

CLINTON POWER STATION

Job Performance Measure

Initiate Standby Liquid Control, RWCU Fails to Isolate

JPM Number: 44111001LSA01

Revision Number: 04

Date: 3/19/07

Developed By:	<u>Tom Pickley</u>	<u>3/19/07</u>
	Instructor	Date
Reviewed By:	<u>Stacey Hagan</u>	<u>6/15/07</u>
	Operations Representative	Date

Clinton Power Station
Job Performance Measure (JPM)

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:
Current Procedure Rev. Date:
Procedure Rev. Referenced Date:
If the Current Procedure Rev. and the Procedure Rev. Referenced are different then revise the JPM.
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

**Clinton Power Station
Job Performance Measure (JPM)**

Revision Record (Summary)

Revision	Date	Description
00	unknown	New JPM.
01	Unknown	Incorporated Pen and Ink 2002-12-0311A converted JPM Number to the correct JPM Numbering Convention, was B.1.a.1.
02	9/21/04	Updated to new format and numbering convention. Revalidated. This JPM replaces 44111001L01.
03	5/22/06	JPM revised to reflect new revision to 4411.10, 4d.
04	3/19/07	JPM revised to reflect new revision to 4411.10, 4e.

**Clinton Power Station
Job Performance Measure (JPM)**

Simulator Setup Instructions

1. Initialize in a full power IC.
2. Insert malfunctions to defeat automatic and manual scram signals. (RP01)
3. Defeat isolation of RWCU due to SLC initiation. (EP105)
4. Place Mode switch in S/D, stabilize the plant

**Clinton Power Station
Job Performance Measure (JPM)**

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.

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 4e

EVALUATOR INSTRUCTIONS:

:

- Amplifying cues are provided within the JPM steps.
- All pre-job briefings are completed.

INITIAL CONDITIONS:

You are the B RO. The plant is in an ATWS condition.

**Clinton Power Station
Job Performance Measure (JPM)**

INITIATING CUE:

CAUTION

- All pre-job briefings are completed.
- Do NOT shine any type light into a panel.

You are directed to initiate SLC per CPS 4411.10, SLC OPERATIONS.

START TIME: _____

**Clinton Power Station
Job Performance Measure (JPM)**

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 or 4411.10 Appendix A

Note to Examiner

The SLC Hard Card may be used for this task.

- *1 2.1.1.1 or Hard Card step 1.**
Place handswitch for SLC Pump A 1C41-C001A to the RUN position.

Standard: Locates handswitch 1C41-C001A, rotates in the clockwise direction to RUN and allows to spring return to normal.
Verifies Green Light is OFF and Amber Light ON.
Records correct start time for SLC Pump A.

Cue:

Comments: Examinee may report to the CRS and record start time after both pumps are started. Recording the start time is not critical.

SAT UNSAT Comment Number _____

**Clinton Power Station
Job Performance Measure (JPM)**

***2 2.1.1.2
Place handswitch for SLC Pump B, 1C41-C001B to the RUN position.**

Standard: Locates handswitch 1C41-C001B, rotates in the clockwise direction to RUN and allows to spring return to normal.
Verifies Green Light is OFF and Amber Light ON.
Records correct start time for SLC Pump B.

Cue:

Comments Examinee may report to the CRS and record start time after both pumps are started. This is acceptable.

SAT UNSAT Comment Number _____

**3 2.1.2
Verify SLC initiation sequence:
SLC DISCH TO RPV SQUIB A AND B CONTINUITY lights go out.**

Standard: Verifies SLC DISCH TO RPV SQUIB A AND B CONTINUITY lights are OFF.

Cue:

Comments

SAT UNSAT Comment Number _____

**4 2.1.2
SLC A(B) OUT OF SERVICE annunciators 5067(66)-8F alarm.**

Standard: Verifies SLC A OUT OF SERVICE and SLC B OUT OF SERVICE annunciators 5067-8F and 5066-8F actuate.

Cue:

Comments

SAT UNSAT Comment Number _____

**Clinton Power Station
Job Performance Measure (JPM)**

5 2.1.2
SLC Suct Valve (Vlv) A(B) Fm SLC Strg (Stor) Tank [1C41-F001A(B)] valves open.

Standard: Verifies SLC Suct Valve (Vlv) A and B Fm SLC Strg (Stor) Tank [1C41-F001A(B)] valves open by observing Red Lights ON and Green Lights OFF for each valve.

Cue:

Comments

SAT UNSAT Comment Number _____

***6 2.1.2**
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.
Depresses the Close pushbuttons for 1G33-F001 and 1G33-F004.
Observes Green Lights ON and RED Lights OFF for both 1G33-F001 & F004.

Cue: If requested, state “The isolation logic for 1G33-F001 & F004 is not defeated”.

Comments

SAT UNSAT Comment Number _____

**Clinton Power Station
Job Performance Measure (JPM)**

7 2.1.2
SLC Pump A(B), 1C41-F001A(B) start when its respective suction valve is fully open.

Standard: Verifies both SLC Pumps A(B), 1C41-F001A(B) START when its respective suction valve is fully open.
Observes RED Light ON and Amber Light OFF for each pump.

Cue:

Comments Operator may record this time as the pump start time. This is acceptable
SAT UNSAT Comment Number _____

8 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, *but only if the operator has not manually closed -F001 and -F004*, state, "RWCU is not being used for RPV pressure control"
If the operator has closed -F001, and -F004 this step is self evident and no cue should be provided.

Comments
SAT UNSAT Comment Number _____

**Clinton Power Station
Job Performance Measure (JPM)**

9 2.1.4

Verify SLC solution injecting into the RPV by observing:

- SLC Strg Tank Level, 1C41-R601 lowering.
- SLC Pump Disch Header Press, 1C41-R600 is slightly > RPV pressure and is < 1400 psig.
- Reactor power lowering.

Standard:

Monitor Storage Tank level indication C41-R601 and observe level is LOWERING.

Verifies SLC pump discharge header pressure indication C41-R600 is ABOVE RPV pressure.

Verifies Reactor power is LOWERING using any suitable indication in the Control Room.

Cue:

If asked, *but only if operator is actually looking at power indications*, state: Reactor Power is lowering”.

If asked, *but only if operator is looking at SLC tank level*, state “Tank level is lowering”.

Comments

Power indications may come from DCS, NBI, chart recorders etc. Indication observed should be appropriate for relative power level.

SLC discharge pressure is self revealing and no cue should be provided for this parameter.

SAT

UNSAT

Comment Number _____

TERMINATING CUES:

SLC is injecting with both pumps.

STOP TIME: _____

**Clinton Power Station
Job Performance Measure (JPM)**

Initial Conditions

You are the B RO. The plant is in an ATWS condition.

Initiating Cue

CAUTION

- All pre-job briefings are completed.
- Do NOT shine any type light into a panel.

You are directed to initiate SLC per CPS 4411.10, SLC OPERATIONS.

CLINTON POWER STATION

Job Performance Measure

High Pressure Core Spray Suction Source Shift – Alternate Path

JPM Number: 33090106LSA02

Revision Number: 01

Date: 03/19/2007

Developed By:	<u>Tom Pickley</u>	<u>3/19/07</u>
	Instructor	Date
Reviewed By:	<u>Stacey Hagan</u>	<u>6/15/07</u>
	Operations Representative	Date

Clinton Power Station
Job Performance Measure (JPM)

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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- _____ 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:
 Current Procedure Rev. _____ Date: _____
 Procedure Rev. Referenced _____ Date: _____
 - If the Current Procedure Rev. and the Procedure Rev. Referenced are different then revise the JPM.
- _____ 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

**Clinton Power Station
Job Performance Measure (JPM)**

Revision Record (Summary)

Revision	Date	Description
Rev 0	6/30/2006	Revision 0 development. Converted from HP-28.
Rev 1	3/19/2007	Updated for procedure revision.

**Clinton Power Station
Job Performance Measure (JPM)**

Simulator Setup Instructions

(This page is applicable only to JPMs performed in the Simulator.)

