



**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:**

- Examinee determines that LS-AA-119 work hour limits will be exceeded and completes Section 1 of LS-AA-119 Fatigue Management and Work Hour Limits, Attachment 1 10 CFR 26 Work Hour Limits Waiver and submits it to the Shift Manager.

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

- None

**PROCEDURAL/REFERENCES:**

- OP-CL-101-102-1001, Rev. 7 CPS Minimum On-Shift Staffing Functions
- LS-AA-119, Rev. 11, Fatigue Management and Work Hour Limits
- LS-AA-119-1003, Rev 3, Calculating Work Hours

**EVALUATOR INSTRUCTIONS:**

- Amplifying cues are provided within the JPM steps.
- All pre-job briefings are completed.
- Provide the candidate with a copy of LS-AA-119 when the student acknowledges the initiating cue.
- Provide the candidate with a copy of LS-AA-119-1003 and/or OP-CL-101-102-1001 upon request.

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

**INITIAL CONDITIONS:**

The plant is in Mode 1.

It is Saturday, the 21<sup>st</sup> @ 0800. James Taylor, the B RO, has just left the site due to a sudden illness. The only trained and qualified person you are able to contact is Paul Simon (Employee ID: 123456), who is on his first regular day off.

Van Morrison (the 'A' RO) is the only remaining RO on-site.

Paul is ready and willing to come in and work the overtime and can be there @ 0900 and work until 1500.

Paul has worked the following shifts that count towards 10CFR26 guidelines so far this week:

Sunday the 15th	16 hours on days and afternoon shift (0700 – 2300)
Monday the 16th	8 hours on days (0900 – 1700)
Tuesday the 17th	16 hours on days and afternoon shift (0700 – 2300)
Wednesday the 18th	8 hours on days (0900 – 1700)
Thursday the 19 <sup>th</sup>	16 hours on days and afternoon shift (0700 – 2300)
Friday the 20 <sup>th</sup>	8 hours on days (0900 – 1700)

Safety-related work needs to be performed by the B RO during the shift.

**INITIATING CUE:**

**CAUTION**

- All pre-job briefings are completed.

You are the CRS.

Determine if Paul can work the overtime in accordance with LS-AA-119 Fatigue Management and Work Hour Limits and report results to the Shift Manager.

**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**

**LS-AA-119 Fatigue Management and Work Hour Limits**

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
1	Determines B RO position is required per shift staffing requirements.	Determines that B RO position IS required by OP-CL-101-102-1001 CPS Minimum On-Shift Staffing Functions.  <b>Evaluator Note:</b> Examinee may know this information by memory and not refer to OP-CL-101-102-1001.			
<b>EVALUATOR NOTE: Shift staffing composition may be less than the minimum requirements for a period of time NOT to exceed two hours in order to accommodate unexpected absence of an on duty staff member provided immediate action is taken to restore the shift staff composition to within the minimum requirements.</b>					
2	Reviews procedure to determine if any overtime guidelines will be exceeded.	<b>*5.1.1</b> <b>Determines that overtime would result in exceeding 72 hours in a 7-day period.</b>			
3	Reviews procedure to determine if it allows personnel who will exceed 10CFR26 to work overtime.	<b>*5.4.1</b> <b>Determines a waiver is required to allow personnel to exceed work hour limits.</b>  <i>Evaluator Cue: When examinee reports that a waiver is required, direct the examinee to complete Section 1 of LS-AA-119, Attachment 1 and submit to you.</i>			

**Clinton Power Station  
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<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
4	Completes Section 1 of LS-AA-119, Attachment 1.	<p><b>*Attachment 1</b>  <b>Examinee fills in:</b></p> <ul style="list-style-type: none"> <li>• <b>Name: Paul Simon</b></li> <li>• <b>Employee ID#: 123456</b></li> <li>• <b>Department: Operations</b></li> <li>• <b>Planned Waiver Start: 0900 / 21<sup>st</sup></b></li> <li>• <b>Planned Waiver End: 1500 / 21<sup>st</sup></b></li> <li>• <b>Planned Waiver Duration: 6 hours</b></li> <li>• <b>Limits Exceeded: &gt; 72 hours in any seven days (168 hours)</b></li> <li>• <b>Describe waiver work activity: B RO shift responsibilities (or equivalent)</b></li> <li>• <b>Circumstances that require exceeding limits: Only qualified person available on short notice (or equivalent).</b></li> <li>• <b>Marks “YES” to question “Is waiver required to address conditions adverse to safety or to maintain site security”.</b></li> <li>• <b>Submitted by: Examinee Name, Signature, Date and Time.</b></li> </ul>			

**TERMINATING CUES:**

Candidate completes Section 1 of LS-AA-119 Fatigue Management and Work Hour Limits, Attachment 1 10 CFR 26 Work Hour Limits Waiver and submits it to the Shift Manager.

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

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

**INITIAL CONDITIONS:**

The plant is in Mode 1.

It is Saturday, the 21<sup>st</sup> @ 0800. James Taylor, the B RO, has just left the site due to a sudden illness. The only trained and qualified person you are able to contact is Paul Simon (Employee ID: 123456), who is on his first regular day off.

Van Morrison (the 'A' RO) is the only remaining RO on-site.

Paul is ready and willing to come in and work the overtime and can be there @ 0900 and work until 1500.

Paul has worked the following shifts that count towards 10CFR26 guidelines so far this week:

Sunday the 15th	16 hours on days and afternoon shift (0700 – 2300)
Monday the 16th	8 hours on days (0900 – 1700)
Tuesday the 17th	16 hours on days and afternoon shift (0700 – 2300)
Wednesday the 18th	8 hours on days (0900 – 1700)
Thursday the 19 <sup>th</sup>	16 hours on days and afternoon shift (0700 – 2300)
Friday the 20 <sup>th</sup>	8 hours on days (0900 – 1700)

Safety-related work needs to be performed by the B RO during the shift.

**INITIATING CUE:**

**CAUTION**

- All pre-job briefings are completed.

You are the CRS.

Determine if Paul can work the overtime in accordance with LS-AA-119 Fatigue Management and Work Hour Limits and report results to the Shift Manager.



**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:**

- SRO review of CPS 9015.01 Standby Liquid Control System Operability is complete and ITS 3.1.7 has been entered.
- SRO review of ESOMs log entries for CPS 9015.01 Standby Liquid Control System Operability is complete and ITS 3.1.7 error is identified.

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

- None

**PROCEDURAL/REFERENCES:**

- CPS No. 9015.01, Rev 41a Standby Liquid Control System Operability
- CPS 9015.01D001, Rev 38a SLC Pump and Valve Data Sheet
- ITS 3.1.7 pg 3.1-20, Amendment No. 192 Standby Liquid Control (SLC) System

**EVALUATOR INSTRUCTIONS:**

- Amplifying cues are provided within the JPM steps.
- All pre-job briefings are completed.
- Provide examinee a marked up copy of the following:
  - CPS 9015.01 Standby Liquid Control System Operability
  - CPS 9015.01D001 SLC Pump and Valve Data Sheet
  - ESOMs log entries (attached)



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

**INITIAL CONDITIONS:**

**CPS No. 9015.01 Standby Liquid Control System Operability for SLC Pump A (sections 8.1, 8.2, and 8.4 only) is field complete, awaiting supervisory review.**

**INITIATING CUE:**

**CAUTION**

- All pre-job briefings are completed.

Perform the following supervisory reviews:

- CPS No. 9015.01 Standby Liquid Control System Operability
- ESOMs log entries that were made during performance of the surveillance

MOV Test Prep Switch operation was logged in the Short Duration Time Clock log and has already been verified for accuracy and completeness.

Inform the Shift Manager after completing the task.

**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 9015.01 Standby Liquid Control System Operability**

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5.0 Reviews section 5.0 and verifies section is filled out properly.

Standard: Examinee verifies each step of section 5.0 is initialed, step numbers are circled and either initialed / N/A'd as appropriate, and SMngt permission obtained to perform the procedure.

Cue:

Comments In step 5.2, SLC Pump A should be marked.  
Step 5.5.2 should be N/A'd.

SAT       UNSAT       Comment Number \_\_\_\_\_

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7.0 Reviews section 7.0 and verifies section is filled out properly.

Standard: Examinee verifies each step of section 7.0 is initialed.

Cue:

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

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

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8.1 Reviews section 8.1 and verifies section 8.1 is filled out properly.

Standard: Examinee verifies steps 8.1.1 through 8.1.8 is initialed or N/A'd as appropriate.

Cue:

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

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8.2 Reviews section 8.2 and verifies section 8.2 is filled out properly.

Standard: Examinee verifies steps 8.2.1 through 8.2.24 is initialed or N/A'd as appropriate.

Cue:

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

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8.3 Reviews section 8.3 and verifies section 8.3 is filled out properly.

Standard: Examinee verifies all steps in section 8.3 are N/A'd.

Cue:

Comments Section 8.3 is NA (not testing SLC Pump B per the cue).

SAT       UNSAT       Comment Number \_\_\_\_\_

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

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8.4 Reviews section 8.4 and verifies section 8.4 is filled out properly.

Standard: Examinee verifies steps 8.4.1 through 8.4.9 is initialed or N/A'd as appropriate.

Cue:

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

---

8.5 Reviews section 8.5 and verifies section 8.5 is filled out properly.

Standard: Examinee verifies step 8.5 is initialed and date/time of completion recorded.

Cue:

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

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**\*1 Examinee reviews 9015.01D001 SLC Pump & Valve Operability Data Sheet and discovers that Qr has been calculated incorrectly (should be 39.86 gpm).**

Standard: Examinee determines actual Qr is < 41.2 gpm and enters ITS LCO 3.1.7 A.1 Restore SLC subsystem to OPERABLE status within 7 days.

Cue: If the examinee wants to stop after finding the datasheet error, cue him/her to finish surveillance and log entry review.

Comments The actual Qr is as follows (from formula at step 8.2.11.8) –  $(16'' \times 4.9 \times 60) / 118 = 39.86$  gpm.

SAT       UNSAT       Comment Number \_\_\_\_\_

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

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**\*2** Examinee reviews attached ESOMs log entries and determines that ITS LCO 3.1.7 A.1 was not entered for the B SLC subsystem and that LCO 3.1.7 B.1 was not entered for two inoperable SLC subsystems during performance of step 8.1.4.

