | 6. 5.10  | 1. Open 1E51-F013, RCIC Pump Disch To Rx Outbd Isol Valve.   |
|--------------------------------------|--|--|
|                                      | ne en rennen an de la contra on antida con a la casa de la casa de<br>La casa de la | 2. Shut 1E51-F022 and F059, RCIC Pmp First (Second) Test Valve to Stor Tank.   |
|                                      |  | Adjust RCIC Turb Flow Controller, C61-R001 to maintain flow 80 to 700 gpm.   |
|                                      |  | 4. Shut 1E51-F019, RCIC Pmp Min Flow Recirc To Suppr Pool.   |
| Mail day 1 year bollow and outplaces | erne film inninferensinde bester utgete botten vir den staten in den som   | 5. Verify 1VY04C, RCIC Pmp Rm Sply Fan has started.  |
|                                      |  | б.   |
|                                      | Standard   | Opens 1E51-F013 to feed the RPV, RED status light lit.   |
|                                      |  | Closes 1E51-F022 and F059, GREEN status lights lit.  |
|                                      |  | Monitors RCIC flow indication and adjusts Controller C61-R001 to maintain 80 to 700 gpm flow.  |
|                                      |  | Closes 1E51-F019, GREEN status light lit.  |
|                                      | · · · · · · · · · · · · · · · · · · ·  | Verifies RCIC Pmp Rm Sply Fan is running, RED status light lit.  |
|                                      | CUE  |  |
|                                      | Comments   |  |
|                                      |  |  |
|                                      |  | SAT UNSAT Comment Number   |
| $\bigcirc$                           | ى يې   | n seneral present of a first of the seneral sector of the seneral sector of the seneral sector of the seneral s<br>The seneral sector of the |
|                                      | *7.  | Places controller C61-R001 selector to 'M' (MANUAL).   |
|                                      | Standard   | Positions Controller C61-R001 mode selector to the left in 'M' position.   |
|                                      | CUE  |  |
|                                      | Comments   | OP-AA-101-111 step 4.6.4.7 directs taking manual control   |
|                                      |  |  |

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## JPM NUMBER: B.2.b.2

**REVISION:** <u>00</u>

| ^ð.<br>Gene   | Aujusts controller in MANUAL to Faise KCIC   | tur nine speeu and                                     | ı pump                                |
|---|--|--|---------------------------------------|
|   | now above minimum requirements.  |  |                                       |
| nggapana sanganannaganannananan masaanan                                  |  |  | ales VII. Lanato VIII. 43 militarios  |
| Standard  | Adjusts Controller to establish >60 gpm flow and   | >1500 rpm.   | 0.00.000                              |
| CUE<br>Comments   | · · · · · · · · · · · · · · · · · · ·  |  |                                       |
|   | SAT UNSAT Comment Number   |  |                                       |
| 9. 5.9  | While continuing with steps 5.10 or 5.11:  |  |                                       |
|   | At DC MCC 1A-12A (1DC13E), open circuit #21  | •  |                                       |
| Standard  | An operator is dispatched to open circuit #21 at D<br>(1DC13E).  | C MCC 1A-12A   |                                       |
| CUE   | Report as the operator that circuit #21 at DC MCC  | C 1A-12A (1DC13E                                       | E) is                                 |
|   | A ZE L'UN  |  |                                       |
| Comments  |  |  |                                       |
| Comments  |  |  |                                       |
| Comments  | SAT UNSAT Comment Number   |  |                                       |
| Comments<br>TERMINATING<br>RCIC flow<br>and 700 gpt                       | SAT UNSAT Comment Number<br>CUES:<br>to the RPV is being manually controlled at the Remote S<br>m.   | hutdown Panel bet                                      | ween 80                               |
| Comments<br>TERMINATING<br>RCIC flow<br>and 700 gpt<br>STOP TIME:         | SAT UNSAT Comment Number<br>CUES:<br>to the RPV is being manually controlled at the Remote S<br>m.   | hutdown Panel bet                                      | ween 80                               |
| Comments<br>TERMINATING<br>RCIC flow<br>and 700 gpt<br>STOP TIME:         | SAT UNSAT Comment Number<br>CUES:<br>to the RPV is being manually controlled at the Remote S<br>m.<br><u>K/A REFERENCE NUMBERS</u>   | hutdown Panel bet                                      | ween 80                               |
| Comments<br>TERMINATING<br>RCIC flow<br>and 700 gpi<br>STOP TIME:         | SAT UNSAT Comment Number<br>CUES:<br>to the RPV is being manually controlled at the Remote S<br>m.<br><u>K/A REFERENCE NUMBERS</u>   | hutdown Panel bet                                      | ween 80                               |
| Comments TERMINATING RCIC flow and 700 gpi STOP TIME:                     | SAT UNSAT Comment Number<br>CUES:<br>to the RPV is being manually controlled at the Remote S<br>m.<br><u>K/A REFERENCE NUMBERS</u>   | hutdown Panel bet                                      | ween 80                               |
| Comments TERMINATING RCIC flow and 700 gpi STOP TIME:                     | SAT UNSAT Comment Number<br>CUES:<br>to the RPV is being manually controlled at the Remote S<br>m.<br><u>K/A REFERENCE NUMBERS</u><br>UMBER K/A NUMBER   | hutdown Panel bet<br>Importance Ra                     | ween 80<br>ating<br>SRO               |
| Comments TERMINATING RCIC flow and 700 gpi STOP TIME:                     | SAT       UNSAT       Comment Number         CUES:       to the RPV is being manually controlled at the Remote S         m.       K/A REFERENCE NUMBERS         UMBER       K/A NUMBER         A2.10       A2.10                       | hutdown Panel bet<br>Importance Ra<br><u>RO</u><br>3.1 | ween 80<br>ating<br><u>SRO</u><br>3.1 |
| Comments TERMINATING RCIC flow and 700 gpi STOP TIME: K/A SYSTEM N 217000 | SAT       UNSAT       Comment Number         CUES:       to the RPV is being manually controlled at the Remote S         m.  | hutdown Panel bet<br>Importance Ra<br><u>RO</u><br>3.1 | ween 80<br>ating<br><u>SRO</u><br>3.1 |
| Comments TERMINATING RCIC flow and 700 gpi STOP TIME: K/A SYSTEM N 217000 | SAT       UNSAT       Comment Number         CUES:       to the RPV is being manually controlled at the Remote S         m.  | hutdown Panel bet<br>Importance Ra<br><u>RO</u><br>3.1 | ween 80<br>ating<br><u>SRO</u><br>3.1 |
| Comments TERMINATING RCIC flow and 700 gpi STOP TIME: K/A SYSTEM N 217000 | SAT       UNSAT       Comment Number         CUES:         to the RPV is being manually controlled at the Remote S         m.       K/A REFERENCE NUMBERS         K/A REFERENCE NUMBERS         UMBER         K/A NUMBER         A2.10 | hutdown Panel bet<br>Importance Ra<br><u>RO</u><br>3.1 | ween 80<br>ating<br><u>SRO</u><br>3.1 |
| Comments TERMINATING RCIC flow and 700 gpi STOP TIME: K/A SYSTEM N 217000 | SAT       UNSAT       Comment Number         CUES:       to the RPV is being manually controlled at the Remote S         m.  | hutdown Panel bet<br>Importance Ra<br><u>RO</u><br>3.1 | ween 80<br>ating<br><u>SRO</u><br>3.1 |

Page 10 of 11

JPM NUMBER: B.2.b.2

**REVISION: 00** 

#### INITIATING CUE

The Main Control Room has been evacuated. Subsequent actions of CPS 4003.01 have been completed. CPS 4003.01C002 has been performed through Step 5.3.

The CRS directs you to complete the RCIC system startup from the Remote Shutdown Panel and inject to the Reactor Vessel to control RPV water level, Level 3 to Level 8 per CPS 4003.01C002, RSP - RCIC Operation.



OP-AA-101-111 Revision 0 Page 6 of 8

## 4.6.1. **REPORT** to the Unit Supervisor.

- 4.6.2. **OPERATE** the plant in accordance with approved procedures, and within the Limiting Conditions for Operation of the Technical Specifications to ensure the reactor is operated in a safe, conservative, and efficient manner at all times.
  - NOTE: The RO's immediate actions to stabilize the plant during transient conditions take priority over verbalization to the Unit Supervisor. If possible, verbalization should be accomplished to inform the Unit Supervisor of actions being taken.
  - During transient conditions, the RO may perform immediate operator actions of abnormal procedures from memory, while verbalizing actions being taken to the Unit Supervisor.
  - 2. Subsequent actions taken during transient conditions will be based on direction of the Unit Supervisor per the applicable procedure(s).
- 4.6.3. MAINTAIN an active Reactor Operator's license.
- 4.6.4. One RO on each unit <u>SHALL</u> be designated the Unit RO and <u>SHALL</u> be "at the controls" (as defined by each station).
  - ENSURE applicable Technical Specification time clocks are entered and exited and associated action requirement completed as appropriate based on the scope of the work.
  - 2. **MONITOR** the reactor and **ENSURE** reactor operation remains within established bands.
  - 3. **MONITOR** all assigned control room panels, and **NOTIFY** the Unit Supervisor regarding unusual or unexpected conditions.
  - 4. **MAINTAIN** cognizance of the activities and work impacting the unit, and the work of the assist RO(s) assigned to the unit.
  - 5. **COORDINATE** and/or **PERFORM** necessary reactivity changes on the unit during the shift.
  - 6. **SHUTDOWN** the reactor when the RO determines the safety of the reactor is in jeopardy or when operating parameters exceed any of the reactor protection circuit setpoints and automatic shutdown does <u>not</u> occur.

7. Manually **INITIATE** safety systems' automatic actions when operating parameters exceed the systems' automatic initiation setpoints and automatic initiation does <u>not</u> occur.



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# JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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|---|---|---------------------------------------|---|---------------------------------|
| -<br>Anti-Anti-Anti-Anti-Anti-Anti-Anti-Anti- |   | <b>1</b> .                            | Task description and number, JPM description a identified.  | nd number are                   |
|   |   | 2.                                    | Knowledge and Abilities (K/A) references are inc  | luded.                          |
|   |   | 3.                                    | Performance location specified. (in-plant, control  | room, or simulator)             |
|   |   | 4.                                    | Initial setup conditions are identified.  |                                 |
|   |   | 5.                                    | Initiating and terminating cues are properly identi   | ified.                          |
|   |   | 6.                                    | Task standards identified and verified by SME re  | view.                           |
|   |   | 7.                                    | Critical steps meet the criteria for critical steps ar an asterisk (*).   | nd are identified with          |
| u a ser beröge ander er state                 | e e constante de la constante d | - 8.                                  | Verify the procedure referenced by this JPM mat<br>current revision of that procedure:                              | ches the most                   |
|   |   | • • • • • • • • • • • • • • • • • • • | Procedure Rev Date  | ·····                           |
|   |   | 9.                                    | Pilot test the JPM:<br>a. Verify cues both verbal and visual are free of<br>b. Ensure performance time is accurate. | conflict, and                   |
|   |   | 10.                                   | If the JPM cannot be performed as written with p then revise the JPM.   | roper responses,                |
|   |   | 11.                                   | When JPM is revalidated, SME or Instructor sign cover page.   | and date JPM                    |
|   |   |                                       | en e  |                                 |
|   | SME / In  | structo                               | or – Signature / Printed  | Date                            |
|   | SME / In  | structo                               | or – Signature / Printed  | Date                            |
|   | SME / In  | structo                               | or – Signature / Printed  | Date                            |

<del>ور میکرد.</del> سینیتر سا

## JPM NUMBER: \_\_\_\_011286J009

**REVISION:** <u>05</u>

## -Revision Record (Summary)

| Revision | Date     | Description                                   |
|----------|----------|---|
| 00       | Unknown  | Unknown                                       |
| 01       | Unknown  | Unknown                                       |
| 02       | Unknown  | Unknown                                       |
| 03       | Unknown  | Unknown                                       |
| 04       | Unknown  | Unknown                                       |
| 05       | 04/17/02 | This is revision is due to new Exelon format. |

Page 3 of 10

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| с. <b>К</b> . С.   | JPM NUMBER: 011286J009 REVISION: 05  |   |
|--|--|---|
|  | Operator's Name:   | <mark>na sukana kana kana kana kana kana kana kana</mark>   |
|  | Job Title: $\Box$ NLO $\Box$ RO $\Box$ SRO $\Box$ STA $\Box$ SRO Cert.   |   |
| Name have a set of the sector of | JPM Title:Perform WS/FP Cross Tie IAW CPS No. 3213.01JPM Number:011286J009Revision Number:05Task Number and Title:011286C510 / Perform WS/FP Cross Tie IAW CPS No. 3213.01   |   |
|  | K/A Number 286000 A1.05 Importance 3.2/3.2   |   |
|  | Suggested Testing Environment: Plant   |   |
|  | Actual Testing Environment:  |   |
|  | Testing Method:Image: SimulateAlternate Path / Faulted:Image: YesImage: NoImage: Decision of the state o |   |
|  | Time Critical: 🗌 Yes 🖬 No  | and a state with the state of the |
| <u>, and the second relation with a</u>  | Estimated Time to Complete: <u>40 minutes</u> Actual Time Used: minutes  | 999 <b>90-999-99</b> 1 - 999-999-999-999-999-999-999-999-999-   |
|  | References: CPS 3213.01, Fire Detection and Protection   |   |
|  | EVALUATION SUMMARY:  |   |
|  | Were all the Critical Elements performed satisfactorily?   |   |
|  | The operator's performance was evaluated against the standards contained in this JPM, and has  |   |
|  | been determined to be:        Image: Satisfactory     Image: Satisfactory  |   |
|  | Comments:  |   |
|  |  |   |
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|  | Evaluator's Name:  |   |
|  |  |   |
|  | Evaluator's Signature: Date:   | •••   |
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| er   |  |   |
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|  | $\mathbf{P}_{ace} \mathbf{\Lambda} of 10$  |   |

Page 4 of 10

JPM NUMBER: 011286J009

#### **READ TO THE OPERATOR**

I will explain the initial conditions, which step(s) to simulate or discuss, and provide the initiating cues. When you complete the task successfully, the objective of this Job Performance Measure will be satisfied. No equipment or controls will be manipulated during this evaluation, only **Simulated** Actions will occur.

#### SIMULATOR SET-UP CONDITIONS:

Not Applicable

#### **TASK STANDARDS:**

• Operator actions performed per CPS No. 3213.01

#### **TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:**

None

#### PROCEDURAL/REFERENCES:

CPS 3213.01, Fire Detection and Protection

#### **EVALUATOR INSTRUCTIONS:**

Amplifying cues are provided within the JPM steps. Start from either the MCR or Turbine Bldg. 737'. If at the T.B. 737', then need to have a copy of the procedure to give to the operator.

#### NITIAL CONDITIONS AND INITIATING CUE:

A fire exists in the plant, you have been directed to cross tie the WS System and FP System, due to a loss of the 0FP01PA & B per CPS 3213.01, Fire Detection and Protection.

START TIME:

# CLINTON POWER STATION

| JPM NUN                              | /IBER: 0112  | SYSTEM JPM<br>286J009 REVISION:  |
|--------------------------------------|--|--|
|                                      | andia di Angelan di Angelanda yang                     | PERFORMANCE INFORMATION  |
| Critical s<br>Failure to<br>sequence | teps are denoted<br>meet the stand<br>of steps is assu | d with an asterisk (*) to the left of the step number and appear in <b>BOLDED</b> letters.<br>ards for a critical step constitutes failure of the Job Performance Measure. The<br>med unless denoted in the comments section of the JPM. |
|                                      |  | PERFORMANCE STEPS  |
| 8.8                                  | Use of WS/   | FP Crosstie Line as a Backup for 0FP01PA or 0FP01PB.   |
| *1                                   |  | Open 1FP035 WS/FP Crosstie Isolation Valve.  |
|                                      | Standard:  | The operator takes the 1FP035 valve to the open position, and reports that the valv is open to the MCR.  |
|                                      | Cue:   | The valve is turning, (if going in the open direction), valve stops (Stem showing), flow noise appears as valve opens. As the MCR, accept operator report.   |
|                                      | Comments:  | 2.1.4 If 0FP01PA and 0FP01PB are not operable then Service Water (WS)<br>may be used as a backup per 8.2.17 and WS pressure raised to at least<br>144 psig at 1PIWS107 in the event of a fire.   |
|                                      |  | Location NW 737' TB (Rising Stem Gate Valve)   |
|                                      |  | Actual name tag on valve "UNIT 1 WS SUPPLY TO FP ISOL"   |

UNSAT

SAT

Comment Number

Page 6 of 10

| TPM NUMBED. 011   | 20/ 1000  | SYS   | STEM JPM  |   |
|---|---|---|---|---|
|   | 2803009   |   |   | <b>REVISION:</b>  |
|   | Isolate S<br>SX Head<br>Pumps, p                | X Divs 1, 2, 3 f<br>er Isolations. 7<br>per CPS No. 32  | rom WS by Closing/Check Clos<br>This can be done by starting 1SX<br>11.01, SHUTDOWN SERVICE                             | e 1SX014A, B, & C, WS<br>01PA, PB, & PC, SX<br>WATER (SX), if desired.                              |
| Standard:   | MCR wil   | ll start as neede   | d.<br>Antoine for the second | e ma <del>n</del> ana ang mananana  |
| Cue:  | If asked,                                       | as the MCR, S   | X pumps will be started as neede  | ed.   |
| Comments:   |   |   |   |   |
|   | SAT   | UNSAT   | Comment Number  |   |
| 3   | Raise and<br>performin                          | l maintain WS   | Header Pressure at or above 144 as needed:  | psig on 1PI-WS107 by  |
|   | 1. Start<br>(WS)                                | Standby WS Pi   | umps per CPS No. 3212.01, PLA   | NT SERVICE WATER  |
| Standard  | MCP wil   | 1 perform this s  |   |   |
| Cue:  |   | r perform uns s   | и <b>ср.</b>  |   |
| Comments:   | n<br>Vindose of securities Bardina in Anno 1999 | an an<br>Bhailtean Charles an Air an Air an Air an<br>Bhailtean Air an Air   | lanan mananan kara seri seri seri perdekat dalam da basa yanang seri seri kema da seri a seri per                       | این از این این موجود موجود می با این این این این این این این این این ای                             |
|   | SAT   | UNSAT   | Comment Number  |   |
|   |   | <b>.</b>  |   |   |
| a - an  | <br>  |   |   | n ta na mar agus a bha na bha |
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| n an farain an amhrain an ann ann an Shan Maranan ann an Ann Ann Ann an Ann an Ann an Ann an Ann an Ann an Ann<br>Ann an Ann an |   | n na serie de la serie de<br>La serie de la s |   |   |
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Page 7 of 10

## JPM NUMBER: \_\_011286J009

**REVISION:** 05

| Raise and maintain WS Header Pressure at or above 144 psig on 1PI-WS107 by performing in any order as needed:  |
|--|
| 2 Isolate/Throttle 1WS109/2WS109, WO Chiller Bypass.   |
| The operator will check the 1WS109/2WS109 valves in the closed position.   |
| As the MCR, direct the operator to verify and if necessary throttle/close the 1WS109/2WS109 and the 0WS031 to increase pressure. We will have the "E" area operator take care of the 1WS230 valve.                       |
| As the MCR accept the report that the 109 valves are locked shut. As the MCR state that the pressure is still not at the proper range, and that the operator is to go to the 0WS031 valve and throttle/close that valve. |
| 1WS109 WS HDR ISOL (CB 702' V-129) valve padlocked shut.   |
| 2WS109 WS HDR ISOL (CB 702' V-130) valve padlocked shut.   |
| Both valves are butterfly valves with open/closed indication on top.   |
| SAT UNSAT Comment Number   |
| Raise and maintain WS Header Pressure at or above 144 psig on 1PI-WS107<br>by performing in any order as needed:   |
| 4 Isolate/Throttle 0WS031, WS Bypass Around CC Heat Exchanger.   |
| The operator turns the 0WS031 valve in the close direction, and reports to the MCR.  |
| The valve is turning if going in the closed direction, then it stops. The operator will<br>also hear flow noise stop as the valve shuts. As the MCR tell the operator that WS<br>pressure is now in the proper range.    |
| Location - above the Chem. Lab CB 755' Y130, Valve is not locked, valve is upside down with the indicator at the "bottom"  |
|  |
| SAT UNSAT Comment Number   |
|  |

Page 8 of 10

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### JPM NUMBER: \_\_011286J009

**REVISION:** <u>05</u>

## **TERMINATING CUES:**

When the operator has the WS/FP cross tie value open and the 0WS031, WS Bypass Around CC Heat Exchanger closed, and reported to the MCR.

#### **STOP TIME:**

| K/A REFEREN       | CE NUMBERS |                   |     |  |
|-------------------|------------|-------------------|-----|--|
|                   |            | Importance Rating |     |  |
| K/A System Number | K/A Number | RO                | SRO |  |
| 286000            | A1.05      | 3.2               | 3.2 |  |

Page 9 of 10

a); 232

JPM NUMBER: 011286J009

## **REVISION: 05**

## INITIATING CUE

A fire exists in the plant, you have been directed to cross tie the WS System and FP System, due to a loss of the 0FP01PA & B per CPS 3213.01, Fire Detection and Protection.