1. Reset the simulator to IC-01 or any IC with the HPCS suction on the RCIC storage tank.
2. Over-ride the lights for 1E22-F001 with the Green light OFF and the Red light ON (this will simulate 1E22-F001 does not auto shut when 1E22-F015 is opened).
3. Insert an conditional statement when the control switch for 1E22-F001 is taken to the CLOSE position to turn on the GREEN close light immediately and turn off the RED open light after 60 seconds for 1E22-F001 (simulates closing 1E22-F001 when the control switch is taken to close).

<p><u>NOTE:</u> It is permissible to use a similar IC to the IC listed above, provided the IC actually used is verified to be compatible with this and other JPMs that are scheduled to be run concurrently.</p>

4. Verify the HPCS suction is from the RCIC Tank.
5. When the above steps are completed for this and other JPMs to be run concurrently, then validate the concurrently run JPMs if applicable.
6. This completes the setup for this JPM.

**Clinton Power Station
Job Performance Measure (JPM)**

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.

TASK STANDARDS:

- The evolution completed IAW CPS No. 3309.01, High Pressure Core Spray revision 15c.

TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

- None

PROCEDURAL/REFERENCES:

- CPS No. 3309.01, High Pressure Core Spray revision 15c.

EVALUATOR INSTRUCTIONS:

- Amplifying cues are provided within the JPM steps.
- Provide examinee the procedure.
- All pre-job briefings are completed.
- No peer checks will be performed.

INITIAL CONDITIONS:

You are the B RO. Station management has opted to run with the High Pressure Core Spray System suction aligned to the suppression pool.

**Clinton Power Station
Job Performance Measure (JPM)**

INITIATING CUE:

CAUTION

- All pre-job briefings are completed.
- Do NOT shine any type light into a panel.

Shift the High Pressure Core Spray suction to the suppression pool IAW CPS No. 3309.01, High Pressure Core Spray, section 8.1.7.1.

START TIME: _____

**Clinton Power Station
Job Performance Measure (JPM)**

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

3309.01, High Pressure Core Spray section 8.1.7.1 Shifting HPCS Suction to Suppression Pool

- 1 Shut/verify shut:
 - 1) 1E22-F010, HPCS First Test Vlv To Storage Tank.
 - 2) 1E22-F011, HPCS Second Test Vlv To Storage Tank.

Standard: Verifies green light ON and red light OFF for each valve.

Cue: None

Comments: None

SAT UNSAT Comment Number _____

*OP-CL-108-101-1001, GENERAL EQUIPMENT OPERATING REQUIREMENTS
MOV Test Prep Switch (MOVTPS) Use*

- 2 Places the HPCS MOV Test Prep Switch should be placed in TEST.

Standard: Verify the other MOVTPSs for the other divisions in that system are in NORMAL then places the HPCS MOV Test Prep Switch should be placed in TEST.

Cue: If asked about the Short Term LCO, the CRS will take care of it.

Comments: The student may callout an expected alarm when the MOVTPS is placed in Test.

SAT UNSAT Comment Number _____

**Clinton Power Station
Job Performance Measure (JPM)**

***3 Open 1E22-F015, HPCS Suppr Pool Suction Valve.**

Standard: 1E22-F015, HPCS Suppr Pool Suction Valve handswitch is taken to the OPEN position and released.

Cue: You may need to cue the student to hold the switch at least one full second or the simulator may not see the action.

Comments The HPCS MOV Test Prep Switch should be placed in TEST.

SAT UNSAT Comment Number _____

BEGIN ALTERNATE PATH

***4 Verify 1E22-F001, HPCS Storage Tank Suction Valve shuts.**

Standard: Student identifies 1E22-F001 does not shut.
The handswitch for 1E22-F001 or 1E22-F015 is taken to the SHUT position and released.

Cue:

- If an NLO is sent to locally determine valve position, the local position will correspond to the position indication on the MCR panel.

Comments

- Precaution 4.11 requires the operator to ensure one of the suction valves is fully closed following a suction source swap. The operator may shut 1E22-F001 to comply with the precaution. This would satisfy the critical step.
- The HPCS MOV Test Prep switch should be returned to NORMAL after this step.

SAT UNSAT Comment Number _____

TERMINATING CUES:

The JPM is complete when the 1E22-F001 valve is shut and the 1E22-F015 valve is open or 1E22-F015 is reclosed.

STOP TIME: _____

Clinton Power Station
Job Performance Measure (JPM)

Operator's Name: _____

Job Title: [] NLO [] RO [] SRO [] STA [] SRO Cert

JPM Title: High Pressure Core Spray Suction Source Shift – Alternate Path

JPM Number: 33090106LSA02 Revision Number: 1

Task Number and Title: 330901.06 Shift HPCS Suction to the Suppression Pool

Table with 4 columns: K/A System, K/A Number, Importance (RO/SRO), and a blank column. Row 1: 209002, A4.02, 3.6, 3.6

Suggested Testing Environment: Simulator

Actual Testing Environment: [x] Simulator [] Plant [] Control Room

Testing Method: [] Simulate [x] Perform Faulted: [] Yes [x] No
Alternate Path: [x] Yes [] No

Time Critical: [] Yes [x] No

Estimated Time to Complete: 10 minutes Actual Time Used: _____ minutes

References: CPS No. 3309.01 High Pressure Core Spray, revision 15c.

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: _____

Evaluator's Name: _____ (Print)

Evaluator's Signature: _____ Date: _____

**Clinton Power Station
Job Performance Measure (JPM)**

INITIAL CONDITIONS:

You are the B RO. Station management has opted to run with the High Pressure Core Spray suction aligned to the suppression pool.

INITIATING CUE:

CAUTION

- All pre-job briefings are completed.
- Do NOT shine any type light into a panel.

Shift the High Pressure Core Spray suction to the suppression pool IAW CPS No. 3309.01, High Pressure Core Spray, section 8.1.7.1.

CLINTON POWER STATION**Job Performance Measure**

Control Reactor Pressure Using Main Steam Line Drains

JPM Number: 31010103LSN01

Revision Number: 00

Date: 7/03/2006

Developed By:	Fred Worrell Instructor	7/3/06 Date
Reviewed By:	Stacey Hagan Operations Representative	6/15/07 Date

Clinton Power Station
Job Performance Measure (JPM)

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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- _____ 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:
 Current Procedure Rev. _____ Date: _____
 Procedure Rev. Referenced _____ Date: _____
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- _____ 9. Pilot test the JPM:
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SME/Instructor	Date
SME/Instructor	Date
SME/Instructor	Date

**Clinton Power Station
Job Performance Measure (JPM)**

Revision Record (Summary)

Revision	Date	Description
0	7/3/06	Converted from JPM 011239J001

**Clinton Power Station
Job Performance Measure (JPM)**

Simulator Setup Instructions

(This page is applicable only to JPMs performed in the Simulator.)

1. Reset the simulator to IC-01

<p><u>NOTE:</u> It is permissible to use a similar IC to the IC listed above, provided the IC actually used is verified to be compatible with this and other JPMs that are scheduled to be run concurrently.</p>

2. Scram the reactor. Verify the Mode Switch is in SHUTDOWN.
3. Shut the Inboard MSIV's.
4. Verify the Steam Line Drains on the hard card are SHUT.
5. Adjust pressure set to 900 psig.
6. Verify there is not a Group 1 Isolation.
7. Ensure the Group1 Isolation and MSL Drains Usage Hard Card is cleaned. Note that it needs to be cleaned between each time before the start of the JPM.
8. When the above steps are completed for this and other JPMs to be run concurrently, then validate the concurrently run JPMs if applicable.
9. This completes the setup for this JPM.

**Clinton Power Station
Job Performance Measure (JPM)**

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.

TASK STANDARDS:

- The evolution completed IAW 3101.01 Main Steam, revision 19d, Appendix A or 4411.09 RPV Pressure Control Sources revision 5c.
- **TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:**
- None

PROCEDURAL/REFERENCES:

- CPS No. 3101.01, Main Steam revision 19d.

EVALUATOR INSTRUCTIONS:

- Amplifying cues are provided within the JPM steps.
- All pre-job briefings are completed.