Standard: Examinee determines that ITS LCO 3.1.7 A.1 was not entered for the B SLC subsystem and that LCO 3.1.7 B.1 was not entered for two inoperable SLC subsystems during performance of step 8.1.4.

Cue: If the examinee wants to stop after finding the logging error, cue him/her to finish surveillance and log entry review.

Comments

SAT

UNSAT

Comment Number \_\_\_\_\_

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**TERMINATING CUES:**

•SRO review of CPS 9015.01 Standby Liquid Control System Operability is complete and ITS 3.1.7 has been entered.

•SRO review of ESOMs log entries for CPS 9015.01 Standby Liquid Control System Operability is complete and ITS 3.1.7 error is identified.

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

**CLINTON POWER STATION****Job Performance Measure**

Determine PRA / Online Risk

JPM Number: JPM462

Revision Number: 00

Date: 6/22/2015

<b>Developed By:</b>	<b>W. D. Kiser</b> _____	<b>6/22/15</b> _____
	<b>Instructor</b>	<b>Date</b>
<b>Validated By:</b>	<b>/s Mike Antonelli</b> _____	<b>7/17/15</b> _____
	<b>SME or Instructor</b>	<b>Date</b>
<b>Reviewed By:</b>	_____ <b>Operations Representative</b>	_____ <b>Date</b>
<b>Approved By:</b>	_____ <b>Training Department</b>	_____ <b>Date</b>

**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:**

- Examinee has determined that risk level changes from Green to YELLOW when 1A RHR Pump is declared inoperable and unavailable.
- Examinee has determined that risk level remains YELLOW when 1A RHR Pump is declared inoperable and unavailable concurrent with a Severe Thunderstorm Warning declared for Dewitt County.

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

- Computer terminal with access to PARAGON

**PROCEDURAL/REFERENCES:**

- ER-AA-600-1042 On-Line Risk Management Rev. 9
- CPS 4302.01 Tornado/High Winds Rev 21C

**EVALUATOR INSTRUCTIONS:**

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

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

**INITIAL CONDITIONS:**

You are the Control Room Supervisor; CPS is operating at 912 MWe.

There are no LCOs in effect.

On-Line Risk is GREEN.

You have just been informed by the System Engineer that the latest oil samples on the 1A RHR pump motor indicate serious bearing degradation.

The Shift Manager has agreed to take the 1A RHR Pump out of service.

**INITIATING CUE:**

**CAUTION**

- All pre-job briefings are completed.

Determine any change in On-Line Risk and report to the Shift Manager.

**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**

**Paragon**

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
1	Candidate accesses the PARAGON program	PARAGON program accessed <i>Cue: If requested, cue the examinee that the Paragon login is the examinee's LAN login; no password is required.</i>			
2	Enter 1A RHR Pump unavailable in PARAGON	<b>*On-Line Risk determined to be YELLOW for the unavailable 1A RHR Pump</b> <i>Cue: Acknowledge report and inform the candidate that the National Weather Service has issued a Severe Thunderstorm Warning for Dewitt County. Ask the candidate to determine any change in On-Line Risk.</i>			

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

**CPS 4302.01 Tornado/High Winds, Attachment 1: Guidance for Online Risk Assessment During Severe Weather Conditions**

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
3	Enters “Yes” for “Loss of Offsite Power” high risk evolution (HRE).	<b>*On-Line Risk determined to remain YELLOW for a Dewitt County Severe Thunderstorm Warning declaration</b>			

**TERMINATING CUES:**

On-line risk levels have been evaluated for unavailability of 1A RHR Pump concurrent with a Severe Thunderstorm Warning declared for Dewitt County.

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

## CLINTON POWER STATION

### Job Performance Measure

Authorize an Emergency Dose for a Life Saving Operation

JPM Number: JPM450

Revision Number: 00

Date: 08/8/2014

<b>Developed By:</b>	<u>Tony Jennings</u>	<u>7/16/15</u>
	Instructor	Date
<b>Validated By:</b>	<u>/s Mike Antonelli</u>	<u>7/17/15</u>
	SME or Instructor	Date
<b>Reviewed By:</b>	_____	_____
	Operations Representative	Date
<b>Approved By:</b>	_____	_____
	Training Department	Date

**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 life saving operation is authorized per EP-AA-113, Personnel Protective Actions and EP-AA-113-F-02, Authorization for Emergency Exposure.

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

- None

**PROCEDURAL/REFERENCES:**

- EP-AA-113, Rev. 12, Personnel Protective Actions
- EP-AA-113-F-02, Rev B, Authorization for Emergency Exposure

**EVALUATOR INSTRUCTIONS:**

- Amplifying cues are provided within the JPM steps.
- Supply the examinee the partially filled out EP-AA-113-F-02 as the volunteer (form is provided with this JPM).
- You as the evaluator will play the part of the volunteer who has not yet been briefed.
- Supply the operator with a copy of EP-AA-113, Personnel Protective Actions when the examinee retrieves the procedure or states he would obtain procedure from EDMS.

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

**INITIAL CONDITIONS:**

An emergency life-saving operation must be performed. The operation will take approximately 15 minutes in a 200 Rem/hr field. A volunteer, age 45, comes for your approval to perform the life-saving operation.

**INITIATING CUE:**

**CAUTION**

- All pre-job briefings are completed.

As the Acting Station Emergency Director, take the actions needed to authorize the life-saving operation.

**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**

EP-AA-113-F-02

**\*1. Determines volunteer will receive greater than 25 Rem TEDE.**

**Standard “25 Rem TEDE (Authorized to receive greater than 25 Rem TEDE)” should be checked.**

CUE Hand the partially filled out EP-AA-113-F-02 to the examinee as the volunteer.

Comments .

SAT       UNSAT       Comment Number \_\_\_\_\_

2. Determines volunteer has not signed form for briefing.

Standard Determines volunteer has not been briefed.

CUE I was told you would perform the brief.

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

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

**\*3. Brief volunteer IAW 4.3.2. At a minimum, this will include possible health effects (and approximate cancer risk) at the anticipated exposure level/appropriate age (using Attachment 1 of EP-AA-113).**

**Standard Examinee briefs the following information from EP-AA-113 ATTACHMENT 1 “EMERGENCY WORKER EXPOSURE LIMITS AND ASSOCIATED RISKS” with the volunteer:  
50 rad will result in 2% of population affected by prodromal effects.  
Risk of premature death (deaths per 1000 persons exposed) 5.3%  
Average years of life lost if premature death occurs: 15 (years)**

Cue:

Comments Sign form after briefing is completed.

SAT       UNSAT       Comment Number \_\_\_\_\_

**\*4. Obtain Radiation Protection Management Review Signature.**

**Standard Form is signed.**

Cue: When asked by examinee; sign, date and put current time as a RP Manager.

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

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

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**\*5. Authorizes the exposure.**

**Standard Signs for approval.**

Cue:

Comments

SAT

UNSAT

Comment Number \_\_\_\_\_

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**TERMINATING CUES:**

The life-saving operation is authorized.

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



**CLINTON POWER STATION****Job Performance Measure**

EAL Determination with NARS

JPM Number: JPM018

Revision Number: 03

Date: 6/22/2015

<b>Developed By:</b>	<u>W. D. Kiser</u> <b>Instructor</b>	<u>6/22/15</u> <b>Date</b>
<b>Validated By:</b>	<u>/s Mike Antonelli</u> <b>SME or Instructor</b>	<u>7/17/15</u> <b>Date</b>
<b>Reviewed By:</b>	_____ <b>Operations Representative</b>	_____ <b>Date</b>
<b>Approved By:</b>	_____ <b>Training Department</b>	_____ <b>Date</b>

**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:**

- An Unusual Event is determined IAW EP-AA-1003, Radiological Emergency Plan Annex for Clinton Station procedure, and the NARS form is completed per EP-MW-114-100, Midwest Region Offsite Notifications, and ready to transmit.

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

- None

**PROCEDURAL/REFERENCES:**

- OP-CL-108-101-1003-F-05, Rev 4, – Shift Manager (SED) – EAL Guide
- EP-AA-1003, Rev. 25, Radiological Emergency Plan Annex for Clinton Station
- EP-AA-112-100-F-01, Rev. U, Shift Emergency Director Checklist
- EP-AA-112-F-09, Rev. E, Emergency Public Address Announcements
- EP-MW-114-100, Rev. 016, Midwest Region Offsite Notifications
- EP-MW-114-100-F-01, Rev. H, Nuclear Accident Reporting System (NARS) Form
- CPS 5067.03, Rev 32c, Alarm Panel Annunciators – Row 3 (Page 11 of 11 ONLY)

**EVALUATOR INSTRUCTIONS:**

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

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

**INITIAL CONDITIONS:**

Refueling operations are in progress.

- Division 1 AC and DC Bus outages are in progress.
- The Division 2 Battery Charger recently tripped and the voltage on the Division 2 DC bus has been 105 VDC for 15 minutes.

A RO reports – Hi-Hi Level Drywell Sump Equip/Floor Drain Annunciator (5067-3L).

**INITIATING CUE:**

**CAUTION**

- All pre-job briefings are completed.

**This JPM is time critical.**

You are to determine the appropriate Emergency Classification for these plant conditions and complete the NARS form. **Activation/notification of the ERO is not required.**

Submit NARS Form to ERO Communicator when completed.

**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**

**\*1. Determine applicable EAL(s)**

**\*CU3**

**UNPLANNED loss of required DC power for greater than 15 minutes**

Standard: Unusual Event (CU3) determined per EP-AA-1003, Radiological Emergency Plan Annex for Clinton Station within 15 minutes. The examinee must determine that the unit is in Mode 5 and to be in the Cold Shutdown/Refueling Matrix. In addition, the examinee also has to determine that an Unplanned Loss of RCS Inventory (CU7) would not be applicable due to RPV level is known.