Page 10 of 10


| Facility: Clinton Power StationDate of ExaminationExam Level (circle one): RO / SRO(I) / SRO(U)Operating Texamination  | amination: _7<br>st Number: _1 | <u>//29/2002</u><br>ILT0101-3 |
|--|--------------------------------|-------------------------------|
| 3.1 Control Room Systems   |                                | <u></u>                       |
| System / JPM Title   | Type<br>Code*                  | Safety<br>Function            |
| <ul> <li>Low Pressure Core Spray: JPM 011209J001, Manually S/D</li> <li>LPCS with Initiation Signal Present, K/A 209001.A4.01, Imp 3.8 / 3.6</li> </ul>                                  | D,S,L                          | 4                             |
| <ul> <li>RHR: Suppression Pool Cooling Mode: JPM 011205J010,<br/>Place RHR in Suppression Pool Cooling, K/A 219000.A4.01, Imp<br/>3.8 / 3.7</li> </ul>                                   | D,S,A                          | 5                             |
| Reactor Feedwater: JPM 011259J004, Startup the Motor Driven<br>Reactor Feed Pump, K/A 259001.A4.02, Imp 3.9 / 3.7  | D,S,L                          | 2                             |
| Emergency Generator: JPM 011264J002, Parallel DG 1A with<br>Off Site Power, K/A 264000.A4.05, Imp 3.6 / 3.7  | D,S                            | 6                             |
| <ul> <li>Main Steam: JPM 014200J005, Reset Group 1 Isolation and<br/>Establish Pressure Control Using the MSL Drains, K/A<br/>239001.A4.02, Imp 3.2 / 3.2</li> </ul>                     | D,S,L                          | 3                             |
| . Recirculation: JPM (NEW), Transfer RR Fast to Slow with a Trip of One Recirc Pump, K/A 202001.A2.03, Imp 3.6 / 3.7   | N,S,A,L                        | 1                             |
| Plant Ventilation: JPM 011288J006, Place the Continuous<br>Containment Purge System (CCP) in the Filter Mode (AUTO),<br>K/A 288000.A4.01, Imp 3.1 / 2.9                                  | D,S                            | 9                             |
| 3.2 Facility Walk-Through  |                                | <u> </u>                      |
| <ul> <li>Reactor Protection System: JPM 045200J022, Open Reactor<br/>Protection System Scram Breakers Outside of the MCR, K/A<br/>295015.AA1.02, Imp 4.0 / 4.2</li> </ul>                | D,R,L                          | 7                             |
| <ul> <li>Fire Protection: JPM (NEW), 041286J003, Reset of an<br/>overspeed and a diesel engine restart to support firefighting<br/>Operation, K/A 286000.A4.06, Imp 3.4 / 3.4</li> </ul> | N,A                            | 8                             |
| Safety Relief Valves: JPM 015200J042, Operate a SRV from the Remote Shutdown Panel, K/A 239002 A2 06, Jmp 4 1 / 4 3  | S,D,A,L                        | 3                             |

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NUREG-1021, Revision 8, Supplement 1

ES-301 Control Room Systems and Facility Walk-Through Test Outline Form ES-301-2

| Fac<br>Exa   | ility: <u>Clinton Power Station</u> Date of E<br>m Level (circle one): RO / SRO(I) / <b>SRO(U)</b> Operating  | Examination: <u>7</u><br>Fest Number: 1 | amination: <u>7/29/2002</u><br>st Number: <b>ILT0101-3</b> |  |  |
|--------------|---|---|--|--|--|
| B.1          | Control Room Systems  |   | -10, D141-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1              |  |  |
|              | System / JPM Title  | Type<br>Code*                           | Safety<br>Functior   |  |  |
| C.           | Reactor Feedwater: JPM 011259J004, Startup the Motor Drive<br>Reactor Feed Pump, K/A 259001.A4.02, Imp 3.9 / 3.7  | en D,S,L                                | 2  |  |  |
| e.           | Main Steam: JPM 014200J005, Reset Group 1 Isolation and<br>Establish Pressure Control Using the MSL Drains, K/A<br>239001.A4.02, Imp 3.2 / 3.2                      | D,S,L                                   | 3  |  |  |
| f.           | <b>Recirculation:</b> JPM (NEW), Transfer RR Fast to Slow with a Tr<br>of One Recirc Pump, K/A 202001.A2.03, Imp 3.6 / 3.7  | ip N,S,A,L                              | 1  |  |  |
| B.2          | Facility Walk-Through   |   |  |  |  |
| a.           | Reactor Protection System: JPM 045200J022, Open Reactor<br>Protection System Scram Breakers Outside of the MCR, K/A<br>295015.AA1.02, Imp 4.0 / 4.2                 | D,R,L                                   | 7  |  |  |
| b.           | <b>Fire Protection:</b> JPM (NEW), 041286J003, Reset of an overspeed and a diesel engine restart to support firefighting Operation, K/A 286000.A4.06, Imp 3.4 / 3.4 | N,A                                     | 8  |  |  |
| * Ty<br>roor | pe Codes: (D)irect from bank, (M)odified from bank, (N)ew, (A)lt<br>n, (S)imulator, (L)ow Power, (R)CA  | ernate path, (C                         | )ontrol  |  |  |

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NUREG-1021, Revision 8, Supplement 1



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### CLINTON POWER STATION

JOB PERFORMANCE MEASURE WORKSHEET

**JPM NUMBER**: 011209J001

**REVISION**: 06

### JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

| IOTE: All s<br>usag | teps of this checklist should be performed upon<br>ge, revalidate JPM using steps 8 through 11 bel  | n initial validation. Prior to JPM<br>low. |
|---------------------|---|--|
|                     | 1. Task description and number, JPM descript identified.  | ion and number are                         |
|                     | 2. Knowledge and Abilities (K/A) references ar  | re included.                               |
|                     | <ol> <li>Performance location specified. (in-plant, co<br/>simulator)</li> </ol>  | ontrol room, or                            |
|                     | 4. Initial setup conditions are identified.   |  |
|                     | 5. Initiating and terminating cues are properly   | identified.                                |
|                     | 6. Task standards identified and verified by SM   | ME review.                                 |
|                     | <ol> <li>Critical steps meet the criteria for critical ste<br/>with an asterisk (*).</li> </ol>   | eps and are identified                     |
|                     | <ol> <li>Verify the procedure referenced by this JPM<br/>current revision of that procedure:</li> <li>Procedure Rev. Date</li> </ol>        | 1 matches the most                         |
|                     | <ol> <li>Pilot test the JPM:</li> <li>a. verify cues both verbal and visual are free<br/>b. ensure performance time is accurate.</li> </ol> | e of conflict, and                         |
|                     | 10. If the JPM cannot be performed as written v responses, then revise the JPM.   | vith proper                                |
|                     | 11. When JPM is revalidated, SME or Instructor  | r sign and date JPM                        |
|                     | cover page.   |  |
| S                   | SME/Instructor  | Date                                       |
|                     |   |  |
| S                   | SME/Instructor  | Date                                       |
| 5                   | SME/Instructor  | Date                                       |
|                     |   |  |
|                     |   |  |
|                     |   |  |
|                     |   |  |

**JPM NUMBER**: 011209J001

**REVISION**: 06

### **Revision Record (Summary)**

- 1. **Revision 05** This is revision is due to new Exelon format.
- 2. **Revision 06** Update setpoints to CPS 3313.01, Revision 14

Page 3 of 10

|   | CLINTON PO  | VER STATION  |
|---|---|--|
| . <b>,</b>  | JOB PERFORMANCE N<br>JPM NUMBER:011209J001  | IEASURE WORKSHEET <b>REVISION</b> :06  |
|   | Operator's Name:  |  |
| aja pinan dipinan dipinan menje   | Job Title: 🗆 NLO 🗅 RO 🗅 SRO 🗅   | STA 🖸 SRO Cert   |
|   | JPM Title:Manually Shutdown LPCS WithJPM Number:011209J001Revision Number:06Task Number and Title:331301.05, Manually SHK/A Number209001.A4.01Importa | An Initiation Signal Present<br>autdown LPCS With An Initiation Signal Present<br>ance 3.8 / 3.6 |
|   | Suggested Testing Environment: Simulator  |  |
|   | Actual Testing Environment:   | or 🖸 Plant 🖬 Control Room  |
|   | Testing Method: 🖸 Simulate Alte   | ernate Path /Faulted: 🗅 Yes 🔳 No   |
|   | Perform   |  |
|   | Time Critical: 🗋 Yes 📕 No   |  |
|   | Estimated Time to Complete:10 minutes Ac  | tual Time Used: minutes  |
| <br>ninglegippinings, and fearly divide the trans or sim-<br>gently arrival transitions. And the second | References: CPS No. 3313.01, LOW PRESSURE   | CORE SPRAY, Step 8.1.6.  |
|   | EVALUATION SUMMARY  |  |
|   | Were all the Critical Elements performed satisfactori   | ly? 🖵 Yes 🗔 No   |
|   | The operator's performance was evaluated against the determined to be:  | e standards contained in this JPM, and has been<br>Unsatisfactory                                |
|   | Comments:   |  |
|   |   |  |
|   |   |  |
|   |   |  |
|   |   |  |
|   | Evaluator's Name  |  |
|   | Dvaluator 5 Ivanic.   |  |
|   | Evaluator's Signature: ]  | Date:  |
|   |   |  |
|   |   |  |
|   |   |  |
|   |   |  |
|   |   | Page 4 of 10   |
|   |   |  |

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#### CLINTON POWER STATION JOB PERFORMANCE MEASURE WORKSHEET

#### **JPM NUMBER**: 011209J001

**REVISION**: 06

### READ TO THE OPERATOR

I will explain the initial conditions, which step(s) to simulate or discuss, and provide the initiating cues. When you complete the task successfully, the objective of this Job Performance Measure will be satisfied.

### SIMULATOR SET-UP CONDITIONS:

Initiate to an IC with less than 400 psig reactor pressure. Initiate a LOCA signal by using malfunction MS05A to approximately 1% to cause a high Drywell pressure initiation. Terminate HPCS and LPCI injection by shutting their injection valves.

### TASK STANDARDS:

LPCS is shutdown with an initiation signal present.

### **TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:**

#### None

### PROCEDURAL/REFERENCES:

CPS No. 3313.01, LOW PRESSURE CORE SPRAY, Step 8.1.6.

### **EVALUATOR INSTRUCTIONS:**

Amplifying cues are provided within the JPM steps.

### **INITIAL CONDITIONS AND INITIATING CUE:**

There is a leak in the Drywell causing Hi DW pressure conditions. LPCS is being injected into the Reactor Vessel. Adequate core cooling is assured. Manually shutdown LPCS.

**START TIME:** 

Page 5 of 10

### CLINTON POWER STATION JOB PERFORMANCE MEASURE WORKSHEET

**JPM NUMBER**: 011209J001

**REVISION**: 06

### **PERFORMANCE INFORMATION**

Critical steps are denoted with an asterisk (\*) to the left of the step number and appear in **BOLDED** letters. Failure to meet the standards for a critical step constitutes failure of the Job Performance Measure. The sequence of steps is assumed unless denoted in the comments section of the JPM.

### **PERFORMANCE STEPS**

### 8.1.6 SHUTDOWN - INITIATION SIGNAL PRESENT

 8.1.6.1
 During LPCS operation, verify as appropriate that 1E21-F011, LPCS Pump Min

 Flow Recirc Valve:
 Opens whenever LPCS flow is < 875 gpm, and</td>

 Shuts whenever LPCS flow is ≥ 875 gpm.
 Stats whenever LPCS flow is ≥ 875 gpm.

 STANDARD:
 Red light ON for 1E21-F011 and green light ON for 1E21-F006, when Min Flow

 required.
 COE:

 COMMENTS:
 SAT\_\_\_\_\_UNSAT\_\_\_\_Comment Number

Page 6 of 10

| ,<br>JPM NUMBER: | JOB PERFORMANCE M<br>011209J001   | EASURE WORKSHEET<br>REVISION:06  |
|------------------|---|--|
| *8.1.6.2         | Shut 1E21-F005, LPCS To CN  | NMT Outbd Isol Valve.  |
| STANDARD:        | The operator takes the switch fo<br>light is ON for 1E21F005 and the second | or 1E21-F005 to the Shut position until the green he red light is OFF.   |
| CUE:             | namen a substant forma a la substant de la substant<br>An disconstructural de la substant de la substant de la substant de la substant de la substance de la substant<br>An disconstructural de la substant d  |  |
| COMMENTS:        | The annunciator "LPCS INJEC alarms.   | TION VALVE IN MANUAL OVERRIDE"   |
|                  |   | a se a companya se a companya da compa |
|                  | SATUNSAT_   | Comment Number   |
| *8.1.6.3         | Stop LPCS Pump, 1E21-C001   | •  |
| STANDARD:        | The operator takes the LPCS pu<br>the green light is ON for LPCS  | mp switch 1E21-C001 to the OFF position until<br>PUMP and the red light is OFF.                                |
| CUE:             |   |  |
| COMMENTS:        | 1. The annunciator "LPCS  | PUMP AUTO START" clears.   |
|                  | 2. The annunciators "LPC<br>PUMP IN MANUAL C  | S PUMP AUTO START FAILURE AND LPCS<br>VERRIDE" alarm.  |
|                  |   |  |
|                  | SAT UNSAT _   | Comment Number   |
| · · · ·          |   |  |
|                  |   |  |
|                  |   |  |

Page 7 of 10

### CLINTON POWER STATION JOB PERFORMANCE MEASURE WORKSHEET

| 8.1.6.4       Verify LPCS Pmp Rm Sply Fan, 1VY01C, stops.         STANDARD:       Green light ON for 1VY01C, (1H13-P800).         CUE:  |
|---|
| STANDARD:       Green light ON for 1VY01C, (1H13-P800).         CUE:       COMMENTS:       If room temperature is 68°F or above, the LPCS Pump Room Supply Fan will not stop until room temperature decreases to 65°F.  |
| CUE:         COMMENTS:       If room temperature is 68°F or above, the LPCS Pump Room Supply Fan will not stop until room temperature decreases to 65°F.  |
| COMMENTS:       If room temperature is 68°F or above, the LPCS Pump Room Supply Fan will not stop until room temperature decreases to 65°F.         SATUNSATComment Number         8.1.6.5       When initiation conditions have cleared, Depress LPCS/LPCI FM RHR A SEAL IN RESET push-button, and note LPCS/LPCI INITIATION SEAL IN RESET LIGHT is OFF.         STANDARD:       White and red lights above LPCS/LPCI FM RHR A SEAL IN RESET pushbutton are not illuminated.         CUE:       CUE:   |
| COMMENTS:       If room temperature is 68°F or above, the LPCS Pump Room Supply Fan will not stop until room temperature decreases to 65°F.         SAT       UNSAT       Comment Number         8.1.6.5       When initiation conditions have cleared, Depress LPCS/LPCI FM RHR A SEAL IN RESET push-button, and note LPCS/LPCI INITIATION SEAL IN RESET LIGHT is OFF.         STANDARD:       White and red lights above LPCS/LPCI FM RHR A SEAL IN RESET pushbutton are not illuminated.         CUE:       CUE:   |
| SAT       UNSAT       Comment Number         8.1.6.5       When initiation conditions have cleared,<br>Depress LPCS/LPCI FM RHR A SEAL IN RESET push-button, and note<br>LPCS/LPCI INITIATION SEAL IN RESET LIGHT is OFF.         STANDARD:       White and red lights above LPCS/LPCI FM RHR A SEAL IN RESET pushbutton<br>are not illuminated.         CUE:       COMMENTS:       The white light shows the LPCS / DCL EM PURE A SEAL IN DESET with the fight shows the LPCS / DCL EM PURE A SEAL IN DESET.   |
| 8.1.6.5       When initiation conditions have cleared,<br>Depress LPCS/LPCI FM RHR A SEAL IN RESET push-button, and note<br>LPCS/LPCI INITIATION SEAL IN RESET LIGHT is OFF.         STANDARD:       White and red lights above LPCS/LPCI FM RHR A SEAL IN RESET pushbutton<br>are not illuminated.         CUE:       COMMENTS:         The white light shows the LPCS/LPCI FM RHR A SEAL DI DESET muchanter   |
| STANDARD:       White and red lights above LPCS/LPCI FM RHR A SEAL IN RESET pushbutton         are not illuminated.         CUE:         COMMENTS:       The white light shows the LPCS/LPCI FM RHR A SEAL IN RESET with the start of the LPCS/LPCI FM RHR A SEAL IN RESET with the start of the LPCS/LPCI FM RHR A SEAL IN RESET with the start of the LPCS/LPCI FM RHR A SEAL IN RESET with the start of the LPCS/LPCI FM RHR A SEAL IN RESET with the start of the LPCS/LPCI FM RHR A SEAL IN RESET with the start of the LPCS/LPCI FM RHR A SEAL IN RESET with the start of the LPCS/LPCI FM RHR A SEAL IN RESET with the start of the LPCS/LPCI FM RHR A SEAL IN RESET with the start of the LPCS/LPCI FM RHR A SEAL IN RESET with the start of the LPCS/LPCI FM RHR A SEAL IN RESET with the start of the LPCS/LPCI FM RHR A SEAL IN RESET with the start of the start of the LPCS/LPCI FM RHR A SEAL IN RESET with the start of th |
| CUE:  |
| CUE:  |
| COMMENTS. The white light shows the LDCC/LDCLENA DID A SEAL DIDECET   |
| indicates the initiation conditions have NOT cleared, high drywell pressure is still<br>active.   |
| SAT UNSAT Comment Number  |
|   |
|   |
|   |
|   |
|   |
|   |

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### CLINTON POWER STATION JOB PERFORMANCE MEASURE WORKSHEET

### **JPM NUMBER**: \_011209J001

**REVISION**: 06

### TERMINATING CUES:

## LPCS is shutdown with an initiation signal present.

### **STOP TIME:**

### **K/A REFERENCE NUMBERS**

|                          |            | Importance Rating |     |
|--------------------------|------------|-------------------|-----|
| <u>K/A SYSTEM NUMBER</u> | K/A NUMBER | RO                | SRO |
| 209001                   | A4.01      | 3.8               | 3.6 |
|                          | A4.03      | 3.7               | 3.6 |
|                          | SG 9       | 3.9               | 3.7 |
|                          | SG 13      | 3.7               | 3.7 |

### CLINTON POWER STATION -JOB PERFORMANCE MEASURE WORKSHEET

### **JPM NUMBER**: 011209J001

**REVISION**: 06

### **INITIATING CUE**

There is a leak in the Drywell causing Hi DW pressure conditions. LPCS is being injected into the Reactor Vessel. Adequate core cooling is assured. Manually shutdown LPCS.

Page 10 of 10



|         | <u></u> | CLINTON POWER STAT               | ΓΙΟΝ          |
|---------|---------|----------------------------------|---------------|
|         |         | Job Performance Meas             | sure          |
|         |         |                                  |               |
|         |         | JPM Number: B.1.b.3              |               |
|         |         | Revision Number: 01              |               |
|         |         | Date: 08/02/2001                 |               |
| Develop | ed By:  | Carl Leach                       | <u>8/2/01</u> |
|         |         | Instructor                       | Date          |
| Validat | ted By: | T Pickley                        | 5/5/02        |
|         |         | SME or Instructor                | Date          |
| Revi    | ew By:  | P. O'Brien                       | 5/10/02       |
|         |         | <b>Operations Representative</b> | Date          |
| Approv  | ed By:  | B. Price                         | 5/23/02       |
|         |         | Training Department              | Date          |
|         |         |                                  |               |

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**JPM NUMBER: 011264J010** 

**REVISION**01

### JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

| <b>NOTE:</b> All steps of this checklist should be performed upon usage, revalidate JPM using steps 8 through 11 below | initial validation. Prior to JPM<br>ow.   |
|--|---|
|  |   |
| 1. Task description and number, JPM description identified.  | on and number are   |
| 2. Knowledge and Abilities (K/A) references are  | e included.   |
| 3. Performance location specified. (in-plant, co   | ntrol room, or  |
| 4. Initial setup conditions are identified.  |   |
| 5. Initiating and terminating cues are properly i  | dentified.  |
| 6. Task standards identified and verified by SM  | 1E review.  |
| 7. Critical steps meet the criteria for critical step<br>with an asterisk (*).   | ps and are identified   |
| 8. Verify the procedure referenced by this JPM current revision of that procedure:<br>Procedure Rev Date               | matches the most  |
| 9. Pilot test the JPM:   | nie zwiedzie werze werze werze werze werze werze werzen in der eine werzen werze der werzen an einen an einen w |
| a. Verify cues both verbal and visual are free<br>b. ensure performance time is accurate.                              | of conflict, and  |
| 10. If the JPM cannot be performed as written w responses, then revise the JPM.  | ith proper  |
| 11. When JPM is revalidated, SME or Instructor   | sign and date JPM   |
| cover page.  |   |
|  |   |
| SME/Instructor   | Date  |
|  |   |
| SME/Instructor   | Date  |
|  |   |
| SME/Instructor   | Date  |
|  |   |
|  |   |
|  |   |
| Revision Record (Summary)  |   |
|  |   |
|  |   |

Page 2 of 9

### JPM NUMBER: 011264J010

### **REVISION**<u>01</u>

- 1. Revision 00, This is a new JPM.
- Incorporating comments 2. Revision 01

Page 3 of 9

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|----------|---------------------|-------|-------|--------|----|
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### JPM NUMBER: 011264J010

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### **REVISION**<u>01</u>

| Operator's Name:   | SS#  |                 |                                 |  |   |
|--|--|-----------------|---------------------------------|--|---|
| Job Title: 🖸 NLO 🗖   | RO SRO   | STA 🗆 SF        | RO Cert                         |  |   |
| JPM Title: Place RHR A In Suppress   | ion Pool Cooling From  | m Standby per   | CPS No.                         | 3312.01                                  |   |
| JPM Number: 011205J010   | a na gana ang kanalan ing mang ng pang mang pang ang ang ang ang ang ang ang ang ang | Revisio         | n Numbe                         | r. 00                                    |   |
| Task Number and Title: 011205C544  | / Perform Suppression  | n Cooling Ope   | rations                         | 1. <u>00</u>                             |   |
| Suggested Testing Environment:   | Simulator  |                 |                                 |  |   |
| Actual Testing Environment:  | Simulator  | D Plant         |                                 | Control Room                             |   |
| <b>Testing Method:</b> Simulate Perform  | Faulted:<br>Alternate Path:  | I Yes I Yes     | <ul><li>No</li><li>No</li></ul> |  |   |
| Time Critical: 🗅 Yes 🔳   | No   |                 |                                 |  |   |
| Estimated Time to Complete: 10   | minutes Actual Ti  | ime Used:       | min                             | utes                                     | ·   |
| References: CPS No. 3312.01, RES   | IDUAL HEAT REMO  | OVAL, Sectior   | 1 8.1.9                         | n an | uninumentaa   |
| EVALUATION SUMMARY:  |  |                 |                                 |  |   |
| Were all the Critical Elements perform   | ned satisfactorily?  | Yes             | [] ]                            | No                                       | aaraya oogo oo yaa oo soo ahaa<br>Talaan ahaada da ahaa yaa |
| The operator's performance was evalu   | inted against the stars  | landa asutatu s | 11                              |  |   |
| determined to be:  | Satisfactory   | Unsatisfa       | d in this J                     | PM, and has been                         |   |
| determined to be:  | Satisfactory   | Unsatisfa       | d in this J                     | PM, and has been                         |   |
| determined to be:  | Satisfactory   | Unsatisfa       | d in this J                     | PM, and has been                         |   |
| determined to be:  | Satisfactory   | Unsatisfa       | d in this J                     | PM, and has been                         | • •   |
| determined to be:  | Satisfactory   |                 | d in this J                     |  | · · · · · · · · · · · · · · · · · · ·                       |
| determined to be:  | Satisfactory   |                 | d in this J                     | PM, and has been                         |   |
| Interpretation is performance was evaluated determined to be:       Image: Comments: | Satisfactory   |                 | d in this J                     |  |   |
| Intersection of performance was evaluated       determined to be:       Comments:    | Satisfactory   |                 |                                 |  |   |
| Interpretator is performance was evaluated determined to be:       Image: Comments:  | Date:  |                 |                                 |  |   |
| Interportation is performance was evaluated   determined to be:     Comments:        | Date:  |                 |                                 | PM, and has been                         |   |
| determined to be:     Comments:  | Date:  |                 |                                 | PM, and has been                         |   |
| determined to be:     Comments:  | Date:  |                 |                                 | PM, and has been                         |   |
| determined to be:     Comments:  | Date:  |                 |                                 | PM, and has been                         |   |

## CLINTON POWER STATION

### **JPM NUMBER: 011264J010**

#### **REVISION 01**

#### **READ TO THE OPERATOR**

I will explain the initial conditions, which step(s) to simulate or discuss, and provide the initiating cues. When you complete the task successfully, the objective of this Job Performance Measure will be satisfied.

#### SIMULATOR SET-UP CONDITIONS:

- 1. An IC with Plant Service Water (WS) supplying Div. I Shutdown Service Water (SX).
- 2. RHR Loop "A" is in the Standby Mode.
- 3. Insert Malfunction RH 02A to trip the RHR Pump A when SX82A RHR A HX MU Cond Inlet valve is being shut.

#### **TASK STANDARDS:**

RHR A Test Return Valve to Suppression Pool 1E12-F024A is shut after RHR A Pump is tripped.

### **TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:**

None

#### **PROCEDURAL REFERENCES:**

CPS No. 3312.01, RESIDUAL HEAT REMOVAL, Section 8.1.9

### **EVALUATOR INSTRUCTIONS:**

Amplifying cues may be provided within the JPM steps.

### **INITIAL CONDITION AND INITIATING CUE:**

Place RHR loop "A" in the Suppression Pool Cooling mode to accommodate SRV testing per CPS No. 3312.01, RESIDUAL HEAT REMOVAL.