INITIAL CONDITIONS:

You are the B RO. The unit is shutdown with the Inboard Main Steam Isolation Valves closed. The Steam Line Drains are needed to assist in the control of reactor pressure. A Group 1 isolation has NOT been received.

**Clinton Power Station
Job Performance Measure (JPM)**

INITIATING CUE:

CAUTION

- All pre-job briefings are completed.
- Do NOT shine any type light into a panel.

Control Reactor Pressure between 600 and 900 psig using the Main Steam Line Drains per 3101.01 Appendix A: Group 1 Isolation and MSL Drain Usage Hard Card.

START TIME: _____

**Clinton Power Station
Job Performance Measure (JPM)**

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

Appendix A: to CPS No. 3101.01 Main Steam

- *1. As directed, operate the following MSIV's and MSL Drains as needed to control RPV pressure, cooldown rate and Group 1 Isol.**

Standard: 1B21-F016, MS Drn & MSIV Byp Inbd Isol Valve is opened.

Cue: If the student questions the pressure band, cue the student that the band was chosen to prevent SRV operation on Low-Low Set.

Comments

SAT UNSAT Comment Number _____

Appendix A: to CPS No. 3101.01 Main Steam

- *2. As directed, operate the following MSIV's and MSL Drains as needed to control RPV pressure, cooldown rate and Group 1 Isol.**

Standard: 1B21-F019, MS Drn & MSIV Byp Outbd Isol Valve is opened.

Cue:

Comments

SAT UNSAT Comment Number _____

**Clinton Power Station
Job Performance Measure (JPM)**

Appendix A: to CPS No. 3101.01 Main Steam

- *3. As directed, operate the following MSIV's and MSL Drains as needed to control RPV pressure, cooldown rate and Group 1 Isol.**

Standard: The following valves are opened **as necessary** to produce a lowering of reactor vessel pressure with the Safety Relief Valves closed.

- 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
- 1B21-F067B, MSL B Outbd MSIV Before Seat Drn Vlv
- 1B21-F067D, MSL D Outbd MSIV Before Seat Drn Vlv
- 1B21-F067A, MSL A Outbd MSIV Before Seat Drn Vlv
- 1B21-F067C, MSL C Outbd MSIV Before Seat Drn Vlv
- 1B21-F068, Outbd MSIV Before Seat Warmup Drn Vlv
- 1B21-F069, Outbd MSIV Before Seat Norm Drn Vlv
- 1B21-F015, MS Low Points Drn Shutoff Valve
- 1B21-F066B, Main Steam Line B Low Point Drn Vlv
- 1B21-F066D, Main Steam Line D Low Point Drn Vlv
- 1B21-F066A, Main Steam Line A Low Point Drn Vlv
- 1B21-F066C, Main Steam Line C Low Point Drn Vlv
- 1B21-F070, MS Low Point Warm Up Drn Vlv
- 1B21-F071, MS Low Point Normal Drn Vlv

Cue:

Comments This step is considered to be met when the valves listed above are open **OR** enough of the valves have been opened to stabilize reactor pressure.

SAT UNSAT Comment Number _____

**Clinton Power Station
Job Performance Measure (JPM)**

TERMINATING CUES:

The JPM is complete when the valves listed in this JPM are open **OR** enough of the valves have been opened to stabilize reactor pressure.

When the student reaches the termination criteria, it is acceptable for the instructor to terminate the JPM.

STOP TIME: _____

**Clinton Power Station
Job Performance Measure (JPM)**

Initial Conditions

You are the B RO. The unit is shutdown with the Inboard Main Steam Isolation Valves closed. The Steam Line Drains are needed to assist in the control of reactor pressure. A Group 1 isolation has NOT been received.

Initiating Cue

CAUTION

- All pre-job briefings are completed.
- Do NOT shine any type light into a panel.

Control Reactor Pressure between 600 and 900 psig using the Main Steam Line Drains per 3101.01 Appendix A: Group 1 Isolation and MSL Drain Usage Hard Card.

CLINTON POWER STATION

Job Performance Measure

Shutdown RCIC – Initiation Signal Clear

JPM Number: 33100106LSN01

Revision Number: 00

Date: 7/4/2006

Developed By:	<u>Fred Worrell</u>	<u>7/4/2006</u>
	Instructor	Date
Reviewed By:	<u>Stacey Hagan</u>	<u>6/15/07</u>
	Operations Representative	Date

Clinton Power Station
Job Performance Measure (JPM)

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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_____	SME/Instructor	_____	Date
_____	SME/Instructor	_____	Date
_____	SME/Instructor	_____	Date

**Clinton Power Station
Job Performance Measure (JPM)**

Revision Record (Summary)

Revision	Date	Description
0	7/4/2006	Converted from JPM 011217J005

**Clinton Power Station
Job Performance Measure (JPM)**

Simulator Setup Instructions

(This page is applicable only to JPMs performed in the Simulator.)

1. Reset the simulator to IC-01 or any IC that will support RCIC tank to tank operation without an initiation signal (JPM Set 5)
2. Place/verify the RCIC suction to the RCIC Storage Tank.

<p><u>NOTE:</u> It is permissible to use a similar IC to the IC listed above, provided the IC actually used is verified to be compatible with this and other JPMs that are scheduled to be run concurrently.</p>

3. Place RCIC in the Tank to Tank mode per 3310.01.
4. When the above steps are completed for this and other JPMs to be run concurrently, then validate the concurrently run JPMs if applicable.
5. This completes the setup for this JPM.

**Clinton Power Station
Job Performance Measure (JPM)**

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.

TASK STANDARDS:

- RCIC is shutdown with the initiation signal clear per section 8.1.6 of CPS No. 3310.01 Reactor Core Isolation Cooling revision 26b

TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

- None

PROCEDURAL/REFERENCES:

- CPS No. 3310.01 Reactor Core Isolation Cooling revision 26b

EVALUATOR INSTRUCTIONS:

- Amplifying cues are provided within the JPM steps.
- Do NOT allow examinee to shine any type light into a panel.
- All pre-job briefings are completed.

**Clinton Power Station
Job Performance Measure (JPM)**

INITIAL CONDITIONS:

You are the B RO. The unit is at power. RCIC is in the Tank to Tank mode. No initiation signal is present.

INITIATING CUE:

CAUTION

- All pre-job briefings are completed.
- Do NOT shine any type light into a panel.

Shutdown RCIC per CPS No. 3310.01 Reactor Core Isolation Cooling.

START TIME: _____

**Clinton Power Station
Job Performance Measure (JPM)**

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

3310.01 Section 8.1.6 Shutdown – Initiation Signal Clear

- 1 If necessary, depress RCIC SEAL IN RESET push-button.

Standard: Determines RESET is not necessary. WHITE light is extinguished

Cue: If the student asks if this step should be performed, ask “Is it necessary?”.

Comments If the student presses the pushbutton, it will have no effect on the JPM.

SAT UNSAT Comment Number _____

*OP-CL-108-101-1001, GENERAL EQUIPMENT OPERATING REQUIREMENTS
MOV Test Prep Switch (MOVTPS) Use*

- 2. Places RCIC Div 1 Test Prep Switch in Test

Standard: Verify the other MOVTPSs for the other divisions in that system are in NORMAL then places RCIC Div 1 Test Prep Switch in Test

Cue: If asked about the Short Term LCO, the CRS will take care of it.

Comments The student may callout an expected alarm when the MOVTPS is placed in Test.

SAT UNSAT Comment Number _____

**Clinton Power Station
Job Performance Measure (JPM)**

***3 Shut (if open) 1E51-F022, RCIC Pmp First Test Valve To Stor Tank**

Standard: Takes hand-switch for 1E51-F022 to CLOSE and observes GREEN light ON. Verifies Min Flow valve opens.

Cue:

Comments This will put the RCIC pump on min flow. Time spend on min flow should be minimized.

SAT UNSAT Comment Number _____

***4 Trip RCIC turbine from 1H13-P601 by depressing the RCIC TURBINE REMOTE TRIP push-button.**

Standard: Trips the RCIC turbine using the RCIC TURBINE REMOTE TRIP push-button. Observes turbine speed decreasing. Observes bottom GREEN light ON and bottom RED light OUT for the trip/throttle valve.