Cue: If requested, provide CPS 5067-3L.  
If asked about RPV level, report – “There is no indication of RPV Level change”.  
If requested, provide the following items:

- DW Equipment Drain Sump Pump – Red Light OFF, Green Light ON
- DW Floor Drain Sump Pump – Red Light ON, Green Light OFF
- Computer Point RE-BC402 Value = 0.0
- Computer Point RF-BC402 Value = 1.0

Comments A 15-minute clock to **declare** the EAL starts as soon as the initiating cue is read and acknowledged via 3-part communication. Record the time the classification was made.

**TIME** \_\_\_\_\_

SAT

UNSAT

Comment Number \_\_\_\_\_

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

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- \*2. EP-AA-112-100-F-01 Step 1.1.G  
Initiate required State/Local notifications within 15 minutes of the event classification.**

Standard: Examinee records the following information on EP-MW-114-100-F-01, Nuclear Accident Reporting System (NARS) Form:

- 4.2.1. UTILITY MESSAGE NO: 1
- 4.2.2. STATE MESSAGE NO: N/A
- \*4.2.3. Block 1: (B) Drill/Exercise**
- \*4.2.4. Block 2: (C) Clinton**
- \*4.2.5. Block 3: (A) Unusual Event**
- \*4.2.6. Block 4:**
  - **Accident Classified Time must be <=15 minutes from time recorded in step 1**
  - **Date: Today's date**
  - **EAL #: CU3**
- 4.2.7. Accident Terminated
  - Time: N/A
  - Date: N/A
- \*4.2.8. Block 5: (A) None**
- 4.2.9. Block 6: (A) Not Applicable
- \*4.2.10.3. Block 7: 89 degrees (or value from PPDS)**
- \*4.2.10.4. Block 8:**
  - (A) METERS/SEC: N/A (or value from PPDS)
  - **(B) MILES/HR: 12 (or value from PPDS)**
- \*4.2.11. Block 9: (A) None**
- 4.2.12. Block 10:
  - Additional information: None
- 4.2.14. Approval Block
  - Approval signature complete
  - Verified with: N/A

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

- Cue:
1. Provide the following when needed to the examinee if asked:  
Block 7: 89 degrees  
Block 8: 12 mph
  2. If asked, state: "There is no upward trend on PPDS Total Noble Gas Release Rate."
  3. If requested, state: "A verifier is not available."

Comments Only those portions of the form that are bolded above are critical.

Evaluator Note: A 13-minute clock to determine PARs and provide the NARS form for transmittal starts as soon as the EAL declaration has been made. Record the time of the declaration below. The time declared must be no more than 15 minutes from the START TIME.

Record Time EAL Declared (from page 6) \_\_\_\_\_

Record Time NARS form provided to the State Communicator for transmittal (JPM Step 3 item 14) \_\_\_\_\_

NOT longer than 13 minutes between the time EAL Declared and Time NARS form provided to the State Communicator for transmittal:

YES / NO

SAT

UNSAT

Comment Number \_\_\_\_\_

---

**TERMINATING CUES:**

EAL thresholds evaluated and NARS form provided to the State Communicator for transmittal.

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

**CLINTON POWER STATION**

**Job Performance Measure**

Control Rod Scram Time Testing Restoration – Inadvertent Rod  
Withdrawal

JPM Number: JPM420

Revision Number: 00

Date: 6/5/15

**Developed By:** Tony Jennings 6/5/15  
**Instructor** **Date**

**Validated By:** /s Mike Antonelli 7/16/15  
**SME or Instructor** **Date**

**Reviewed By:** \_\_\_\_\_           
**Operations Representative** **Date**

**Approved By:** \_\_\_\_\_           
**Training Department** **Date**

**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:**

- Rod 32-37 is re-inserted to position 00 using IN TIMER SKIP IAW CPS 4007.02 Inadvertent Rod Movement.

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

- None

**PROCEDURAL/REFERENCES:**

- CPS No. 9813.01, Rev 41a Control Rod Scram Time Testing
- CPS No. 9813.01C001, Rev. 33 Control Rod Scram Timing Checklist
- CPS No. 9813.01D003, Rev. 31 Scram Time Testing – Containment Data Sheet
- CPS No. 9813.01D004, Rev. 31b Scram Time Testing – MCR Data Sheet
- CPS No. 3304.02, Rev. 22c Rod Control and Information System (RC&IS)
- CPS 4007.02, Rev. 13c Inadvertent Rod Movement
- NF-CL-721-F-1, Rev 001 Control Rod Sequence Review and Approval Sheet
- NF-CL-721-F-5, Rev 000 Special Maneuver Rod Move Sheet
- NF-CL-721-F-6, Rev 000 Control Rod Sequence: General Instructions

**EVALUATOR INSTRUCTIONS:**

- Amplifying cues are provided within the JPM steps.
- All pre-job briefings are completed.
- When providing the initiating cue, provide the examinee with a copy of each of the following procedures:
  - CPS 9813.01 Control Rod Scram Time Testing
  - CPS No. 9813.01C001, Rev. 33 Control Rod Scram Timing Checklist
  - CPS No. 9813.01D003, Rev. 31 Scram Time Testing – Containment Data Sheet
  - CPS No. 9813.01D004, Rev. 31b Scram Time Testing – MCR Data Sheet
  - CPS 3304.02 Rod Control And Information System (RC&IS)
  - NF-CL-721-F-1 Control Rod Sequence Review and Approval Sheet



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

- NF-CL-721-F-5 Special Maneuver Rod Move Sheet
- NF-CL-721-F-6 Control Rod Sequence: General Instructions
- OD-7 Control Rod Notch Positions

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

**INITIAL CONDITIONS:**

The plant is in Mode 1, operating at approximately 72% power. CPS 9813.01 Control Rod Scram Time Testing on 10% of the control rods is in progress.

- Rod 32-37 has been scrammed and is at position 00.
- Rod 32-37 is de-selected.
- CPS 9813.01 Control Rod Scram Time Testing is complete up through and including step 8.2.15.

**INITIATING CUE:**

**CAUTION**

- All pre-job briefings are completed.

Return control rod 32-37 to its pre-test position (position 48) using single notch withdrawal per step 8.2.16 of CPS 9813.01 Control Rod Scram Time Testing.

Report to the CRS after completing the task.

**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 9813.01 Control Rod Scram Time Testing  
CPS 3304.02 Rod Control and Information System (RC&IS)**

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
9813.01 8.2.16 3304.02 8.1.3 / 8.1.4	Return control rod 32-37 to pre-test position.	3304.02 8.1.3.1.1 Examinee verifies the INDIVID DRIVE light is energized on the OCM.			
		<b>*3304.02 8.1.3.1.2 &amp; 3</b> Examinee selects control rod 32-37 by simultaneously depressing the 32 and 37 pushbuttons on 1H13-P680-5004A panel, and then verifies the yellow LED lit for LPRM 30-39.			
		<b>*3304.02 8.1.4.1.2 &amp; 3</b> Examinee momentarily depresses the WITHDRAW pushbutton <u>twice</u> on 1H13-P680-5004A panel, and then verifies the IN, OUT, and SETTLE lights cycle and that rod 32-37 settles at position 02 and then 04.  <i>Cue: If the examinee reports receiving annunciator 5006-2H Rod Out Block, acknowledge the report.</i>			
		<b>*3304.02 8.1.3.3</b> Examinee depresses the ROD SELECT CLEAR push-button <u>twice</u> on 1H13-P680-5004A.  <i>Cue: If the examinee reports annunciator 5006-2H Rod Out Block is reset, acknowledge the report.</i>			

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

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
9813.01 8.2.16 3304.02 8.1.3 / 8.1.4 (cont.)	Return control rod 32-37 to pre-test position. (cont.)	3304.02 8.1.3.1.2 & 3  Examinee selects control rod 32-37 by simultaneously depressing the 32 and 37 pushbuttons on 1H13-P680-5004A panel, and then verifies the yellow LED lit for LPRM 30-39.			

**ALTERNATE PATH BEGINS**

9813.01 8.2.16 3304.02 8.1.3 / 8.1.4 4007.02 Inadvertent Rod Movement	Respond to inadvertent rod movement.	3304.02 8.1.4.1.2 & 3 Examinee momentarily depresses the WITHDRAW pushbutton on 1H13-P680-5004A panel, and then verifies that control rod 32-37 fails to settle at position 06 and continues to withdraw.  <i>Cue: If the examinee reports receiving annunciator 5006-4G Rod Drift and/or that rod 32-37 is inadvertently withdrawing, acknowledge the report.</i>			
		<b>*4007.02 step 3.2 (immediate action)</b> <b>Examinee depresses and holds the IN TIMER SKIP push-button on 1H13-P680-5004A and inserts control rod 32-37 to position 00.</b>  <b>Evaluator Note:</b> if examinee has not inserted rod 32-37 before reaching position 20, this critical task is UNSAT.  <i>Cue: If the examinee reports that 32-37 has been inserted to position 00, acknowledge the report and state that the JPM is complete.</i>			

**TERMINATING CUES:**

Control Rod 32-37 has been inserted to position 00 IAW CPS No. 4007.02 Inadvertent Rod Movement.

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

## CLINTON POWER STATION

### Job Performance Measure

Initiate Low Pressure ECCS System and Maximize Injection  
(Alternate Path)

JPM Number: JPM250

Revision Number: 03

Date: 6/5/15

<b>Developed By:</b>	<u>Tony Jennings</u> Instructor	<u>6/5/15</u> Date
<b>Validated By:</b>	<u>/s Mike Antonelli</u> SME or Instructor	<u>7/16/15</u> Date
<b>Reviewed By:</b>	_____ Operations Representative	_____ Date
<b>Approved By:</b>	_____ Training Department	_____ Date

**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 Pump 'A' and RHR Pump 'B' running and 1E12-F053A and B fully opened..

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

- None

**PROCEDURAL/REFERENCES:**

- CPS No. 3312.01, Rev. 45b Residual Heat Removal
- CPS No. 3313.01, Rev. 16d Low Pressure Core Spray
- CPS No. 4411.03, Rev. 10c Injection/Flooding Sources

**EVALUATOR INSTRUCTIONS:**

- Amplifying cues are provided within the JPM steps.
- All pre-job briefings are completed.
- ADS will automatically initiate at TAF.

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

**INITIAL CONDITIONS:**

You are the Extra RO. There are NO high pressure injection systems available and RPV level is trending down. ADS will be initiated by the "B" Reactor Operator when RPV level reaches TAF.

