

CLINTON POWER STATION

Job Performance Measure

Reset a Recirc Flow Control Valve Lockout

JPM Number: JPM110

Revision Number: 00

Date: 02/25/09

Developed By: Tom Pickley 02/25/09

Instructor Date

Validated By: T. French 7/1/2009

SME or Instructor Date

Reviewed By: J. Lucas 7/1/2009

Operations Representative Date

Clinton Power Station Job Performance Measure (JPM)

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

NOTE:	All steps of this checklist should be performed upon initial validation. Prior to JPM usage, revalidate JPM using steps 8 through 11 below.								
	_ 1.	Task description and number, JPM description and number are identified.							
	_ 2.	Knowledge and Abilities (K/A) references are included.							
	3. Performance location specified. (in-plant, control room, or simulat								
	_ 4.	Initial setup conditions are identified.							
	_ 5.	Initiating and terminating cues are properly identified.							
	_ 6.	Task standards identified and verified by SME review.							
	_ 7.	Critical steps meet the criteria for critical steps and are identified with an asterisk (*).							
	_ 8.	Verify the procedure referenced by this JPM matches the most current revision of that procedure:							
		Current Procedure Rev Date:							
		Procedure Rev. Referenced Date:							
		• If the Current Procedure Rev. and the Procedure Rev. Referenced are different then revise the JPM.							
	_ 9.	Pilot test the JPM:							
		a. verify cues both verbal and visual are free of conflict, andb. 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							
	SN	ME/Instructor Date							
	SN	ME/Instructor Date							
	SN	ME/Instructor Date							

Clinton Power Station Job Performance Measure (JPM)

Revision Record (Summary)

Revision	Date	Description
00	02/25/09	Converted from old JPM

Clinton Power Station Job Performance Measure (JPM)

Simulator Setup Instructions

1. Any power IC with Recirc in operation.

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

- 2. Manually lockout the B Recirc Flow Control Valve.
- 3. Lower the Flow Controller output to cause a 3% Servo Error.
- 4. When the above steps are completed for this and other JPMs to be run concurrently, then validate the concurrently run JPMs if applicable.
- 5. This completes the setup for this JPM.

Clinton Power Station Job Performance Measure (JPM)

READ TO THE OPERATOR

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

TASK STANDARDS:

• B FCV lockout is reset IAW CPS No.3302.01 Reactor Recirculation.

TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

None

PROCEDURAL/REFERENCES:

CPS 3302.01, Rev. No. 30a Reactor Recirculation

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:	
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You are the A CRO. The plant is operating at power. The B Recirc Flow Control Valve was manually locked out to perform maintenance. The maintenance is complete. Positive plant control has been verified. No adjustment of the FCV will be needed after the lockout is reset.

INITIATING CUE:

CAUTION

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

Reset the Flow Control Valve lockout per 3302.01.

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 3302.01, Reactor Recirculation										
1	8.4.1.1 Maintain steady state power and balanced recirc loop flows, if possible, by adjusting the operable FCV.									
Standard:	Examinee verifies FCV positions and DCS and determines no adjustment is necessary.									
Cue:										
Comments										
	SAT \square	UNSAT □	Comment Number							

2	8.4.1.2 Determine/correct the cause of the lockout from alarm indicators on 1H13-P614 and/or the annunciators on 1H13-P680.
Standard:	Determines that Annunciator 5003-4H is due to the manual lockout based on initiating cue.
Cue:	If asked, there are no alarms on 1H13-P614 other than those caused by the manual lockout.
Comments	The next step 8.4.1.3 is N/A. No FCV runback signal is present.
	SAT UNSAT Comment Number
*3	8.4.1.4 Zero the B loop SERVO ERROR.
Standard:	Adjusts B Flow Controller output with the slide switch to Zero the SERVO ERROR.
Cue:	
Comments	The next step 8.4.1.5 is N/A. The initiating cue stated the HPU was running.
	SAT UNSAT Comment Number

4 8.4.1.5 Restore HPU B to normal operation per 3302.02 Standard: The B RO (Booth Operator) restores the B HPU to normal operation. Cue: As the CRS inform the student that positive plant control has been established and the B RO is at the back panels ready to restore the B HPU to normal operation. Comments Cue the booth operator to restore the B HPU when needed. When hydraulies are restored 5003-1H and 3H will clear. 5003-2H will come in and clear. SAT □ UNSAT □ Comment Number *5 8.4.1.6 Depress the B FCV A/B Motion Inhibit Reset. Verify the lead HPU becomes operational, and FCV motion is no longer inhibited. Standard: Examinee depresses the B FCV Motion Inhibit Reset switch, verifies Motion Inhibit light for FCV B is OUT and annunciator 5003-4H resets. Cue: Inform the student as the CRS that no adjustment of the FCV will be needed after the lockout is reset. Comments Annunciator 5003-4H will reset when Motion Inhibit Reset is depressed. SAT □ UNSAT □ Comment Number TERMINATING CUES: The B Recire Flow Control Valve lockout is reset.										
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SAT UNSAT Comment Number TERMINATING CUES:	Cue:									
TERMINATING CUES:	Comments		Annunciator 5003-4H will reset when Motion Inhibit Reset is depressed.							
			SAT UNSAT Comment Number							
STOP TIME:	The B Rec	eire F								