START TIME:

Page 5 of 9

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|--------------------|-----------------------|-------------------|--------------------|---|--|-------------------------------|----|
| والمحاصر التستعلان | A 100 100 100 100 100 | THORE AND ADDRESS | 1.0.000 0000 00000 | No. of Concession, Name of Street, or other | Address of the Print Pri | Contraction and section bears |    |

SYSTEM JPM

**PERFORMANCE INFORMATION** 

**JPM NUMBER: 011264J010** 

### **REVISION 01**

Critical steps are denoted with an asterisk (\*) to the left of the step number and appear in **BOLD** letters. Failure to meet the standards for a critical step constitutes failure of the Job Performance Measure. The sequence of steps is assumed unless denoted in the comments section of this JPM.

| 8.1.9.2       During Pool Cooling Mode, verify as appropriate that<br>IE12-F064A, RHR Pump A Min Flow Recire Valve,<br>Opens whenever RHR flow is < 1100 gpm for > 8 sec, and<br>Shuts whenever RHR flow is > 1100 gpm.         STANDARD:       When RHR Pump A is started, verifies RHR Pump Minimum Flow Recire Valve<br>IE12-F064A opens and then closes when RHR Flow is >1100 gpm. (P601 meter)         CUE:       None         COMMENTS:  |  | PERFORMANCE STEPS   |
|---|--|---|
| Shuts whenever RHR flow is > 1100 gpm. STANDARD: When RHR Pump A is started, verifies RHR Pump Minimum Flow Recirc Valve IE12-F064A opens and then closes when RHR Flow is > 1100 gpm. (P601 meter) CUE: None COMMENTS: SATUNSATComment Number 8.1.9.3 To place RHR Loop A in suppression pool cooling: 8.1.9.3.1 Place/verify SX A PRM 1R1X-PR038, Shutdown Service Water A Effluent (SX) in service STANDARD: Verifies SXB PRM 1R1X-PR038 Shutdown Service Water A Effluent (SX) in service by Checking AR/PR Monitor. COMMENTS: SATUNSATComment Number 8.1.9.3.2 Verify WS available to RHR A Hx STANDARD: Verifies WS available to RHR A Hx by ensuring SSWSTR 1A Outlet pressure .> 100 psig on PI-SX028. CUE: NONE COMMENTS: SATUNSATComment Number | 8.1.9.2  | During Pool Cooling Mode, verify as appropriate that<br>1E12-F064A, RHR Pump A Min Flow Recirc Valve,<br>Opens whenever RHR flow is < 1100 gpm for > 8 sec, and |
| STANDARD:       When RHR Pump A is started, verifies RHR Pump Minimum Flow Recirc Valve (E12-F064A opens and then closes when RHR Flow is >1100 gpm. (P601 meter)         CUE:       None         COMMENTS:   |  | Shuts whenever RHR flow is $> 1100$ gpm.  |
| CUE:       None         COMMENTS:   | STANDARD:  | When RHR Pump A is started, verifies RHR Pump Minimum Flow Recirc Valve 1E12-F064A opens and then closes when RHR Flow is >1100 gpm. (P601 meter)               |
| COMMENTS:          SATUNSATComment Number         8.1.9.3       To place RHR Loop A in suppression pool cooling:         8.1.9.3       To place RHR Loop A in suppression pool cooling:         8.1.9.3.1       Place/verify SX A PRM IRIX-PR038, Shutdown Service         STANDARD:       Verifies SXB PRM 1RIX-PR038 Shutdown Service Water A Effluent (SX) in service by Checking AR/PR Monitor.         COMMENTS:      UNSATComment Number         8.1.9.3.2       Verify WS available to RHR A Hx         STANDARD:       Verifies WS available to RHR A Hx         STANDARD:       Verifies WS available to RHR A Hx by ensuring SSWSTR 1A Outlet pressure > 100 psig on PI-SX028.         CUE:       NONE         COMMENTS:                        | CUE:   | None  |
| SATUNSATComment Number         8.1.9.3       To place RHR Loop A in suppression pool cooling:         8.1.9.3.1       Place/verify SX A PRM 1R1X-PR038,         Shutdown Service Water A Effluent (SX) in service         STANDARD:       Verifies SXB PRM 1R1X-PR038 Shutdown Service Water A Effluent (SX) in service by Checking AR/PR Monitor.         COMMENTS:  | COMMENTS:  |   |
| 8.1.9.3       To place RHR Loop A in suppression pool cooling:         8.1.9.3.1.       Place/verify SX A PRM IRIX-PR038,<br>Shutdown Service Water A Effluent (SX) in service         STANDARD:       Verifies SXB PRM 1RIX-PR038 Shutdown Service Water A Effluent (SX) in service by Checking AR/PR Monitor.         COMMENTS:   |  | SAT UNSAT Comment Number  |
| 8.1.9.3.1.       Place/verify SX A PRM 1RIX-PR038,<br>Shutdown Service Water A Effluent (SX) in service         STANDARD:       Verifies SXB PRM 1RIX-PR038 Shutdown Service Water A Effluent (SX) in service by Checking AR/PR Monitor.         COMMENTS:  | 8.1.9.3  | To place RHR Loop A in suppression pool cooling:  |
| STANDARD:       Verifies SXB PRM 1RIX-PR038 Shutdown Service Water A Effluent (SX) in service by Checking AR/PR Monitor.         COMMENTS:  | 8.1.9.3.1.   | Place/verify SX A PRM 1RIX-PR038,<br>Shutdown Service Water A Effluent (SX) in service  |
| COMMENTS:UNSATComment Number 8.1.9.3.2 Verify WS available to RHR A Hx STANDARD: Verifies WS available to RHR A HX by ensuring SSWSTR 1A Outlet pressure  >100 psig on PI-SX028. CUE: NONE COMMENTS:UNSATComment Number   | STANDARD:  | Verifies SXB PRM 1RIX-PR038 Shutdown Service Water A Effluent (SX) in service by Checking AR/PR Monitor.  |
| SATUNSATComment Number         8.1.9.3.2       Verify WS available to RHR A Hx         STANDARD:       Verifies WS available to RHR A Hx by ensuring SSWSTR 1A Outlet pressure >100 psig on PI-SX028.         CUE:       NONE         COMMENTS:       SATUNSATComment Number  | COMMENTS:  |   |
| 8.1.9.3.2       Verify WS available to RHR A Hx         STANDARD:       Verifies WS available to RHR A HX by ensuring SSWSTR 1A Outlet pressure >100 psig on PI-SX028.         CUE:       NONE         COMMENTS:       SAT UNSATComment Number  | <ul> <li>S<sup>1</sup> · J · J · J · J · J · J · J · J · J ·</li></ul> | SATUNSATComment Number  |
| STANDARD:       Verifies WS available to RHR A HX by ensuring SSWSTR 1A Outlet pressure         >100 psig on PI-SX028.         CUE:       NONE         COMMENTS:       SAT UNSAT Comment Number   | 8.1.9.3.2  | Verify WS available to RHR A Hx   |
| CUE: NONE COMMENTS: SATUNSATComment Number  | STANDARD:  | Verifies WS available to RHR A HX by ensuring SSWSTR 1A Outlet pressure a >100 psig on PI-SX028.  |
| COMMENTS:           SATUNSATComment Number  | CUE:   | NONE  |
| SATUNSATComment Number  | COMMENTS:  |   |
|   |  | SAT UNSAT Comment Number  |
|   |  |   |
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| n / /   | an an an an ann an an an ann an ann ann                                |   |

| JPM NUMBER:  | 011264J010  |   | REVISION_01   |
|--|---|---|---|
| *8.1.9.3.3. Sta  | ort RHR Pump  | A, 1E12-C002A.  | · · · · · · · · · · · · · · · · · · ·   |
| STANDARD:  | Places RHI  | <u>R Div 1 Test Pr</u> ep Sw  | itch in Test and Starts RHR Pump A  |
| CUE:   | None  |   |   |
| COMMENTS:  |   |   |   |
|  | SAT   | UNSAT   | Comment Number  |
| *81934 On  | en 1 <b>F</b> 12_F024                                   | A RHR A Test Valy   | e To Suppr Pool   |
| STANDARD   | Onens 1F1   | $2_{\rm E}$   | e To Suppi Tool   |
|  | None  | 2-102+A, MIKA 10  |   |
| COMMENTS:  |   |   |   |
|  |   |   | Commont Numbor  |
|  |   |   |   |
| 3.1.9.3.5.   | Verify flow<br>1E12-R60                                 | v 4550 to 5550 gpm o<br>3A.   | n RHR Pump A Flow Meter,  |
| STANDARD:  | Verifies flo  | w between 4550 to 5   | 500 gpm on 1E12-R603A (RHR A Flow M   |
| CUE:   | None  |   |   |
| · · · · · · · · · · · · · · · · · · ·                            |   |   |   |
| COMMENTS:  |   |   |   |
| COMMENTS:<br>SAT   | UNSAT   | Comment Numb  | er  |
| COMMENTS:<br>SAT<br>3.1.9.3.6.                                   | UNSAT<br>Verify   | Comment Numb  | ervalve as follows:   |
| COMMENTS:<br>SAT<br>3.1.9.3.6.                                   | UNSAT<br>Verify/<br>1SX08                               | Comment Numb<br>/reposition following<br>2A RHR A Hx 1A M                               | er<br>valve as follows:<br>U Cond Inlet Vlv is shut   |
| COMMENTS:<br>SAT<br>3.1.9.3.6.<br>STANDARD:                      | UNSAT<br>Verify,<br>1SX08<br>Verifies 1S                | Comment Numb<br>/reposition following<br>2A RHR A Hx 1A M<br>X082A, RHR A Hx 1          | er<br>valve as follows:<br>U Cond Inlet Vlv is shut<br>A Mu Cond Inlet Valve is shut.                   |
| COMMENTS:<br>SAT<br>3.1.9.3.6.<br>STANDARD:<br>CUE:              | UNSAT<br>Verify/<br>1SX08<br>Verifies 1S<br>None        | Comment Numb<br>/reposition following<br>2A RHR A Hx 1A M<br>X082A, RHR A Hx 1          | er<br>valve as follows:<br>U Cond Inlet Vlv is shut<br>A Mu Cond Inlet Valve is shut.                   |
| COMMENTS:<br>SAT<br>3.1.9.3.6.<br>STANDARD:<br>CUE:<br>COMMENTS: | UNSAT<br>Verify/<br>1SX08<br>Verifies 1S<br>None        | Comment Numb<br>/reposition following<br>2A RHR A Hx 1A M<br>X082A, RHR A Hx 1          | er<br>valve as follows:<br>U Cond Inlet Vlv is shut<br>A Mu Cond Inlet Valve is shut.                   |
| COMMENTS:<br>SAT<br>3.1.9.3.6.<br>STANDARD:<br>CUE:<br>COMMENTS: | UNSAT<br>Verify/<br>1SX08<br>Verifies 1S<br>None<br>SAT | Comment Numb<br>/reposition following<br>2A RHR A Hx 1A M<br>X082A, RHR A Hx 1<br>UNSAT | er<br>valve as follows:<br>U Cond Inlet Vlv is shut<br>A Mu Cond Inlet Valve is shut.<br>Comment Number |
| COMMENTS:<br>SAT<br>3.1.9.3.6.<br>STANDARD:<br>CUE:<br>COMMENTS: | UNSAT<br>Verify,<br>1SX08<br>Verifies 1S<br>None<br>SAT | Comment Numb<br>/reposition following<br>2A RHR A Hx 1A M<br>X082A, RHR A Hx 1<br>UNSAT | ervalve as follows:<br>U Cond Inlet Vlv is shut<br>A Mu Cond Inlet Valve is shut.<br>Comment Number     |
| COMMENTS:<br>SAT<br>3.1.9.3.6.<br>STANDARD:<br>CUE:<br>COMMENTS: | UNSAT<br>Verify,<br>1SX08<br>Verifies 1S<br>None<br>SAT | Comment Numb<br>/reposition following<br>2A RHR A Hx 1A M<br>X082A, RHR A Hx 1          | ervalve as follows:<br>U Cond Inlet VIv is shut<br>A Mu Cond Inlet Valve is shut.<br>Comment Number     |
| COMMENTS:<br>SAT<br>3.1.9.3.6.<br>STANDARD:<br>CUE:<br>COMMENTS: | UNSAT<br>Verify/<br>1SX08<br>Verifies 1S<br>None<br>SAT | Comment Numb<br>/reposition following<br>2A RHR A Hx 1A M<br>X082A, RHR A Hx 1          | ervalve as follows:<br>U Cond Inlet Vlv is shut<br>A Mu Cond Inlet Valve is shut.<br>Comment Number     |
| COMMENTS:<br>SAT<br>3.1.9.3.6.<br>STANDARD:<br>CUE:<br>COMMENTS: | UNSAT<br>Verify,<br>1SX08<br>Verifies 1S<br>None<br>SAT | Comment Numb<br>/reposition following<br>2A RHR A Hx 1A M<br>X082A, RHR A Hx 1<br>UNSAT | ervalve as follows:<br>U Cond Inlet VIv is shut<br>A Mu Cond Inlet Valve is shut.<br>Comment Number     |

| JPM NUMBER  | : 011264J010 REVISION <u>01</u>  |
|---|--|
| *   | Recognizes RHR Pump A trip   |
| STANDARD:   | Recognizes RHR Pump A trip and CLOSES Suppression Pool Test Return Value 1E12-F024A. |
| CUE:  | None   |
| COMMENT:  | This action comes from:  |
| artiser, printerstrom, wy odd anni ustrategisty odd | 8.1.9.1 IF RHR Pump A(B) stops,  |
|   | THEN Shut 1E12-F024A(B), RHR A(B) Test Valve To Suppr Pool.                          |
|   | (system draw down to pool will require fill & vent)                                  |
|   | SATUNSATComment Number   |
|   | Reports the RHR A Pump trip to CRS.  |
| STANDARD:   | Notifies the CRS of A RHR Pump trip  |
| CUE:  | Inform operator that SRV testing will be postponed.                                  |
| COMMENTS  |  |
|   |  |
| a na sana ana ang ang ang ang ang ang ang ang       | SAT UNSAT Comment Number   |

Suppression Pool Test Return Valve for A RHR Loop 1E12-F024A is closed.

**STOP TIME:** 

### **K/A REFERENCE NUMBERS**

| K/A System Number             | K/A Number | Importan<br><b>RO</b> | ce Rating<br>SRO |
|-------------------------------|------------|-----------------------|------------------|
| 219000 - RHR Suppression Pool | A4.02      | 3.7*                  | 3.5              |
| 219000 Cooling Mode           | A4.01      | 3.8*                  | 3.7*             |
| 219000                        | SG 9       | 4.2*                  | 3.8*             |
| 219000                        | SG 13      | 3.9*                  | 3.7              |

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### CLINTON POWER STATION SYSTEM JPM JPM NUMBER: 011264J010

### REVISION 01

### **INITIATING CUE**

# Place RHR loop "A" in the Suppression Pool Cooling mode to accommodate SRV testing per CPS No. 3312.01, RESIDUAL HEAT REMOVAL.

Page 9 of 9



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### JPM NUMBER: 011259J004

#### **REVISION: 02**

### JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

**NOTE:** All steps of this checklist should be performed upon initial validation. Prior to JPM usage, revalidate JPM using steps 8 through 11 below.

- Task description and number, JPM description and number are identified.
- 2. Knowledge and Abilities (K/A) references are included.
- 3. Performance location specified. (in-plant, control room, or simulator)
  - \_ 4. Initial setup conditions are identified.
    - 5. Initiating and terminating cues are properly identified.
  - 6. Task standards identified and verified by SME review.
  - 7. Critical steps meet the criteria for critical steps and are identified with an asterisk (\*).
  - 8. Verify the procedure referenced by this JPM matches the most current revision of that procedure:
    - Procedure Rev. \_\_\_\_ Date \_\_\_\_\_
  - Pilot test the JPM:
     a. verify cues both verbal and visual are free of conflict, and
     b. ensure performance time is accurate.
  - 10. If the JPM cannot be performed as written with proper responses, then revise the JPM.
  - 11. When JPM is revalidated, SME or Instructor sign and date JPM cover page.

| SME/Instructor | Date |
|----------------|------|
| SME/Instructor | Date |
| SME/Instructor | Date |

Page 2 of 14

### JPM NUMBER: 011259J004

**REVISION: 02** 

### **Revision Record (Summary)**

| 1. | Revision 01, | JPM updated to new Exelon format.           |
|----|--------------|---|
| 2. | Revision 02, | Update content to CPS 3103.01, Revision 20b |

Page 3 of 14

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|  | JPM NUMBER: 011259  | J004   | <b>REVISION: 02</b>   |  |
|--|---|--|---|--|
|  | Operator's Name:<br>Job Title:  | NLO IRO ISRO IST   | TA 🖸 SRO Cert   |  |
| a aranta<br>1920 - Nore<br>1920 - Nore | JPM Title: Startup Mc<br>JPM Number: 011259J(   | otor Driven Reactor Feedwater Pur<br>004   | np (MDRFP)  |  |
|  | Task Number and Title:  | 310301.39, Complete Control Roo<br>Driven Reactor Feedwater Pump                         | om Actions to Perform Motor<br>Startup  |  |
|  | Suggested Testing Envir   | conment: Simulator   |   |  |
|  | Actual Testing Environm   | ment: 🗆 Simulator 🛛 Plar   | nt 📮 Control Room   |  |
|  | Testing Method: □ Si<br>■ Pe  | imulate Alternate Path /Fa   | aulted: 🗅 Yes 🔳 No  |  |
|  | Time Critical: 📮 Yes  | No   |   |  |
| •                                      | Estimated Time to Com   | plete: 15 minutes Actual Tir   | me Used: minutes  |  |
|  | References: CPS No. 3   | 103.01; FEEDWATER, Section 8.  | 1.3, Rev.20b  |  |
|  | <b>EVALUATION SUMMA</b><br>Were all the Critical Elem<br>The operator's performand<br>and has been determined to<br>Comments: | ARY:<br>ients performed satisfactorily?<br>ce was evaluated against the standa<br>to be: | <ul> <li>Yes I No</li> <li>ards contained in this JPM,</li> <li>Unsatisfactory</li> </ul> |  |
|  |   | ······   |   |  |
|  |   |  |   |  |
|  |   |  |   |  |
|  |   | ······   |   |  |
|  | Evaluator's Name:   | · · · · · · · · · · · · · · · · · · ·  |   |  |
|  | Evaluator's Signature:  | · · · · · · · · · · · · · · · · · · ·  | Date:   |  |
| · · ·                                  | n syn de ser en ser                |  |   | ده<br>۱۹۹۵ -<br>۱۹۹۹ -<br>۱۹۹۹ -<br>۱۹۹۹ - |
|  |   |  | Page 4 of 14  | *<br>• • • • • •                           |

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### JPM NUMBER: 011259J004

### **REVISION:** 02

### READ TO THE OPERATOR

I will explain the initial conditions, which step(s) to simulate or discuss, and provide the initiating cues. When you complete the task successfully, the objective of this Job Performance Measure will be satisfied.

### SIMULATOR SET-UP CONDITIONS:

Initialize to a startup IC with the condensate booster pumps feeding the reactor and the startup level controller in manual, controlling the 1FW004 valve. Raise RPV level to high in the operating band. If an IC with the required conditions does not exist, establish the required conditions and snapshot to a temporary IC location.

### TASK STANDARDS:

Reactor Feedwater Pump 'C' is running with Reactor Water Level within the normal operating band.

### **TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:**

### None

### PROCEDURAL/REFERENCES

CPS No. 3103.01, FEEDWATER, Section 8.1.3, Rev. 20b.

#### **EVALUATOR INSTRUCTIONS:**

Amplifying cues are provided within the JPM steps.

### INITIAL CONDITIONS AND INITIATING CUE:

Reactor power and pressure ascension is in progress as part of a normal reactor startup and are approaching the limit of the condensate booster pumps. All local pre-start checks have been performed and the warming line has been open for 30 minutes. Start the "C" Reactor Feedwater pump, and verify it is capable of injecting into the vessel per CPS 3103.01, Feedwater, Section 8.1.3. Maintain normal Reactor water level of 30" to 39" narrow range.

### START TIME:

Page 5 of 13

|        |  |  | CLINTON FU   | WERSTATION   |  |
|--------|--|--|--|--|--|
| 2<br>2 | JPM NUMB   | ER: 011259J004   | SYS11  | REVISION: 02   |  |
|        |  | P  | PERFORMANCE  | INFORMATION  |  |
|        | Critical steps<br>Failure to me<br>sequence of s | are denoted with an<br>et the standards for a<br>steps is assumed unle                 | asterisk (*) to the<br>critical step const<br>ss denoted in the c  | left of the step number and appe<br>itutes failure of the Job Perform<br>omments section of the JPM.   | ar in <b>BOLD</b> letters.<br>ance Measure. The  |
|        |  |  | PERFORMA   | NCE STEPS  |  |
|        | JPM TITLE:                                       | Startup of Reactor Fo  | eedwater Pump "C   | ου το το πολογιστικό το  | enny de la Constitució de California de la Constitució de la California de la Constitució de la Constitució de<br>Constitució de la Constitució de la Cons<br>Constitució de la Constitució de la Cons |
|        | 8.1.3.1  | IF The plant has be<br>performed) AND the<br>RPV due to a plant<br>THEN 1.<br>2.<br>3. | een operating with<br>here is an immedia<br>transient,<br>Ensure that all<br>Start the MDR<br>Dispatch an op | the MDRFP in standby (prestar<br>the need to start the MDRFP for<br>MDRFP trip signals reset (may<br>FP by depressing the MDRFP S<br>erator to verify proper MDRFP | t checks previously<br>injection to the<br>cause auto start)<br>TART pushbutton<br>operation   |
|        | STANDARD   | : Reviews ster   | o and determines N   | lo operator actions required.  |  |
|        | and an       |  |  |  |  |
|        | CUE:   |  |  |  |  |
|        | CUE:<br>COMMENTS                                 | 5:   |  |  |  |
|        | CUE:<br>COMMENTS                                 | S:<br>SAT  | UNSAT  | Comments Number  |  |
|        | CUE:<br>COMMENTS                                 | 5:<br>SAT  | UNSAT  | Comments Number  |  |
|        | CUE:<br>COMMENTS                                 | S:<br>SAT  | UNSAT  | Comments Number  |  |
|        | CUE:<br>COMMENTS                                 | S:<br>SAT  | UNSAT  | Comments Number  |  |

| * |           |                               | CLINTON PO            | WER STATION  |   |
|---|-----------|-------------------------------|-----------------------|--|---|
|   | JPM NUMBE | <b>CR</b> : <u>011259J004</u> | 5121                  | REVISION:  | 02  |
|   |           |                               |                       |  |   |
|   | 8.1.3.2   | Verify the prestar            | rt conditions are sat | isfied.  |   |
|   | STANDARD: | No operato                    | or actions required.  | Pre-start checks are complete  | per initial conditions.                         |
|   | CUE:      |                               |                       |  |   |
|   | COMMENTS: |                               |                       |  |   |
|   |           | C A TH                        |                       | ~ ~ ~ ~ ~ ~  |   |
|   | 1         | SAT                           | UNSAT                 | Comments Number  |   |
|   |           |                               |                       | a se a companya a se a company<br>A se a companya a companya a companya a se a com |   |
|   | 8.1.3.3   | Place/Verify CB 1             | Min Flow Valve(s),    | 1CB011A, B, C, and D in A  | UTO   |
|   | STANDARD: | Operator ve                   | erifies 1CB011A, B    | , C, and D are in AUTO   |   |
|   | CUE:      |                               |                       |  |   |
|   | COMMENTS: |                               |                       |  |   |
|   |           |                               |                       |  |   |
|   |           | SAT                           | UNSAT                 | Comments Number  |   |
|   | 8.1.3.4   | IF HI WATE                    | R LEVEL TRIP R        | ESET light(s) are lit.   | <u>an an ann an </u> |
|   |           | THEN perform th               | ne following to rese  | t the Hi Water Level Trip:   |   |
|   |           | 1.) Place/Veri                | ify MDRFP AOP in      | N STOP LOCK.   |   |
|   |           | 2.) Depress th                | e RX HI WATER         | LEVEL TRIP RESET buttor  | i(s).   |
|   | STANDARD: | Operator de                   | etermine lights not l | it and proceeds.   |   |
|   | CUE:      |                               |                       |  |   |
|   | COMMENTS: | A high Re                     | actor water level co  | ndition does not exist in the  | Simulator setup.                                |
|   |           | SAT                           | UNSAT                 | Comments Number  |   |
|   |           |                               |                       |  |   |

| JPM NUMBE         | CLINTON POWER STATION<br>SYSTEM JPM<br>CR: 011259J004 REVISION: 02  |
|-------------------|---|
| 8.1.3.5           | IF feeding the Reactor with CD/CB through FRV 1FW004,<br>THEN Raise RPV level to high in the control band.          |
| STANDARD:<br>CUE: | Operator verifies that RPV level is high in the operating band.   |
| COMMENTS:         |   |
|                   | SAT UNSAT Comments Number   |
| *8.1.3.6          | Verify Close/Close FRV 1FW004, using either the S.U. Level Controller.  |
| STANDARD:         | Operator CLOSES 1FW004 using the S. U. Level Controller and verifies GREEN indication for 1FW004 on the DCS screen. |
| CUE:              | If requested, direct the operator to use the Startup Level Controller.  |
| COMMENTS:         | FEEDWATER TURBIDITY HI and FEEDWATER TURBIDITY MON FL LOW will alarm after FRW 1FW004 is closed.                    |
|                   | SAT UNSAT Comments Number   |