**INITIATING CUE:**

**CAUTION**

- All pre-job briefings are completed.

Using CPS No. 4411.03, INJECTION/FLOODING SOURCES, start all Low Pressure ECCS Systems. MAXIMIZE injection using ONLY preferred ECCS injection systems to restore RPV level above Level 3. PR038 and PR039 are in service.

Hard Cards are authorized and IMD has defeated all applicable interlocks.

Report to the CRS after completing the task.

**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 3313.01 LOW PRESSURE CORE SPRAY, APPENDIX A: LPCS INITIATION / SHUTDOWN HARD CARD**
- **CPS 3312.01 LPCI INITIATION / SHUTDOWN HARD CARD**

**Note to Evaluator – Low Pressure ECCS Systems can be initiated and aligned by the examinee in any order.**

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
1	Control RPV water level 3 to level 8 by initiating Division 1 ECCS (LPCS and RHR 'A') pumps.	<p><b>*3213.01 App. A &amp; 3312.01 App. C</b></p> <p><b>At 1H13-P601-5063, examinee arms and depresses LPCS/LPCI FM RHR A MANUAL INITIATION push-button.</b></p>			
		<p>3313.01 App. A</p> <p>Examinee verifies LPCS Pump starts (red indicating light illuminated, green indicating light extinguished, motor current meter pegs high and then returns to the green band).</p> <p><i>Cue: If examinee reports that the Div 1 Low Pressure ECCS Pumps have been initiated, acknowledge the report.</i></p>			
		<p>3312.01 App. C</p> <p>Examinee verifies RHR Pump 'A' starts (red indicating light illuminated, green indicating light extinguished, motor current meter pegs high and then returns to the green band).</p> <p><i>Cue: If examinee reports that the Div 1 Low Pressure ECCS Pumps have been initiated, acknowledge the report.</i></p>			



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

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
2	Control RPV water level 3 to level 8 by initiating Division 2 ECCS (RHR 'B' and RHR 'C') pumps.	<p><b>*3312.01 App. C.1</b>  <b>At 1H13-P601-5065, examinee arms and depresses LPCI FM RHR B &amp; C MANUAL INITIATION push-button.</b></p> <p>3312.01 App. C.2                      Examinee verifies RHR Pump 'B' starts (red indicating light illuminated, green indicating light extinguished, motor current meter pegs high and then returns to the green band).  <i><b>Cue:</b> If examinee reports that RHR Pump 'B' has been initiated, acknowledge the report.</i></p> <p>3312.01 App. C.2                      Examinee determines that RHR Pump 'C' failed to start.                      Examinee places control switch for RHR Pump 'C' to start, and observes the amber trip light illuminated and reports failure to the CRS.  <i><b>Cue:</b> If examinee reports failure of the RHR Pump 'C' pump to start, acknowledge the report.</i></p>			

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

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
3	Verifies the system alignments for RHR 'A' and 'B' subsystems.	3312.01 App. C.3.2 & C.3.3 (RHR Pump 'A')  At 1H13-P601-5064, examinee verifies 1E12-F048A RHR A Hx Bypass Valve <u>AND</u> 1E12-F027A RHR A Hx Bypass Valve open (red light ON, green light OFF).			
		3312.01 App. C.3.2 & C.3.3 (RHR Pump 'B')  At 1H13-P601-5065, examinee verifies 1E12-F048B RHR B Hx Bypass Valve <u>AND</u> 1E12-F027B RHR B Hx Bypass Valve open (red light ON, green light OFF).			
4	Verifies Low Pressure ECCS Injection Valves open when RPV pressure reaches 472 psig.	3313.01 App. A.3 (LPCS)  At 1H13-P601-5063, examinee verifies 1E21-F005 LPCS To CNMT Outbd Isol Valve open (red light ON, green light OFF).			
		3312.01 App. C.4 (RHR Pump 'A')  When RPV pressure reaches 472 psig, at 1H13-P601-5064, examinee verifies 1E12-F042A LPCI Fm RHR A Shutoff Valve <u>fails</u> to open (red light OFF, green light ON).  Examinee may attempt to manually open 1E12-F042A <u>or</u> recognizes indication of 1E12-F042A breaker being OFF and reports unavailability of 1E12-F042A to the CRS.  <i><b>Cue:</b> If examinee reports unavailability of 1E12-F042A, acknowledge the report.</i>			
		3312.01 App. C.4 (RHR Pump 'B')  When RPV pressure reaches 472 psig, at 1H13-P601-5065, examinee verifies 1E12-F042B LPCI Fm RHR B Shutoff Valve <u>fails</u> to open (red light OFF, green light ON).  Examinee may attempt to manually open 1E12-F042B <u>or</u> recognizes indication of 1E12-F042B breaker being OFF and reports unavailability of 1E12-F042B to the CRS.  <i><b>Cue:</b> If examinee reports unavailability of 1E12-F042B, acknowledge the report.</i>			
<b><u>BEGIN ALTERNATE PATH</u></b>					
<b>CPS 4411.03 Injection/Flooding Sources App A: RHR Injection / Flooding Flowpath – Method 1: RHR Through Shutdown Cooling</b>					
5	Defeats RHR Injection / Flooding Interlocks	1.1  No examinee action required – per the initiating cue, IMD has defeated all applicable interlocks			

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

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
6	Starts RHR Pumps 'A' and 'B' for injection through Shutdown Cooling	1.2 Examinee verifies RHR Pump 'A' and 'B' running (red light ON, green light OFF) at 1H13-P601-5064 and 5065.			
7	Aligns RHR injection through the Shutdown Cooling Return Lines.	<b>*1.3</b> <b>Examinee fully opens 1E12-F053A <u>and</u> B (red light ON, green light OFF).</b>  Note to examiner – to maximize injection, BOTH 1E12-F053A <u>and</u> B must be fully opened. Examinee verifies RPV Water Level rises after injection is maximized.  <i>Cue: When examinee reports that LPCS, RHR 'A' and RHR 'B' are injecting at maximum flow to the RPV, acknowledge the report and cue the examinee that the JPM is complete.</i>			

**TERMINATING CUES:**

RHR Pump 'A' and 'B' are running and injecting through the Shutdown Cooling lines to the RPV via 1E12-F053A and B IAW CPS No. 4411.03 Appendix A: RHR Injection/Flooding Flow Paths.

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

## CLINTON POWER STATION

### Job Performance Measure

Turbine On Line Tests

JPM Number: JPM517

Revision Number: 01

Date: 06/25/2015

<b>Developed By:</b>	<u>Tony Jennings</u> Instructor	<u>06/25/15</u> Date
<b>Validated By:</b>	<u>/s Mike Antonelli</u> SME or Instructor	<u>7/16/15</u> Date
<b>Reviewed By:</b>	_____ Operations Representative	_____ Date
<b>Approved By:</b>	_____ Training Department	_____ Date

**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:**

- CPS 3812.01 Rev. 16a, Turbine On Line Tests, Section 8.1 suspended, and the electrical trip circuitry reset.

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

- None

**PROCEDURAL/REFERENCES:**

- CPS 3812.01 Rev. 16a, Turbine On Line Tests
- CPS 3105.01 Rev. 41a, Turbine (TG, EHC, TS)

**EVALUATOR INSTRUCTIONS:**

- Amplifying cues are provided within the JPM steps.
- All pre-job briefings are completed.
- Provide the examinee with a copy of:
  - Initial Conditions and Initiating Cue page (back page of the JPM) when providing the initiating cue.
  - Marked up copy of CPS 3812.01 Rev. 16a, Turbine On Line Tests.

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

**INITIAL CONDITIONS:**

You are the B RO.

The plant is in Mode 1 with the Main Turbine synchronized to the grid.

CPS 3812.01, Turbine On Line Tests is scheduled to be performed.

All prerequisites for CPS 3812.01 Turbine On Line Tests Section 8.1 Electrical Trip Test and Section 8.2 BOST Test are complete.

Turbine Trips are **NOT** Disabled (NOT BYPASSED) per CPS 3105.01, Disabling Turbine Trips Using Global Bypass.

Operators are stationed at Main Turbine Front Standard and at the first hit panel 1PA06J to reset annunciators.

**INITIATING CUE:**

**CAUTION**

- All pre-job briefings are completed.

Perform CPS 3812.01, Turbine On Line Tests.

Report to the CRS after completing the task.

**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 3812.01, Turbine On Line Tests  
Section 8.1, Electrical Trip Test**

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8.1.1 Verify applicable prerequisites are met.

Standard: Examinee verifies applicable section 5.0 prerequisites are complete.

Cue:

Comments Examinee verifies 5.1-5.4, 5.8 and 5.9 complete.

SAT  UNSAT  Comment Number \_\_\_\_\_

---

8.1.2 Verify Turbine Trips are NOT Disabled (NOT BYPASSED) per CPS 3105.01, Disabling Turbine Trips Using Global Bypass.

Standard: No action required; provided in the initiating cue.

Cue:

Comments

SAT  UNSAT  Comment Number \_\_\_\_\_

---

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

- 8.1.3 Observe the following:
1. NORMAL light is ON
  2. RESET light is ON
  3. Remaining lights in ELECTRICAL TRIP TEST Group are OFF

Standard: Examinee observes the following Electrical Trip Test lights on 1H13-P870-5018:

1. NORMAL light is ON.
2. RESET light is ON.
3. Remaining lights in ELECTRICAL TRIP TEST Group are OFF.

Cue:

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

- \*8.1.4 Depress and hold START TEST push-button**
- 1. Observe NORMAL light goes OFF.**
  - 2. Observe LOCKED OUT light comes ON.**

Standard: **Examinee depresses and holds the Electrical Trip Test Start Test Pushbutton on 1H13-P870-5018 and verifies the following:**

- **NORMAL light goes OFF**
- **LOCKED OUT light comes ON**

Cue: All status lights and annunciators were received at P-680 and 1PA06J as expected.

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_



Clinton Power Station  
Job Performance Measure (JPM)

**Begin Alternate Path**

8.1.5 Release START TEST push-button. Observe the following sequence:

- 1. RESET light goes OFF, and TRIPPED light comes ON.
- 2. TRIPPED light goes OFF, and RESET light comes ON.
- 3. LOCKED OUT light goes OFF and NORMAL light comes ON.