Operator's Name:								
Job Title: \square NLO \square RO \square SRO \square STA \square SRO Cert								
JPM Title: R	teset a Recirc Fl	ow Control Valv	e Lockout					
JPM Number: JI	PM110		Revision	Number:00				
Task Number and	Title: 330201.31	Complete Control	Room actions to p	perform FCV Lockout/Reset				
K/A System	K/A Number	Importance	(RO/SRO)]				
202002	A4.08	3.3	3.3					
Suggested Test	ing Environment:	Simulator						
Actual Test	ing Environment	☐ Simulator	□ Plant	☐ Control Room				
Testing Metho	d: ☐ Simulate ☐ Perform		ate Path:					
Time Critica	al:	■ No						
Estimated Time t	o Complete: 10	minutes	Actual Time Used	l: minutes				
References: C	CPS 3302.01,Rev. N	No. 30a Reactor Red	circulation					
EVALUATION S	UMMARY:							
Were all the Critic	al Elements perfor	med satisfactorily?	□ Yes	□ No				
The operator's per determined to be:	formance was eval	uated against the st Satisfactory	andards contained ☐ Unsatisfa	I in this JPM, and has been actory				
Comments:								
Evaluator's 1	Name:		(Print)				
Evaluator's S	Signature [.]		Date:					

Clinton Power Station Job Performance Measure (JPM)

INITAL CONDITIONS

You are the A CRO. The plant is operating at power. The B Recirc Flow Control Valve was manually locked out to perform maintenance. The maintenance is complete. Positive plant control has been verified. No adjustment of the FCV will be needed after the lockout is reset.

INITIATING CUE:

CAUTION

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

Reset the Flow Control Valve lockout per 3302.01.



CLINTON POWER STATION

Job Performance Measure

Shutdown HPCS – Initiation Signal Present (Alternate Path)

JPM Number: JPM111

Revision Number: 00

Date: 02/25/09

Developed By: Tom Pickley 02/25/09

Instructor Date

Validated By: T. French 7/1/2009

SME or Instructor Date

Reviewed By: J. Lucas 7/1/2009

Operations Representative Date

Clinton Power Station Job Performance Measure (JPM)

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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

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

Clinton Power Station Job Performance Measure (JPM)

Revision Record (Summary)

Revision	Date	Description
00	02/25/09	Converted from old JPM

Clinton Power Station Job Performance Measure (JPM)

Simulator Setup Instructions

1. Initialize to any suitable IC where HPCS can inject to the RPV and initiate HPCS.

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

- 2. Insert malfunction or initiate a lesson plan to prevent HPCS Pump Min Flow Recirc Valve from closing automatically upon HPCS Pump shutdown.
- 3. When the above steps are completed for this and other JPMs to be run concurrently, then validate the concurrently run JPMs if applicable.
- 4. This completes the setup for this JPM.

Clinton Power Station Job Performance Measure (JPM)

READ TO THE OPERATOR

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

TASK STANDARDS:

- High Pressure Core Spray is shutdown.
- HPCS Pump Min Flow Recirc Valve is manually closed due to failure to automatically close when HPCS Pump is secured.

TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

None

PROCEDURAL/REFERENCES:

• CPS No. 3309.01, HIGH PRESSURE CORE SPRAY. Rev. 16, Section 8.1.6

EVALUATOR INSTRUCTIONS:

• Amplifying cues are provided within the JPM steps.

Clinton Power Station Job Performance Measure (JPM)

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	71 1		\boldsymbol{H}					.,						

- 1. You are the B operator.
- 2. The plant is at full power.
- 3. HPCS has inadvertently initiated and the plant has been stabilized.
- 4. The initiation signal is still present.
- 5. IMD is troubleshooting. **Do not** depress the HPCS SEAL IN RESET push-button.

INITIATING CUE:

CAUTION

- All pre-job briefings are completed.
- Do NOT shine any type light into a panel.
- 1. You are directed to shutdown HPCS per CPS 3309.01 section 8.1.6.
- 2. Inform the CRS when the task is complete.

Clinton Power Station Job Performance Measure (JPM)

PERFORMANCE INFORMATION

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

PERFORMANCE STEPS

8.1.6 Shutdown	– Initiation Signal Present
1.	During HPCS operation, verify as appropriate that 1E22-F012, HPCS Pump Min Flow To Suppr Pool: Opens whenever HPCS flow is < 625 gpm with HPCS discharge pressure > 145 psig, and Shuts whenever HPCS flow is ≥ 625 gpm.
Standard:	Verifies that min flow valve is shut.
Cue:	
Comments	Operation of MOV Test Prep Switch for HPCS valve operations may be used during the JPM but is not required.
	SAT UNSAT Comment Number
*2.	Shut 1E22-F004, HPCS To CNMT Outbd Isln Valve.
Standard:	The operator places control switch for 1E22-F004 to close. Observes RED light is OFF and GREEN light is ON.
Standard: Cue:	· · · · ·
	· · · · ·

	*3.	Stop HPC	S Pump, 11	E22-C001			
Standard:		Operator places of RED light OFF, O			-C001 to the 'STOP'	position.	Observes
Cue:							
Comments							
		SAT □	UNSAT		Comment Number		-
		Be	gins Al	<u>lternate</u>	Path		
The 1E22-F012 automatic action			Suppr Pool sh	ould automatic	cally shut. The Operators	are required	d to perform any
	*4.	Verify 1E2	22-F012, H	PCS Pump	Min Flow To Supp	r Pool shi	ıts.
Standard:		<u>=</u>	close. Obs	serves RED	nas not closed, and pl light is OFF and GR close to CRS.		
Cue:		Acknowledge rep	ort.				
Comments							
		SAT \square	UNSAT		Comment Number		-