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| <br>а — — — — — — — — — — — — — — — — — — — |   | CLINTON P<br>SYS  | 'OWER STATION<br>STEM JPM   |
|---|---|---|---|
| JPM NUMBEI                                  | <b>R</b> : <u>011259J00</u>   | <u>14</u>   | <b>REVISION:</b> 02   |
| *8.1.3.7                                    | Start the MDF   | RFP, as follows:  |   |
|   | 1.  | Depress and hold  | the STOP pushbutton for the MDRFP.  |
|   | 2.  | Depress and relea<br>Auxiliary Lube O   | ise the RELEASE pushbutton to start RFP 1C<br>Dil Pump 1FW02P.  |
| na ga si sa<br>Nga si sa                    | <b>3.</b>   | <u>After</u> allowing end<br>in the MDRFP (50   | ough time for oil pressure to build up and circulate<br>002-1L Clear),  |
|   |   | Release MDRFP S   | STOP pushbutton to start the MDRFP.   |
|   | 4.  | Depress the MDR<br>START annuncia<br>the MDRFP.   | FP START pushbutton to clear the AUTO<br>tor and enable the AUTO TRIP annunciator for   |
| STANDARD:                                   | Operator<br>While ho<br>1FW02P<br>Observes<br>When an<br>MDRFP.<br>Observes | depresses and hold<br>olding STOP pushbu<br>s RED light ON for<br>nunciator 5002-1L<br>s RED light ON for | is STOP pushbutton for MDRFP.<br>utton operator depresses START pushbutton for<br>1FW02P (GREEN light lit for RFP 1C).<br>clears, operator releases STOP pushbutton to start<br>RFP 1C. |
| CUE:  |   |   |   |
| COMMENTS:                                   | Annuncia<br>Operator  | ator for low oil pres<br>should monitor RF  | sure (5002-1L) clears in approximately 5 seconds.<br>P motor amps on the CRT.   |
|   | SAT   | INGAT   | Commente Neuelou  |

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Page 9 of 13

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| <b></b>  |                               | SYSTE  | M JPM   |     |
|--|-------------------------------|--|---|-----|
|  | JPM NUMB                      | ER: <u>011259J004</u>  | <b>REVISION:</b> 02   |     |
|  | 8.1.3.8                       | Verify RFP 1C Auxiliary Lube Oil Pu speed.   | mp 1FW02P stops, as the MDRFP comes up to   | )   |
| karst v  |                               |  |   |     |
|  | STANDARD                      | light ON.  | MDRFP comes up to speed, by observing GRE   | EN  |
|  |                               |  |   |     |
| an an an an an an an an<br>San an a | CUE:                          |  |   |     |
|  | COMMENTS                      | S:   |   |     |
|  |                               | SAT UNSAT  | Comments Number   |     |
|  | 8.1.3.9                       | Monitor MDRFP Vibration for indica<br>Throttle RFP 1C Min Flow 1FW010C   | tion of insufficient minimum flow.  |     |
|  |                               | Refer to section 8.1.14 for Operation of   | of RFP Min Flow Valves.   |     |
|  | STANDARD:                     | Refer to section 8.1.14 for Operation of Control of Con | of RFP Min Flow Valves.<br>vibration. Observes RED light ON for 1FW010  | OC. |
|  | STANDARD:<br>CUE:             | Refer to section 8.1.14 for Operation of<br>Operator monitors RFP 1C for   | of RFP Min Flow Valves.   | )C. |
|  | STANDARD:<br>CUE:<br>COMMENTS | Refer to section 8.1.14 for Operation of<br>Operator monitors RFP 1C for<br>Operation of the RFP Min Flow  | of RFP Min Flow Valves.<br>vibration. Observes RED light ON for 1FW010  | OC. |
|  | STANDARD:<br>CUE:<br>COMMENTS | Refer to section 8.1.14 for Operation of         :       Operator monitors RFP 1C for         ::       Operation of the RFP Min Flow         SATUNSAT  | as necessary to minimize pump vibration.<br>of RFP Min Flow Valves.           vibration. Observes RED light ON for 1FW010           vibration. Observes RED light ON for 1FW010           vibration. Observes RED light ON for 1FW010           Comments Number   | OC. |
|  | STANDARD:<br>CUE:<br>COMMENTS | Refer to section 8.1.14 for Operation of         : Operator monitors RFP 1C for         :: Operation of the RFP Min Flow         SATUNSAT  | as necessary to minimize pump vibration.<br>of RFP Min Flow Valves.<br>vibration. Observes RED light ON for 1FW010  | OC. |
|  | STANDARD:<br>CUE:<br>COMMENTS | Refer to section 8.1.14 for Operation of         : Operator monitors RFP 1C for         :: Operation of the RFP Min Flow         SATUNSAT  | as necessary to minimize pump vibration.<br>of RFP Min Flow Valves.           vibration. Observes RED light ON for 1FW010           Comments Number | OC. |
|  | STANDARD:<br>CUE:<br>COMMENTS | Refer to section 8.1.14 for Operation of the Comparison of the RFP 1C for         :       Operator monitors RFP 1C for         :       Operation of the RFP Min Flow         SATUNSAT  | as necessary to minimize pump vibration.<br>of RFP Min Flow Valves.<br>vibration. Observes RED light ON for 1FW010<br>vibration vibration. Observes RED light ON for 1FW010<br>vibration. Observes RED light ON for 1FW010  | DC. |
|  | STANDARD:<br>CUE:<br>COMMENTS | Refer to section 8.1.14 for Operation of   : Operator monitors RFP 1C for   : Operation of the RFP Min Flow   SAT UNSAT  | as necessary to minimize pump vibration.<br>of RFP Min Flow Valves.<br>vibration. Observes RED light ON for 1FW010<br>vibration vibration. Observes RED light ON for 1FW010<br>vibration. Observes RED light ON for 1FW010  | )C. |
|  | STANDARD:<br>CUE:<br>COMMENTS | Refer to section 8.1.14 for Operation of   : Operator monitors RFP 1C for   : Operation of the RFP Min Flow   SATUNSAT   | as necessary to minimize pump vibration.<br>of RFP Min Flow Valves.<br>vibration. Observes RED light ON for 1FW010<br>valve will not be necessary.<br>Comments Number   | DC. |

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Page 10 of 13

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| CLINTON POWER STATION                         |  |  |          |  |  |  |  |
|---|--|--|----------|--|--|--|--|
| JPM NUMBER                                    | : <u>011259J004</u>  | SYSTEM JPM<br>REVISION: 02   |          |  |  |  |  |
| *8.1.3.10 C                                   | oncurrently perform the fo   | llowing as necessary to control RPV injection rate:  |          |  |  |  |  |
| 1.  | Throttle, as necessary   | , the FRV 1FW004 using the Startup level controller.   |          |  |  |  |  |
| 2.  | Throttle/Adjust as nece<br>F065B.  | ssary the RPV Inlet VIvs 1B21-F065A and/or 1B21-   |          |  |  |  |  |
| 3.  | As appropriate for plan<br>per section 8.1.5 (if not   | t conditions, place the Startup Level Controller in service<br>already in service) or 8.1.6.   |          |  |  |  |  |
| STANDARD:                                     | Operator OPENS 1FW0<br>Observes discharge flow   | 04 using the S.U. Level Controller to feed RPV.  |          |  |  |  |  |
| CUE:  |  |  |          |  |  |  |  |
| COMMENTS:                                     | Startup Level Controller action required.  | is in service per setup conditions, step 1 is the critical   |          |  |  |  |  |
|   | SATUNSAT   | Comments Number  |          |  |  |  |  |
|   |  |  |          |  |  |  |  |
|   |  | ss Vlv 1FW024.   | <u>.</u> |  |  |  |  |
| 8.1.3.11 Ci                                   | ose/verify closed RFP Bypas  |  |          |  |  |  |  |
| STANDARD:                                     | Ose/verify closed RFP Bypas<br>Operator verifies 1FW02                                       | 24 CLOSED by observing GREEN light ON.   |          |  |  |  |  |
| STANDARD:<br>CUE:                             | Ose/verify closed RFP Bypas<br>Operator verifies 1FW02                                       | 24 CLOSED by observing GREEN light ON.   |          |  |  |  |  |
| STANDARD:<br>CUE:<br>COMMENTS:                | Operator verifies 1FW02<br>Operator not required to<br>Operator can also observ              | 24 CLOSED by observing GREEN light ON.<br>perform this step to meet the task standard for this JPM.<br>re GREEN light for bypass value on CRT.                     |          |  |  |  |  |
| STANDARD:<br>CUE:<br>COMMENTS:                | Operator verifies 1FW02<br>Operator not required to<br>Operator can also observ              | 24 CLOSED by observing GREEN light ON.<br>perform this step to meet the task standard for this JPM.<br>we GREEN light for bypass valve on CRT.                     |          |  |  |  |  |
| STANDARD:<br>CUE:<br>COMMENTS:                | Operator verifies 1FW02<br>Operator not required to<br>Operator can also observ              | 24 CLOSED by observing GREEN light ON.<br>perform this step to meet the task standard for this JPM.<br>//e GREEN light for bypass valve on CRT.<br>Comments Number |          |  |  |  |  |
| STANDARD:<br>CUE:<br>COMMENTS:                | Operator verifies 1FW02<br>Operator not required to<br>Operator can also observ<br>SAT UNSAT | 24 CLOSED by observing GREEN light ON.<br>perform this step to meet the task standard for this JPM.<br>//e GREEN light for bypass valve on CRT.<br>Comments Number |          |  |  |  |  |
| STANDARD:<br>CUE:<br>COMMENTS:                | Operator verifies 1FW02 Operator not required to Operator can also observ SATUNSAT           | 24 CLOSED by observing GREEN light ON.<br>perform this step to meet the task standard for this JPM.<br>// GREEN light for bypass valve on CRT.<br>Comments Number  |          |  |  |  |  |
| STANDARD:<br>CUE:<br>COMMENTS:                | Operator verifies 1FW02<br>Operator not required to<br>Operator can also observ<br>SAT UNSAT | 24 CLOSED by observing GREEN light ON.<br>perform this step to meet the task standard for this JPM.<br>/e GREEN light for bypass valve on CRT.<br>Comments Number  |          |  |  |  |  |
| 8.1.3.11 Cl<br>STANDARD:<br>CUE:<br>COMMENTS: | Operator verifies 1FW02 Operator not required to Operator can also observ SATUNSAT           | 24 CLOSED by observing GREEN light ON.<br>perform this step to meet the task standard for this JPM.<br>re GREEN light for bypass valve on CRT.<br>Comments Number  |          |  |  |  |  |

|                   |                 | C                               | LINTON POWER STATION                      |  |                   |   |
|-------------------|-----------------|---------------------------------|---|--|-------------------|---|
|                   | JPM NUMBER      | <b>R</b> : <u>011259J004</u>    | SYSTEM JPM<br>REVISIO                     | N:02                                     |                   |   |
|                   | 8.1.3.12        | Close/Verify closed Wa          | rming Line Isolation valves 1FW(          | 036C and 1FW03                           | 8C.               |   |
|                   | STANDARD:       | Operator directs I closed.      | D area operator to close or verify 1      | FW036C and 1F                            | W038C             |   |
|                   | CUE:            | As D area operato<br>simulated) | or report the warming line isolation      | n valves are CLC                         | SED. (Not         |   |
|                   | COMMENTS:       | Operator not requ               | ired to perform this step to meet th      | ne task standard :                       | for this JPM.     |   |
|                   |                 | SATU                            | NSAT Comments Nur                         | nber                                     |                   |   |
| erre e sono e e e | TERMINATING     | G CUES:                         |   |  |                   |   |
|                   | Reactor Feband. | eedwater Pump 1C is o           | perating and Reactor Water Level          | is in the normal                         | operating         |   |
|                   | STOP TI         | ME:                             |   |  |                   |   |
|                   |                 | <u> </u>                        | A REFERENCE NUMBERS                       |  |                   |   |
|                   | K/A SYSTEM      | NUMBER                          | K/A NUMBER                                | <u>Importance Ra</u><br><u><b>RO</b></u> | ting<br>SRO       |   |
|                   | 259001          |                                 | A4.02<br>A4.05<br>A4.08                   | 3.9<br>4.0<br>3.3                        | 3.7<br>3.9<br>3.3 |   |
|                   |                 |                                 |   |  |                   |   |
|                   |                 |                                 |   |  |                   |   |
|                   |                 |                                 |   |  |                   |   |
|                   |                 |                                 |   |  |                   |   |
|                   |                 |                                 |   |  |                   |   |
|                   |                 |                                 |   |  |                   | n de genteger y general avec en angelen de se |
|                   |                 |                                 | ar an |  |                   |   |

### JPM NUMBER: 011259J004

### **REVISION: 02**

#### **INITIATING CUE**

Reactor power and pressure ascension is in progress as part of a normal reactor startup and are approaching the limit of the condensate booster pumps. All local pre-start checks have been performed and the warming line has been open for 30 minutes. Start the "C" Reactor Feedwater pump, and verify it is capable of injecting into the vessel per CPS 3103.01, Feedwater, Section 8.1.3. Maintain normal Reactor water level of 30" to 39" narrow range.





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| ····   |                               | SYST  | EM JPM   |                                      |                     |
|--|-------------------------------|---|--|--------------------------------------|---------------------|
|  | JPM NUMBER:                   | 011264J002  | ·  | REVISION: <u>01</u>                  |                     |
| •<br>•   | JOB PERF                      | ORMANCE MEAS  | URE VALIDATION                                   | CHECKLIST                            |                     |
|  | NOTE: All steps<br>Prior to J | of this checklist shou<br>PM usage, revalidate                        | d be performed upon ir<br>JPM using steps 8 thro | nitial validation.<br>ough 11 below. | n                   |
|  | 1. T                          | ask description and n<br>lentified.                                   | umber, JPM description                           | n and number are                     |                     |
|  | 2. K                          | nowledge and Abilitie   | s (K/A) references are                           | included.                            |                     |
|  | 3. P<br>si                    | erformance location s<br>imulator)                                    | pecified. (in-plant, con                         | trol room, or                        |                     |
|  | 4. Ir                         | nitial setup conditions   | are identified.                                  |                                      |                     |
|  | 5. Ir                         | nitiating and terminatir  | ng cues are properly ide                         | entified.                            |                     |
|  | 6. T                          | ask standards identifi  | ed and verified by SME                           | review.                              |                     |
| an fail (a tao a tao | 7. C                          | ritical steps meet the ith an asterisk (*).                           | criteria for critical steps                      | s and are identified                 |                     |
|  | 8. V                          | erify the procedure re<br>urrent revision of that<br>rocedure Rev.    | ferenced by this JPM n<br>procedure:<br>Date     | natches the most                     |                     |
|  | 9. P<br>a<br>b                | ilot test the JPM:<br>. verify cues both verk<br>. ensure performance | pal and visual are free of time is accurate.     | of conflict, and                     |                     |
|  | 10.lf<br>re                   | the JPM cannot be pesponses, then revise                              | erformed as written witl<br>the JPM.             | h proper                             |                     |
|  | 11.W                          | /hen JPM is revalidate<br>over page.                                  | ed, SME or Instructor s                          | ign and date JPM                     |                     |
|  | SME/I                         | nstructor   |  | Date                                 |                     |
|  | SME/I                         | nstructor   |  | Date                                 |                     |
|  | SME/I                         | nstructor   |  | Date                                 | forse e se obra a s |
|  |                               |   | · · · · · · · · · · · · · · · · · · ·            |                                      |                     |

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#### CLINTON POWER STATION SYSTEM JPM 011264J002

JPM NUMBER:

**REVISION: 01** 

## **Revision Record (Summary)**

1. Revision 00, This is a new JPM

2. Revision 01 Change to Exelon format Update to CPS 3506.01, Revision 28a Make JPM shorter and more specific to the task

Page 3 of 10

| •  | CLINTON POWER STATION  |
|--|--|
| and a second   | SYSTEM JPM         JPM NUMBER:       011264J002       REVISION:       01   |
|  | Operator's Name:<br>Job Title:   |
|  | JPM Title: Parallel DG 1A With Off Site Power  |
|  | Revision Number: 01<br>Task Number and Title: 350601.05, Complete Control Room Actions to Perform<br>Diesel Generator – Offsite Power Parallel Operation |
|  | K/A Number 264000.A4.05 Importance 3.6/3.7   |
|  | Suggested Testing Environment: Simulator   |
| n an   | Actual Testing Environment: 🖸 Simulator 🖵 Plant 🗖 Control Room   |
|  | Testing Method:□SimulateAlternate Path /Faulted:□Yes■No■Perform  |
|  | Time Critical: 🖵 Yes 🔳 No  |
|  | Estimated Time to Complete: 20 minutes Actual Time Used: minutes   |
|  | References: CPS 3506.01, DIESEL GENERATOR AND SUPPORT SYSTEMS,<br>Revision 28a, Section 8.1.3  |
|  | · · ·  |
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|        | JPM NUMBER:   | SYSTEM J<br>011264J002   | PM                                     | REVISION  | : 01                                 |
|--------|---|--|--|---|--------------------------------------|
| Active | nta anti-metri ana dia dia dia dia dia dia dia dia dia di |  |  | an a              |                                      |
|        | <b>EVALUATION SU</b>                                      | MMARY:   |  |   |                                      |
|        | Were all the Critical                                     | Elements performed satisfac  | torily?                                | Yes 🗖   | No                                   |
|        | The operator's perfor<br>and has been determi             | rmance was evaluated agains<br>ned to be: 📮 Satisfactory   | st the standards of U                  | contained in thi                                      | s JPM,                               |
|        | <u>Comments:</u>  |  |  |   |                                      |
|        |   |  |  | <mark>an an a</mark> | <u></u>                              |
|        |   | ······   |  |   |                                      |
|        |   |  |  | e <u>- 12 1997 († 1</u> . 17. <u>1997</u> )           | <u>na serie di seg</u> ra de la Seco |
|        |   | e and a second |  |   |                                      |
|        |   |  | •••• ••••• •••• ••• ••• ••• ••• •••    |   | <u></u>                              |
|        |   | ······································   |  |   | <u></u>                              |
|        |   |  |  |   |                                      |
|        | Evaluator's Name:   |  |  |   |                                      |
|        | Evaluator's Signature                                     |  |  | Date <sup>.</sup>                                     | · · ·                                |
|        | -   |  | ······································ |   |                                      |
|        |   |  |  |   |                                      |
|        |   |  |  |   |                                      |

## CLINTON POWER STATION

-SYSTEM JPM

#### JPM NUMBER: \_\_011264J002

#### **REVISION: 01**

#### **READ TO THE OPERATOR**

I will explain the initial conditions, which step(s) to simulate or discuss, and provide the initiating cues. When you complete the task successfully, the objective of this Job Performance Measure will be satisfied.

#### SIMULATOR SET-UP CONDITIONS:

Initialize to the Temporary IC established for this JPM, OR,

Initialize to any suitable IC with DG in standby, and:

Start Diesel Generator 1A

Transfer 4160 V Bus 1A1 to the RAT

Transfer the remaining 4160 V Buses to the ERAT

Confirm 4160 V RAT load is <15000 HP

Open the Auto Recloser for the in-service (closed) Switchyard breaker (4502 or 4522) Mark up a copy of CPS 3506.01 through Step 8.1.3.6.4) for use by the examinee in performing this JPM.

#### TASK STANDARDS:

Diesel Generator 1A is operating in parallel with off-site power with minimum load applied.

## TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

None

#### **PROCEDURAL/REFERENCES:**

CPS No. 3506.01, DIESEL GENERATOR AND SUPPORT SYSTEMS, Section 8.1.3, Rev. 28a.

#### **EVALUATOR INSTRUCTIONS:**

Amplifying cues are provided within the JPM steps.

#### **INITIAL CONDITIONS AND INITIATING CUE:**

Parallel Diesel Generator 1A with off-site power and apply minimum load of greeter than 500 kW for a maintenance run.

DG 1A was started per CPS 3506.01, Section 8.1.3. and steps are completed through Step 8.1.3.6.4). Begin at Step 8.1.3.7.

START TIME:

JPM NUMBER: \_011264J002

## PERFORMANCE INFORMATION

Critical steps are denoted with an asterisk (\*) to the left of the step number and appear in **BOLDED** letters. Failure to meet the standards for a critical step constitutes failure of the Job Performance Measure. The sequence of steps is assumed unless denoted in the comments section of the JPM.