Standard: Examinee releases the Start Test push-button on 1H13-P870-5018 and observes the following:

- RESET light goes OFF, and
- TRIPPED light comes ON
- Test Malfunction Light comes ON

Cue:

- When the examinee reports the malfunction to the CRS, acknowledge the report, inform the examinee that troubleshooting is complete and direct the examinee to take necessary actions to move on to the next section of the test.
- If an Equipment Operator is sent to check status of the trip mechanism, report that the trip linkage is reset.

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

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

**\*6.1 If a malfunction occurs during performance of the Mechanical Overspeed Trip, the Mechanical Trip Piston or the Electrical Trip, THEN The test sequence stops before completion.**

**Depressing the respective STOP - GO – NORMAL push-button will reset the system to normal, except in cases noted in section 8.3 and 8.4, Mechanical Overspeed Trip Test and Mechanical Trip Piston Test.**

Standard: Examinee depresses the Electrical Trip Test Stop Go Normal pushbutton, and verifies the following:

- Test Malfunction light goes OFF
- TRIPPED light goes OFF
- RESET light comes on
- LOCKED OUT light goes OFF
- NORMAL light comes on

Cue: When the examinee reports the Electrical Trip Test Circuitry has been reset, acknowledge the report and cue the examinee that the JPM is complete.

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

**TERMINATING CUES:**

Electrical Trip Test Circuitry for the Main Turbine is reset IAW CPS No. 3812.01 Turbine On Line Tests.

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

## CLINTON POWER STATION

### Job Performance Measure

Perform a HPCS Pump Operability Test  
(Alternate Path)

JPM Number: JPM288

Revision Number: 01

Date: 8/4/14

<b>Developed By:</b>	<u>Tony Jennings</u>	<u>7/16/15</u>
	Instructor	Date
<b>Validated By:</b>	<u>/s Mike Antonelli</u>	<u>7/16/15</u>
	SME or Instructor	Date
<b>Reviewed By:</b>	_____	_____
	Operations Representative	Date
<b>Approved By:</b>	_____	_____
	Training Department	Date

**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:**

- HPCS Pump has been tripped due to loss of suction source.

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

- None

**PROCEDURAL/REFERENCES:**

- CPS No. 9051.01, Rev 47e HPCS Pump HPCS Water Leg Pump Operability
- CPS No. 9051.01D001, Rev 48 HPCS Pump HPCS Water Leg Pump Operability Data Sheet
- CPS No. 5062.04, Rev 27b Alarm Panel 5062 Annunciators – Row 4

**EVALUATOR INSTRUCTIONS:**

- Mark up CPS No. 9051.01, HPCS Pump & HPCS Water Leg Pump Operability up to and including step 8.2.7.1.
- Mark up CPS No. 9051.01D001, HPCS Pump & HPCS Water Leg Pump Operability Data Sheet up to and including any data collected up to step 8.2.7.1.
- Amplifying cues are provided within the JPM steps.
- All pre-job briefings are completed.

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

**INITIAL CONDITIONS:**

You are the Extra RO assuming the shift. CPS 9051.01, HPCS Pump & HPCS Water Leg Pump Operability is in progress. An Equipment Operator is stationed locally at the HPCS Pump and has established communication with the Main Control Room.

**INITIATING CUE:**

Continue performing CPS 9051.01, HPCS Pump & HPCS Water Leg Pump Operability commencing at section 8.2.7.2.

Inform the CRS when section 8.2 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.

**9051.01 HPCS PUMP & HPCS WATER LEG PUMP OPERABILITY**

---

8.2.7.2      Verify HPCS WATER LEG DISCHARGE PRESSURE LOW annunciator 5062-7D is cleared.

Standard:      Observes annunciator 5062-7D is not illuminated.

Cue:

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

---

**\*8.2.7.3      Start HPCS Pump, 1E22-C001.**

Standard:      Operator places control switch for 1E22-C001 to the 'START' position. Verifies RED light ON, GREEN light OFF. Observes HPCS motor current.

Cue:

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

---

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

---

8.2.7.4.1      Observe/perform (Record): Verify 1E22-F012, HPCS Pump Min Flow To Suppr Pool, indicates open.

Standard:      Observes RED light ON, GREEN light OFF for 1E22-F012. Records “SAT” for 1E22-F012 stroking open on the data sheet.

Cue:

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

---

**\*8.2.7.4.2      Alternately slowly throttle open both 1E22-F010 and 1E22-F011, HPCS First and Second Test Vlv To Storage Tank, and increase flow to ~ 5050 gpm as read on Comp Pt HP-DA301.**

Standard:      Places both control switches for 1E22-F010 and 1E22-F011 to the throttle open position.

Cue:              If examinee reports receipt of Annunciator 5062-4D, acknowledge report.

Comments      The suction line will start clogging when HPCS flow exceeds approximately 2000 gpm. HPCS Pump amps and flow will rapidly oscillate.

SAT       UNSAT       Comment Number \_\_\_\_\_

---

Clinton Power Station  
Job Performance Measure (JPM)

**BEGINS ALTERNATE PATH**

**5062-4D, HPCS PUMP SUCTION PRESSURE ABNORMAL**

**NOTE: Steps 1 and 2 may be performed in any order.**

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1. Verify/establish an available HPCS Suction Path (1E22-F001 preferred unless RCIC Tank/Suction Piping is not available) per CPS 3309.01, High Pressure Core Spray (HPCS). Refer to CPS 3309.01 (HPCS) CLOC PRECAUTION criteria.

Standard: Verifies 1E22-F001 is full open.

Cue:

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

---

- \*2 **If HPCS pump is running for testing, and normal suction pressure was not restored by the previous step, trip the HPCS pump.**

Standard: Examinee trips the HPCS Pump using the associated control switch.

Cue: If an operator is dispatched to investigate, cue the examinee that loud ‘surging’ noises are coming from the HPCS Pump.

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

---



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

---

Informs Control Room Supervisor.

Standard: Informs Control Room Supervisor the HPCS was tripped per Annunciator Response Procedure.

Cue: Acknowledge the report. State JPM is complete.

Comments 1.

SAT

UNSAT

Comment Number \_\_\_\_\_

---

**TERMINATING CUES:**

HPCS Pump has been tripped due to loss of suction source.

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



**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:**

- Manually isolates Group 1 Primary Containment Isolation Valves (Main Steam Lines and Drains) per 4001.02C001 Automatic Isolation Checklist or CPS 3101.01 Main Steam (MS, IS & ADS).

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

- None

**PROCEDURAL/REFERENCES:**

- CPS No. 3101.01, Rev 23b MAIN STEAM
- CPS No. 4001.02, Rev 17c AUTOMATIC ISOLATION
- CPS No. 4001.02C001, Rev 16 AUTOMATIC ISOLATION CHECKLIST

**EVALUATOR INSTRUCTIONS:**

- Amplifying cues are provided within the JPM steps.
- All pre-job briefings are completed.
- Prior to reading Initial Conditions and Initiating Cue, place Simulator in RUN.

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

**INITIAL CONDITIONS:**

A Group 1 isolation signal has been received due to low condenser vacuum.

**INITIATING CUE:**

**CAUTION**

- All pre-job briefings are completed.

The CRS has directed you to verify a complete Group 1 isolation.

**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**

**4001.02 Automatic Isolation, 4001.02C001 Automatic Isolation Checklist, CPS 3101.01 Main Steam (MS, IS & ADS) Appendix A: Group 1 Isolation and MSL Drains Usage Hard Card**

**NOTE: The following steps may be performed in any order. The examinee may elect to use the Main Steam, Appendix A Hard Card.**

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
1	Complete CPS 4001.02C001 Automatic Isolation Checklist for Group 1 Valves <u>or</u> CPS 3101.01 App A: Group 1 Isolation And MSL Drains Usage Hard Card.	<p><b>*Examinee takes control switch at 1H13-P601 (5066 / 5067) to shut (red light OFF, green light ON) for:</b></p> <ul style="list-style-type: none"> <li>• 1B21-F022B (fails to close) and / or 1B21-F028B (fails to close) Main Steam Line B Inbd / Outbd MSIV</li> <li>• <b>1B21-F022D and / or 1B21-F028D Main Steam Line D Inbd / Outbd MSIV</b></li> <li>• <b>1B21-F022A and / or 1B21-F028A Main Steam Line A Inbd / Outbd MSIV</b></li> <li>• <b>1B21-F022C and / or 1B21-F028C Main Steam Line C Inbd / Outbd MSIV</b></li> </ul> <p>Note to evaluator – only one valve in each line must be shut to meet the critical step.</p> <p><i>Cue: If the examinee reports that 1B21-F022B and/or 28B have failed to close, acknowledge the report.</i></p> <p><i>Cue: If the examinee asks for guidance, ask the examinee for a recommendation and direct the examinee to proceed as recommended.</i></p>			

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

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	<b>SAT</b>	<b>UNSAT</b>	<b>Comment Number</b>
1 (cont'd)	Complete CPS 4001.02C001 Automatic Isolation Checklist for Group 1 Valves <u>or</u> CPS 3101.01 App A: Group 1 Isolation And MSL Drains Usage Hard Card. (cont'd)	Examinee observes red light OFF and green light ON at 1H13-P601 (5066 / 5067) for each of the following valves: <ul style="list-style-type: none"> <li>• 1B21-F016 Mn Drn &amp; MSIV Byp Inbd Isol Valve</li> <li>• 1B21-F019 Mn Drn &amp; MSIV Byp Outbd Isol Valve</li> <li>• 1B21-F067B MSL B Outbd MSIV Before Seat Drn Vlv</li> <li>• 1B21-F067D MSL D Outbd MSIV Before Seat Drn Vlv</li> <li>• 1B21-F067A MSL A Outbd MSIV Before Seat Drn Vlv</li> <li>• 1B21-F067C MSL C Outbd MSIV Before Seat Drn Vlv</li> </ul>			
<b><u>Begin Alternate Path</u></b>					
2	Isolate the 'B' Main Steam Line	<p><b>*Examinee takes control switch at 1H13-P601-5067 to shut for 1B21-F098B Main Steam Line B Shutoff Valve and verifies red light OFF and green light ON.</b></p> <p>Note to evaluator – Examinee may elect to Arm &amp; Depress CRVICS MANUAL INITIATION push-button(s) (Logic A &amp; D push-buttons and/or Logic B &amp; C push-buttons) on 1H13-P680-5006). These actions will fail to isolate the 'B' Main Steam Line.</p> <p><i>Cue: If the examinee reports that the 'B' MSL has been isolated, acknowledge the report and state, "The JPM is complete".</i></p>			

**TERMINATING CUES:**

Manually isolates Group 1 Primary Containment Isolation Valves (Main Steam Lines and Drains) per 4001.02C001 Automatic Isolation Checklist or CPS 3101.01 Main Steam (MS, IS & ADS).