	5.	Return HPCS pump suction to RCIC Storage Tank per 8.1.7.2 if adequate level is available.		
Standard:		Observes that HPCS pump suction is still lined up to RCIC Storage Tank.		
Cue:				
Comments				
		SAT UNSAT Comment Number		
	6.	Verify HPCS Pmp Rm Sply Fan, 1VY08CA stops.		
Standard:		Operator verifies that fan has stopped. Observes GREEN light is ON and RED light is OFF.		
Cue:				
Comments				
		SAT UNSAT Comment Number		
	7.	Verify HPCS Pmp Rm Sply Fan, 1VY08CB stops		
Standard:		Operator verifies that fan has stopped. Observes GREEN light is ON and RED light is OFF.		
Cue:				
Comments				
		SAT UNSAT Comment Number		
TERMINATING CUES: Informs the CRS when 8.1.6 is complete with the exception of 8.1.6.8. STOP TIME:				

Operator's Name:				
Job Title: □	NLO □ R	O □ SRO	\square STA	☐ SRO Cert
JPM Title: S	hutdown HPCS – I	nitiation Signal Pre	esent (Alternate Pa	th)
JPM Number: JI	PM111		Revisi	on Number: 00
Task Number and	Title: 330901.05,	Complete Control	Room actions to p	perform HPCS
	Shutdown	with Initiation Sigr	nal Present.	
K/A System	K/A Number	Importance	e (RO/SRO)]
209002	A2.01	3.8	3.8	
Suggested Test	ing Environment:	Simulator		
33	ing Environment:		☐ Plant	☐ Control Room
Testing Metho	d: ☐ Simulate ☐ Perform	Altern	Faulted: ☐ Y ate Path: ☐ Y	es ■ No es □ No
Time Critica	al:	■ No		
Estimated Time t	o Complete: 10 <u>1</u>	<u>ninutes</u>	Actual Time Used	: minutes
References: C	CPS No. 3309.01, H	IGH PRESSURE	CORE SPRAY. Re	ev. 16, Section 8.1.6
EVALUATION S Were all the Critic	SUMMARY: al Elements perfori	ned satisfactorily?	☐ Yes	□ No
The operator's per determined to be:	formance was eval	uated against the st	andards contained Unsatisfa	in this JPM, and has been actory
Comments:				
Evaluator's N	Name:		(1	Print)
Evaluator's Sign	ature:			Date:

Clinton Power Station Job Performance Measure (JPM)

Initial Conditions

- 1. You are the B operator.
- 2. The plant is at full power.
- 5. HPCS has inadvertently initiated and the plant has been stabilized.
- 6. The initiation signal is still present.
- 5. IMD is troubleshooting. **<u>Do not</u>** depress the HPCS SEAL IN RESET push-button.

Initiating Cue

CAUTION

- All pre-job briefings are completed.
- Do NOT shine any type light into a panel.
- 1. You are directed to shutdown HPCS per CPS 3309.01 section 8.1.6.
- 2. Inform the CRS when the task is complete.



CLINTON POWER STATION

Job Performance Measure

Blowdown due to high Drywell Temperature (Alternate Path)

JPM Number: JPM107

Revision Number: 01

Date: 02/24/09

Developed By: T. Pickley 02/24/09

Instructor Date

Validated By: T. French 7/1/2009

SME or Instructor Date

Reviewed By: J. Lucas 7/1/2009

Operations Representative Date

Clinton Power Station Job Performance Measure (JPM)

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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

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

Clinton Power Station Job Performance Measure (JPM)

Revision Record (Summary)

Revision	Date	Description
Rev 01	02/24/09	Updated procedure revision numbers and format

Clinton Power Station Job Performance Measure (JPM)

Simulator Setup Instructions

1. Reset the simulator to a full power IC.

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

- 2. Insert malfunctions, HP13D and HP13H (to 0%) to fail 2 SRV's 1B21-F041D and 1B21-F047A in the shut position.
- 3. Insert a manual SCRAM and complete operator actions to control level and secure the Turbine Generator after coasting down.
- 4. When reactor pressure and level is stable FREEZE the simulator. Verify Drywell Pressure is less than 1.5 psig.
- 5. Start the simulator when the operator is ready to perform the JPM.
- 6. When the above steps are completed for this and other JPMs to be run concurrently, then validate the concurrently run JPMs if applicable.
- 7. This completes the setup for this JPM.

Clinton Power Station Job Performance Measure (JPM)

READ TO THE OPERATOR

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

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

TASK STANDARDS:

• The evolution completed IAW EOP-3, and CPS No. 3101.01 to Manually initiate ADS with 7 Safety Relief Valves opened.

TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

None

PROCEDURAL/REFERENCES:

• EOP-3 R28, and CPS No. 3101.01 R20d, Main Steam

EVALUATOR INSTRUCTIONS:

- After completion of the initiating cue repeat back, take the simulator out of FREEZE.
- Amplifying cues are provided within the JPM steps.

A transient ii		
	has occurred, the reactor has scrammed. Drywell temperature is 335°F.	
INITIATIN	G CUE:	
	CALIFION	
	■ All pre-job briefings are completed.	
	 Do NOT shine any type light into a panel. 	
You are to in	nitiate ADS.	

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.

UNSAT □

*1.