Cue:

Comments

SAT UNSAT Comment Number _____

***5. Shut (if open) 1E51-F059, RCIC Second Test Valve To Stor Tank.**

Standard: Takes handswitch for 1E51-F059 to close and observes GREEN light ON and RED light OUT.

Cue:

Comments The student may callout an expected alarm when the MOVTPS is placed in Test.

SAT UNSAT Comment Number _____

**Clinton Power Station
Job Performance Measure (JPM)**

***6 Shut/verify shut 1E51-F045, RCIC Turb Stm Supp Shutoff Valve.**

Standard: Takes handswitch for 1E51-F045 to CLOSE and observes GREEN light ON and RED light OUT.

Cue:

Comments

SAT UNSAT Comment Number _____

- 7 After 1E51-F045 closes, verify the following valves open automatically:
- a) 1E51-F004, RCIC Turb Exh Drn To RF First Isol Vlv.
 - b) 1E51-F025, RHR & RCIC Stm Supp First Drn Isol Valve.
 - c) 1E51-F026, RHR & RCIC Stm Supp Second Drn Isol Valve.

Standard: After 1E51-F045 closes, observes the RED light ON for each valve and GREEN light OUT

Cue:

Comments

SAT UNSAT Comment Number _____

- 8 Verify following valves shut:
- a) 1E51-F013, RCIC Pump Disch To Rx Outbd Isol Valve.
 - b) 1E51-F019, RCIC Pmp Min Flow Recirc To Suppr Pool.

Standard: Verifies 1E51-F013 and 1E51-F019 SHUT by observing GREEN light ON and RED light OUT for each valve.

Cue:

Comments

SAT UNSAT Comment Number _____

**Clinton Power Station
Job Performance Measure (JPM)**

- 9 Reset the RCIC Turbine Trip & Throttle Valve as follows:
 - a) Place 1E51-C002, RCIC Turbine Trip Vlv Opr switch to CLOSE to reset the RCIC Turbine Trip & Throttle Valve.
 - b) Open 1E51-C002, RCIC Turbine Trip Vlv Opr (Stem).

Standard: Takes handswitch for 1E51-C002 to CLOSE and verifies top GREEN light ON and RED light OUT. Takes handswitch for 1E51-C002 to OPEN and verifies the following RED lights ON and GREEN lights OUT:
RCIC TURBINE TRIP VLV OPR
TURBINE TRIP VALVE STEM

Cue:

Comments

SAT UNSAT Comment Number _____

- 10 Stop the Gland Seal Air Compressor

Standard: Takes handswitch for Gland Seal Compressor to STOP and observes GREEN light ON.

Cue:

Comments

SAT UNSAT Comment Number _____

- 11 Shut 1E51-F046, RCIC Pmp Supp To Turb Lube Oil Clr

Standard: Takes handswitch for 1E51-F046 to CLOSE and verifies GREEN light ON and RED light OUT.

Cue:

Comments

SAT UNSAT Comment Number _____

**Clinton Power Station
Job Performance Measure (JPM)**

12 Verify RCIC Pump Flow Cont, 1E51-R600 set to 620 gpm/AUTO.

Standard: Verifies 1E51-R600 set to 620 gpm and in AUTO.

Cue:

Comments The MOV Test Prep Switches may be returned to normal at this time.

SAT UNSAT Comment Number _____

TERMINATING CUES:

RCIC is shutdown and the MOV Test Prep Switches returned to normal.

STOP TIME: _____

**Clinton Power Station
Job Performance Measure (JPM)**

Initial Conditions

You are the B RO. The unit is at power. RCIC is in the Tank to Tank mode. No initiation signal is present.

Initiating Cue

CAUTION

- All pre-job briefings are completed.
- Do NOT shine any type light into a panel.

Shutdown RCIC per CPS No. 3310.01 Reactor Core Isolation Cooling section 8.1.6.

CLINTON POWER STATION

Job Performance Measure

**Place RHR A In Suppression Pool Cooling From Standby
per CPS No. 3312.01 (Alternate Path)**

JPM Number: 33120109LSA01

Revision Number: 03

Date: 03/19/2007

Developed By:	<u>Tom Pickley</u>	<u>03/19/07</u>
	Instructor	Date
Reviewed By:	<u>Stacey Hagan</u>	<u>6/15/07</u>
	Operations Representative	Date

Clinton Power Station
Job Performance Measure (JPM)

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:
Current Procedure Rev. Date:
Procedure Rev. Referenced Date:
• If the Current Procedure Rev. and the Procedure Rev. Referenced are different then revise the JPM.
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

**Clinton Power Station
Job Performance Measure (JPM)**

Revision Record (Summary)

Revision	Date	Description
00	Unknown	This revision never issued.
01	07/01/02	This is a new JPM and incorporates validation comments
02	08/23/05	Revised and incorporated comments, and updated format.
03	03/19/07	Revised for procedure revision.

Information For Evaluator’s Use:

UNSAT requires written comments on respective step.

* Denotes critical steps.

Number any comments in the “Comment Number” blank on the applicable pages. Then annotate that comment in the “Comments” Evaluation Summary page.

The comment section should be used to document the reason that a step is marked as unsatisfactory and to document unsatisfactory performance relating to management expectations.

Some operations that are performed from outside of the control room may require multiple steps. These items may be listed as individual steps in this JPM. It is acceptable for the candidate to direct the local operator to perform groups of procedure steps instead of calling for each individual item to be performed.

The time clock starts when the candidate acknowledges the initiating cue.

Clinton Power Station
Job Performance Measure (JPM)

Operator's Name: _____

Job Title: [] NLO [] RO [] SRO [] STA [] SRO Cert

JPM Title: Place RHR A In Suppression Pool Cooling From Standby per CPS No. 3312.01
(Alternate Path)

JPM Number: 33120109LSA01

Revision Number: 02

Task Number and Title: 331201.09, Complete Control Room Actions to Start Suppression Pool Cooling

Table with 4 columns: K/A System, K/A Number, Importance (RO/SRO). Rows include 219000/A4.02 (3.7/3.5) and 219000/A4.01 (3.8/3.7).

Suggested Testing Environment: Simulator

Actual Testing Environment: [] Simulator [] Plant [] Control Room

Testing Method: [] Simulate [] Perform Faulted: [] Yes [] No Alternate Path: [] Yes [] No

Time Critical: [] Yes [] No SRO Only: [] Yes [] No

Estimated Time to Complete: 15 minutes Actual Time Used: _____ minutes

References: CPS No. 3312.01 rev.37c, RESIDUAL HEAT REMOVAL
OP-CL-108-101-1001 rev. 6, GENERAL EQUIPMENT OPERATING
OP-AA-108-104 rev. 0, TECHNICAL SPECIFICATION COMPLIANCE

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: _____

Evaluator's Name: _____ (Print)

Evaluator's Signature: _____ Date: _____

**Clinton Power Station
Job Performance Measure (JPM)**

Simulator Setup Instructions

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 to trip the RHR Pump A when SX82A RHR A HX MU Cond Inlet valve is being shut.

**Clinton Power Station
Job Performance Measure (JPM)**

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.

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 rev. 36c, RESIDUAL HEAT REMOVAL
- OP-CL-108-101-1001 rev. 6, GENERAL EQUIPMENT OPERATING REQUIREMENTS
- OP-AA-108-104 rev. 0, TECHNICAL SPECIFICATION COMPLIANCE

EVALUATOR INSTRUCTIONS:

- Amplifying cues are provided within the JPM steps.
- **DO NOT** permit use of HARD CARD.

INITIAL CONDITIONS:

You are an extra RO. SRV testing is scheduled.

**Clinton Power Station
Job Performance Measure (JPM)**

INITIATING CUE:

CAUTION

- All pre-job briefings are completed.
- Do NOT shine any type light into a panel.

Place RHR loop "A" in the Suppression Pool Cooling mode per CPS No. 3312.01, RESIDUAL HEAT REMOVAL, section 8.1.9. Inform the CRS when the task is complete.