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



**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 Manual Scram Functional / SDV Hi Level Bypass Test completed.

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

- None

**PROCEDURAL/REFERENCES:**

- CPS 9031.16, Manual Scram Functional / SDV Hi Level Bypass Test, Rev. 31a

**EVALUATOR INSTRUCTIONS:**

- Amplifying cues are provided within the JPM steps.
- All pre-job briefings are completed.
- Provide the examinee with the following items:
  - A copy of the Initial Conditions and Initiating Cue page (back page of the JPM) when providing the initiating cue.
  - Copy of the OD-7 printout obtained during simulator setup.



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

**INITIAL CONDITIONS:**

You are an extra RO in the MCR.

The plant is in Mode 1.

All Prerequisites for CPS 9031.16, Manual Scram Functional / SDV Hi Level Bypass Test have been completed.

'A' and 'B' Scram Solenoid Temperatures on all withdrawn control rods have been verified > ambient temperature locally.

An SRO is available and stationed to provide TT data when requested.

**INITIATING CUE:**

**CAUTION**

- All pre-job briefings are completed.

Perform CPS 9031.16, Manual Scram Channel Functional / SDV Hi Level Bypass Test for Division 1, beginning at Step 8.1.3.

Report to the CRS after completing the task.

**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 9031.16, Manual Scram Channel Functional / SDV Hi Level Bypass Test**  
**8.1 Division 1 Manual Scram Functional Test**

---

**\*8.1.3 Place Div 1 MANUAL SCRAM switch collar in ARM.**

Standard: At 1H13-P680-5004, the examinee rotates the Div 1 MANUAL SCRAM switch collar to the "ARM" position.

Cue: If the examinee reports receipt of expected annunciator 5004-2E, acknowledge the report.

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

---

**8.1.4 Verify annunciator DIV 1 OR 4 MAN SCRAM SW ARMED [5004-2E] alarming.**

Standard: At 1H13-P680-5004, the examinee verifies annunciator 5004-2E DIV 1 OR 4 MAN SCRAM SW ARMED is alarming.

Cue: If the examinee reports receipt of expected annunciator 5004-2E, acknowledge the report.

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

---

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

---

**\*8.1.5 Momentarily depress Div 1 MANUAL SCRAM pushbutton.**

Standard: At 1H13-P680-5004, the examinee momentarily depresses the Div 1 MANUAL SCRAM pushbutton.

Cue: If the examinee reports receipt of annunciators 5002-2P, 5004-1A, 5004-1E and/or 5009-5B, acknowledge the report.

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

---

- 8.1.6 Verify following status lights not lit.
1. Div 1 SCRAM SOL ENERGIZED A
  2. Div 2 SCRAM SOL ENERGIZED B
  3. Div 3 SCRAM SOL ENERGIZED B
  4. Div 4 SCRAM SOL ENERGIZED A

Standard: At 1H13-P680-5004 & 5005, the examinee verifies the listed Scram Solenoid status lights are OFF:

1. Div 1 SCRAM SOL ENERGIZED A
2. Div 2 SCRAM SOL ENERGIZED B
3. Div 3 SCRAM SOL ENERGIZED B
4. Div 4 SCRAM SOL ENERGIZED A

Cue:

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

---

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

8.1.7 Verify Div 1 RESET PERMISSIVE status light lit (after ~ 10 sec).

Standard: At 1H13-P680-5004, the examinee verifies the Div 1 RESET PERMISSIVE status light is ON (approximately 10 seconds after the Div 1 Manual Scram pushbutton was released).

Cue:

Comments The time component (~ 10 sec) is not meant to be measured. It is only there as a guide for the operator to know that the change in state of the status light will be delayed.

SAT           UNSAT           Comment Number \_\_\_\_\_

8.1.8 Verify following annunciators alarming.  
1. DIV 1 HALF SCRAM IA, IIB, IIIB, IVA [5004-1A]  
2. DIV 1 MANUAL SCRAM TRIP [5004-1E]  
3. RX WTR LVL CONT SYS ALARM [5002-2P](FW-MAN-SCRAM-IN1 input)

Standard: At 1H13-P680-5004, the examinee verifies Annunciators 5004-1A, 5004-1E and 5002-2P in alarm.

Cue:

Comments

SAT           UNSAT           Comment Number \_\_\_\_\_

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

- 8.1.9 Verify following computer points TRIPPED.
1. C71DC013, MAN SCRAM TRIP SYS 1/4
  2. C71NC005, MANUAL SCRAM DIV 1 OR 4
  3. C71NC029, 1/2 SCRM IA, IIB, IIIB, IVA

Standard: At 1H13-P680-5009, the examinee pulls up computer points C71DC013, C71NC005, and C71NC029 and verifies they indicate tripped.

Cue:

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

- 8.1.10 Verify TT Channel 286 (SCRAMD1) tripped (~ +5 vdc).

Standard: Examinee verifies that TT Channel 286 (SCRAMD1) is reading ~ +5 vdc.

Cue: Cue the examinee that TT Channel 286 is reading +5 vdc.

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

**\*8.1.11 Momentarily depress Div 1 SCRAM RESET pushbutton.**

Standard: At 1H13-P680-5004, the examinee momentarily depresses the Div 1 SCRAM RESET pushbutton.

Cue: If examinee announces that 5002-2P, 5004-1A and 5004-1E are reset, acknowledge the examinee.

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

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

---

8.1.12 Verify DIV 1 RESET PERMISSIVE status light not lit.

Standard: At 1H13-P680-5004, the examinee verifies the DIV 1 RESET PERMISSIVE status light is OFF.

Cue:

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

---

8.1.13 Verify following annunciators reset.  
1. DIV 1 HALF SCRAM IA, IIB, IIIB, IVA [5004-1A]  
2. DIV 1 MANUAL SCRAM TRIP [5004-1E]  
3. RX WTR LVL CONT SYS ALARM [5002-2P](FW-MAN-SCRAM-IN1 input)

Standard: At 1H13-P680-5004, the examinee verifies annunciators 5004-1A, 5004-1E and 5002-2P are reset.

Cue: If examinee announces that 5002-2P, 5004-1A and 5004-1E are reset, acknowledge the examinee.

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

---

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

---

- 8.1.14 Verify following computer points RESET.
1. C71DC013, MAN SCRAM TRIP SYS 1/4
  2. C71NC005, MANUAL SCRAM DIV 1 OR 4
  3. C71NC029, 1/2 SCRM IA, IIB, IIIB, IVA

Standard: At 1H13-P680-5009, the examinee pulls up computer points C71DC013, C71NC005, and C71NC029 and verifies they indicate RESET.

Cue:

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

---

---

- 8.1.15 Verify TT Channel 286 (SCRAMD1) reset (~ -5 vdc).

Standard: Examinee verifies that TT Channel 286 (SCRAMD1) is reading ~ -5 vdc.

Cue: Cue the examinee that TT Channel 286 is reading -5 vdc.

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

---

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

---

**\*8.1.16 Place Div 1 MANUAL SCRAM switch collar in D-ARM.**

Standard: At 1H13-P680-5004, the examinee places Div 1 MANUAL SCRAM switch collar in D-ARM.

Cue: If examinee reports that annunciator 5004-2E has reset, acknowledge the report.

Cue the examinee that Independent Verification (IV) of step 8.1.17 has been completed.

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

---

**8.1.17 Verify annunciator DIV 1 OR 4 MAN SCRAM SW ARMED [5004-2E] reset.**

Standard: At 1H13-P680-5004, the examinee verifies annunciator DIV 1 OR 4 MAN SCRAM SW ARMED [5004-2E] is reset.

Cue: If examinee reports that annunciator 5004-2E has reset, acknowledge the report.

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

---



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

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8.1.18 For all 145 HCUs, verify Scram Inlet/Scram Outlet valves in closed position (green LED not lit) as indicated by RC&IS.

Standard: On 1H13-P680-5004A, the examinee depresses the SCRAM VALVES pushbutton on the Display Selection Section of the Operator Control Module (OCM) and verifies that the Green LEDs are OFF for all 145 Scram Inlet/Scram Outlet Valves on the Full Core Map.

Cue:

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

---

8.1.19 Verify with new OD-7 or 3D monicore (printout or on CRT) that current rod positions are identical to rod positions obtained prior to start of test. If any rod position different, immediately notify SMngt.

Standard: Examinee obtains current OD-7 and verifies rod positions are identical to those on the initial OD-7 provided at the beginning of the JPM.

Cue:

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

---

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

---

- 8.1.20 Verify following status lights lit.
1. Div 1 SCRAM SOL ENERGIZED A
  2. Div 1 SCRAM SOL ENERGIZED B
  3. Div 2 SCRAM SOL ENERGIZED A
  4. Div 2 SCRAM SOL ENERGIZED B
  5. Div 3 SCRAM SOL ENERGIZED A
  6. Div 3 SCRAM SOL ENERGIZED B
  7. Div 4 SCRAM SOL ENERGIZED A
  8. Div 4 SCRAM SOL ENERGIZED B

Standard: At 1H13-P680-5004 & 5005, the examinee verifies the above listed Scram Solenoid status lights are ON.

Cue: Cue the examinee that Independent Verification (IV) has also been completed for step 8.1.22.

When the examinee has completed step 8.1.22, inform him/her that the JPM is complete.

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

---

**TERMINATING CUES:**

The Division 1 Manual Scram Functional Test is complete IAW CPS No. 9031.16 Manual Scram Channel Functional/SDV Hi Level Bypass Test.