Standard:

Comments

SAT \square

Cue:

PERFORMANCE STEPS CPS No. 3101.01, Main Steam or the Hard Card **8.2.2.3** Manually initiate ADS: Arm and depress all four ADS Div 1/2 Logic A&E/B&F Initiate push-buttons. Rotate collars and depress ADS Div 1, Logic A&E push-buttons Rotate collars and depress ADS Logic 2 B&F Initiate push-buttons. None Logic will initiate if only ADS Div 1 and/or 2 Logic A&E and/or B&F Initiate push-buttons are operated; however, procedure requires all four.

Comment Number _____

CPS No. 3101.01,	, Main Steam
*2.	 8.2.2.4 Verify seven ADS valves open using as needed: SPDS DCS Display 122 (2H) [Acoustic Monitor Input] DCS Display 186 (7B) ['A' Solenoid Input] 1H13-P601/P642 Solenoid Indicator Lights 1H13-P866, Valve Flow Monitor Control Panel 1H13-P614, ADS Safety Valve Temperature recorder 1B21-R614 (Pts 1 – 7) Indirect indication via changes in RPV pressure, RPV level, MSL flows, & suppression pool temperatures.
Standard:	Recognizes that all seven valves have not opened and reports.
Cue:	
Comments	1B21-F041D and 1B21-F047A failed to open due to malfunction. SAT □ UNSAT □ Comment Number

*3. EOP-3	8.2.1.3 Place keylock switch(es) for SRV(s) to OPEN to open the SRV, or to AUTO or OFF to shut the SRV.			
	 Verify SRV(s) open/shut as applicable using as needed: SPDS DCS Display 122 (2H) [Acoustic Monitor Input] DCS Display 186 (7B) ['A' Solenoid Input] 1H13-P601/P642 Solenoid Indicator Lights 1H13-P866, Valve Flow Monitor Control Panel 1H13-P614, ADS Safety Valve Temperature recorder 1B21-R614 (Pts 1 - 7) Indirect indication via changes in RPV pressure, RPV level, MSL flows, & suppression pool temperatures. 			
Standard:	Manually opens two SRVs using keylock switches for a total of 7 SRVs open.			
Cue:	Acknowledge the report of 7 SRVs open. Terminate the JPM.			
Comments	(NOTE: The operator should first attempt to open the 2 ADS valves that failed to auto open.) The operator should verify the opening of the two additional valves and report back to the CRS.			
	SAT UNSAT Comment Number			
TERMINATING The operator version of the state of the sta	verifies that a total of seven (7) SRVs are open and reports to the CRS that seven (7)			
STOP TIME: _				

Operator's Name:				
Job Title: □	NLO □ R	O □ SRO	\square STA	☐ SRO Cert
JPM Title: B	slowdown due to	high Drywell T	emperature	
JPM Number: JI	PM107 Revision	Number: 01		
Task Number and	Title: 310101.07 (Auto/Man	-	crol Room actions t	o perform ADS Initiation
K/A System	K/A Number	Importance	e (RO/SRO)	
218000	A4.01	4.4	4.4	
Suggested Test	ing Environment:	Simulator		
	ing Environment:		☐ Plant	☐ Control Room
Testing Metho	d: ☐ Simulate ☐ Perform	Altern	Faulted: ☐ You ate Path: ☐ You	
Time Critica	al:	■ No		
Estimated Time t	o Complete: 10 1	<u>minutes</u>	Actual Time Used:	minutes
	3 R28 not attached No. 3101.01 MAIN		& ADS) R20e, Ste	p 8.2.2
EVALUATION Some were all the Critic	SUMMARY: al Elements perform	ned satisfactorily?	□ Yes	□ No
The operator's per determined to be:	formance was eval	uated against the st Satisfactory	andards contained Unsatisfa	in this JPM, and has been ctory
Comments:				
Evaluator's 1	Name:		(F	Print)
Evaluator's Sign	ature:			Date:

Clinton Power Station Job Performance Measure (JPM)

Initial Conditions

A transient has occurred, the reactor has scrammed. Drywell temperature is 335°F.

Initiating Cue

CAUTION

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

You are to initiate ADS.



CLINTON POWER STATION

Job Performance Measure

RCIC Restart with Initiation Signal Present

JPM Number: JPM112

Revision Number: 00

Date: 02/25/09

Developed By:	Tom Pickley	02/25/09
	Instructor	Date
Validated By:	T. French	7/1/2009
	SME or Instructor	Date
Reviewed By:	J. Lucas	7/1/2009
	Operations Representative	Date

Clinton Power Station Job Performance Measure (JPM)

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

NOTE:		eps of this checklist should be performed upon initial validation. Prior to usage, revalidate JPM using steps 8 through 11 below.
	_ 1.	Task description and number, JPM description and number are identified.
	_ 2.	Knowledge and Abilities (K/A) references are included.
	_ 3.	Performance location specified. (in-plant, control room, or simulator)
	_ 4.	Initial setup conditions are identified.
	_ 5.	Initiating and terminating cues are properly identified.
	_ 6.	Task standards identified and verified by SME review.
	_ 7.	Critical steps meet the criteria for critical steps and are identified with an asterisk (*).
	_ 8.	Verify the procedure referenced by this JPM matches the most current revision of that procedure:
		Current Procedure Rev Date:
		Procedure Rev. Referenced Date:
		• If the Current Procedure Rev. and the Procedure Rev. Referenced are different then revise the JPM.
	_ 9.	Pilot test the JPM:
		a. verify cues both verbal and visual are free of conflict, andb. 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
	SN	ME/Instructor Date
	SN	ME/Instructor Date
	SN	ME/Instructor Date