START TIME: _____

**Clinton Power Station
Job Performance Measure (JPM)**

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

Placing RHR loop "A" in Suppression Pool Cooling

-
- 1 If RHR Pump A stops, Then shut 1E12-F024A, RHR A Test Valve to Suppr Pool (system draw down to pool will require fill and vent).

Standard: If RHR Pump A stops the examinee shuts 1E12-F024A.

Cue: None

Comments

SAT UNSAT Comment Number _____

**Clinton Power Station
Job Performance Measure (JPM)**

- 2 During Pool Cooling Mode, verify as appropriate that 1E12-F064A, RHR Pump A Min Flow Recirc Valve, Opens whenever RHR flow is < 1100 gpm for > 8 sec, and Shuts whenever RHR flow is > 1100 gpm.

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)

Cue: None

Comments

SAT UNSAT Comment Number _____

- 3 To place RHR Loop A in suppression pool cooling: Place/verify SX A PRM 1RIX-PR038, Shutdown Service Water A Effluent (SX) in service

Standard: Verifies SX "A" PRM 1RIX-PR038 Shutdown Service Water A Effluent (SX) in service by Checking AR/PR Monitor.

Cue: Inform examinee 1RIX-PR038 is in service.

Comments

SAT UNSAT Comment Number _____

**Clinton Power Station
Job Performance Measure (JPM)**

4 Verify WS available to RHR A Hx

Standard: Verifies WS available to RHR A HX by ensuring SSW STR 1A Outlet pressure at >100 psig on PI-SX028.

Cue: None

Comments

SAT UNSAT Comment Number _____

*OP-CL-108-101-1001, GENERAL EQUIPMENT OPERATING REQUIREMENTS
MOV Test Prep Switch (MOVTPS) Use*

5 Places RHR Div 1 Test Prep Switch in Test

Standard: Verify the other MOVTPSs for the other divisions in that system are in NORMAL then places RHR Div 1 Test Prep Switch in Test

Cue: If asked about the Short Term LCO, the CRS will take care of it.

Comments The student may callout an expected alarm when the MOVTPS is placed in Test.

SAT UNSAT Comment Number _____

***6 Start RHR Pump A, 1E12-C002A.**

Standard: Turns the control switch for RHR Pump A to START and then releases.

Cue: None

Comments Annunciator 5067-4A, “ADS A LPCS/RHR A Permissive” actuates.

SAT UNSAT Comment Number _____

**Clinton Power Station
Job Performance Measure (JPM)**

***7 Open 1E12-F024A, RHR A Test Valve To Suppr Pool**

Standard: Opens 1E12-F024A, RHR A Test Valve to Suppr Pool, RED light ON and GREEN light OFF.

Cue: None

Comments Verifies RHR Pump Minimum Flow Recirc Valve 1E12-F064A closes when RHR Flow is >1100 gpm

SAT UNSAT Comment Number _____

8 Verify flow 4550 to 5550 gpm on RHR Pump A Flow Meter, 1E12-R603A.

Standard: Verifies flow between 4550 to 5500 gpm on 1E12-R603A (RHR A Flow Meter)

Cue: None

Comments If flow is not correct the SRO should be notified.

SAT UNSAT Comment Number _____

*OP-CL-108-101-1001, GENERAL EQUIPMENT OPERATING REQUIREMENTS
MOV Test Prep Switch (MOVTPS) Use*

9 Places Div 1 SX Test Prep Switch in Test.

Standard: Verify the other MOVTPSs for the other divisions in that system are in NORMAL then places Div 1 SX Test Prep Switch in TEST

Cue: If asked about the Short Term LCO, the CRS will take care of it.

Comments The student may callout an expected alarm when the MOVTPS is placed in Test.

SAT UNSAT Comment Number _____

**Clinton Power Station
Job Performance Measure (JPM)**

12 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

SAT

UNSAT

Comment Number _____

TERMINATING CUES:

Suppression Pool Test Return Valve for A RHR Loop 1E12-F024A is closed following trip of RHR Pump "A".

STOP TIME: _____

**Clinton Power Station
Job Performance Measure (JPM)**

Initial Conditions

You are an extra RO. SRV testing is scheduled.

Initiating Cue

CAUTION

- All pre-job briefings are completed.
- Do NOT shine any type light into a panel.

Place RHR loop "A" in the Suppression Pool Cooling mode per CPS No. 3312.01, RESIDUAL HEAT REMOVAL, section 8.1.9. Inform the CRS when the task is complete.

CLINTON POWER STATION**Job Performance Measure**

Use Alternate Methods to Determine Control Rod Position
per CPS No. 3304.02

JPM Number: 33040226LSA01

Revision Number: 00

Date: 8/11/06

Developed By:	<u>Fred Worrell</u>	<u>8/11/06</u>
	Instructor	Date
Reviewed By:	<u>Stacey Hagan</u>	<u>6/15/07</u>
	Operations Representative	Date

Clinton Power Station
Job Performance Measure (JPM)

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:
 Current Procedure Rev. _____ Date: _____
 Procedure Rev. Referenced _____ Date: _____
 - If the Current Procedure Rev. and the Procedure Rev. Referenced are different then revise the JPM.
- _____ 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

**Clinton Power Station
Job Performance Measure (JPM)**

Revision Record (Summary)

Revision	Date	Description
0	8/11/06	Converted from old JPM 014201J003

**Clinton Power Station
Job Performance Measure (JPM)**

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.

TASK STANDARDS:

- The task is completed IAW CPS No. 3304.02 , ROD CONTROL AND INFORMATION SYSTEM (RC&IS), Revision 16d, Section 8.2.11.5.

TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

- None

PROCEDURAL/REFERENCES:

- CPS No. 3304.02 , ROD CONTROL AND INFORMATION SYSTEM (RC&IS), Revision 16d

EVALUATOR INSTRUCTIONS:

- Amplifying cues are provided within the JPM steps.
- Do NOT allow examinee to shine any type light into a panel.
- All pre-job briefings are completed.

INITIAL CONDITIONS:

You are an extra RO on shift. The unit has experienced a trip. The full core display is dead and cannot be used to verify all control rods are fully inserted.

**Clinton Power Station
Job Performance Measure (JPM)**

INITIATING CUE:

CAUTION

- All pre-job briefings are completed.
- No equipment or controls will be manipulated during this evaluation, only **Simulated** Actions will occur.
- Do NOT shine any type light into a panel.

Using the Identification Generator on either RACCS panels, verify the position of all control rods per CPS No. 3304.02, Rod Control and Information System, section 8.2.11.5. through 8.2.11.5.4)b)

Do not perform 8.2.11.5.4)c)

START TIME: _____

**Clinton Power Station
Job Performance Measure (JPM)**

PERFORMANCE INFORMATION

Critical steps are denoted with an asterisk (*) to the left of the step number and appear in BOLDDED 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. 3304.02, Section 8.2.11.5

- *1) On the DRIFT MEMORY II card,
Place the DISPLAY LOAD MODE toggle switch (S2) in the CONTINUOUS
(up) position.**

Standard: Points to the DISPLAY LOAD MODE toggle switch (S2) and verbalizes that it would be placed in the CONTINUOUS (up) position.

Cue: Tell the student the DISPLAY LOAD MODE toggle switch (S2) is in the CONTINUOUS (up) position.

Comments Do NOT allow examinee to shine any type light into this panel.
Card slot label is used to identify the Drift Memory II card.

SAT UNSAT Comment Number _____

**Clinton Power Station
Job Performance Measure (JPM)**

***2) On the ID GENERATOR II card, Place the ADVANCE MODE toggle switch in the MANUAL (up) position**

Standard: Verbalizes that the ADVANCE MODE toggle switch would be placed in the MANUAL (up) position.

Cue: The ADVANCE MODE toggle switch is in the MANUAL (up) position.

Comments ▪ Card slot is is used to identify the ID Generator II card

SAT UNSAT Comment Number _____

***3 On the ID GENERATOR II card,**

Use the RPIS II display and the STEP SCAN IDENT push-button to select and identify control rod positions (use Appendices B and C as needed).