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

## CLINTON POWER STATION

### Job Performance Measure

Startup the Control Room Ventilation System (VC) in the High Radiation Mode

JPM Number: JPM504

Revision Number: 01

Date: 06/26/2015

<b>Developed By:</b>	<u>W. D. Kiser</u>	<u>06/26/15</u>
	<b>Instructor</b>	<b>Date</b>
<b>Validated By:</b>	<u>/s Mike Antonelli</u>	<u>7/16/15</u>
	<b>SME or Instructor</b>	<b>Date</b>
<b>Reviewed By:</b>	_____	_____
	<b>Operations Representative</b>	<b>Date</b>
<b>Approved By:</b>	_____	_____
	<b>Training Department</b>	<b>Date</b>

**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 “A” VC System is running in the High Radiation Mode with Minimum Outside Air Damper 0VC01YA OPEN.

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

- None

**PROCEDURAL/REFERENCES:**

- CPS No. 3402.01 Rev. 29, CONTROL ROOM HVAC (VC)
- CPS No. 5050.07 Rev. 33, ALARM PANEL 5050 ANNUNCIATORS - ROW 7
- CPS No. 5052.07 Rev. 33e, ALARM PANEL 5052 ANNUNCIATORS - ROW 7
- CPS No. 5050.02 Rev. 34, ALARM PANEL 5050 ANNUNCIATORS - ROW 2
- CPS No. 5050.08 Rev. 31b, ALARM PANEL 5050 ANNUNCIATORS - ROW 8

**EVALUATOR INSTRUCTIONS:**

- Amplifying cues are provided within the JPM steps.
- All pre-job briefings are completed.
- Ensure a blank copy of CPS 3402.01 Control Room HVAC (VC) is available to provide to the examinee during performance of the JPM.
- THIS IS A TIME CRITICAL JPM. VC train A must be placed in high rad mode within 20 minutes of receipt of annunciators 5050-7M and 5052-7M. After the examinee has acknowledged the task, mark the start time.
- When the examinee has completed step 8.3.3.8, mark the stop time. Ensure the lapsed time does not exceed 20 minutes. If this time limit is exceeded, the JPM is unsatisfactory.

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

**INITIAL CONDITIONS:**

You are the B RO. The plant is operating at power.

**INITIATING CUE:**

**CAUTION**

- All pre-job briefings are completed.

**THIS JPM IS TIME CRITICAL.**

You have just received annunciators 5050-7M HI RADIATION CONT RM HVAC SYS DIVISION 1 and 5052-7M HI RADIATION CONT RM HVAC SYS DIVISION 2. Respond to annunciators as appropriate.

**Evaluator Note:**

**After the examinee has acknowledged the task, mark the start time.**

**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 5050.07/5052.07 ALARM PANEL 5050/5052 ANNUNCIATORS - ROW 7**

---

- 1. Initiate/verify initiated VC High Radiation MODE on the operating VC Train per CPS 3402.01, Control Room HVAC (VC).

Standard: Examinee proceeds to CPS 3402.01, Control Room HVAC (VC).

Cue:

Comments When candidate locates CPS 3402.01, provide him/her with a blank exam copy.

SAT       UNSAT       Comment Number \_\_\_\_\_

---

**CPS 3402.01 Control Room HVAC (VC)**

---

- 8.3.3.1 IF Manual Initiation of a High Radiation Isolation is required,  
THEN Depress both Cont Rm Mu Trn Hi Rad initiation push-buttons.

Standard: On P801-5050 and 5052, either depresses both Cont Rm Mu Trn Hi Rad initiation push-buttons or verifies red light above pushbutton is lit.

Cue:

Comments The operating VC train will not shift to High Rad Mode.

SAT       UNSAT       Comment Number \_\_\_\_\_

---

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

---

- 8.3.3.2 Verify Supply Air Trn A un-isolates as follows:
- 1) 0VC09YA, Sply Air Trn A Filt Inlet Dmpr opens.
  - 2) 0VC10YA, Sply Air Trn A Filt Byp Dmpr closes.
  - 3) 0VC11YA, Sply Air Trn A Filt Outlet Dmpr opens.

Standard: Determines the Supply Air Trn A is still isolated

Cue:

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

---

- \*8.3.3.2 IF      Supply Air Trn A did not unisolate,  
THEN      Place Sply Air Fltr Dmprs 0VC09YA/10YA/11YA  
                 control switch in the FILTER position and repeat 8.3.3.1 and 2.**

Standard: Examinee verifies damper lights for 0VC09YA and 0VC11YA indicate OPEN (red light ON, green light OFF) and damper light for 0VC10YA indicates CLOSED (red light OFF, green light ON).

Cue:

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

---

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

---

8.3.3.1 IF Manual Initiation of a High Radiation Isolation is required,  
THEN Depress both Cont Rm Mu Trn Hi Rad initiation push-buttons.

Standard: On P801-5050 and 5052, either depresses both Cont Rm Mu Trn Hi Rad initiation push-buttons or verifies red light above pushbutton is lit.

Cue:

Comments No plant response expected.

SAT  UNSAT  Comment Number \_\_\_\_\_

---

---

8.3.3.2 Verify Supply Air Trn A un-isolates as follows:  
1) 0VC09YA, Sply Air Trn A Filt Inlet Dmpr opens.  
2) 0VC10YA, Sply Air Trn A Filt Byp Dmpr closes.  
4) 0VC11YA, Sply Air Trn A Filt Outlet Dmpr opens.

Standard: Examinee verifies damper lights for 0VC09YA and 0VC11YA indicate OPEN (red light ON, green light OFF) and damper light for 0VC10YA indicates CLOSED (red light OFF, green light ON).

Cue:

Comments

SAT  UNSAT  Comment Number \_\_\_\_\_

---



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

---

8.3.3.3 Verify running/start 0VC05CA, Cont Rm HVAC A MU Air Fan.

Standard: Examinee verifies 0VC05CA, Cont Rm HVAC A MU Air Fan is running (red light ON, green light OFF).

Cue:

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

---

---

8.3.3.4 Verify the following dampers open:  
1) 0VC02YA, Cont Rm Trn A MU Air Dmpr.  
2) 0VC06YA, Cont Rm MU Trn A Outlet Dmpr.  
3) Verify 0VC114YA, Cont Rm MU Trn A Flow Cont Dmpr modulates.

Standard: Examinee verifies damper lights for 0VC02YA and 0VC06YA indicate OPEN (red light ON, green light OFF) and damper lights for 0VC114YA indicates modulating (red light ON, green light ON).

Cue:

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

---

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

---

- 8.3.3.6 Verify the following dampers close:
- 1) 0VC03YA, Cont Rm Trn A Min OS Dmpr.
  - 2) 0VC05YA, MCR Max Intake & Purge Dmpr.
  - 3) 0VC48YA, MCR Max Intake & Purge Dmpr.
  - 4) 0VC49YA, MCR Max Intake & Purge Dmpr.
  - 5) 0VC81YA, MCR Max Intake & Purge Dmpr.
  - 6) 0VC115YA, Cont Rm Trn A Min OS Dmpr.
  - 7) 0VC69Y, MCR Locker Rm Exhaust Dmpr.
  - 8) 0VC70Y, MCR Locker Rm Exhaust Dmpr.
  - 9) 0VC11C, MCR Locker Rm Exhaust Fan is not running

Standard: Examinee verifies damper lights for 0VC03YA, 0VC05YA, 0VC48YA, 0VC49YA, 0VC81YA, 0VC115YA, 0VC69Y, and 0VC70Y indicate CLOSED (red light OFF, green light ON).  
Examinee verifies 0VC11C, MCR Locker Rm Exhaust Fan is not running (red light OFF, green light ON).

Cue:

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

---

- 8.3.3.7 0VC01YA(B), Cont Rm Trn A(B) Min Air Dmpr is located on the east (west) side of the plant.  
Use the following table to quickly locate monitors and indicators to aid in completion of the remaining steps in section 8.3.3.

Standard: Examinee determines that higher radiation condition exists on the WEST side.

Cue:

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

---

Clinton Power Station  
Job Performance Measure (JPM)

---

**\*8.3.3.8** **IF** A high radiation condition exists as indicated by OS Air Inlet Rad Mon on P801-66B and 67B,

**THEN**

1. Open/verify open the minimum air damper with the lowest radiation level (0VC01YA).
2. Shut/verify shut the other minimum air damper (0VC01YB).

Standard: Examinee verifies 0VC01YA is OPEN (red light ON, green light OFF) and closes 0VC01YB (red light OFF, green light ON).

Cue:

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

---

**TERMINATING CUES:**

The VC System is running in the High Radiation Mode with Minimum Outside Air Damper 0VC01YA OPEN and 0VC01YB SHUT.

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



**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:**

- Manually Transfer of Distribution Load Panel Loads (NSPS Solenoid) (RPS) FROM Alternate Power TO the Inverter IAW CPS 3509.01, Rev 021, INSTRUMENT POWER SYSTEM (IP).

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

- None

**PROCEDURAL/REFERENCES:**

- CPS 3509.01, Rev 021, INSTRUMENT POWER SYSTEM (IP)

**EVALUATOR INSTRUCTIONS:**

- Amplifying cues are provided within the JPM steps.
- Provide examinee the procedure.
- Do NOT allow examinee to shine any type light into a panel.
- All pre-job briefings are completed.
- Provide examinee with a marked up copy of CPS 3509.01 INSTRUMENT POWER SYSTEM (IP) showing step 8.3.6 in progress (step 8.3.6.1, 8.3.6.2 complete and 8.3.6.3 circled).

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

**INITIAL CONDITIONS:**

- Plant is in Mode 1.
- RPS Solenoid Inverter “A” has just been restored from a short maintenance period.
- The RPS Solenoid Inverter “A” has been energized per Section 8.3.6 steps 1 and 2. It is now desired to transfer the Dist. Panel loads back to the inverter per step 8.3.4.
- MSIV solenoid currents have been verified normal (solenoids are reset).
- The A and B solenoids for each Control Rod have been verified energized.