Clinton Power Station Job Performance Measure (JPM)

Revision Record (Summary)

Revision	Date	Description
00	02/25/09	Converted from old JPM

Clinton Power Station Job Performance Measure (JPM)

Simulator Setup Instructions

1. Reset the simulator to IC-01.

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

- 2. Prevent HPCS from starting.
- 3. Trip RCIC.
- 4. Trip all three feedpumps.
- 5. Place the Mode Switch to SHUTDOWN.
- 6. When vessel level is below Level 2, freeze the simulator.
- 7. When the above steps are completed for this and other JPMs to be run concurrently, then validate the concurrently run JPMs if applicable.
- 8. This completes the setup for this JPM.

Clinton Power Station Job Performance Measure (JPM)

READ TO THE OPERATOR

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

TASK STANDARDS:

• The evolution completed IAW 3310.01 Reactor Core Isolation Cooling System, Rev 27

TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

None

PROCEDURAL/REFERENCES:

• 3310.01 Reactor Core Isolation Cooling System, Rev 27

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:

Reactor water level is below Level 2. The Reactor Core Isolation Cooling Turbine was manually tripped to prevent injection.

INITIATING CUE:

CAUTION

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

RCIC is now needed to help recover reactor vessel level. Restart RCIC and inject to the reactor vessel at approximately 600 gpm.

START TIME:	

Clinton Power Station Job Performance Measure (JPM)

PERFORMANCE INFORMATION

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

PERFORMANCE STEPS

8.1.8 RCIC restart with Initiation Signal Present				
	1.	Open/Verify Ope	n 1E51-F045, RCIC T	urb Stm Supp Shutoff Valve
Standard:	ard: 1E51-F045, RCIC Turb Stm Supp Shutoff Valve verified open.			
Cue:				
Comments				
		SAT \square	UNSAT □	Comment Number

	*2	Reset 1E51-C002, RCIC Turbine VIve Opr (stem) by taking its control switch to CLOSE, and verify valve shuts.		
Standard:		1E51-C002 is close	ed	
Cue:				
Comments				
		SAT 🗆 U	UNSAT □	Comment Number
	*3	Place RCIC Pump	Flow Cont, 1E51-R	8600 in manual/minimum demand (0%).
Standard:		1E51-R600 is in ma	anual/minimum.	
Cue:				
Comments				
		SAT □ U	UNSAT □	Comment Number

	*4.	Open 1E51-C002, RCIC Turbine Trip Vlv Opr (stem).		
Standard:		Both red lights for 1E51-C002 are on.		
Cue:				
Comments		Steam is now admitted to the RCIC turbine. The turbine speed should increase.		
		SAT UNSAT Comment Number		
	*5	When turbine governor valve is limiting turbine speed, adjust RCIC Pump Flow Cont, 1E51-R600 to maintain:		
		☞ Avoid AUTO when < 450 gpm (see Precaution 4.10)		
		1) RCIC turbine speed > 1500 rpm		
Standard:		Speed in raised to greater than 1500 rpm. Raises flow to approximately 600 gpm.		
Cue:				
Comments				
		SAT UNSAT Comment Number		

	6.	If desired to feed to the RPV, open/verify open 1E51-F013, RCIC Pump Disch to Rx Outbd Isol Valve.
Standard:		1E51-F013 is open and feed is established to the reactor vessel. The operator adjusts 1E51-R600 as necessary to inject at approximately 600 gpm.
Cue:		F013 is already open.
Comments		The operator may place the controller in AUTO.
		SAT UNSAT Comment Number
TERMINAT RCIC is in		CUES: ng to the reactor vessel.
STOP TIME	:	

Operator's Name:				
Job Title:	□ NLO ■ R	O 🗆 SRO	\square STA	☐ SRO Cert
JPM Title:	RCIC Restart with In	nitiation Signal Pre	esent	
JPM Number: J	PM112		Revis	ion Number: 00
Task Number and	Title: 331001.08	RCIC Restart with	injection signal p	present
K/A System	K/A Number	Importance	e (RO/SRO)	
295031	EA 1.05	4.3	4.3	
217000	A2.01	3.8	3.7	
Suggested Test	ting Environment:	<u>Simulator</u>		_
Actual Tes	ting Environment:	■ Simulator	☐ Plant	☐ Control Room
Testing Metho	od: ■ Simulate □ Perform	Altern	Faulted: □ Nate Path: □ Nate Path: □ Nate Path	
Time Critic	al: ☐ Yes	□ No		
Estimated Time	to Complete: 10 1	<u>minutes</u>	Actual Time Used	d: minutes
References: 3310	.01 Reactor Core Is	olation Cooling Sy	stem, Rev 27	
EVALUATION S	SUMMARY:			
Were all the Critic	cal Elements perfor	med satisfactorily?	□ Yes	□ No
determined to be:	rformance was eval	☐ Satisfactory	☐ Unsatisf	d in this JPM, and has been actory
Comments.				
Evaluator's	Name:		((Print)
Evaluator's Sign	nature:			Date:

Clinton Power Station Job Performance Measure (JPM)

Initial Conditions

Reactor water level is below Level 2. The Reactor Core Isolation Cooling Turbine was manually tripped to prevent injection.