#### **PERFORMANCE STEPS**

| 8.1.3.7         | Place DG 1A Output BKR SYNC switch to ON position.  |  |  |  |  |  |
|-----------------|---|--|--|--|--|--|
| Standard        | Inserts Sync Switch control handle and turns the Output BKR SYNC switch to ON   |  |  |  |  |  |
| CUE<br>Comments |   |  |  |  |  |  |
|                 | SAT UNSAT Comment Number  |  |  |  |  |  |
| 8.1.3.8         | Adjust DG 1A Incoming voltage with DG 1A Generator Voltage Regulator control switch so that Incoming voltage is matched with Running voltage. |  |  |  |  |  |
| Standard        | Examinee adjusts DG 1A voltage regulator so that incoming voltage is matched with running voltage.  |  |  |  |  |  |
| CUE<br>Comments |   |  |  |  |  |  |
|                 | SAT UNSAT Comment Number  |  |  |  |  |  |

|                 | SYSTEM JPM   |
|-----------------|--|
| JPM NUMBER:     | 011264J002 REVISION: 01  |
| 8.1.3.9         | Adjust DG 1A speed with DG 1A Governor control switch such that the DG<br>frequency is slightly greater than bus frequency as indicated by:<br>1) CLOCKWISE rotation of the synchroscope at a speed of approximatel  |
|                 | one revolution every 60-120 sec (i.e., $\frac{1}{2} - 1$ RPM) or slower.   |
|                 | <ol> <li>Both synchroscope lights are extinguished at the 12 o'clock position.</li> <li>Both synchroscope lights are brightly lit at the 6 o'clock position.</li> </ol>  |
| Standard        | <ul> <li>Examinee adjusts DG 1A governor control switch so DG frequency is slightly greater than bus frequency by observing:</li> <li>Slow rotation in the clockwise direction</li> <li>Both synchroscope lights are extinguished at the 12 o'clock</li> <li>Both synchroscope lights are brightly lit at the 6 o'clock</li> </ul> |
| CUE<br>Comments |  |
|                 | SAT UNSAT Comment Number   |
| *8.1.3.10       | <ul> <li>WHEN the synchroscope's pointer <u>nears</u> the vertical (12 o'clock) position and the synchronizing lamps go dark,</li> <li>1) Close DG 1A Output Bkr.</li> </ul>   |
| Standard        | When synchroscope pointer nears 12 o'clock, operator takes handswitch fo<br>DG 1A output breaker to CLOSE and observes RED light ON.   |
| CUE<br>Comments |  |
|                 | SAT UNSAT Comment Number   |
| *8.1.3.10.2)    | Promptly load DG 1A to at least 100 - 200 KW.  |
| Standard        | Examinee immediately loads diesel to at least >100 KW by taking governor control switch to RAISE.  |
| CUE<br>Comments |  |
|                 | SAT UNSAT Comment Number   |
|                 |  |
|                 |  |

Page 8 of 10

| NUMBER:       011264J002       REVISION:       01         \$1.3.10.3)       Verify VARs between -500 and +500 KVAR; adjust as necessary.         Standard       Examinee verifies VARs between -500 and +500 KVAR.         Performs adjustments (if necessary) to establish the required KVARs.         ZUE         Comments         SAT       UNSAT         Comments         SAT       UNSAT         Comments         KIA synchronized to the grid and minimum load applied (>500 kW).         TOP TIME:         KIA REFERENCE NUMBERS         K/A SYSTEM NUMBER       K/A REFERENCE NUMBER         Z64000       A2.01       3.5         3.6       3.7 | M. NUMBER:       U1264J002       REVISION: 01         13.10.3)       Verify VARs between -500 and +500 KVAR; adjust as necessary.         andard       Examinee verifies VARs between -500 and +500 KVAR.         Performs adjustments (if necessary) to establish the required KVARs.         JE         mments         SAT       UNSAT         Comment Number         SRMINATING CUES:         DG 1A is synchronized to the grid and minimum load applied (>500 kW).         OP TIME:      |                              |  |   |  |   |
|---|--|------------------------------|--|---|--|---|
| \$1.3.10.3)       Verify VARs between -500 and +500 KVAR; adjust as necessary.         Standard       Examinee verifies VARs between -500 and +500 KVAR.         Performs adjustments (if necessary) to establish the required KVARs.         CUE         Comments         SAT       UNSAT         Comments         SAT       UNSAT         Comments         ERMINATING CUES:         DG 1A is synchronized to the grid and minimum load applied (>500 kW).         TOP TIME:   | 13.10.3)       Verify VARs between -500 and +500 KVAR; adjust as necessary.         andard       Examinee verifies VARs between -500 and +500 KVAR.         Performs adjustments (if necessary) to establish the required KVARs.         IE         mments         SAT       UNSAT         Comment Number         RMINATING CUES:         DG 1A is synchronized to the grid and minimum load applied (≥500 kW).         OP TIME:   | JI 1VI 14 U1 <b>41DE/K</b> : | <u>011264J002</u>  | _   | REVISI   | ON: 01                                    |
| Standard       Examinee verifies VARs between -500 and +500 KVAR.<br>Performs adjustments (if necessary) to establish the required KVARs.         UUE<br>Comments       SAT       UNSAT       Comment Number         TOP TIME   | andard       Examine verifies VARs between -500 and +500 KVAR.         Performs adjustments (if necessary) to establish the required KVARs.         JE         mments         SAT       UNSAT         Comment Number         CRMINATING CUES:         DG 1A is synchronized to the grid and minimum load applied (≥500 kW).         OP TIME:         K/A REFERENCE NUMBERS         Importance Rating         (A SYSTEM NUMBER       K/A NUMBER         A2:01       3.5         3.6       3.7 | 8.1.3.10.3)                  | Verify VARs betw   | veen -500 and +500 KVAR;  | adjust as necessar                                 | у.  |
| SAT       UNSAT       Comment Number         TERMINATING CUES:       DG 1A is synchronized to the grid and minimum load applied (≥500 kW).         TOP TIME:  | JE<br>mments SAT UNSAT Comment Number CRMINATING CUES: DG 1A is synchronized to the grid and minimum load applied (≥500 kW). OP TIME: K/A REFERENCE NUMBERS Importance Rating /A SYSTEM NUMBER K/A NUMBER RO SRO 4000 A2.01 3.5 3.6 3.7 A4.05 3.6 3.7  | Standard                     | Examinee verifies<br>Performs adjustme   | VARs between -500 and +5<br>ents (if necessary) to establis   | 00 KVAR.<br>h the required KV                      | ARs.                                      |
| SAT       UNSAT       Comment Number         TERMINATING CUES:       DG 1A is synchronized to the grid and minimum load applied (≥500 kW).         TTOP TIME:   | SAT       UNSAT       Comment Number         SRMINATING CUES:       DG 1A is synchronized to the grid and minimum load applied (≥500 kW).         OP TIME:   | CUE<br>Comments              |  |   |  | de generale des au sub traine de l'agrand |
| <b>TERMINATING CUES:</b> DG 1A is synchronized to the grid and minimum load applied (≥500 kW). <b>TOP TIME:</b> K/A REFERENCE NUMBERS         Importance Rating         K/A SYSTEM NUMBER         Z64000       A2.01         3.5       3.6         3.7  | CRMINATING CUES:         DG 1A is synchronized to the grid and minimum load applied ⊵500 kW).         'OP TIME:         K/A REFERENCE NUMBERS         Importance Rating         (A SYSTEM NUMBER         K/A NUMBER         K/A NUMBER         A2.01         3.6         3.7   |                              | SAT UNSAT  | Comment Number  |  |   |
| DG 1A is synchronized to the grid and minimum load applied (≥500 kW).  TOP TIME:  | DG 1A is synchronized to the grid and minimum load applied (≥500 kW).<br>OP TIME:  | <b>FERMINATING</b>           | CUES:  |   |  |   |
| DG 1A is synchronized to the grid and minimum load applied (≥500 kW).  TOP TIME:  | DG 1A is synchronized to the grid and minimum load applied (≥500 kW).<br>OP TIME:  |                              |  |   |  |   |
| K/A REFERENCE NUMBERS         Importance Rating         K/A SYSTEM NUMBER       K/A NUMBER       RO       SRO         264000       A2.01       3.5       3.6         264000       A2.01       3.6       3.7   | K/A REFERENCE NUMBERS         Importance Rating         XA SYSTEM NUMBER       RO       SRO         34000       A2.01       3.5       3.6         3.6       3.7       3.6       3.7  | DG 1A is s                   | synchronized to the grid a   | nd minimum load applied (>  | 500 kW).   |   |
| K/A REFERENCE NUMBERS         Importance Rating         K/A SYSTEM NUMBER         264000       A2.01         3.5       3.6         3.6       3.7  | K/A REFERENCE NUMBERS           Importance Rating           /A SYSTEM NUMBER         K/A NUMBER         RO         SRO           54000         A2.01         3.5         3.6           3.6         3.7         A4.05         3.6         3.7   | STOP TIME:                   |  |   |  |   |
| Importance Rating         K/A SYSTEM NUMBER       RO       SRO         264000       A2.01       3.5       3.6         264000       A2.01       3.5       3.6         264000       A4.05       3.6       3.7   | Importance Rating         ZA SYSTEM NUMBER       K/A NUMBER       RO       SRO         54000       A2.01       3.5       3.6         54000       A2.01       3.5       3.6         54000       A4.05       3.6       3.7   |                              |  | FEDENCE NUMBERS   |  |   |
| Importance Rating         K/A SYSTEM NUMBER       RO       SRC         264000       A2.01       3.5       3.6         A2.01       3.6       3.7   | Importance Rating           24 SYSTEM NUMBER         RO         SRO           54000         A2.01         3.5         3.6           3.6         3.6         3.7         3.6         3.7  |                              |  | FERENCE NUMBERS   | n - District - Consideration and an an and a first |   |
| K/A SYSTEM NUMBER         RO         SRC           264000         A2.01         3.5         3.6           A4.05         3.6         3.7   | K/A NUMBER         RO         SRO           34000         A2.01         3.5         3.6           A4.05         3.6         3.7  |                              |  |   | Importanc  | e Rating                                  |
| K/A SYSTEM NUMBER         RO         SRC           264000         A2.01         3.5         3.6           3.6         3.6         3.7   | ZA SYSTEM NUMBER         K/A NUMBER         RO         SRO           54000         A2.01         3.5         3.6           3.6         3.7         3.6         3.7   |                              |  |   | ······   | <u>v</u>                                  |
|   | A2.01 3.5 3.6<br>3.6 3.7   | K/A SYSTEM N                 | NUMBER   | K/A NUMBER  | $\frac{RO}{25}$                                    | SRO                                       |
|   |  | -207000                      |  | A2.01   | <u> </u>   | 3.6                                       |
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## CLINTON POWER STATION

SYSTEM JPM

\_\_\_\_\_ JPM NUMBER: \_\_\_\_\_011264J002

**REVISION: 01** 

INITIATING CUE

Parallel Diesel Generator 1A with off-site power and apply minimum load of greeter than 500 kW for a maintenance run.

DG 1A was started per CPS 3506.01, Section 8.1.3. and steps are completed through Step 8.1.3.6.4). Begin at Step 8.1.3.7.

Page 10 of 10





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| JPM NUMBER: | 014200J005 |
|-------------|------------|
|             |            |

**REVISION: 03** 

## JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

**NOTE:** All steps of this checklist should be performed upon initial validation. Prior to JPM usage, revalidate JPM using steps 8 through 11 below.

- 1. Task description and number, JPM description and number are identified.
- 2. Knowledge and Abilities (K/A) references are included.
- 3. Performance location specified. (in-plant, control room, or simulator)
- \_\_\_\_\_4. Initial setup conditions are identified.
  - \_ 5. Initiating and terminating cues are properly identified.
    - 6. Task standards identified and verified by SME review.
  - 7. Critical steps meet the criteria for critical steps and are identified with an asterisk (\*).
  - Verify the procedure referenced by this JPM matches the most current revision of that procedure: Procedure Rev. \_\_\_\_ Date \_\_\_\_\_
    - 9. Pilot test the JPM:
      - a. verify cues both verbal and visual are free of conflict, and b. ensure performance time is accurate.
      - 10. If the JPM cannot be performed as written with proper responses, then revise the JPM.
    - 11. When JPM is revalidated, SME or Instructor sign and date JPM cover page.

SME/Instructor

Date

SME/Instructor

Date

SME/Instructor

Date

JPM NUMBER:

\_\_\_\_014200J005

**REVISION: 03** 

## **Revision Record (Summary)**

1. **Revision 02,** This revision is due to new Exelon format.

2. **Revision 03** This revision is due to revisions of the reference procedures.

| antina antin<br>Antina antina | CLINTON POWER STATION<br>SYSTEM JPM  |
|---|--|
|   | JPM NUMBER: 014200J005 REVISION: 03  |
|   | Operator's Name:<br>Job Title:   |
|   | JPM Title: Reset a Group 1 Isolation and Establish Pressure Control Using Inboard<br>Main Steam Line Drains<br>JPM Number: 014200J005  |
|   | Revision Number:       03         Task Number and Title:       441109.02, Complete Control Room Action to Perform RPV         Pressure Control Sources Using Abnormal System         Lineup/Operation                    |
|   | K/A Number: 239001.A4.02 Importance 3.2/3.2  |
|   | Suggested Testing Environment: Simulator   |
|   | Actual Testing Environment: 🖵 Simulator 🖵 Plant 🗔 Control Room   |
|   | Testing Method:       □       Simulate       Alternate Path /Faulted:       □       Yes       ■       No         ■       Perform   |
|   | Time Critical: 🖵 Yes 📕 No  |
|   | Estimated Time to Complete: 15 minutes Actual Time Used: minutes   |
|   | References:<br>CPS No. 4001.02, AUTO ISOLATION, Revision 10, Step 4.9.3<br>CPS 4001.02C001, AUTOMATIC ISOLATION CHECKLIST, Revision 14<br>CPS No. 4411.09, EOP RPV PRESSURE CONTROL SOURCES Revision 5,<br>Step 2.2.1.11 |

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|  | 014200J00                              | 5                                     |                                       | REV                   | <b>ISION</b> :                        | 03     | <u>.</u> |
|--|--|---------------------------------------|---------------------------------------|-----------------------|---------------------------------------|--------|----------|
| <b>EVALUATION SUN</b><br>Were all the Critical E | IMARY:                                 | ormed satisfactorily                  | · · · · · · ·                         | Yes                   |                                       | No     |          |
| The operator's perform<br>and has been determin  | nance was evaned to be: $\Box$         | aluated against the s<br>Satisfactory | tandards                              | containe<br>Unsatisfa | d in thi<br>ctory                     | s JPM, |          |
| Comments:  |  |                                       |                                       | ······                |                                       |        |          |
|  | ······································ | ······                                |                                       |                       |                                       |        | <u></u>  |
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| Evaluator's Name:                                | ····                                   | · · · · · · · · · · · · · · · · · · · |                                       | <u></u>               |                                       |        |          |
| Evaluator's Signature:                           | <u> </u>                               |                                       |                                       | Date                  | :                                     |        | _        |
|  |  |                                       |                                       |                       |                                       |        |          |
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|  |  |                                       |                                       |                       |                                       |        |          |

#### JPM NUMBER: \_\_014200J005

#### **REVISION: 03**

#### **READ TO THE OPERATOR**

I will explain the initial conditions, which step(s) to simulate or discuss, and provide the initiating cues. When you complete the task successfully, the objective of this Job Performance Measure will be satisfied.

#### SIMULATOR SET-UP CONDITIONS:

- Initialize to any hot/pressurized IC with MSIVs open.
- Insert a manual Scram using the Manual Scram Pushbuttons on P680 (Leave the Mode switch in RUN or take it to RUN).
- Lower reactor pressure using Bypass Valves until the Group 1 Isolation occurs.
- Take the Mode Switch to SHUTDOWN.
- Open an SRV as necessary to maintain reactor pressure less than 1000 psig.
- Lineup Auxiliary Steam to the GS header.
- Establish condenser vacuum with a Condenser Vacuum Pump.

#### TASK STANDARDS:

Group 1 Isolation is RESET and Main Steam Line Drains are Open.

#### TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS: None

#### **PROCEDURAL/REFERENCES:**

CPS No. 4001.02, AUTO ISOLATION, Revision 16, Step 4.9.3 CPS 4001.02C001, AUTOMATIC ISOLATION CHECKLIST, Revision 14 CPS No. 4411.09, EOP RPV PRESSURE CONTROL SOURCES, Revision 5, Step 2.2.1.11

#### **EVALUATOR INSTRUCTIONS:**

Amplifying cues are provided within the JPM steps.

## INITIAL CONDITIONS AND INITIATING CUE:

A Group 1 Isolation occurred due to Low Main Steam Line Pressure when the Reactor Mode Switch was inadvertently left in RUN following a Reactor Scram.

Reset the Group 1 Isolation signal in accordance with CPS No. 4001.02, AUTOMATIC ISOLATION section 4.9.3.

Open the Main Steam Line Inboard Drains in accordance with CPS No. 4411.09, EOP RPV PRESSURE CONTROL SOURCES for pressure control and to start a cooldown.

START TIME: \_\_\_\_\_

JPM NUMBER: 014200J005

#### **REVISION: 03**

## **PERFORMANCE INFORMATION**

Critical steps are denoted with an asterisk (\*) to the left of the step number and appear in **BOLDED** letters. Failure to meet the standards for a critical step constitutes failure of the Job Performance Measure. The sequence of steps is assumed unless denoted in the comments section of the JPM.

|   | PERFORMANCE STEPS  |
|---|--|
| CPS 4001.02, Step 4.9.3   | .1 Groups 1 - 4, 8, 10, 14 - 16, 19 and part of 20   |
| *4.9.3.1.2  | Resetting Isolations NOT caused by HVAC High Rad Signals   |
|   | 1) For the applicable GROUP(s) being reset:  |
| alata na manakata kan na manakata na mangkana tana dan kan sana na ma | Place the GROUP valve control switches listed in CPS 4001.02C001 annotated with an asterisk (*) to the CLOSE position. |
|   | 1B21-F022A, Inbd MSIV, C/S   |
|   | 1B21-F022B, Inbd MSIV, C/S   |
|   | 1B21-F022C, Inbd MSIV, C/S   |
|   | 1B21-F022D, Inbd MSIV, C/S   |
| un an an an an ann anns ann ann an ann an                             | 1B21-F028A, Outbd MSIV, C/S  |
| ··· · · · · · · · · · · · · · · · · ·                                 | 1B21-F028B, Outbd MSIV, C/S  |
|   | 1B21-F028C, Outbd MSIV, C/S  |
|   | 1B21-F028D, Outbd MSIV, C/S  |
| Standard  | Places 1B21-F022A-D, Inbd MSIVs, control switches to CLOSE and verifies GREEN light ON for each valve                  |
|   | Places 1B21-F028A-D, Outbd MSIVs, control switches to CLOSE and verifies GREEN light ON for each valve                 |
| CUE   |  |
| Comments  | Valves are listed in CPS 4001.02C001.  |
|   |  |
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Comment Number

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Page 7 of 10

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| TDM NILIMDED.             | SYSTEM JPM   |
|---------------------------|--|
| →JFWI NUMBER:             | <u>014200J005</u> REVISION: <u>03</u>  |
| *4.9.3.1.2.2)             | Depress the OUTBD ISOLATION SEAL-IN RESET <u>and</u> INBD ISOLATION SEAL-IN RESET push-buttons.                          |
| Standard                  | Examinee depresses the OUTBD and INBD ISOLATION SEAL-IN RESET push-buttons.  |
| CUE<br>Comments           |  |
|                           | SAT UNSAT Comment Number   |
| CPS 4411.09, Stej         | o 2.2.1, MAIN STEAM – CONDENSER/BYPASS VALVES/MSL DRAINS   |
| <u>*2.2.1.11</u>          | Main Steam Line Drains   |
|                           | <b>Open following Inboard MSL Inboard Drains as necessary:</b>   |
|                           | <ul> <li>1B21-F016, MS Drn &amp; MSIV Byp Inbd Isol Valve</li> </ul>   |
|                           | <ul> <li>1B21-F019, MS Drn &amp; MSIV Byp Outbd Isol Valve</li> </ul>  |
|                           | • 1B21-F020, MSIV Byp Vlv For MS Line Warm Up  |
|                           | • 1B21-F021, Inbd MSIV Before Seat Warmup Drn Vlv  |
| tanan (namena) (ten je se | • 1B21-F033, Inbd MSIV Before Seat Warmup Drn Vlv  |
| Standard                  | Examinee places the control switch to OPEN and observes the RED light is lit for each of the following MSL Drain valves: |
|                           | <ul> <li>1B21-F016, MS Drn &amp; MSIV Byp Inbd Isol Valve</li> </ul>   |
|                           | • 1B21-F019, MS Drn & MSIV Byp Outbd Isol Valve  |
|                           | • 1B21-F020, MSIV Byp Vlv For MS Line Warm Up  |
|                           | • 1B21-F021, Inbd MSIV Before Seat Warmup Drn Vlv  |
|                           | 1B21-F033, Inbd MSIV Before Seat Warmup Drn Vlv  |
|                           |  |
| CUE                       | If asked about opening MSIVs state:  |
| Comments                  | Not at this time.  |
|                           | SAT UNSAT Comment Number   |

#### JPM NUMBER: 014200J005

## **REVISION: 03**

#### **TERMINATING CUES:**

Group 1 Isolation is reset and the Main Steam Line Inboard Drains are open.

STOP TIME:

#### **K/A REFERENCE NUMBERS**

| K/A NUMBER | RO                                    | SRO   |  |
|------------|---------------------------------------|---|--|
| A4.02      | 3.2                                   | 3.2   |  |
| A4.03      | 3.6                                   | 3.5   |  |
| A4.04      | 3.5                                   | 3.6   |  |
|            | K/A NUMBER<br>A4.02<br>A4.03<br>A4.04 | K/A NUMBER         RO           A4.02         3.2           A4.03         3.6           A4.04         3.5 |  |

## CLINTON POWER STATION

SYSTEM JPM

#### JPM NUMBER: 014200J005

### **REVISION: 03**

#### **INITIATING CUE**

A Group 1 Isolation occurred due to Low Main Steam Line Pressure when the Reactor Mode Switch was inadvertently left in RUN following a Reactor Scram. Reset the Group 1 Isolation signal in accordance with CPS No. 4001.02, AUTOMATIC ISOLATION section 4.9.3.

Open the Main Steam Line Inboard Drains in accordance with CPS No. 4411.09, EOP RPV PRESSURE CONTROL SOURCES for pressure control and to start a cooldown.





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| <b>CLINTON POWER STATION</b> |
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| SYSTEM JPM                   |

#### JPM NUMBER: B.1.f 3

## JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

**NOTE:** All steps of this checklist should be performed upon initial validation. Prior to JPM usage, revalidate JPM using steps 8 through 11 below.

- 1. Task description and number, JPM description and number are identified.
  - 2. Knowledge and Abilities (K/A) references are included.
  - 3. Performance location specified. (in-plant, control room, or simulator)
  - 4. Initial setup conditions are identified.
  - 5. Initiating and terminating cues are properly identified.
  - 6. Task standards identified and verified by SME review.
- 7. Critical steps meet the criteria for critical steps and are identified with an asterisk (\*).
  - 8. Verify the procedure referenced by this JPM matches the most current revision of that procedure:
    - Procedure Rev. \_\_\_\_ Date \_\_\_\_
  - Pilot test the JPM:
     a. verify cues both verbal and visual are free of conflict, and
     b. ensure performance time is accurate.
- \_\_\_\_ 10. If the JPM cannot be performed as written with proper responses, then revise the JPM.
  - 11. When JPM is revalidated, SME or Instructor sign and date JPM cover page.