**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.

You are directed to manually Transfer Distribution Panel loads for RPS Solenoid Bus “A” FROM Alternate Power TO the Inverter per 3509.01, section 8.3.4.

**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 3509.01, Instrument Power System (IP)**

**8.3.4 Manual Transfer of Distribution Panel Loads**

**(NSPS Solenoid) (RPS) FROM Alternate Power TO the Inverter**

8.3.4.1 Verify LOSS OF SYNC lamp not illuminated.

Standard: At RPS Solenoid Inverter “A” verifies the loss of sync lamp is not illuminated.

Cue: If loss of sync lamp is illuminated, provide cue “Loss of sync lamp is not illuminated”.

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

8.3.4.2 **IF** MSIVs are open, **THEN** Verify MSIV solenoids are reset using ammeters in NSPS Panels 1H13-P661 and P662.

Standard: Verifies MSIV Solenoids are reset.

Cue: If examinee request status of MSIV Solenoids from the B RO, report “MSIV Solenoids are reset”.

Comments Stated in the initial conditions all solenoids were reset.

SAT       UNSAT       Comment Number \_\_\_\_\_

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

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8.3.4.3 Check A and B solenoids for each control rod to ensure they are energized prior to transferring sources (provided adequate time is available for the check).

Standard: Ensures all control rods A and B solenoids are energized.

Cue:

Comments Stated in the initial conditions all solenoids were energized.

SAT       UNSAT       Comment Number \_\_\_\_\_

---

**\*8.3.4.4 Place TRANSFER SWITCH to INVERTER.**

Standard: At RPS Solenoid Inverter “A”, rotates Transfer Switch to INVERTER position.

Cue: Component is in the position you’ve described.

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

---

8.3.4.5 Push and then release Power Monitor RESET push-button.

Standard: At RPS Solenoid Inverter “A”, pushes then releases Power Monitor Reset push button.

Cue: Component is in the position you’ve described.

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

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

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8.3.4.6 Verify power monitor alarms are out.

Standard: At RPS Solenoid Inverter “A” power monitor, verifies alarms are out (Over/Under Freq and Over/Under Voltage lights).

Cue: If power monitor lights are illuminated, provide cue “Over/Under Freq” and/or “Over/Under Voltage lights are not illuminated”.

Comments

SAT           UNSAT           Comment Number \_\_\_\_\_

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**\*8.3.4.7 Place 120 VAC OUTPUT BKR, CB-3 to ON.**

Standard: At RPS Solenoid Inverter “A”, places 120 vac Output Bkr, CB-3, to ON.

Cue: Component is in the position you’ve described.

Comments

SAT           UNSAT           Comment Number \_\_\_\_\_

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8.3.4.8 **IF** SMngt or NSED recommends, **THEN** At 1C71-S005A(B), NSPS Sol Pwr Bypass Regul Xfmr: Place AC INPUT (POWER) Bkr to OFF (down).

Standard: Leaves the Bypass Regul Transformer energized and in standby or asks the MCR for direction on what status to leave the Bypass Regul Transformer in.

Cue: If requested, as the MCR direct the operator to leave the Bypass Regul Transformer energized and in standby. DO NOT turn the AC Input Bkr to OFF.

Comments

SAT           UNSAT           Comment Number \_\_\_\_\_

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

**TERMINATING CUES:**

CPS 3509.01, Instrument Power System (IP), Section 8.3.4 complete.

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



**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:**

- Div 2 LPCI is injecting to the RPV.

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

- None

**PROCEDURAL/REFERENCES:**

- CPS No. 4003.01C011, Rev 1a RSP – Div 2 LPCI Operation

**EVALUATOR INSTRUCTIONS:**

- Amplifying cues are provided within the JPM steps.
- Provide examinee the procedure.
- 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:**

A plant transient has occurred.

The plant is shutdown with High Pressure Core Spray and Reactor Core Isolation Cooling inoperable. 4160V Bus 1A1 has de-energized due to a fault. Automatic Depressurization System was activated due to Reactor Coolant leak into the Secondary Containment. The Main Control Room had to be abandoned due to a major fire.

You are an Extra Operator.

**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.

Inject into the RPV using CPS 4003.01C011, RSP – Div 2 LPCI Operation Section 4.0, DIV 2 LPCI STARTUP.

The Remote Shutdown Panel (RSP) is manned and an additional Operator has been dispatched to AB 707' to support you as required.

Report to the CRS when Div 2 LPCI is injecting to the RPV.

**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 4003.01C011, Rev 1a RSP – Div 2 LPCI Operation**

**EVALUATOR NOTE:** Do NOT allow the Examinee to remove items from the RSP supply podium. Cue the examinee that required items are in the examinee’s possession.

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
1	Open 1E12-F004B, RHR PUMP 1B SUCT VLV.	<b>*4.1</b> At AB MCC 1B2 Cub 5C (1AP76E5C), AB 781’ West, Examinee moves the key operated switch for 1E12-F004B, RHR PUMP 1B SUCT VLV to “OPEN”.			
2	Start RHR PUMP 1B, 1E12-C002B.	<b>*4.2</b> At 4160V Bus 1B1 Cub D (1AP09ED), AB 781’ West, Examinee moves the REMOTE SHUTDOWN CIRCUIT BREAKER CONTROL handswitch to “CLOSE”.			

**EVALUATOR NOTE:** For the following steps, cues will be provided when requested from the Operator who was dispatched to AB 707’. Steps 4.4.1 and 4.4.2 may be performed more than once.

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

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
3	Verify RHR PUMP ROOM 1B SUPPLY FAN, 1VY06C starts.	4.3 Examinee contacts the Operator in AB 707' and requests status of 1VY06C.  <i>Cue: 1VY06C is running.</i>			
4	Monitor pump/system parameters.	4.4.1 Examinee contacts the Operator in AB 707' and requests RHR B pump ΔP.  <i>Cue: RHR pump ΔP is 374 psid.</i>			
		4.4.2 Examinee determines proper operation of 1E12-F064B, RHR PUMP 1B MIN FLOW VLV indication (red light ON, green light OFF).  <i>Cue: If requested, red light is ON and green light is OFF.</i>			
<b>EVALUATOR NOTE: For the following step, cue for RPV pressure will be provided when requested from the Operator at the RSP.</b>					

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

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
5	<p><b>WHEN</b> RPV pressure &lt; 472 psig, <b>THEN</b> Open 1E12-F042B, RHR PUMP 1B LPCI CNMT VLV.</p>	<p><b>*4.5</b> Examinee contacts the Operator at the RSP and requests RPV pressure.</p> <p><i>Cue: RPV pressure is 250 psig and lowering.</i></p> <p><b>At AB MCC 1B3 Cub 8C (1AP77E8C), AB 781' West, Examinee moves the switch for 1E12-F042B, RHR PUMP 1B LPCI CNMT VLV to "OPEN".</b></p> <p><i>Cue: Red light is ON and green light is OFF.</i></p>			



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

**TERMINATING CUES:**

Div 2 LPCI is injecting to the RPV IAW CPS No. 4003.01C011 RSP – Div 2 LPCI Operation.

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



**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:**

- Place an IA Ring Header Automatic Isolation Valve Into Service IAW CPS No. 3214.01 rev. 26d, PLANT AIR (IA & SA).

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

- None

**PROCEDURAL/REFERENCES:**

- CPS No. 3214.01 rev. 26d, PLANT AIR (IA & SA).

**EVALUATOR INSTRUCTIONS:**

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

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

**INITIAL CONDITIONS:**

You are an extra Operator.

The Control Building IA ring header has automatically isolated due to a leak on the Radwaste Building ring header. The leak has been subsequently repaired.

**INITIATING CUE:**

**CAUTION**

- All pre-job briefings are completed.
- No equipment or controls will be manipulated during this evaluation, only **Simulated** Actions will occur.

Restore the Control Building IA ring header to service in accordance with CPS No. 3214.01, PLANT AIR (IA & SA), section 8.2.1.5, by supplying air from the Aux/Fuel Building IA Ring Header.

Inform the MCR 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**

**CPS 3214.01, PLANT AIR (IA & SA)**

**8.2.1.5 Repressurizing the Isolated Ring Header (Refer to Table 2, pg 29 and Figure 1, pg 30)**

**\*8.2.1.5.1 Slowly open one or both of the auto isolation valve bypasses as necessary, and slowly repressurize the ring header.**

Standard: Locates and simulates operating (slowly per caution) 1IA024, Auto Isolation Bypass. Turns handwheel in the CCW direction until resistance is felt in the open position.

Cue: Pressure indicator 1PI-IA055 shows an increasing pressure (1PI-IA055 is on left hand side if facing the Aux Bldg).

Comments 1IA024 and 1IA022 are just west of the CCW Expansion Tank.

SAT           UNSAT           Comment Number \_\_\_\_\_

8.2.1.5.2 Wait until the isolated ring header pressure is 70 psig or above and equalized across the auto isolation valves.

Standard: Operator locates pressure gages and verifies pressure has equalized.

Cue: 

- After several seconds - 1PI-IA055 reads nearly the same pressure as indicated on 1PI-IA054.
- If requested, flow noise has died off to near nothing.
- If requested, Low Pressure Control Building IA Ring Header annunciator has cleared.

Comments

SAT           UNSAT           Comment Number \_\_\_\_\_

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

**\*8.2.1.5.3 Return the Latch/Unlatch lever arm to the Latch Position.**

Standard: Operator locates and simulates moving the lever to the latch position for 11A022.

Cue: Lever arm is latched and holding.

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

**8.2.1.5.4 Verify the auto isolation valve opens.**

Standard: Operator locates 11A022 and observes valve position indication to verify open.

Cue: Component is in the position described.

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

**\*8.2.1.5.5 Close or check closed the auto isolation valve bypasses.**

Standard: Operator locates and simulates turning 11A024 handwheel clockwise until it stops turning.

Cue: 11A024 handwheel stops moving.

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

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

8.2.1.5.6 Restore air loads as necessary.

Standard: Operator inquires if there are any loads that need to be restored at this time.

Cue: No further loads are required to be placed in service.

Comments

SAT       UNSAT       Comment Number \_\_\_\_\_

**TERMINATING CUES:**

The Control Building IA ring header is being supplied by air from the Aux/Fuel Building IA Ring Header.

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