Initiating Cue

CAUTION

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

RCIC is now needed to help recover reactor vessel level. Restart RCIC and inject to the reactor vessel at approximately 600 gpm.



CLINTON POWER STATION

Job Performance Measure

Place RHR Loop B in the Containment Spray Mode – Alternate Path

JPM Number: JPM207

Revision Number: 00

Date: 07/17/2007

Developed By: George M. Vaught 07/17/2007

Instructor Date

Validated By: T. French 7/1/2009

SME or Instructor Date

Reviewed By: J. Lucas 7/1/2009

Operations Representative Date

Clinton Power Station Job Performance Measure (JPM)

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

NOTE:	E: All steps of this checklist should be performed upon initial validation. Prior to JPM usage, revalidate JPM using steps 8 through 11 below.				
	_ 1.	Task description and number, JPM description and number are identified.			
	_ 2.	Knowledge and Abilities (K/A) references are included.			
	_ 3.	Performance location specified. (in-plant, control room, or simulator)			
	_ 4.	Initial setup conditions are identified.			
	_ 5.	Initiating and terminating cues are properly identified.			
	_ 6.	Task standards identified and verified by SME review.			
	_ 7.	Critical steps meet the criteria for critical steps and are identified with an asterisk (*).			
	_ 8.	Verify the procedure referenced by this JPM matches the most current revision of that procedure:			
		Current Procedure Rev Date:			
		Procedure Rev. Referenced Date:			
		 If the Current Procedure Rev. and the Procedure Rev. Referenced are different then revise the JPM. 			
	_ 9.	Pilot test the JPM:			
		a. verify cues both verbal and visual are free of conflict, andb. 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			
	SN	ME/Instructor Date			
	SN	ME/Instructor Date			
	SN	ME/Instructor Date			

Clinton Power Station Job Performance Measure (JPM)

Revision Record (Summary)

Revision	Date	Description
00	07/17/2007	Updated numbering convention. Old JPM number: 33120106LSF02.

Clinton Power Station Job Performance Measure (JPM)

Simulator Setup Instructions

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

- 1. Reset the simulator to an IC developed for this JPM with Drywell pressure > 1.68 PSIG and Containment pressure at approximately 2.2 PSIG. This condition can be reached with a 25% Main Steam Line "A" rupture in the Drywell and a Drywell partial failure.
- 2. Open and execute Simulator Lesson Plan JPM207 to perform the following:
 - Insert malfunction to prevent 1E12-F028B from opening when Containment Spray Pushbutton is depressed.
 - Deletes 1E12-F028B malfunction when operator manually opens valve.
- 3. Freeze the simulator.

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

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

Clinton Power Station Job Performance Measure (JPM)

READ TO THE OPERATOR

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

TASK STANDARDS:

• RHR Loop B is running in the Containment Spray Mode per CPS No 3312.01, Residual Heat Removal.

TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

None.

PROCEDURAL/REFERENCES:

• CPS No. 3312.01 Residual Heat Removal, rev. 38a.

EVALUATOR INSTRUCTIONS:

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

INITIAL CONDITIONS:

You are an extra RO.

The plant has scrammed.

Five minutes ago Drywell pressure exceeded 1.68 PSIG and Containment pressure is now above 2.2 PSIG and Containment spray is required.

INITIATING	G CUE:	
	CAUTION ■ All pre-job briefings are completed.	
Start 'B' RHI pushbutton pe	R Loop in the Containment Spray Mode using the Containment Spray Manual In er hard card.	nitiate
PRM-1RIX-I	PR039 is in service.	
Inform the C	RS when the task is complete.	
Note to Evalu	uator: As soon as operator repeats basic condition and cue, unfreeze simulator.	
START TIM	ЛЕ:	

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.

*1)		-	Y A(B) MANUAL INITIATION
Standard:	Operator rotates collar on CNMT SPRAY B MANUAL INITIATION switch to the ARM position and depresses pushbutton.		
Cue:			
Comments			
	SAT \square	UNSAT □	Comment Number

Clinton Power Station Job Performance Measure (JPM)

*2)

BEGINS ALTERNATE PATH

Verify CNMT Spray valve alignment: (for Automatic Initiation only, after LPCI/LPCS has run for 10 minutes) 1E12-F042A(B), LPCI Fm RHR A(B) Shutoff Valve Shut 1E12-F028A(B), RHR A(B) To CNMT Spray A(B) Shutoff Vlv OPEN 1E12-F014A(B), SSW Inlet RHR A(B) Hx Valve **OPEN** 1E12-F068A(B), RHR A(B) Hx SSW Outlet Valve **OPEN** 1E12-F003A(B), RHR A(B) Hx Outlet Valve **OPEN OPEN** 1E12-F047A(B), RHR A(B) Hx Inlet Valve 1E12-F048A(B), RHR A(B) Hx Bypass Valve Shut 1SX082A(B), RHR A(B) Hx MU Cond Inlet Vlv Shut 1E12-F024A(B), RHR A(B) Test Valve To Suppr Pool Shut Standard: Operator verifies CNMT spray realignment by observing: GREEN light ON and RED light OFF for 1E12-F042B RED light ON and GREEN light OFF for 1E12-F028B RED light ON and GREEN light OFF for 1E12-F014B RED light ON and GREEN light OFF for 1E12-F068B RED light ON and GREEN light OFF for 1E12-F003B RED light ON and GREEN light OFF for 1E12-F047B GREEN light ON and RED light OFF for 1E12-F048B GREEN light ON and RED light OFF for 1SX082B GREEN light ON and RED light OFF for 1E12-F024B Examinee recognizes 1E12-F028B does not OPEN and manually OPENS 1E12-F028B. Cue: Acknowledge reports as applicable. Comments The only CRITICAL portion of this STEP is finding and opening 1E12-F028B. 1E12-F048B will cycle shut and open 10 minutes post LOCA. SAT \square UNSAT □ Comment Number