SME/Instructor

Date

SME/Instructor

Date

SME/Instructor

Date

Page 2 of 11

## JPM NUMBER: **B.1.f 3**

• •

## **REVISION:** <u>00</u>

## Revision Record (Summary)

1. **Revision 00,** This is a new JPM



| <u></u>  | CLINTON POWER STATION   |                        |
|--|---|------------------------|
|  | EXISTEM JPM   |                        |
|  | Operator's Name: REVISION: 00   |                        |
|  | Job Title: $\Box$ RO $\Box$ SRO   |                        |
|  |   |                        |
|  | JPM Title: Transfer RR Fast to Slow with Trip of One Pump                             |                        |
|  | Period Number: B.1.1.3  | 14. X                  |
|  | Task Number and Title: 011202C561 / Transfer Reactor Recirculation Pumps "A" and      |                        |
|  | "B" from Fast Speed to Slow Speed Per CPS No. 3302.01                                 |                        |
| and the second state of the second  |   | No.S                   |
| <b>Maria Canada</b> da Angela da Ang<br>Maria Maria da Angela da Angela<br>Maria Maria da Angela | K/A Number 202001.A2.03, Imp Importance 3.6 / 3.7                                     | an e                   |
| and an   | Suggested Testing Environment: Simulator  |                        |
|  |   |                        |
|  | Actual Testing Environment: 🛛 Simulator 🖵 Plant 🖵 Control Room                        |                        |
|  | Personal Matheds I. Simulato Altomate Dath / Facility J. Thur                         |                        |
|  | Perform   | ۋەنىتە <sub>قە</sub> م |
|  |   |                        |
|  | Time Critical: 🖵 Yes 🔳 No   |                        |
|  | Estimated Time to Complete: 15 minutes Actual Time Used.                              |                        |
|  | Estimated Time to Complete. 15_ minutes Actual Time Osed: minutes                     |                        |
|  | References: CPS 3006.01 UNIT SHUTDOWN   | eter.                  |
| an a   | CPS 3302.01 REACTOR RECIRCULATION (RR)  |                        |
|  | CPS 4008.01 ABNORMAL REACTOR COOLANT FLOW   |                        |
|  | EVALUATION SUMMARY:   |                        |
|  | Were all the Critical Elements performed satisfactorily?  Yes  No                     |                        |
| and the second   | Was Immediate Action performed from memory?   |                        |
|  | was infinediate Action performed from memory?   |                        |
|  | The operator's performance was evaluated against the standards contained in this JPM, |                        |
|  | and has been determined to be:  Satisfactory  Unsatisfactory                          |                        |
|  | Commente  | 1212/1                 |
|  |   |                        |
| <u></u>  |   |                        |
|  |   | ,                      |
|  |   |                        |
|  |   |                        |
|  |   |                        |
|  | Evaluator's Name:   |                        |
|  | Evaluator's Signature:  |                        |
|  | Daic.   |                        |
|  |   |                        |
|  |   |                        |

Page 4 of 11

#### JPM NUMBER: B.1.f 3

**REVISION: 00** 

### READ TO THE OPERATOR

I will explain the initial conditions, which step(s) to simulate or discuss, and provide the initiating cues. When you complete the task successfully, the objective of this Job Performance Measure will be satisfied.

### SIMULATOR SET-UP CONDITIONS:

Any IC for plant shutdown with the following conditions:

- Approximately 33% Power.
- One TRFP running on SULC in Automatic
- Turbine drains opened per 3006.01 Step 8.2.3

## Insert Malfunction RR07A-RECIRC PUMP A INCOMPLETE START SEQUENCE Select RR107 and RR108 LO TO FAST INT BYPASS; TRUE as PENDING Select RR109A FCV A MIN POS FOR PUMP UPSHIFT (set for <10%) as PENDING Select RR109A FCV B MIN POS FOR PUMP UPSHIFT (set for <10%) as PENDING

#### TASK STANDARDS:

Steps completed for transferring Reactor Recirculation Pumps to Slow Speed. Recognized failure of Pump A to run in Slow. 1B33-F067A Discharge Valve is closed.

## **TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:**

Copy of 3006.01 signed off through Step 8.2.3

#### **PROCEDURAL/REFERENCES:**

CPS 3006.01 UNIT SHUTDOWN CPS 3302.01 REACTOR RECIRCULATION (RR) CPS 4008.01 ABNORMAL REACTOR COOLANT FLOW

#### **EVALUATOR INSTRUCTIONS:**

Ensure that the simulator is stable and all Set-up conditions are completed. Prepare a copy of 3006.01 signed off through Step 8.2.3 Amplifying cues are provided within the JPM steps.

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### JPM NUMBER: B.1.f 3

**REVISION: 00** 

## **INITIAL CONDITIONS AND INITIATING CUE:**

A plant shutdown is in progress with power at approximately 33% of rated thermal power. One TDRFP is in operation with level control on the Startup Level Controller. 3006.01, UNIT SHUTDOWN, has been completed through step 8.2.3 and is signed off.

As the Reactor Operator you are directed to transfer the Reactor Recirculation Pumps to Slow Speed per CPS 3302.01 REACTOR RECIRCULATION (RR).

START TIME: \_\_\_\_\_

## JPM NUMBER: B.1.f 3

## **PERFORMANCE INFORMATION**

Critical steps are denoted with an asterisk (\*) to the left of the step number and appear in **BOLDED** letters. Failure to meet the standards for a critical step constitutes failure of the Job Performance Measure. The sequence of steps is assumed unless denoted in the comments section of the JPM.

|             | PERFORMANCE STEPS  |  |
|-------------|--|--|
| CPS 3302.01 | , 8.1.3 RR Pump - Transfer To Slow Speed   |  |
| 1.          | (Local)At 1B33-P001A and B, LFMG Aux Relay Panel, place following keylock switches to BYPASS:  |  |
|             | A pump:° S126A, Power Interlock (Both on FB 781' East)<br>° S127A, Total Feedwater Low Flow InterlockB pump:° S126B, Power Interlock (Both on FB 781' West)<br>° S127B, Total Feedwater Low Flow Interlock   |  |
| Standard    | Request area operator to bypass the FW Flow FCV cavitation / RR pump downshift interlocks at 1B33-P001A and B, LFMG Aux Relay Panel by placing S126A&B and S127A&B in BYPASS.  |  |
| CUE         | <ul> <li>ACTIVATE RR107 and RR108 LO TO FAST INT BYPASS; TRUE</li> <li>Report as area operator, S126A&amp;B and S127A&amp;B at 1B33-P001A and<br/>B, LFMG Aux Relay Panel are in BYPASS; the FW Flow FCV<br/>cavitation / RR pump downshift interlocks.</li> </ul> |  |
| Comments    | SAT UNSAT Comment Number   |  |

#### Page 7 of 11

## CLINTON POWER STATION

|                      |          |   |  | SYSTEM JPM   |   |
|----------------------|----------|---|--|--|---|
|                      | JPM NUMB | ER: <u>B.1.f 3</u>  |  | ·  | REVISION: 00                                      |
|                      | 2.       | Make the follow<br>1) Notify RP<br>2) Make a pl<br>to slow. | ving RR pump<br>of potential c<br>ant wide Gaitr | o transfer notifications:<br>hange in Rad levels.<br>onics announcement th | at the RR pumps will be transferred               |
|                      | Standard | Call 1  | RP to notify th                                  | em of potential Rad lev  | vel changes                                       |
|                      |          | Make  | s Gaitronics a                                   | nnouncement, Transfer  | ring RR Pumps to Slow Speed.                      |
|                      | CUE      | Respo   | ond as RP ack                                    | nowledging notification  | n of changing Rad levels.                         |
| I                    | Comments |   |  |  |   |
|                      |          | SAT   | UNSAT  | Comment Number   |   |
| <del></del>          | *3.      | Start <u>both</u> LFN                                       | /IGs by closin                                   | g LFMG A & B Moto  | or Breakers 1A & 1B.                              |
| 1                    | Standard | Close   | LFMG A & I                                       | 3 Motor Breakers 1A &  | z 1B.   |
| (                    | CUE      | As CI   | RS respond to                                    | CRO report of start of   | LFMGs   |
| (                    | Comments | SAT   | UNSAT  | Comment Number   |   |
| a, Marana da Lagunga | *4.      | Place both 1B3<br>position.                                 | 3-F060A & B                                      | , Recirc FCVs at ~ 10  | % position, but <u>not</u> > 10%                  |
| S                    | Standard | Place<br>position   | both 1B33-F0<br>on.                              | 60A & B, Recirc FCV  | s at ~ 10% position, but $\underline{not} > 10\%$ |
| (                    | CUE      |   |  |  |   |
| (                    | Comments | ACTI<br>RR10<br>RR10<br>SAT                                 | VATE :<br>9A FCV A MI<br>9A FCV B MI<br>UNSAT    | N POS FOR PUMP U<br>N POS FOR PUMP U<br>Comment Number                     | PSHIFT (set for <10%)<br>PSHIFT (set for <10%)    |

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|                                   | CLINTON POWER STATION  |
|-----------------------------------|--|
| JPM NUMI                          | BER:         B.1.f 3         REVISION: 00  |
| *5.                               | Transfer the RR pumps to the LFMG by depressing <u>both</u> TRANSFER TO LFMG A and B push-buttons simultaneously.  |
| Standard                          | Transfer the RR pumps to the LFMG by depressing both TRANSFER TO<br>LFMG A and B push-buttons simultaneously   |
| CUE                               | As CRS respond to CRO report of transfer to slow speed.  |
| Comments                          | SAT UNSAT Comment Number   |
|                                   | Observe that the 5A and 5B breakers open and when nump gread decrease (1, 0, 4, 1)   |
| ···· <b>6.</b>                    | 2B breakers close.   |
| Standard                          | 2B breakers close.<br>Observes that:   |
| 6.<br>Standard                    | 2B breakers close.<br>Observes that:<br>The 5A and 5B breakers open and when pump speed decreases the 2 B<br>breaker closes.   |
| 6.<br>Standard                    | 2B breakers close.<br>Observes that:<br>The 5A and 5B breakers open and when pump speed decreases the 2 B<br>breaker closes.<br>The 2A breaker closes and promptly reopens.                                  |
| 6.<br>Standard<br>CUE             | 2B breakers close.<br>Observes that:<br>The 5A and 5B breakers open and when pump speed decreases the 2 B<br>breaker closes.<br>The 2A breaker closes and promptly reopens.<br>Respond as CRS to CRO report. |
| 6.<br>Standard<br>CUE<br>COmments | 2B breakers close.<br>Observes that:<br>The 5A and 5B breakers open and when pump speed decreases the 2 B<br>breaker closes.<br>The 2A breaker closes and promptly reopens.<br>Respond as CRS to CRO report. |

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| ° <b>*</b><br>* | CLINTON POWER STATION<br>SYSTEM IPM   |  |
|-----------------|---|--|
| JPM NU          | MBER: <u>B.1.f 3</u>  | <b>REVISION<u>: 00</u></b>   |
| CPS 4003<br>1.7 | 8.01 ABNORMAL REACTOR COOLANT FLOW<br>RR Pump(s) trip from slow speed to off  | n a na 2 at an anna an an an an an anna an an an an  |
| *3.2            | Shut RR Pump 1B33-F067A, Discharge Vlv.   |  |
| Standard        | Takes action to Shut 1B33-F067A, Discharg   | ge Valve.  |
| CUE             | Respond to report that F067A is being closing Terminate the JPM.  | ng.  |
| Comment         | s This should be performed without initial ref<br>Examiner should note if this was performed<br>procedure. Failure to perform it from memo<br>other competencies rather than failure to con | Terence to CPS 4008.01.<br>with or without reference to the<br>bry should be evaluated with<br>mplete a critical step. |
|                 | SAT UNSAT Comment Number  |  |

#### **TERMINATING CUES:**

RR pumps shifted to slow speed, recognition of the A RR pump failure to shift to slow and taking the action to shut the the 1B33-FO67A, Ttrminate when the 1B33-F067A is going closed.

If examinee fails to notice the failure of the 2A Pump to start in slow then respond to actions associated with opening the FCVs to 90% and rearming runback interlocks. Then terminate JPM.

**STOP TIME:** 

#### **K/A REFERENCE NUMBERS**

Importance Rating

RO

3.6

K/A SYSTEM NUMBER 202001

K/A NUMBER A2.03 <u>SRO</u> 3.7

## JPM NUMBER: B.1.f 3

#### **REVISION: 00**

#### **INITIATING CUE**

A plant shutdown is in progress with power at approximately 33% of rated thermal power. One TDRFP is in operation with level control on the Startup Level Controller. 3006.01, UNIT SHUTDOWN, has been completed through step 8.2.3 and is signed off.

As the Reactor Operator you are directed to transfer the Reactor Recirculation Pumps to Slow Speed per CPS 3302.01 REACTOR RECIRCULATION (RR).

Page 11 of 11





NRC SUBMITTAL COPY

## JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

Secondary .

n coord a distribution and dispetition of the

|  | NOTE:       | All st<br>Prior | eps of this checklist should be performed upon<br>to JPM usage, revalidate JPM using steps 8 th                  | initial validation.<br>arough 11 below. | na na shi ngan                            |
|--|-------------|-----------------|--|---|---|
|  |             | 1.              | Task description and number, JPM description identified.   | on and number are                       |   |
|  |             | 2.              | Knowledge and Abilities (K/A) references are   | included.                               |   |
| <u>ilali il</u> a geolesi (s. 1999).<br>Nationalista   |             | 3.              | Performance location specified. (in-plant, con   | trol room, or simulator)                |   |
|  |             | 4.              | Initial setup conditions are identified.   |   |   |
|  |             | <u>5</u> .      | Initiating and terminating cues are properly id  | entified.                               |   |
|  | <del></del> | 6.              | Task standards identified and verified by SMI  | E review.                               |   |
|  |             | 7.              | Critical steps meet the criteria for critical step an asterisk (*).  | s and are identified with               |   |
|  |             | 8.              | Verify the procedure referenced by this JPM r<br>current revision of that procedure:<br>Procedure Rev Date       | matches the most                        | - ,                                       |
|  |             | 9.              | Pilot test the JPM:<br>a. Verify cues both verbal and visual are free<br>b. Ensure performance time is accurate. | of conflict, and                        | • .                                       |
|  |             | 10.             | If the JPM cannot be performed as written wit then revise the JPM.   | h proper responses,                     |   |
|  | . <u></u>   | 1 <b>1</b> .    | When JPM is revalidated, SME or Instructor s cover page.   | ign and date JPM                        |   |
|  |             |                 |  |   | n na sana na sana na sana sana sana san   |
| depunction of the solution o | SME / In    | struct          | or – Signature / Printed   | Date                                    |   |
| · · · · ·  | SME / In    | structo         | or – Signature / Printed   | Date                                    |   |
|  | SME / In    | structo         | or – Signature / Printed   | Date                                    | مداردر میردد. میداندید<br>مدارد او میدارد |
| dia dia mandri di constructione di Statico della di Statica di Constanti di Statica di Constanti di Statica di C   |             |                 |  |   |   |
|  |             |                 |  | Page 2 of 16                            |   |

## JPM NUMBER: \_\_\_\_011288J006

**REVISION:** <u>01</u>

## **Revision Record (Summary)**

| Revision | Date     | Description                                   |
|----------|----------|---|
| 00       | Unknown  | Unknown                                       |
| 01       | 04/17/02 | This is revision is due to new Exelon format. |

Page 3 of 16

| <b>CLINTON POWE</b> | R STATION- |
|---------------------|------------|
| SYSTEM              | JPM        |

| JPM NUMBER:011288J006 REVISION: 01  |
|---|
| Operator's Name:<br>Job Title:  |
| JPM Title:       Place the Continuous Containment Purge System (CCP) in the Filtered         Mode (Auto)       Mode (Auto)         JPM Number:       011288J006         Revision Number:       01         Task Number and Title:       011288C528 / Place the Continuous Containment Purge System (CCP)         in the Filtered Mode (Auto) |
| K/A Number       288000       A3.01       Importance       3.8 / 3.8  |
| Actual Testing Environment:       □       Simulator       □       Plant       □       Control Room         Testing Method:       □       Simulate       Alternate Path / Faulted:       □       Yes       ■       No         ■       Perform       □       Perform       □       No       ■   |
| Time Critical:       □       Yes       No         Estimated Time to Complete:       22 minutes       Actual Time Used:      minutes         References:       CPS 3408.01, Containment Building/Drywell HVAC (VR_VO)  |
| <b>EVALUATION SUMMARY:</b><br>Were all the Critical Elements performed satisfactorily?  |
| been determined to be:  Satisfactory Unsatisfactory Comments:   |
|   |
| Evaluator's Name:   |
|   |

#### JPM NUMBER: 011288J006

**REVISION: 01** 

#### **READ TO THE OPERATOR**

I will explain the initial conditions, which step(s) to simulate or discuss, and provide the initiating cues. When you complete the task successfully, the objective of this Job Performance Measure will be satisfied.

#### SIMULATOR SET-UP CONDITIONS:

Initialize to any suitable IC where CCP (VR/VQ) is operating in the Unfiltered mode.

#### TASK STANDARDS:

• The CCP system is operating in the Filtered Mode.

#### TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

None

#### **PROCEDURAL/REFERENCES:**

CPS 3408.01, Containment Building/Drywell HVAC (VR, VQ)

#### **EVALUATOR INSTRUCTIONS:**

Amplifying cues are provided within the JPM steps.

#### INITIAL CONDITIONS AND INITIATING CUE:

Place the CCP system in the filtered mode per CPS No. 3408.01, step 8.1.1.2 using the "A" Drywell Purge Train. No automatic isolations affecting VR/VQ have occurred.

START TIME:

JPM NUMBER: 011288J006

#### **PERFORMANCE INFORMATION**

Critical steps are denoted with an asterisk (\*) to the left of the step number and appear in **BOLDED** letters. Failure to meet the standards for a critical step constitutes failure of the Job Performance Measure. The sequence of steps is assumed unless denoted in the comments section of the JPM.

#### **PERFORMANCE STEPS**

#### 8.1.1.2 Startup Continuous Containment Purge Filtered (Auto)

 1
 8.1.1.2.1
 Check that the Containment Building/Drywell HVAC System is stopped per section

 8.1.3 or 8.2.2 of this procedure.

Standard: Operator proceeds to section 8.1.3.

Cue:

Comments:

-

| 8.1.3 | Shutdown  | Continuous Containment Purge, Unfiltered Mode   |
|-------|-----------|---|
| 2     | 8.1.3.1.1 | At CCP local control panel 1PL17J turn the CCP Heating Coil 1VR05A OFF, if energized. |
|       | Standard: | Operator directs area operator to turn 1VR05A OFF.                                    |
|       | Cue       | As the area operator, report that CCP heating Coil 1VR05A is OFF                      |

| 1128 | <b>BJ006</b> | Ś         |
|------|--------------|-----------|
|      | 1128         | 11288J006 |

**REVISION:** <u>01</u>

|  |                     |  | n na hanna an ann an ann an ann ann ann   |
|--|---------------------|--|---|
|  | *3                  | 8.1.3.1.2                                | Place the CNMT CONTINUOUS PRG MODE switch in NEUTRAL position and observe the following:  |
|  |                     |  | a) CNMT BLDG SPLY OUTBD ISOL VLV, 1VR006A closes.   |
|  |                     |  | b) CNMT BLDG SPLY INBD ISOL VLV, 1VR006B closes.  |
|  |                     |  | c) CNMT BLDG EXH/PRG INBD ISOL VLV, 1VR007B closes.   |
|  |                     |  | d) CNMT BLDG EXH/PRG OUTBD ISOL VLV, 1VR007A closes.  |
|  |                     |  | e) HVAC STACK INLET VLV, 1VR010 closes.   |
|  |                     | ئېچرانې د که دماند کا مولاد و لکې مدير و | f) CNMT BLDG SPLY FAN 1VR06CA(1VR06CB) stops and check that CNMT<br>BLDG OUTSIDE AIR SPLY INLT VLV, 1VR005 and CNMT BLDG SPLY<br>FAN ISOL VLV, 1VR004A(1VR004B) close.                        |
|  |                     |  | g) CNMT BLDG EXH FAN 1VR07CA(1VR07CB) stops and check that CNMT<br>BLDG EXH FAN ISOL VLV, 1VR009A(1VR009B) closes.  |
|  |                     | Standard:                                | Operator takes handswitch for CNMT CONTINUOUS PRG MODE to NEUTRAL<br>and observes GREEN light ON for the following valves: 1VR006A/B,<br>1VR007A/B, 1VR010, 1VR005, 1VR004A/B, and 1VR009A/B. |
|  |                     |  | Operator observes GREEN light ON for the following fans: 1VR06CA/B and 1VR07CA/B.   |
|  |                     | Cue:                                     |   |
|  |                     | Comments:                                | Verifications not critical  |
| and a start of the |                     |  | SAT UNSAT Comment Number  |
| •  | 4                   | 8.1.3.1.3                                | Close 1VQ003 DW PRG CNMT EXH INBD ISOL VLV.   |
|  | tile a race and the | Standard:                                | Operator takes handswitch for 1VQ003 to CLOSE and observes GREEN light ON.  |
|  |                     | Cue                                      |   |
|  |                     | oue.                                     |   |
|  |                     | Comments:                                | This step is not critical since 1VQ003 is reopened in a subsequent step.  |
| JPM NUMBER:011  | CLINTON POWER STATION<br>SYSTEM JPM<br>288J006 REVISION: 01   |  |
|---|---|--|
| 5 8.1.3.1.4   | Place control switches for tripped fans in AFTER-STOP to clear auto-trip annunciators.                                  |  |
| Standard:   | Operator takes handswitches for tripped fans to the AFTER-STOP position.  |  |
| Cue:<br>Comments:   |   |  |
|   | SAT UNSAT Comment Number  |  |
| 8.1.1.2 Startup Co  | ontinuous Containment Purge Filtered (Auto)   |  |
| 6 8.1.1.2.2   | Verify no isolation signals are present, or reset per section 8.3.1.  |  |
| Standard:   | No operator action required since this was part of the initial conditions.  |  |
| Cue:  |   |  |
| Comments:   | SAT UNSAT Comment Number  |  |
|   |   |  |
|   |   |  |
| an o su construction e la seconda de la s | a si si sesti si esti si tenen illa pressione en con este de la superiore sus este della primera en este de la<br>La si |  |
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|   |   |  |
|   | Page 8 of 16  |  |
|   |   |  |

# CLINTON POWER STATION

| •  | SYSTEM JPM   |  |
|--|--|--|
| JPM NUMBER:  | )11288J006   | <b>REVISION:</b> <u>01</u>                                     |
| · •  |  |  |
| 7 c 8.1.1.2.3  | In accordance with CPS ITS SR 3.6.1.3.1, durin following are closed:   | ng MODEs 1, 2, and 3, verify the                               |
|  | 1VR001A CNMT BLDG SPLY OUT BD IS   | OL VLV,  |
| a stability posti a con star y anti-anti-anti-anti-anti-anti-anti-anti-  | 1VR001B CNMT BLDG SPLY IN BD ISOI  | <u>_VL</u> V,  |
| a a construction de la construction<br>La construction de la construction d                | 1VQ004A CNMT BLDG EXH/PRG OUTBI  | DISOL VLV,   |
|  | 1VQ004B CNMT BLDG EXH/PRG INBD I   | SOL VLV,   |
|  | 1VR002A CNMT BLDG SPLY OUTBD ISC   | DL BYP VLV,  |
|  | 1VR002B CNMT BLDG SPLY INBD ISOL   | BYP VLV,   |
|  | 1VQ006A CNMT BLDG EXH OUTBD ISO  | L BYP VLV,   |
|  | IVQ006B CNMT BLDG EXH INBD ISOL  | BYP VLV,   |
| a negati negati <mark>negati negati negati<br/>Negati negati negati</mark> | LVQ002 DW PRG INBD ISL VLV,  |  |
|  | 1 VQ005 DW HD PRG EXH ISOL VLV   |  |
|  |  |  |
| <mark>pagi</mark> nan sela an ina ang mangang ang mangang sela.<br>P   | Document verification in the Reactor Operator  | s Log.   |
| Standard   | <ul> <li>Operator verifies the following valves CLOSE<br/>each valve: 1VR001A/B, 1VQ004A/B, 1VR00<br/>1VQ005.</li> </ul> | D by observing GREEN light ON for 2A/B, 1VQ006A/B, 1VQ002, and |
|  | Operator simulates entry of valve positions in t   | he Reactor Operator Log.                                       |
|  |  |  |
| Cu   | e: Extra RO will log   |  |
| Comment  | s: Actual valve status documentation is not requir   | red.   |
|  |  |  |
|  | SAT UNSAT Comment Number   |  |