Standard: Student indicates that the STEP SCAN IDENT push-button would be repeatedly depressed each time looking for the V₁ and H₄ lights on PROBE Data Table.

Cue: Give the student Attachment 1 as the cue to the indications for the PROBE data table as the STEP SCAN IDENT push-button is repeatedly depressed WITH THE FOLLOWING EXCEPTION:

Cue the student that ONE of the times the STEP SCAN IDENT push-button was depressed, the indications shown in Attachment 2 were seen (give the student Attachment 2)

Comments It is not necessary for the student to simulate depressing the STEP SCAN IDENT push-button 145 times. After the student has simulated pressing the button several times, move to the next step.

SAT UNSAT Comment Number _____

**Clinton Power Station
Job Performance Measure (JPM)**

***3 On the ID GENERATOR II card,**

Use the RPIS II display and the STEP SCAN IDENT push-button to select and identify control rod positions (use Appendices B and C as needed).

Standard: Student uses Table 2, PROBE DATA MATRIX LED TRANSLATION and Appendix C to determine control rod 16-21 is at position 36.

Cue: Give the student Attachment 2.
Once this step is complete, inform the student that all control rods have been checked.

Comments The student must be very careful in determining the X and Y binary coordinates.

SAT UNSAT Comment Number _____

4)a) To restore RC&IS to service in the Automatic Mode:
On the ID GENERATOR II card,
Place the ADVANCE MODE toggle switch in the AUTO (down) position.

Standard: Verbalizes that the ADVANCE MODE toggle switch would be placed in the AUTO (down) position.

Cue: The ADVANCE MODE toggle switch is in the AUTO (down) position.

Comments Do NOT allow examinee to shine any type light into this panel

SAT UNSAT Comment Number _____

**Clinton Power Station
Job Performance Measure (JPM)**

4)b) On the DRIFT MEMORY II card,
Place the DISPLAY LOAD MODE toggle switch (S2) in the FAULT (down) position.

Standard: Points to the DISPLAY LOAD MODE toggle switch (S2) and verbalizes that it would be placed in the FAULT (down) position.

Cue: Tell the student the DISPLAY LOAD MODE toggle switch (S2) is in the FAULT (down) position.

Comments You may need to remind the student per the initiating cue, not to perform the next step.

SAT UNSAT Comment Number _____

TERMINATING CUES:

The student does not have to simulate stepping through all 145 control rods.

The student has determined that control rod 16-21 is at position 36.

STOP TIME: _____

Clinton Power Station
Job Performance Measure (JPM)

Operator's Name: _____

Job Title: [] NLO [] RO [] SRO [] STA [] SRO Cert

JPM Title: Use Alternate Methods to Determine Control Rod Position per CPS No. 3304.02

JPM Number: 33040226LSA01 Revision Number: 0

Task Number and Title: (330402.26) use Alternate Means of Determining Control Rod Positions

Table with 4 columns: K/A System, K/A Number, Importance (RO/SRO), and a sub-column for importance values. Rows include 201005, 295006, etc.

Suggested Testing Environment: Control Room

Actual Testing Environment: [] Simulator [] Plant [] Control Room

Testing Method: [x] Simulate [] Perform Faulted: [] Yes [x] No Alternate Path: [] Yes [x] No

Time Critical: [] Yes [x] No

Estimated Time to Complete: 20 minutes Actual Time Used: _____ minutes

References: CPS No. 3304.02 , ROD CONTROL AND INFORMATION SYSTEM (RC&IS), Revision 16d.

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: _____

Evaluator's Name: _____ (Print)

Evaluator's Signature: _____ Date: _____

**Clinton Power Station
Job Performance Measure (JPM)**

Initial Conditions

You are an extra RO on shift. The unit has experienced a trip. The full core display is dead and cannot be used to verify all control rods are fully inserted.

Initiating Cue

CAUTION

- All pre-job briefings are completed.
- No equipment or controls will be manipulated during this evaluation, only **Simulated** Actions will occur.
- Do NOT shine any type light into a panel.

Using the Identification Generator on either RACCS panels, verify the position of all control rods per CPS No. 3304.02, Rod Control and Information System, section 8.2.11.5. through 8.2.11.5.4)b)

Do not perform 8.2.11.5.4)c)

**Clinton Power Station
Job Performance Measure (JPM)**

ATTACHMENT 1

PROBE DATA					
	OT	FI	OD	FO	
V ₁ ☆					
V ₂	08	48	38	28	18
V ₄	16	06	46	36	26
V ₈	24	14	04	44	34
V ₁₆	32	22	12	02	42
V ₃₂	40	30	20	10	00
	H ₁₆	H ₈	H ₄ ☆	H ₂	H ₁

☆ Indicates LED is LIT

**Clinton Power Station
Job Performance Measure (JPM)**

ATTACHMENT 2

PROBE DATA WORD

PRIME	0	Y_1-ID-X_0	16-H-1	32-V-1
-------	---	--------------	--------	--------

REF IDENT		☆			☆	☆			☆	☆
	X_0	Y_0	X_4	X_3	X_2	X_1	Y_4	Y_3	Y_2	Y_1
PROBE IDENT		☆			☆	☆			☆	☆

RPIS
II

IDENT

PROBE DATA						
V_1		OT	FI	OD	FO	
V_2		08	48	38	28	18
V_4	☆	16	06	46	36	26
V_8		24	14	04	44	34
V_{16}		32	22	12	02	42
V_{32}		40	30	20	10	00
		H_{16}	H_8	H_4	☆ H_2	H_1

S
T
A
T
U
S

NO ANSWER
ANSWER FAULT
RESPONSE FAIL
CLOCK FAIL
DATA FAULT

☆ Indicates LED is LIT

CLINTON POWER STATION

Job Performance Measure

Restore ADS Air Supply To Normal Source

JPM Number: 31010107LSN02

Revision Number: 00

Date: 03/14/2007

Developed By:	<u>Tom Pickley</u>	<u>3/14/07</u>
	Instructor	Date
Reviewed By:	<u>Stacey Hagan</u>	<u>6/15/07</u>
	Operations Representative	Date

**Clinton Power Station
Job Performance Measure (JPM)**

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:
Current Procedure Rev. _____ Date: _____
Procedure Rev. Referenced _____ Date: _____
 - If the Current Procedure Rev. and the Procedure Rev. Referenced are different then revise the JPM.
- _____ 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: 31010107LSN02

**Clinton Power Station
Job Performance Measure (JPM)**

Revision Record (Summary)

Revision	Date	Description
00	03/14/07	New JPM

**Clinton Power Station
Job Performance Measure (JPM)**

Simulator Setup Instructions

NOTE: It is permissible to use a similar IC to the IC listed above, provided the IC actually used is verified to be compatible with this and other JPMs that are scheduled to be run concurrently.

1. Reset the simulator to any full power IC.
2. Place ADS Backup Air Bottles in service IAW 3101.01 Steps 8.2.3.1 through 8.2.3.3.
3. Insert the following instructor overrides and malfunctions:
 - a. Fail 1PI-IA079 to 125 psig (0.5) on a 5 minute ramp when 1IA013A is shut.
 - b. Fail 1PI-IA078 to 125 psig (0.5) on a 5 minute ramp when 1IA012A is shut.
 - c. Delete the 1PI-IA079 (P601) instructor override when 1IA013A is reopened.
 - d. Delete the 1PI-IA078 (P601) instructor override when 1IA012A is reopened.
 - e. Bring in Annunciator 5040-6F when either 1PI-IA079 or 1PI-IA078 less than 150 psig (0.6).
 - f. Clear Annunciator 5040-6F when both 1IA013A and 1IA012A open.
4. This completes the setup for this JPM.

**Clinton Power Station
Job Performance Measure (JPM)**

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.

TASK STANDARDS:

- The evolution completed IAW CPS No. 3101.01, MAIN STEAM (MS, IS & ADS).

TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

- None

PROCEDURAL/REFERENCES:

- CPS No. 3101.01, Rev 19d MAIN STEAM (MS, IS & ADS)

EVALUATOR INSTRUCTIONS:

- Amplifying cues are provided within the JPM steps.
- All pre-job briefings are completed.