	3)	Verify flow to CNMT spray spargers on RHR Pump A(B) Flow meter, 1E12-R603A(B).		
Standard:		Operator verifies required Containment Spray flow on 1E12-R603B Between 3500-4000 gpm.		
Cue:				
Comments				
		SAT UNSAT Comment Number		
	4)	Verify cooling water flow through RHR A(B) Hx on SSW To RHR A(B) Hx Flow meter, $1E12\text{-}R602A(B)$		
Standard:		Operator verifies cooling water flow on 1E12-R602B		
Cue:				
Comments				
		SAT UNSAT Comment Number		
	5)	Place/verify SX A(B) PRM 1RIX-PR038(039), Shutdown Service Water A(B) Effluent (SX) in service		
Standard:		Given in cue, operator may check AR/PR.		
Cue:		If AR/PR is checked: PRM-1RIX-PR039 is in service.		
Comments		Given in cue that PRM-1RIX-PR039 is in service.		
		SAT UNSAT Comment Number		

TERMINATING CUES:	
RHR B is operating in the Containment Spray mode.	
STOP TIME:	

Operator's Name:					
Job Title: □	NLO 🗆 F	RO 🗆 SRO	\square STA	☐ SRO Cert	
JPM Title: <u>Place RHR Loop B in the Containment Spray Mode – Alternate Path</u>					
JPM Number: <u>JI</u>	PM207		Revi	sion Number: <u>00</u>	
Task Number and	Title: 331201.06	6 / CNMT Spray Ma	anual or Automat	ic Initiation	
K/A System	K/A Number	Importance	e (RO/SRO)		
226001	A4.03	3.5	3.4		
Suggested Test	ing Environmen	: Simulator			
Actual Test	ing Environment	t: Simulator	☐ Plant	☐ Control Room	
Testing Metho	d: ■ Simulate □ Perform			Yes ■ No Yes □ No	
Time Critica	al:	■ No			
Estimated Time t	o Complete: 5 1	<u>ninutes</u>	Actual Time Use	ed: minutes	
References: C	CPS No. 3312.01 F	Residual Heat Remo	val, rev. 38a.		
EVALUATION S Were all the Critic		rmed satisfactorily?	□ Yes	□ No	
The operator's per determined to be:	formance was eva	lluated against the s Satisfactory	tandards containe Unsatis	ed in this JPM, and has been factory	
Comments:					
Evaluator's N	Name:			(Print)	
Evaluator's Sign	ature:			Date:	

Clinton Power Station Job Performance Measure (JPM)

Initial Conditions

You are an extra RO.

The plant has scrammed.

Five minutes ago Drywell pressure exceeded 1.68 PSIG and Containment pressure is now above 2.2 PSIG and Containment spray is required.

Initiating Cue

CAUTION

• All pre-job briefings are completed.

Start 'B' RHR Loop in the Containment Spray Mode using the Containment Spray Manual Initiate pushbutton per hard card.

PRM-1RIX-PR039 is in service.

Inform the CRS when the task is complete.



CLINTON POWER STATION

Job Performance Measure

Crosstie 480V Busses O & P with O Supplying

JPM Number: JPM103

Revision Number: 00

Date: 02/25/09

Developed By: Tom Pickley 02/25/09

Instructor Date

Validated By: T. French 7/1/2009

SME or Instructor Date

Reviewed By: J. Lucas 7/1/2009

Operations Representative Date

Clinton Power Station Job Performance Measure (JPM)

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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

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

Clinton Power Station Job Performance Measure (JPM)

Revision Record (Summary)

Revision	Date	Description
00	02/25/09	New JPM

Clinton Power Station Job Performance Measure (JPM)

Simulator Setup Instructions

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

1. Reset the simulator to an IC with a normal bus lineup.

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

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

Clinton Power Station Job Performance Measure (JPM)

READ TO THE OPERATOR

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

TASK STANDARDS:

• 480V Busses O & P are crosstied with O Supplying per 480 Vac Distribution, 3502.01 R 9a.

TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

None

PROCEDURAL/REFERENCES:

• 480 Vac Distribution, 3502.01 R 9a

EVALUATOR INSTRUCTIONS:

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

INITIAL CONDITIONS:			
The plant elec	etrical busses are in a normal lineup.		
=			
INITIATING	G CUE:		
	<u>CAUTION</u>		
	 All pre-job briefings are completed. 		
	 Do NOT shine any type light into a panel. 		
Crosstie 480V	Busses O & P with O Supplying.		
START TIM	E:		

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

3502.01 480 VAC DISTRIBUTION			
*8.1.4.2	Close the 480V	Γie Breaker to the ass	sociated 480V Substation.
Standard:	Closes 480 V Bus	s O & P Tie BKR 0AP	91E.
Cue:	None		
Comments	None		
	SAT □	UNSAT □	Comment Number

* 8.1.4.3	Open the 480V M the substation is o		ssociated 480V Substation, and verify
Standard:	Opens 480 V Bus	P MN BKR 0AP92E.	
Cue:	None		
Comments	None		
	SAT \square	UNSAT □	Comment Number
TERMINATING 480V Busses C	CUES: O & P are crosstied v	with O Supplying.	
STOP TIME:			