Page 9 of 16

| •                 | SYSTEM JPM   |              |  |  |  |  |
|-------------------|--|--------------|--|--|--|--|
| JPM NUMBER: 011   | 288J006 REVISION   | [: <u>01</u> |  |  |  |  |
| *8 8.1.1.2.4      | Place the control switch for 1VQ003, DW PRG CNMT EXH INBD ISOL V<br>in the OPEN position and check that it fully opens. (i.e., green light<br>extinguished at handswitch on 1H13-P800-64C) | LV           |  |  |  |  |
| Standard:<br>Cue: | Operator takes handswitch for 1VQ003 to OPEN and observes RED light ON an GREEN light OFF.   | d            |  |  |  |  |
| Comments:         | Step need not be performed if 1VQ003 was previously left open. It is critical the 1VQ003 is OPEN.  | ıt           |  |  |  |  |
|                   | SAT UNSAT Comment Number   |              |  |  |  |  |
| *9 8.1.1.2.5      | Place one DW PRG EXH FAN, 0VQ02CA or CB control switch in AUTO position.   |              |  |  |  |  |
| Standard:         | Operator takes handswitch for 0VQ02CA to AUTO.   |              |  |  |  |  |
| Cue:<br>Comments: |  |              |  |  |  |  |
|                   | SAT UNSAT Comment Number   |              |  |  |  |  |
| *10 8.1.1.2.6     | Place 1VQ02Y, DW PRG NORM EXH DMPR, to the OPEN position, and verify that it opens.  | <u></u>      |  |  |  |  |
| Standard:         | Operator takes handswitch for 1VQ02Y to OPEN and observes RED light ON.  |              |  |  |  |  |
| Cue:              |  |              |  |  |  |  |
| Comments:         |  |              |  |  |  |  |
|                   |  |              |  |  |  |  |
|                   | SAT UNSAT Comment Number   |              |  |  |  |  |

|   | JPM  | NUMBER:011                                   | <u>288J006</u>   | CLINTON POWER STATION<br>SYSTEM JPM<br>REVISION: 01 |  |   |  |
|---|--|--|--|---|--|---|--|
|   | *11  | 8.1.1.2.7                                    | Place CI<br>LEAD o   | NMT BLDG SF<br>r 06CB LEAD.                         | LY FAN, 1VR06CA/CB Selec   | tor switch to 06CA  |  |
|   |  | Standard:                                    | Operator   | takes handswite                                     | ch for either 1VR06CA or 1VR   | 06CB to LEAD.   |  |
|   |  | Cue:<br>Comments:                            |  |   |  |   |  |
|   |  |  | SAT  | UNSAT   | Comment Number   | ·   |  |
|   | 12   | 8.1.1.2.8                                    | Place CN<br>07CB LE  | IMT BLDG EX<br>EAD.                                 | HFAN, 1VR07CA/CB Selector  | switch to 07CA LEAD or  |  |
|   |  | Standard:                                    | Óperator   | takes handswite                                     | ch for either 1VR07CA or 1VR0  | 07CB to LEAD.   |  |
|   |  | Cue:<br>Comments:                            |  |   |  |   |  |
|   | ····   |  | SAT  | UNSAT   | Comment Number   |   |  |
|   | ۵۹۵۹ د ۲۹۹۹ د ۲۰۰۰ د محمد (<br>۱۹۹۵ - ۲۹۹۹ د ۲۰۰۰ د ۲۰۰۰<br>۱۹۹۹ - ۲۹۹۹ - ۲۰۰۰ د ۲۰۰۰<br>۱۹۹۹ - ۲۹۹۹ - ۲۹۹۹ - ۲۹۹۹ |  |  |   |  |   |  |
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**K**224 - 1

| JPM NUMBER: 0112                         |                 | 011288J         | 006   | REV   | <b>ISION:</b> <u>01</u>   |                          |
|--|-----------------|-----------------|---|---|---|--------------------------|
| *13 8.1.1.2.9                            |                 | <b>Pl</b><br>ob | Place the CNMT CONTINUOUS PRG MODE switch in FILT position and observe the following: |   |   |                          |
|  |                 |                 | a)  | CNMT BLDG SPLY  | OUTBD ISOL VLV, 1VR006A opens.  |                          |
|  |                 |                 | b)  | CNMT BLDG SPLY  | INBD ISOL VLV, 1VR006B opens.   |                          |
| all for                                  |                 |                 | c)  | CNMT BLDG EXH/I   | PRG INBD ISOL VLV, 1VR007B opens.   |                          |
|  |                 |                 | d)  | CNMT BLDG EXH/I   | PRG OUTBD ISOL VLV, 1VR007A opens.  |                          |
|  |                 |                 | e)  | DW PRG TRN INLT   | VLV, 1VQ020 opens.  |                          |
|  |                 |                 | f)  | CNMT BLDG EXH F<br>EXH FAN ISOL VLV                                       | FAN, 1VR07CA(1VR07CB) starts and CNMT (<br>, 1VR009A(1VR009B) opens.  | BLDG                     |
| • • • • • •<br>• • • • • •               |                 |                 | g)  | CNMT BLDG SPLY<br>OUTSIDE AIR SPLY<br>ISOL VLV, 1VR004/                   | FAN, 1VR06CA(1VR06CB) starts and CNMT<br>INLT VLV, 1VR005 and CNMT BLDG SPLY<br>A(1VR004B) opens.                               | ' BLDG<br>Y FAN          |
| an a | o de sus duning |                 | h)  | DW PRG TRAIN A(I  | 3) ELEC BLAST COIL, 0VQ05AA(AB) energ   | izes.                    |
|  |                 |                 | i)  | DW PRG TRN 01SA   | (01SB) DMPR, 0VQ24YA (0VQ24YB) opens.   |                          |
|  |                 |                 | j)  | DW PRG EXH FAN  | 2CA(2CB) ISOL DMPR, 0VQ07YA (0VQ07Y   | B) opens.                |
|  |                 |                 | k)  | DW PRG EXH FAN,   | 0VQ02CA or CB is running.   |                          |
|  |                 | Stand           | ard: Op<br>pos<br>1V  | erator takes handswitch<br>sition and observes REI<br>R007A/B, 1VQ020, 1V | n for CNMT CONTINUOUS PRG MODE to th<br>D light ON for the following valves: 1VR006A/<br>7R009A/B, 1VR005, 1VR004A/B, 0VQ24YA/I | le FILT<br>/B,<br>B, and |
|  |                 |                 | 0V  | Q07YA/B.  |   |                          |
|  |                 |                 | Op<br>1V  | erator observes RED lig<br>R06CA/B, 0VQ02CA/I                             | ght ON for the following fans: 1VR07CA/B,<br>B.   |                          |
|  |                 |                 | Ор  | erator observes RED lig   | ght on for 0VQ05AA/AB.  |                          |
|  |                 | C               | ue:   |   | · · ·   |                          |
|  |                 | Comme           | nts: Ve   | rifications not critical,   | status verification can be performed in any orde  | er.                      |
|  |                 |                 | selection SA  | T UNSAT   | Comment Number  |                          |

|   | CLINTON POWER STATION  |
|---|--|
| JPM NUMBER:0112   | SYSTEM JPM         REVISION: 01  |
| 14 8.1.1.2.10   | If outside temperature is less than 65°F, turn on CCP Heating Coil 1VR05A at CCP local control panel 1PL17J.                           |
| Standard:   | No operator action required.   |
|   |  |
| Comments:   |  |
|   | SAT UNSAT Comment Number   |
| 15 8.1.1.2.11   | At the CCP local control panel, 1PL17J, start/verify running Transfer Fan 1VR12C.  |
| Standard:   | Operator directs an area operator to start 1VR12C.   |
| Cue:  | As the area operator, report that 1VR12C is ON.  |
| Comments:   |  |
|   | SAT UNSAT Comment Number   |
| 16 c 8.1.1.2.12   | Check that Primary Containment to Secondary Containment differential pressure stabilizes between -0.25 and +0.25 psid (Modes 1, 2, 3). |
| Standard:   | Operator directs area operator to verify delta-p to be between -0.25 and +0.25 psid.   |
| Cue:  | As the area operator report that differential pressure is in band.   |
| Comments:   |  |
| ang ng mangang ng mga ng mg | SAT UNSAT Comment Number   |
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|   |  |
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| den stand general en in de en   | Page 13 of 16  |

|  | <u>.</u>   |  | CLINTON I  | OWER STATION  |  |  |
|--|--|--|--|---|--|--|
| intra constanti                                      | JPM NUMBER:  | 011288J006   |  |   | REVIS                                    | [ON: <u>01</u>                           |
|  | 17 c 8.1.1.2.13  | Check th   | at Drywell to P<br>+1.0 psid (Mod  | rimary Containment differentes 1, 2, 3).  | ential pressure stabilizes               | between                                  |
|  | Stand  | ard: Operator  | observes delta-  | p to be within acceptable r   | ange.                                    |  |
|  | Comme  | Cue: If request<br>ents:                             | ed too check A   | TM for containment pressu   | ire state it is .1 psig.                 |  |
|  |  | SAT  | UNSAT  | Comment Number  |  | <del></del>                              |
|  | 18 8.1.1.2.14  | Place con<br>annuncia                                | trol switches fo<br>tors.  | or running fans in AFTER-   | START to clear auto-star                 | t  |
|  | Stand  | ard: Operator  | takes handswite  | ches for running fans to AF   | TER-START position.                      | utigen a meren beskeren de existanceitet |
|  | Comme  | Cue:<br>nts:   |  | ······································  |  |  |
|  |  | SAT  | UNSAT  | Comment Number  |  |  |
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# **TERMINATING CUES:**

The CCP system is operating in the Filtered Mode.

### **STOP TIME:**

| K/A REFEREN       | CE NUMBERS |          |           |
|-------------------|------------|----------|-----------|
|                   |            | Importan | ce Rating |
| K/A System Number | K/A Number | RO       | SRO       |
| 288000            | A3.01      | 3.8      | 3.8       |
|                   | A4.01      | 3.1      | 2.9       |

JPM NUMBER: \_\_\_\_011288J006

**REVISION: 01** 

# **INITIATING CUE**

Place the CCP system in the filtered mode per CPS No. 3408.01, step 8.1.1.2 using the "A" Drywell Purge Train. No automatic isolations affecting VR/VQ have occurred.

Page 16 of 16





NRC SUBMITTAL COPY

# JPM NUMBER: 045200J022

### **REVISION: 01**

# JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

| NOTE: A   | ll ster<br>rior to | ps of this checklist should be p<br>o JPM usage, revalidate JPM u                       | performed upon initial validation.<br>using steps 8 through 11 below. |
|---|--------------------|---|---|
|   | 1.                 | Task description and number identified.   | r, JPM description and number are                                     |
|   | 2.                 | Knowledge and Abilities (K/A  | ) references are included.  |
|   | 3.                 | Performance location specific simulator)  | ed. (in-plant, control room, or                                       |
|   | <b>- 4</b> .       | Initial setup conditions are ide  | entified.   |
|   | 5.                 | Initiating and terminating cue  | s are properly identified.  |
|   | 6.                 | Task standards identified and   | d verified by SME review.   |
|   | 7.                 | Critical steps meet the criteria with an asterisk (*).                                  | a for critical steps and are identified                               |
|   | 8.                 | Verify the procedure reference<br>current revision of that proce<br>Procedure Rev. Date | ed by this JPM matches the most dure:                                 |
|   | 9.                 | Pilot test the JPM:<br>a. verify cues both verbal and<br>b. ensure performance time i   | d visual are free of conflict, and s accurate.                        |
|   | 10                 | ). If the JPM cannot be perform<br>responses, then revise the JF                        | ed as written with proper<br>PM.                                      |
| <b>_</b>  | 11                 | .When JPM is revalidated, SM cover page.  | IE or Instructor sign and date JPM                                    |
|   | SM                 | E/Instructor  | Date  |
| en , ræt stragengt i krit kann  | SM                 | E/Instructor  | Date  |
|   | SM                 | E/Instructor  | Date  |
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Page 2 of 11

# **JPM NUMBER: 045200J022**

### **REVISION: 01**

# **Revision Record (Summary)**

| 1. Revision 00, | New JPM              |
|-----------------|----------------------|
|                 |                      |
| 2. Revision 01, | Incorporate comments |

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# JPM NUMBER: 045200J022

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**REVISION: 01** 

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|  | Operator's Name:<br>Job Title: INLO I RO I SRO I STA I SRO Cert  |        |  |  |  |  |
|--|--|--------|--|--|--|--|
|  | JPM Title: Open <u>RPS Scram Breakers outside the Main Control Room</u><br>JPM Number: <u>045200J22</u><br>Revision Number: <u>01</u><br>Task Number and Title: <u>045200C524: Open RPS Scram Breakers Outside the Main</u><br><u>Control Room</u> |        |  |  |  |  |
|  | Suggested Testing Environment: Plant   |        |  |  |  |  |
|  | Actual Testing Environment: 🗅 Simulator 🗅 Plant 🖵 Control Room   |        |  |  |  |  |
|  | Testing Method:SimulateFaulted:YesNoPerformAlternate Path:YesNo  |        |  |  |  |  |
|  | Time Critical: 🖵 Yes 📕 No  |        |  |  |  |  |
|  | Estimated Time to Complete:4_ minutes Actual Time Used: minutes  |        |  |  |  |  |
| and and a state of a state ostateo of a state of a stat | References: CPS No. 4411.08, Alternate Control Rod Insertion, Rev.5, Step 2.4  | n alta |  |  |  |  |
|  | <b>EVALUATION SUMMARY:</b><br>Were all the Critical Elements performed satisfactorily?  Yes  No  |        |  |  |  |  |
|  | The operator's performance was evaluated against the standards contained in this JPM, and has been determined to be:<br>Satisfactory<br>Unsatisfactory   |        |  |  |  |  |
|  | Comments:  |        |  |  |  |  |
|  |  |        |  |  |  |  |
|  |  |        |  |  |  |  |
|  |  |        |  |  |  |  |
|  | Evaluator's Name:  |        |  |  |  |  |
|  | Evaluator's Signature: Date:   | •      |  |  |  |  |

### JPM NUMBER: 045200J022

**REVISION: 00** 

# READ TO THE OPERATOR

I will explain the initial conditions, which step(s) to simulate or discuss, and provide the initiating cues. When you complete the task successfully, the objective of this Job Performance Measure will be satisfied.

No equipment or controls will be manipulated during this evaluation, only <u>Simulated</u> Actions will occur. Ensure that the plane of the panel is not crossed.

### SIMULATOR SET-UP CONDITIONS:

Not Applicable

#### **TASK STANDARDS**:

Simulates scramming the reactor from outside of the MCR by opening the breakers for the RPS Scram Solenoids.

### **TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:**

A device such as a Laser Pointer for examinee to point to components

#### **PROCEDURAL/REFERENCES:**

CPS No. 4411.08, ALTERNATE CONTROL ROD INSERTION, Rev. 5, Step 2.4

### **EVALUATOR INSTRUCTIONS:**

Amplifying cues are provided within the JPM steps.

### **INITIAL CONDITIONS AND INITIATING CUE:**

A reactor scram has occurred but all rods are not at 00.

The MCR is attempting to insert control rods using Alternate Rod Insertion methods.

Deenergize the RPS Scram Solenoids in accordance with CPS No. 4411.08, Alternate Control Rod Insertion, Step 2.4.

Report when the task is complete.

### **START TIME:**

Page 5 of 11

# **JPM NUMBER: 045200J022**

**REVISION:** 00

|  | Critical steps are c<br>letters. Failure to  | lenoted with an asterisk (*) to the left of the step number and appear in <b>BOLDED</b> meet the standards for a critical step constitutes failure of the Job Performance | and an other states of the second |  |  |  |  |  |
|--|--|---|--|--|--|--|--|--|
|  | Measure. The sequence of steps is assumed unless denoted in the comments section of the JPM. |   |  |  |  |  |  |  |
|  |  | PERFORMANCE STEPS   |  |  |  |  |  |  |
|  | JPM TITLE:   | Open Reactor Protection System Scram Breakers Outside of the MCR  | a a a a a a a a a a a a a a a a a a a  |  |  |  |  |  |
|  | *2.4.1 (Le   | ocal) At NSPS 120VAC SOL PWR DIST PNLs A & B, place following<br>breakers to OFF. (CB 802', TB Access Corridor)   | *<br>  |  |  |  |  |  |
|  |  | ° 1C71-P011A: Brks CB29 through 32.   |  |  |  |  |  |  |
|  | STANDARD:  | Operator locates NSPS 120 VAC DIST. PNL. A (C71-P011A) and simulates placing the following breakers in the OFF position:<br>CB29 CB30 CB31 CB32                           |  |  |  |  |  |  |
|  | CUE:   | As each breaker is simulated being placed in the OFF position, cue: "The identified component is in the position described."  |  |  |  |  |  |  |
| en e   | COMMENTS:  |   |  |  |  |  |  |  |
|  |  | SAT UNSATComments Number  |  |  |  |  |  |  |
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|            | Dreakers to OFF. (CB 802', TB Access Corridor)   |
|------------|--|
|            | ° 1C71-P011B: Brks CB23 through 26.  |
| STANDARD:  | Operator locates NSPS 120 VAC DIST. PNL. B (C71-P011B) and simulates placing the following breakers in the OFF position:<br>CB23 CB24 CB25 CB26. |
| CUE:       | As each breaker is simulated being placed in the OFF position, cue: "The identified component is in the position described."                     |
| COMMENTS:  |  |
|            | SAT UNSAT Comments Number  |
| Co         | intact the Main Control Room to determine status of control rods.  |
| STANDARD:  | Main Control Room is contacted by PCS phone or Gaitronics.   |
| CUE:       | As the B CRO or CRS, cue: "All control rods have fully inserted reclose the scran breakers.  |
| COM TENTS. |  |
| COMMENTS:  | SAT UNSAT Comments Number  |
| COMMENTS:  |  |
|            |  |

# JPM NUMBER: 045200J022

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**REVISION:** 00

| 2.4.2 <u>WF</u>                       | IEN Control rods are no                                  | <u>ot moving inward</u> ,  |  |   |
|---------------------------------------|--|--|--|---|
| TH                                    | EN Place breaker op                                      | pened in 2.4.1 to ON.  |  |   |
| STANDARD:                             | After receiving cue the CB29 through CB32 ON.            | hat all control rods are<br>at 1C71-P011A and 0  | e inserted, operator simulates placing<br>CB23 through CB26 at 1C71-P011B        | to  |
| CUE:                                  | As each breaker is sin component is in the p             | mulated being placed position described."  | in the ON position, cue: "The identif  | ĩed                                       |
| COMMENTS:                             |  |  |  |   |
|                                       | SAT  | UNSAT  | Comments Number  |   |
|                                       |  |  |  |   |
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|                                       |  |  | Page 8 of  | f 11                                      |

# JPM NUMBER: 045200J022

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### **REVISION: 00**

# TERMINATING CUES:

The Reactor has been scrammed by opening the breakers for the RPS scram solenoids.

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**STOP TIME:** 

Page 9 of 11

# JPM NUMBER: 045200J022

# **REVISION: 00**

# K/A REFERENCE NUMBERS

# Importance Rating

| K/A SYSTEM NUMBER | K/A NUMBER | RO  | SRO |
|-------------------|------------|-----|-----|
| 295015            | AA1.02     | 4.0 | 4.2 |
| 295016            | AA1.01     | 3.8 | 3.9 |
|                   | AA1.04     | 3.1 | 3.2 |

Page 10 of 11

### JPM NUMBER: 045200J022

**REVISION: 00** 

### INITIATING CUE

CAUTION

No equipment or controls will be manipulated during this evaluation, only <u>Simulated</u> Actions will occur.

A reactor scram has occurred but all rods are <u>not</u> at 00. The MCR is attempting to insert control rods using Alternate Rod Insertion methods. Deenergize the RPS Scram Solenoids in accordance with CPS No. 4411.08, Alternate Control Rod Insertion, Step 2.4. Report when the task is complete.

|               |   | Exelon<br>Nuclear        |
|---------------|---|--------------------------|
|               | CLINTON POWER STA                       | TION                     |
|               | Job Performance Mea                     | sure                     |
|               | JPM Number: B.2.b.3                     |                          |
|               | Revision Number: 00                     |                          |
|               | Date: 5/17/02                           |                          |
| Developed By: | B. Price<br>Instructor                  | _ <u>5/17/02</u><br>Date |
| Validated By: | R. Kiss<br>SME or Instructor            | _ <u>5/17/02</u><br>Date |
| Review By:    | P. O'Brien<br>Operations Representative | <u>5/17/02</u><br>Date   |
| Approved By:  | B. Price<br>Training Department         | <u>5/23/02</u><br>Date   |
|               |   |                          |

# CLINTON POWER STATION JOB PERFORMANCE MEASURE WORKSHEET **JPM NUMBER**: B.2.b.3/041286J003

2

**REVISION**: 00

# JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

|  | NOIE: | All steps of this checklist should be p<br>usage, revalidate JPM using steps 8  | erformed upon initial validation. Price through 11 below. | or to JPM                |
|--|-------|---|---|--------------------------|
|  |       |   |   |                          |
|  |       | <ol> <li>Task description and number<br/>identified.</li> </ol>   | , JPM description and number are                          |                          |
|  | ·     | 2. Knowledge and Abilities (K/A   | ) references are included.                                | a da shaar ar waar a sha |
|  |       | <ul> <li> 3. Performance location specifie<br/>simulator)</li> </ul>  | ed. (in-plant, control room, or                           |                          |
|  |       | 4. Initial setup conditions are ide   | entified.   |                          |
|  |       | 5. Initiating and terminating cue   | s are properly identified.                                |                          |
|  |       | 6. Task standards identified and  | verified by SME review.                                   |                          |
|  |       | <ul> <li>7. Critical steps meet the criteria with an asterisk (*).</li> </ul>   | a for critical steps and are identified                   |                          |
|  |       | <ol> <li>Verify the procedure reference<br/>current revision of that proceed<br/>Procedure Rev Date</li> </ol>            | ed by this JPM matches the most<br>dure:                  |                          |
|  |       | <ul> <li>9. Pilot test the JPM:</li> <li>a. verify cues both verbal and</li> <li>b. ensure performance time is</li> </ul> | l visual are free of conflict, and<br>s accurate.         |                          |
|  | ····· | 10. If the JPM cannot be perform<br>responses, then revise the JF   | ed as written with proper<br>PM.                          |                          |
|  |       | 11. When JPM is revalidated, SM   | IE or Instructor sign and date JPM                        |                          |
|  |       | cover page.   |   |                          |
|  |       |   |   |                          |
|  |       | SME/Instructor  | Date  |                          |
|  |       | An   |   |                          |
|  |       | SME/Instructor  | Date  |                          |
|  |       | SME/Instructor  | Date  |                          |
|  |       |   |   |                          |
| Antonia de la construcción de la |       |   |   |                          |
|  |       |   |   |                          |
|  |       |   |   |                          |
|  |       |   |   | Page 2 of 9              |

# CLINTON POWER STATION JOB PERFORMANCE MEASURE WORKSHEET JPM NUMBER: <u>B.2.b.3/041286J003</u> Revision Record (Summary)

**REVISION**: 00

1. **Revision 03** This is a new JPM.