INITIAL CONDITIONS:

You are the B RO. Due to a loss of IA ADS has been placed on the ADS backup air bottles.

INITIATING CUE:

IA air supply has been restored. Return ADS to the normal air supply.

START TIME: _____

**Clinton Power Station
Job Performance Measure (JPM)**

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 3101.01 Placing ADS backup air bottles in service

- 1 8.2.3.5.1
Place C/S for 1IA012A (13A), ADS IA CNMT Outbd Isol Vlv to CLOSE.

Standard: Locates control switch for 1IA012A and rotates counter clockwise verifying Red light OFF and Green light ON indicating valves are closed.
Locates control switch for 1IA013A and rotates counter clockwise verifying Red light OFF and Green light ON indicating valves are closed.

Cue:

Comments

SAT UNSAT Comment Number _____

- 2 8.2.3.5.2
Place C/S for 1IA012B (13B), ADS IA CNMT Inbd Isol Vlv to OPEN.

Standard: Locates control switch for 1IA012B and rotates clockwise verifying Red light ON and green light OFF indicating valves are closed.
Locates control switch for 1IA013B and rotates clockwise verifying Red light ON and green light OFF indicating valves are closed.

Cue:

Comments

SAT UNSAT Comment Number _____

**Clinton Power Station
Job Performance Measure (JPM)**

- 3 8.2.3.5.3
Return C/S for 1IA012A (13A) to AUTO.

Standard: Locates control switch for 1IA012A and rotates clockwise to the AUTO position.
Locates control switch for 1IA013A and rotates clockwise to the AUTO position.

Cue:

Comments

SAT UNSAT Comment Number _____

- 4 8.2.3.5.4
Verify ADS Air Hdr Pressure on 1H13-P601 (1PI-IA078 / 79) is 160 – 170 psig.

Standard: Locates 1PI-IA078 / 79 on 1H13-P601 and determines air pressure is less than 160 psig.

Cue:

Comments

SAT UNSAT Comment Number _____

Alternate path begins here.

- 5 Responds to Annunciator 5040-6F High/Low Press ADS IA Supply Div 1 or 2.

Standard: Refers to the ARP.

Cue:

Comments

SAT UNSAT Comment Number _____

**Clinton Power Station
Job Performance Measure (JPM)**

- *6 8.2.3.1
Shut 1IA012B, ADS IA CNMT Inbd Isol Vlvs.
Verify 1IA012A, ADS IA CNMT Outbd Isol Vlvs opens.**

Standard: Locates control switch for 1IA012B and rotates counter clockwise verifying Red light OFF and Green light ON indicating valve is closed.
Locates control switch for 1IA012A verifies Red light ON and Green light OFF indicating valve is open.

Cue:

Comments

SAT UNSAT Comment Number _____

- *7 8.2.3.2
Shut 1IA013B, ADS IA CNMT Inbd Isol Vlvs.
Verify 1IA013A, ADS IA CNMT Outbd Isol Vlvs opens.**

Standard: Locates control switch for 1IA013B and rotates counter clockwise verifying Red light OFF and Green light ON indicating valve is closed.
Locates control switch for 1IA013A verifies Red light ON and Green light OFF indicating valve is open.

Cue:

Comments

SAT UNSAT Comment Number _____

**Clinton Power Station
Job Performance Measure (JPM)**

- 4 8.2.3.3
Verify (1H13-P601, 5067):
 - ADS Instrument Air Hdr Pressure, 1PI-IA078/79 > 147.5 psig.
 - ADS Backup Air Hdr Pressure, 1PI-IA080/81 > 2300 psig.

Standard: Locates 1PI-IA078 / 79 on 1H13-P601 and determines air pressure is greater than 147.5 psig.
 Locates 1PI-IA080/81 on 1H13-P601 and determines air pressure is greater than 2300 psig.

Cue:

Comments

SAT UNSAT Comment Number _____

TERMINATING CUES:

ADS in service being supplied by the Backup Air Bottles IAW CPS No. 3101.01.

STOP TIME: _____

**Clinton Power Station
Job Performance Measure (JPM)**

Initial Conditions

You are the B RO. Due to a loss of IA, ADS has been placed on the ADS backup air bottles.

Initiating Cue

CAUTION

- All pre-job briefings are completed.
- Do NOT shine any type light into a panel.

IA air supply has been restored. Return ADS to the normal air supply.

CLINTON POWER STATION

Job Performance Measure

Startup Continuous Containment Purge Unfiltered

JPM Number: 34080149LSN02

Revision Number: 00

Date: 03/14/07

Developed By:	<u>Tom Pickley</u>	<u>03/14/2007</u>
	Instructor	Date
Reviewed By:	<u>Stacey Hagan</u>	<u>6/15/07</u>
	Operations Representative	Date

Clinton Power Station
Job Performance Measure (JPM)

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:
 Current Procedure Rev. _____ Date: _____
 Procedure Rev. Referenced _____ Date: _____
 - If the Current Procedure Rev. and the Procedure Rev. Referenced are different then revise the JPM.
- _____ 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

**Clinton Power Station
Job Performance Measure (JPM)**

Revision Record (Summary)

Revision	Date	Description
00	03/14/07	New Revision

**Clinton Power Station
Job Performance Measure (JPM)**

Simulator Setup Instructions

(This page is applicable only to JPMs performed in the Simulator.)

1. Initialize to any suitable IC with Containment Ventilation secured and CCP ready for startup. Override the CCP Joystick in the “Manual” position.

<p><u>NOTE:</u> It is permissible to use a similar IC to the IC listed above, provided the IC actually used is verified to be compatible with this and other JPMs that are scheduled to be run concurrently.</p>

2. When the above steps are completed for this and other JPMs to be run concurrently, then validate the concurrently run JPMs if applicable.
3. This completes the setup for this JPM.

**Clinton Power Station
Job Performance Measure (JPM)**

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.

TASK STANDARDS:

- CCP is running in the unfiltered mode per CPS No. 3408.01 section 8.2.1.1 revision 16.

TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

- None

PROCEDURAL/REFERENCES:

- CPS No. 3408.01, Containment Building/Drywell HVAC revision 16

EVALUATOR INSTRUCTIONS:

- Amplifying cues are provided within the JPM steps.
- Do NOT allow examinee to shine any type light into a panel.
- All pre-job briefings are completed.

**Clinton Power Station
Job Performance Measure (JPM)**

INITIAL CONDITIONS:

You are the B RO.

Containment Ventilation has been secured per CPS 3408.01, Section 8.1.3.

There are no isolation signals present.

ITS Bases for SR 3.6.5.3.2 has been evaluated.

Radiation Protection has been notified.

Containment temperatures are rising requiring CCP to be started.

INITIATING CUE:

CAUTION

- All pre-job briefings are completed.
- Do NOT shine any type light into a panel.

You are directed to startup Continuous Containment Purge in the Unfiltered Mode Automatic per CPS 3408.01 section 8.1.1.1. Use the "A" fans. Report when the task is complete.

START TIME: _____

**Clinton Power Station
Job Performance Measure (JPM)**

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

8.1.1.1 Startup Continuous Containment Purge Unfiltered (Auto)

- .1 Check that the Containment Building/Drywell HVAC System is stopped per section 8.1.3 or 8.2.2 of this procedure.

Standard: No action necessary. Addressed in initial conditions.

Cue: None necessary

Comments

SAT UNSAT Comment Number _____

- .2 Verify no isolation signals are present, or reset per section 8.3.1

Standard: No action necessary. Addressed in initial conditions.

Cue: None necessary

Comments

SAT UNSAT Comment Number _____

**Clinton Power Station
Job Performance Measure (JPM)**

- *5. Place the control switch for 1VQ003 DW PRG CNMT EXH INBD ISOL VLV in the OPEN position.
1) Check that 1VQ003 DW PRG CNMT EXH INBD ISOL VLV fully opens.**

Standard: The operator places control switch for 1VQ003 to OPEN. Observes RED light is ON and GREEN light is OFF.

