

CLINTON POWER STATION

Job Performance Measure

Equalize Around and Open MSIVs per CPS No. 4411.09

JPM Number: 4411.0901

Revision Number: 01

Date: 7/8/03

Developed By: T. Pickley 7/8/03
Instructor Date

Validated By: J. Anderson 10/17/03
SME or Instructor Date

Review By: P. K. Ryan 7/28/03
Operations Representative Date

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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

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

SME/Instructor

Date

SME/Instructor

Date

SME/Instructor

Date

CLINTON POWER STATION
SYSTEM JPM

JPM NUMBER: 4411.0901

REVISION: 01

Revision Record (Summary)

1. **Revision 01,** Reformatted from 15200J07

CLINTON POWER STATION
SYSTEM JPM

JPM NUMBER: 4411.0901

REVISION: 01

Operator's Name: _____ SSN: _____
Job Title: NLO RO SRO STA SRO Cert

JPM Title/Number: Equalize Around and Open MSIVs per CPS No. 4411.09

Revision Number: 01

Task Number and Title: 441109.01, Complete control room actions to perform RPV pressure control sources using normal system lineup/operation

Suggested Testing Environment: Simulator

Actual Testing Environment: Simulator Plant Control Room

Testing Method: Simulate Perform **Faulted:** No Yes
Alternate Path: No Yes

Time Critical: No Yes

Estimated Time to Complete: 30 minutes **Actual Time Used:** _____ minutes

References: CPS No. 4411.09 RPV PRESSURE CONTROL SOURCES

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: _____

Evaluator's Signature: _____ Date: _____

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READ TO THE OPERATOR

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

SIMULATOR SET-UP CONDITIONS:

Reset to a shutdown IC, at ~300 psig with a vacuum pump, CW in operation and Main Turbine reset, then:

- 1) Close the Inboard MSIVs
- 4) Depressurize equalizing header with BPV jack to ~50 psig
- 5) Set pressure set at >315 psig

TASK STANDARDS:

Operator actions performed per CPS No. 4411.09

TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

None

PROCEDURAL/REFERENCES:

CPS No. 4411.09 RPV PRESSURE CONTROL SOURCES

EVALUATOR INSTRUCTIONS:

Amplifying cues are provided within the JPM steps.

INITIAL CONDITIONS AND INITIATING CUE:

A loss of IA resulted in closure of the Inbd. MSIVs. IA has been recovered. EOP-1 has been entered and to assist in RPV pressure control you are directed to reopen the Inbd. MSIVs per CPS No. 4411.09.

START TIME: _____

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3. Regardless if Circ Water (CW) is available or not:
 1) Establish vacuum per CPS 3112.01, Condenser Vacuum (CA), or
 2) If vacuum cannot be established, open 1CA007, Condenser Vacuum Breaker Valve.

Standard Determines that Condenser vacuum is already established.

CUE

Comments

SAT UNSAT Comment Number

4. Verify/set pressure set at least 15 psig > RPV pressure to prevent inadvertent BPV operation.

Standard Verifies that the pressure at least 15 psig > RPV pressure or adjusts as needed.

CUE

Comments

SAT UNSAT Comment Number

5. Shut/verify shut:
 1) 1B21-F022B(D, A, C), Main Steam Line B (D, A, C) Inbd MSIV.
 2) 1B21-F016, MS Drn & MSIV Byp Inbd Isol Valve.
 3) 1B21-F019, MS Drn & MSIV Byp Outbd Isol Valve.
 4) 1B21-F020, MSIV Byp Vlv For MS Line Warm Up.

Standard 1) 1B21-F022B(D, A, C), are verified shut (Green lights on)
 2) 1B21-F016, F019 and F020, are verified shut (Green lights on)

CUE

Comments

SAT UNSAT Comment Number

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6. Open/verify open:
 1) 1B21-F098B(D, A, C), Main Steam Shutoff Valves.
 2) 1B21-F028B(D, A, C), Main Steam Line Outbd MSIVs.

Standard 1B21-F098B(D, A, C) and 1B21-F028B(D, A, C) are verified open (red lights on)

CUE

Comments

SAT UNSAT Comment Number

- *7. Equalize around the Inbd MSIVs (F022s) to establish a $\Delta P \leq 200$ psid across the MSIVs by opening:**
1) 1B21-F016, MS Drn & MSIV Byp Inbd Isol Valve.
2) 1B21-F019, MS Drn & MSIV Byp Outbd Isol Valve.
3) 1B21-F020, MSIV Byp Vlv For MS Line Warm Up.

Standard Opens 1B21-F016, 1B21-F019 and 1B21-F020

CUE

Comments

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? OK to shut following drains to assist in the dP attempt.

- o 1B21-F015, MS Low Points Drn Shutoff Valve.
- o 1B21-F021, Inbd MSIV Before Seat Warmup Drn Valve.
- o 1B21-F033, Inbd MSIV Before Seat Warmup Drn Valve.
- o 1B21-F068, Outbd MSIV Before Seat Warmup Drn Vlv.
- o 1B21-F069, Outbd MSIV Before Seat Norm Drn Vlv.
- o 1B21-F070, MS Low Point Warm Up Drn Vlv.
- o 1B21-F071, MS Low Point Normal Drn Vlv.
- o 1TD-SV1(3,5,7), Mn Turb Stop Vlv #1(2,3,4) Drn Vlv.

Standard Shuts the drains as needed

CUE

Comments

SAT UNSAT Comment Number

8. Re-verify pressure set at least 15 psig > RPV pressure to prevent inadvertent BPV operation when Inbd F022s open.

Standard Verifies that the pressure at least 15 psig > RPV pressure.

CUE

Comments

SAT UNSAT Comment Number

- *9. When < 200 psid dP is achieved, open 1B21-F022B(D, A, C), Main Steam Line B (D, A, C) Inbd MSIVs.**

Standard The Inboard MSIVs are open

CUE

Comments

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STOP TIME: _____

TERMINATING CUES:

The inboard MSIVs are open.

K/A REFERENCE NUMBERS

Importance Rating

K/A SYSTEM NUMBER

K/A NUMBER

RO

SRO

239001

A4.01

4.2*

4.0

A4.02

3.2

3.2

A4.07

3.3

3.3

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INITIATING CUE

A loss of IA resulted in closure of the Inbd. MSIVs. IA has been recovered. EOP-1 has been entered and to assist in RPV pressure control you are directed to reopen the Inbd. MSIVs per CPS No. 4411.09.