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Page 3 of 9

|   | • • • • • • • • • • • • • •      |                                       | (<br>EDE             | CDDMA1                         | NCE ME                                 | K S           | TATIO             | )N<br>ODVG        | ירדידד<br>זירדידיד | ·····  |
|---|----------------------------------|---------------------------------------|----------------------|--------------------------------|--|---------------|-------------------|-------------------|--------------------|--|
| JPM NUMBER:   | B.2.                             | b.3/04                                | 128(                 | 6J003                          | NCE IVIEZ                              | 400           | KE W              | UKKS              | HEE.               | REVISION: 00   |
| Operator's Name:  |                                  |                                       |                      |                                |  |               | SS#_              |                   |                    |  |
| Job Title:  |                                  | NLO                                   |                      | RO                             | SRO                                    |               | STA               |                   | RO C               | ert  |
| JPM Title: 041286<br>Operation                              | J003,                            | , Reset o                             | fan                  | overspec                       | ed and a d                             | iesel         | l engin           | e resta           | rt to s            | support firefighting   |
| Task Number and T<br>321301.01, Comple<br>Suggested Testing | ſitle:<br>ete In<br><b>g Env</b> | 041286<br>-plant A<br>v <b>ironme</b> | C007<br>ction<br>nt: | 7, 01128<br>s to Perl<br>Plant | 6C510 / M<br>form Dies                 | √anu<br>el Fi | ual Sta<br>re Pur | rtup of<br>np/Joc | a Die<br>key P     | esel Fire Pump and<br>ump Operation  |
| Actual Testing  | Envi                             | ironmen                               | ıt:                  | Desidenting of S               | Simulator                              |               |                   | Plant             |                    | Control Room   |
| Testing Method:   |                                  | Simulate<br>Perform                   | ;                    | Alte                           | Faulte<br>Faulte Pa                    | ed:<br>th:    |                   | es<br>es          |                    | No<br>No   |
| Time Critical:  |                                  | Yes                                   |                      | No                             |  |               |                   |                   |                    |  |
| Estimated Time to   | o Cor                            | nplete:                               | 15                   | minutes                        | Actu                                   | al Ti         | me Us             | ed:               |                    | minutes  |
| References: CPS   | No. 3                            | 3213.01,                              | FIRI                 | e dete                         | CTION A                                | ND            | PROT              | ECTIO             | ON                 | ·  |
| EVALUATION SI   |                                  | IARY:                                 |                      |                                | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~             |                   |                   |                    | and the second |
| were all the Critica  | I Elei                           | ments pe                              | rforn                | ned satis                      | stactorily'                            | ?             |                   | Yes               | U                  | No   |
| The operator's perfe<br>determined to be:                   | ormai                            | nce was                               | evalı                | ated ag<br>Satisfact           | ainst the s<br>tory                    | stand         | lards c           | ontain            | ed in t            | his JPM, and has been  |
|   |                                  |                                       |                      |                                |  |               | <b>–</b> 0,       | nsatista          | actory             | r  |
| Comments:   |                                  | ·····                                 |                      |                                |  |               |                   |                   | actory             | •<br>• • • • • • • •   |
| Comments:   |                                  |                                       |                      |                                |  | ···· / ·      |                   |                   |                    |  |
| Comments:   |                                  |                                       |                      |                                |  |               |                   |                   |                    | ,<br>  |
| Comments:   |                                  |                                       |                      |                                |  |               |                   |                   |                    |  |
| Comments:   |                                  |                                       |                      |                                |  |               |                   |                   |                    |  |
| Comments:<br><br>Evaluator's Name:<br>Evaluator's Signatu   | re:                              |                                       |                      |                                | Da                                     |               |                   |                   |                    |  |
| Comments:<br>Evaluator's Name:_<br>Evaluator's Signatu      | re:                              |                                       |                      |                                | D                                      | 1te:          |                   |                   |                    |  |
| Comments:   | re:                              |                                       |                      |                                | D                                      | 1te:          |                   |                   |                    |  |
| Comments:   | re:                              |                                       |                      |                                | D                                      | 1te:          |                   |                   |                    |  |

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# CLINTON POWER STATION JOB PERFORMANCE MEASURE WORKSHEET

# **JPM NUMBER**: B.2.b.3/ 041286J003

**REVISION: 00** 

# READ TO THE OPERATOR

I will explain the initial conditions, which step(s) to simulate or discuss, and provide the initiating cues. When you complete the task successfully, the objective of this Job Performance Measure will be satisfied.

No equipment or controls will be manipulated during this evaluation, only <u>Simulated</u> Actions will occur. Ensure that the plane of the panel is not crossed.

### SIMULATOR SET-UP CONDITIONS:

Not Applicable.

### TASK STANDARDS:

Reset of an overspeed and a diesel fire pump restart to support firefighting Operation per CPS No. 3213.01.

### **TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:**

None

### **PROCEDURAL/REFERENCES:**

### CPS No. 3213.01, FIRE DETECTION AND PROTECTION

### **EVALUATOR INSTRUCTIONS:**

The A Diesel Fire Pump is selected for this JPM. Amplifying cues are provided within the JPM steps.

### INITIAL CONDITIONS AND INITIATING CUE:

A fire exists in the plant; "B" Diesel Driven Fire Pump started automatically, "A" Diesel Driven Fire Pump has not started and could not be started from the MCR, but is needed to support fire fighting. MCR has not received any alarms on the "A" Diesel Driven Fire Pump.

You are directed by the MCR to startup the Diesel Driven Fire Pump "A" per CPS No. 3213.01, step 8.5.7.2

### **START TIME:**

### CLINTON POWER STATION JOB PERFORMANCE MEASURE WORKSHEET JPM NUMBER: B.2.b.3/041286J003

**REVISION**: 00

# **PERFORMANCE INFORMATION**

Critical steps are denoted with an asterisk (\*) to the left of the step number and appear in **BOLD** letters. Failure to meet the standards for a critical step constitutes failure of the Job Performance Measure. The sequence of steps is assumed unless denoted in the comments section of the JPM.

### **PERFORMANCE STEPS**

8.5.7 Start the Diesel Fire Pumps 0FP01PA by one of the following methods.

\* 2. Place Diesel Drive Fire pump "A" local control switch in "Test" position.

STANDARD: Locates and simulates placing the Diesel Drive Fire pump "A" local control switch into Test position.

1. Indicate that the switch is in Test position, the Diesel Driven Fire pump "A" started then shutdown.

- 2. MCR reports Trouble Diesel Fire Pump A
- 3. Local Alarm Panel has a ENGINE OVERSPEED alarm light
- 4. If asked, state that the Diesel Fire pump "A" is needed to support fire fighting.

COMMENTS:

CUE:

SAT UNSAT Page 6 of 9

### CLINTON POWER STATION JOB PERFORMANCE MEASURE WORKSHEET

# JPM NUMBER: <u>B.2.b.3/041286J003</u>

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REVISION: 00

| 8.9  | Reset  | ing an Overspeed Tr  | ip of a Diesel Fire   | e Pump   | · · · ·   |  |                            |
|--|--|--|---|--|---|--|----------------------------|
|  |  |  | CA  | UTION  |   | <u>, and i the state of the state</u> |                            |
|  | If the end<br>depress<br>will erc<br>next tim<br>procedu | ngine should trip on<br>ing the pushbutton o<br>use the overspeed me<br>ue it receives a start s<br>ure until the cause of | an overspeed con<br>n top of the switc<br>mory circuit and<br>signal. Unless the<br>the overspeed tri | dition, the over<br>h before resetti<br>cause an immed<br>ere is an emerg<br>p has been dete | rspeed switch mu<br>ng the controller.<br>diate shutdown oj<br>ency, Do Not pro<br>ermined and corr | st be reset by<br>Failure to do so<br>the engine the<br>ceed with this<br>ected.   |                            |
| *1.  | Re   | set the overspeed sw   | itch by use of th   | e pushbutton   | on the overspeed  | l switch   |                            |
| STA  | NDARD:   | Locates and simu the overspeed swi   | lates Resetting the tch   | e overspeed sw   | itch by use of the  | pushbutton on  |                            |
| CUE  | :  | Switch is depress<br>Trouble Diesel Fi   | ed, ENGINE OVI<br>re Pump A is still  | ERSPEED alar<br>in.  | m light off. If asl   | ked the MCR  | ******                     |
| CON  | IMENTS:  |  |   |  |   |  | Mana ing manangkan na sana |
|  |  |  |   | SAT  | UNSA1   |  | 1                          |
| *2   |  | Place the control s  | uitah far Diasal I  | tiro Dumn OFI  | DOIDA to OFF  |  |                            |
| STA  | NDARD:   | Locates and simulat<br>to OFF  | es placing the con  | trol switch for  | Diesel Fire Pump  | OFP01PA  |                            |
| CUE  |  | Control switch for D   | Diesel Fire Pump (  | FP01PA is in   | OFF   |  |                            |
| CON  | IMENTS:  |  |   |  |   |  |                            |
|  |  |  | S   | АТ   | _UNSAT  |  |                            |
|  |  |  |   |  |   |  |                            |
|  |  |  |   |  |   |  |                            |
|  |  |  |   |  |   |  |                            |
|  |  |  |   |  |   |  |                            |
|  |  |  |   |  |   |  |                            |
|  |  |  |   |  |   | Page 7 of 9  |                            |
| and a second |  |  |   | t - Torri - Maryon, Tanan (Anatoria), ang                | a talaa ahaa ka k  | n an   |                            |

| JPM NUM                      | CLINTON POWER STATION<br>JOB PERFORMANCE MEASURE WORKSHEET<br>BER: <u>B.2.b.3/041286J003</u> REVISION: <u>00</u>   |
|------------------------------|--|
| 3.                           | Place the control switch for Diesel Fire Pump 0FP01PA to AUTO  |
| STANDAR                      | D: Place the control switch for Diesel Fire Pump 0FP01PA to AUTO   |
| CUE:                         | Control switch for Diesel Fire Pump 0FP01PA is in AUTO, but does NOT start   |
| COMMEN                       | TS: Examine may place this switch to Test to start the engine.   |
|                              | SAT UNSAT  |
| 8.5.7 Start t<br>* <b>2.</b> | he Diesel Fire Pumps 0FP01PA by one of the following methods.<br>Place Diesel Driven Fire pump "A" local control switch in "Test" position.                  |
| STANDAR                      | D: Locates and simulates placing the Diesel Drive Fire pump "A" local control switch into Test position.   |
| CUE:                         | Indicate that the switch is in Test position, the Diesel Driven Fire pump "A" started and is running<br>MCR reports Trouble Diesel Fire Pump A running alarm |
| COMMEN                       | <b>ΓS:</b>   |
|                              | SATUNSAT   |
| STOP TIM                     | E:   |

TERMINATING CUE

Diesel Driven Fire Pump "A" overspeed reset and is started and running.

# K/A REFERENCE NUMBERS

| ·                 | Importance Rating |     |     |  |  |
|-------------------|-------------------|-----|-----|--|--|
| K/A SYSTEM NUMBER | K/A NUMBER        | RO  | SRO |  |  |
| 286000            | A4.06             | 3.4 | 3.4 |  |  |

# CLINTON POWER STATION JOB PERFORMANCE MEASURE WORKSHEET JPM NUMBER: <u>B.2.b.3/041286J003</u>

**REVISION:** 00

### **-INITIATING CUE**

A fire exists in the plant; "B" Diesel Driven Fire Pump started automatically, "A" Diesel Driven Fire Pump has not started and could not be started from the MCR, but is needed to support fire fighting. MCR has not received any alarms on the "A" Diesel Driven Fire Pump.

You are directed by the MCR to startup the Diesel Driven Fire Pump "A" per CPS No. 3213.01, step 8.5.7.2



NRC SUBMITTAL COPY

|                            | CLINTON PO  | WER STATION                                    |   |  |
|----------------------------|---|--|---|--|
| JPM NUMBER                 | SYSTI<br>2: <u>015200J042</u>   | EM JPM   | REVISION: 02  |  |
| JOB PER                    | FORMANCE MEASU  | JRE VALIDATION                                 | CHECKLIST   |  |
| NOTE: All step<br>Prior to | ps of this checklist should<br>o JPM usage, revalidate .                    | be performed upon in<br>IPM using steps 8 thre | nitial validation.<br>ough 11 below.                              |  |
| 1.                         | Task description and nu identified.   | mber, JPM descriptio                           | n and number are  |  |
| 2.                         | Knowledge and Abilities   | (K/A) references are                           | included.   |  |
| 3.                         | Performance location sp<br>simulator)                                       | ecified. (in-plant, con                        | trol room, or   |  |
| 4.                         | Initial setup conditions a  | re identified.                                 | n an an thairte an tha sha sa | in an          |
| 5.                         | Initiating and terminating  | cues are properly id                           | entified.   | · · · · · · · · · · · · · · · · · · ·              |
| 6.                         | Task standards identifie  | d and verified by SME                          | E review.   |  |
| 7.                         | Critical steps meet the c<br>with an asterisk (*).                          | riteria for critical steps                     | s and are identified  |  |
| <b>8.</b>                  | Verify the procedure refe<br>current revision of that p<br>Procedure Rev.   | erenced by this JPM r<br>rocedure:<br>Date     | natches the most  |  |
| 9.                         | Pilot test the JPM:<br>a. verify cues both verba<br>b. ensure performance t | I and visual are free of the is accurate.      | of conflict, and  |  |
| 10                         | . If the JPM cannot be per<br>responses, then revise t                      | formed as written wit<br>he JPM.               | h proper  |  |
| 11                         | .When JPM is revalidated cover page.  | l, SME or Instructor s                         | ign and date JPM  |  |
| SMI                        | E/Instructor  |  | Date  |  |
| SM                         | E/Instructor  |  | Date  | • •  |
| SM                         | E/Instructor  | <u></u>  | Date  | u uga<br>Angan<br>Angan<br>Angan<br>Angan<br>Angan |



|  | JPM NUMBER:   | 015200J042   | )<br>/   |  | <b>REVISION:</b>                    | 02     |
|--|---|--|--|--|-------------------------------------|--------|
| ing a statistica.                          |   |  |  | a an               |                                     |        |
|  | Operator's Name:<br>Job Title:  | RO SRO   |  |  |                                     |        |
| <b>.</b>                                   | JPM Title: Oper<br>JPM Number: 0<br>Revision Number:<br>Task Number and T | tate a SRV from<br>15200J042<br>02<br>15200J042<br>02<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>102<br>1 | the Remote 1<br>4, Complete 1<br>1 Tasks That<br>task) | Shutdown Panel<br>In Plant Actions t<br>DO Require MCI | o Perform Remo<br>R Evacuation      | ote    |
|  | K/A Number: 239   | 9002.A2.06   |  | Importance   | 4.1 / 4.3                           |        |
| •  | Suggested Testing   | Environment:   | Plant and si   | mulator RSDP   |                                     |        |
|  | Actual Testing Env  | vironment: 🛛   | Simulator  | 🖵 Plant  | Control Ro                          | om     |
|  | Testing Method:   | Simulate<br>Perform  | Alternate I  | Path / Faulted:  | Yes 🗖                               | No     |
| anistina an a canana mana mangalan ina ang | Time Critical: 🛛  | Yes 🔳 No   | )  |  |                                     |        |
|  | Estimated Time to   | Complete: _04  | _ minutes  | Actual Time U  | sed: mi                             | nutes  |
|  | References: CPS<br>CPS  | 4003.01, REMC<br>4003.01C001, R  | TE SHUTD<br>SP – PRESS                                 | OWN, Revision 1<br>URE CONTROL                         | 3, Step 4.3.d)<br>, Revision 0, Sta | ep 4.0 |

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| FVALUATION SUMMADY.   |  | <u> </u>  |
|---|--|-----------|
| Were all the Critical Elements performed satis  | sfactorily? 🗖 Yes 🗖 No   |           |
| The operator's performance was evaluated aga<br>and has been determined to be:<br>Satisfa | ainst the standards contained in this JPM<br>ctory   | ,         |
| Comments:   |  |           |
|   |  |           |
|   |  |           |
|   |  |           |
|   | · · · · · · · · · · · · · · · · · · ·  | <u></u>   |
|   |  | ·         |
|   |  | - <u></u> |
| v   | and to the second s | <u></u>   |
| Evaluator's Name:   |  |           |
| Evaluator's Signature.  | Dete   |           |

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### JPM NUMBER: 015200J042

#### **REVISION: 02**

### READ TO THE OPERATOR

I will explain the initial conditions, which step(s) to simulate or discuss, and provide the initiating cues. When you complete the task successfully, the objective of this Job Performance Measure will be satisfied.

### SIMULATOR SET-UP CONDITIONS:

Any IC at a pressure range of 550-1000 psig that is shutdown and stabilized Override C61-S10 and C61-HS527 in "Normal" with triggers to delete the override when both switches are placed in "Emergency". Sws Ids: h\_a17\_a01\_s55\_1, h\_a17\_a01\_s43\_1 Block annunciators: 5063-6A RSD EMER. TRANS 5066-5B, ADS/SRV Vlv leaking 5067-8L, Sys Monitor Trouble

### TASK STANDARDS:

Pressure is lowered using a SRV from the Remote Shutdown Panel.

### **TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:**

None

### **PROCEDURAL/REFERENCES:**

CPS 4003.01, REMOTE SHUTDOWN, Revision 13, Step 4.3.d) CPS 4003.01C001, RSP – PRESSURE CONTROL, Revision 0, Step 4.0

### **EVALUATOR INSTRUCTIONS:**

Amplifying cues are provided within the JPM steps. Student will perform JPM actions on the simulator and will be required to locate the RSD panel during the inplant walk through.

# **INITIAL CONDITIONS AND INITIATING CUE:**

A plant condition has occurred that forced the operating crew to evacuate the MCR and establish control at the Remote Shutdown Panel. Lower reactor pressure to < 600 psig using Safety/Relief Valves from the Remote Shutdown Panel per CPS No. 4003.01, section 4.3.d. Pressure band is 500-600 psig. Other actions of 4003.01 have been or are being performed by other personnel.

#### **START TIME:**

124-2425

# JPM NUMBER: 015200J042

# **REVISION: 02**

| Salatin wali wana kutoka shi wa          | PERFORMANCE INFORMATION   |
|--|---|
| Critica<br>letters.<br>Measu             | l steps are denoted with an asterisk (*) to the left of the step number and appear in <b>BOLDED</b><br>Failure to meet the standards for a critical step constitutes failure of the Job Performance<br>re. The sequence of steps is assumed unless denoted in the comments section of the JPM.  |
|  | PERFORMANCE STEPS   |
| 4003.0                                   | 1   |
| 4.3.d)                                   | Establish RPV Pressure Control below 1065 psig per:<br>CPS No. 4003.01C001, RSP - Pressure Control.   |
| Standar<br>CUE<br>Comm                   | rd Transfers to CPS 4003.01C001 for RPV Pressure Control actions.   |
|  |   |
|  | SAT UNSAT Comment Number  |
| CPS 40<br>4.1                            | 003.01C001<br>Place to EMERG [Div 1(2) SRV solenoid control].   |
| CPS 40<br>4.1<br>Standar                 | SAT       UNSAT       Comment Number         003.01C001       Place to EMERG [Div 1(2) SRV solenoid control].         'd       Places switch C61-S10(C61-HS527) in "EMERG".   |
| CPS 40<br>4.1<br>Standar                 | SAT       UNSAT       Comment Number         003.01C001       Place to EMERG [Div 1(2) SRV solenoid control].         rd       Places switch C61-S10(C61-HS527) in "EMERG".         Verifies indicating lights for Div. 1(2) SRVs are lit.  |
| CPS 4(<br>4.1<br>Standar                 | SAT       UNSAT       Comment Number         003.01C001       Place to EMERG [Div 1(2) SRV solenoid control].         rd       Places switch C61-S10(C61-HS527) in "EMERG".         Verifies indicating lights for Div. 1(2) SRVs are lit.         Determines transfer switch C61-S10(C61-HS527) has possibly failed and Div. 1(2) SRVs are NOT available for RPV pressure control.   |
| CPS 4(<br>4.1<br>Standar                 | SAT_UNSAT_Comment Number         003.01C001         Place to EMERG [Div 1(2) SRV solenoid control].         rd       Places switch C61-S10(C61-HS527) in "EMERG".         Verifies indicating lights for Div. 1(2) SRVs are lit.         Determines transfer switch C61-S10(C61-HS527) has possibly failed and Div. 1(2) SRVs are NOT available for RPV pressure control.         Switch C61-S10(C61-HS527) is in the "EMERG" position.   |
| CPS 40<br>4.1<br>Standar                 | SAT       UNSAT       Comment Number         003.01C001       Place to EMERG [Div 1(2) SRV solenoid control].         rd       Places switch C61-S10(C61-HS527) in "EMERG".         Verifies indicating lights for Div. 1(2) SRVs are lit.         Determines transfer switch C61-S10(C61-HS527) has possibly failed and Div. 1(2) SRVs are NOT available for RPV pressure control.         Switch C61-S10(C61-HS527) is in the "EMERG" position.         Indicating lights for Div. 1(2) SRVs are NOT lit. |
| CPS 4(<br>4.1<br>Standar<br>CUE<br>COmme | SAT_UNSAT_Comment Number         003.01C001         Place to EMERG [Div 1(2) SRV solenoid control].         rd       Places switch C61-S10(C61-HS527) in "EMERG".         Verifies indicating lights for Div. 1(2) SRVs are lit.         Determines transfer switch C61-S10(C61-HS527) has possibly failed and Div. 1(2) SRVs are NOT available for RPV pressure control.         Switch C61-S10(C61-HS527) is in the "EMERG" position.         Indicating lights for Div. 1(2) SRVs are NOT lit.           |
### CLINTON POWER STATION SYSTEM JPM

### JPM NUMBER: 015200J042

## **REVISION: 02**

| *4.2   | Place C61-HS527(C61-S10) to EMERG [Div 2(1) SRV solenoid control].                   |  |  |
|--|--|--|--|
|  |  |  |  |
| Standard   | Places switch C61-HS52/(C61-S10) in "EMERG".   |  |  |
|  | Verifies indicating lights for Div 2(1) SRVs are lit.                                |  |  |
| CUE  |  |  |  |
| Comments   |  |  |  |
|  |  |  |  |
| an a             | SAT UNSAT Comment Number   |  |  |
|  |  |  |  |
|  |  |  |  |
| ^4.3   | Control RPV pressure and cooldown by:  |  |  |
|  | Varying RCIC flow rate.  |  |  |
|  | Operating Div 1 SRV solenoid controls (Preferred) or<br>Div 2 SRV solenoid controls. |  |  |
|  |  |  |  |
| Standard   | Places SRV 1B21-F051C (D or G) control switch to open.                               |  |  |
| Verifies RED (open) light for the chosen SRV is lit. |  |  |  |
|  | Monitors RPV pressure and determines pressure is lowering.                           |  |  |
| CUE  | х така така така така така така така так   |  |  |
| Comments   |  |  |  |
|  |  |  |  |
|  | SAT UNSAT Comment Number   |  |  |

### **TERMINATING CUES:**

B21C-F051C (D or G) is OPEN at the Remote Shutdown Panel and RPV pressure is lowering.

STOP TIME:

### CLINTON POWER STATION SYSTEM JPM

## JPM NUMBER: 015200J042

# **REVISION: 02**

# K/A REFERENCE NUMBERS

|                   |            | Importan | e Rating |  |
|-------------------|------------|----------|----------|--|
| <br>              |            |          |          |  |
| K/A SYSTEM NUMBER | K/A NUMBER | RO       | SRO      |  |
| 239002            | A2.06      | 4.1      | 4.3      |  |
|                   | A4.01      | 3.9      | 3.8      |  |

### CLINTON POWER STATION SYSTEM JPM

#### **JPM NUMBER: 015200J042**

### **REVISION: 02**

#### **INITIATING CUE**

A plant condition has occurred that forced the operating crew to evacuate the MCR and establish control at the Remote Shutdown Panel. Lower reactor pressure to < 600 psig using Safety/Relief Valves from the Remote Shutdown Panel per CPS No. 4003.01, section 4.3.d. Pressure band is 500-600 psig. Other actions of 4003.01 have been or are being performed by other personnel.