Cue:

Comments

SAT UNSAT Comment Number _____

- 6. Place CNMT BLDG SPLY FAN 1VR06CA/CB SELECTOR switch to 06CA LEAD or 06CB LEAD.**

Standard: The operator places/verifies the selector switch to the 06CA LEAD position.

Cue:

Comments

SAT UNSAT Comment Number _____

- 7. Place CNMT BLDG EXH FAN 1VR07CA/CB SELECTOR switch to 07CA LEAD or 07CB LEAD.**

Standard: The operator places/verifies the selector switch to the 07CA LEAD position.

Cue:

Comments

SAT UNSAT Comment Number _____

**Clinton Power Station
Job Performance Measure (JPM)**

8. Place the CNMT CONTINUOUS PRG MODE switch in UNFILT.

Standard: The operator places the CNMT CONTINUOUS PRG MODE switch in UNFILT.
The operator determines that the Auto Mode is not working

Cue: If asked for direction, ask the operator for a recommendation.

Comments The operator should recommend and proceed to the “Manual” Startup Section 8.2.1.1.

SAT UNSAT Comment Number _____

8.2.1.1 Startup Continuous Containment Purge Unfiltered (Manual Operation)

***9. Place the CNMT CONTINUOUS PRG MODE switch in MANUAL.**

Standard: The operator places the CNMT CONTINUOUS PRG MODE switch in MANUAL.

Cue:

Comments The Manual startup repeats the previously performed steps. The operator just needs to ensure they have been performed.

SAT UNSAT Comment Number _____

**Clinton Power Station
Job Performance Measure (JPM)**

***10. Open CNMT BLDG SPLY OUTBD ISOL VLV 1VR006A.**

Standard: The operator places the Control Switch for CNMT BLDG SPLY OUTBD ISOL VLV, 1VR006A to OPEN.

Cue:

Comments

SAT UNSAT Comment Number _____

***11. Open CNMT BLDG SPLY INBD ISOL VLV 1VR006B.**

Standard: The operator places the Control Switch for CNMT BLDG SPLY INBD ISOL VLV, 1VR006B to OPEN.

Cue:

Comments

SAT UNSAT Comment Number _____

**Clinton Power Station
Job Performance Measure (JPM)**

***12. Open CNMT BLDG EXH/PRG INBD ISOL VLV 1VR007B.**

Standard: The operator places the Control Switch for CNMT BLDG EXH/PRG INBD ISOL VLV, 1VR007B to OPEN.

Cue:

Comments

SAT UNSAT Comment Number _____

***13. Open CNMT BLDG EXH/PRG OUTBD ISOL VLV 1VR007A.**

Standard: The operator places the Control Switch for CNMT BLDG EXH/PRG OUTBD ISOL VLV, 1VR007A to OPEN.

Cue:

Comments

SAT UNSAT Comment Number _____

***14. Open HVAC STACK INLET VLV 1VR010.**

Standard: The operator places the Control Switch for HVAC STACK INLET VLV, 1VR010 to OPEN.

Cue:

Comments

SAT UNSAT Comment Number _____

**Clinton Power Station
Job Performance Measure (JPM)**

***15. Start CNMT BLDG EXH FAN, 1VR07CA.**

Standard: The operator places the Control Switch for CNMT BLDG EXH FAN, 1VR07CA to START.

Cue:

Comments

SAT UNSAT Comment Number _____

16. Verify CNMT BLDG EXH FAN ISOL VLV, 1VR009A (1VR009B) opens.

Standard: The operator verifies that CNMT BLDG EXH FAN ISOL VLV, 1VR009A opens, RED light ON and GREEN light OFF.

Cue:

Comments

SAT UNSAT Comment Number _____

***17. Start CNMT BLDG SPLY FAN 1VR06CA.**

Standard: The operator places the Control Switch for CNMT BLDG SPLY FAN 1VR06CA to START.

Cue:

Comments

SAT UNSAT Comment Number _____

**Clinton Power Station
Job Performance Measure (JPM)**

18. Verify CNMT BLDG OUTSIDE AIR SPLY INLT VLV 1VR005 opens.

Standard: The operator verifies that CNMT BLDG OUTSIDE AIR SPLY INLT VLV, 1VR005 opens, RED light ON and GREEN light OFF.

Cue:

Comments

SAT UNSAT Comment Number _____

19. Verify CNMT BLDG SPLY FAN ISOL VLV 1VR004A opens.

Standard: The operator verifies that CNMT BLDG SPLY FAN ISOL VLV, 1VR004A opens, RED light ON and GREEN light OFF.

Cue:

Comments

SAT UNSAT Comment Number _____

20. If outside temperature is less than 65°F, Verify on/turn on CCP Heating Coil 1VR05A at CCP Local Control Panel 1PL17J.

Standard: No action is necessary, outside temperature is 73°F.

Cue: AR/PR or Met Tower indicates outside air temperature is 73°F.

Comments

SAT UNSAT Comment Number _____

**Clinton Power Station
Job Performance Measure (JPM)**

21. At the CCP local control panel, 1PL17J, start/verify running Transfer Fan 1VR12C.

Standard: The operator directs the plant operator to report on the Transfer Fan status.

Cue: Field operator reports Transfer Fan 1VR12C is running.

Comments

SAT UNSAT Comment Number _____

22. Check that Primary Containment to Secondary Containment differential pressure stabilizes between -0.25 and +0.25 psid.

Standard: Operator verifies that pressure stabilizes between -0.25 and +0.25 psid by having area operator check local panels 0PL39JA and 0PL39JB locate on 719' el. Control Bldg.

Cue: As area operator report that pressure has stabilized at -0.20 psid

Comments

SAT UNSAT Comment Number _____

**Clinton Power Station
Job Performance Measure (JPM)**

23. Check that Drywell to Primary Containment differential pressure stabilizes between -0.2 and +1.0 psid.

Standard: Operator describes process of verifying that pressure stabilizes between -0.2 and +1.0 psid by comparing Drywell Pressure to ATMs 1E12-N662A, B, C, D, Containment Pressure.

Cue: Containment Pressure read at ATM is 0.0 psig.

Comments

SAT UNSAT Comment Number _____

24. Reports to the CRS that CCP is in the Unfiltered Mode.

Standard: CCP is running in the unfiltered mode.

Cue:

Comments

SAT UNSAT Comment Number _____

TERMINATING CUES:

Continuous Containment Purge is running in the Unfiltered Mode.

STOP TIME: _____

Clinton Power Station
Job Performance Measure (JPM)

Operator's Name: _____

Job Title: [] NLO [] RO [] SRO [] STA [] SRO Cert

JPM Title: Startup Continuous Containment Purge Unfiltered-Automatic

JPM Number: 34080149LSN01 Revision Number: 00

Task Number and Title: 340801.49, Complete Control Room actions to Startup Continuous Containment Purge Unfiltered Mode (Manual) of the Containment Building/Drywell HVAC System.

Table with 4 columns: K/A System, K/A Number, Importance (RO/SRO). Row 1: 288000, A4.01, 3.1, 2.9

Suggested Testing Environment: Simulator,

Actual Testing Environment: [] Simulator [] Plant [] Control Room

Testing Method: [] Simulate [] Perform Faulted: [] Yes [] No Alternate Path: [] Yes [] No

Time Critical: [] Yes [] No

Estimated Time to Complete: 15 minutes Actual Time Used: _____ minutes

References: CPS No. 3408.01, Containment Building/Drywell HVAC revision 16a.

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: _____

Evaluator's Name: _____ (Print)

Evaluator's Signature: _____ Date: _____

**Clinton Power Station
Job Performance Measure (JPM)**

Initial Conditions

You are the B RO.

Containment Ventilation has been secured per CPS 3408.01, Section 8.1.3.

There are no isolation signals present.

ITS Bases for SR 3.6.5.3.2 has been evaluated.

Radiation Protection has been notified.

Containment temperatures are rising requiring CCP to be started.

Initiating Cue

CAUTION

- All pre-job briefings are completed.
- Do NOT shine any type light into a panel.

You are directed to startup Continuous Containment Purge in the Unfiltered Mode Automatic per CPS 3408.01 section 8.1.1.1. Use the "A" fans. Report when the task is complete.