Operator's Name:				
Job Title: □	l NLO □ R	O □ SRO	\square STA	☐ SRO Cert
JPM Title: C	rosstie 480V Buss	es O & P with O S	upplying	
JPM Number: JF	PM103		Revisi	on Number: 00
Task Number and	Title: 350201.04	, Transfer a 480V l	Bus Paralleling Me	ethod.
K/A System	K/A Number	Importance	e (RO/SRO)]
262001	A4.04	3.6	3.7	
Suggested Test	ing Environment	: Simulator		
Actual Testing	Environment: □	Simulator	□ Plant	☐ Control Room
Testing Metho				es ■ No
	■ Perform		ate Path: \square Y	es ■ No
Time Critica		No		
Estimated Time to	o Complete: 10	<u>minutes</u>	Actual Time Used	: minutes
• Reference	es: 480 Vac Distri	bution, 3502.01 R 9a	•	
EVALUATION S Were all the Critics		rmed satisfactorily?	Yes □ Yes	□ No
The operator's perdetermined to be:	formance was eva	luated against the s ☐ Satisfactory	tandards contained Unsatisfa	in this JPM, and has been actory
Comments:				
Evaluator's N	Name:		(]	Print)
Evaluator's Sign	ature:			Date:

Clinton Power Station Job Performance Measure (JPM)

Initial Conditions

The plant electrical busses are in a normal lineup.

Initiating Cue

CAUTION

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

Crosstie 480V Busses O & P with O Supplying.



CLINTON POWER STATION

Job Performance Measure

Use OD-7 to verify Shutdown Criteria

JPM Number: JPM104

Revision Number: 00

Date: 02/23/09

Developed By: Tom Pickley 02/23/09

Instructor Date

Validated By: T. French 7/1/2009

SME or Instructor Date

Reviewed By: J. Lucas 7/1/2009

Operations Representative Date

Clinton Power Station Job Performance Measure (JPM)

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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

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

Clinton Power Station Job Performance Measure (JPM)

Revision Record (Summary)

Revision	Date	Description
00	02/23/09	New JPM

Clinton Power Station Job Performance Measure (JPM)

Simulator Setup Instructions

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

1. Reset the simulator to a full power IC.

NOTE:

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

- 2. Drive a 4 Rod gang into 02 and insert malfunctions to stick these 4 rods.
- 3. Override the following Pushbuttons to prevent checking rod positions.
 - ALL Rods
 - One selection number of each stuck rod
 - Selected Group
 - Selected Half
- 4. Place the Mode switch in S/D and stabilize the plant.
- 5. When the above steps are completed for this and other JPMs to be run concurrently, then validate the concurrently run JPMs if applicable.
- 6. This completes the setup for this JPM.

Clinton Power Station Job Performance Measure (JPM)

READ TO THE OPERATOR

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

TASK STANDARDS:

• Rod Control And Information System, 3304.02, R 17b.

TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

None.

PROCEDURAL/REFERENCES:

• Rod Control And Information System, 3304.02, R 17b.

EVALUATOR INSTRUCTIONS:

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

Clinton Power Station Job Performance Measure (JPM)

T	NI	\mathbf{T}	TΛ	T	. (\mathbf{C}	N	N	T	T	ГΤ	O	N	JS	3	•

The plant scrammed from rated power. Immediate actions except verification of Shutdown Criteria have been completed.

INITIATING CUE:

CAUTION

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

Verify SHUTDOWN CRITERIA is met.

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

3304.02, Rod Control And Information System

(Steps 8.2.11.1 - 4 may be performed independently and in any order.)

*8.2.11.1	Full Core Display	, Depresses the "ALL R	RODS" pushbutton
Standard:		LL RODS" pushbutton tual rod positions cann	n. Determines that not all "Full In" LEDs ot be obtained.
Cue:	None		
Comments	None		
	SAT \square	UNSAT □	Comment Number

8.2.11.2	On either RACC panel 1H13-P651 or P652, determine if all rods are full in by observing the LED representing "all rods full in." This LED will be lit when all rods are fully inserted.
Standard:	Either or both RACC panels are simulated to be checked.
Cue:	• Neither "all rods full in" LEDs are lit
Comments	■ These are back panels in the MCR that are not in the simulator.
	SAT UNSAT Comment Number
8.2.11.3	Transient Test (TT) Channel 291 will indicate all rods which are fully inserted. This indication is from Div 1 only; a value of 10 volts indicates rods full in, and a value of ~ 0 volts indicates all rods not full in.
Standard:	Determines all rods are not full in
Cue:	• TT Channel 291 shows a value of 0 volts
Comments	■ TT is not available
	SAT UNSAT Comment Number
8.2.11.4	To determine Rod Position using OD-7, must reset the scram per 4100.01, Reactor Scram
Standard:	Determines the scram must be reset.
Comments:	Reset the scram
	SAT UNSAT Comment Number

4100.01, Reactor Scram, Appendix A					
A.1	If Fuel failure occurred or is suspected, Then				
Standard:	Does not perform the isolations				
Cue:	Fuel failure has not occurred				
Comments	• None				
	SAT UNSAT Comment Number				
*A.2	Place all 4 BYP DISCH VOL HI LVL DIV 1(2, 3&4) bypass switches to bypass.				
Standard:	Bypass switches are placed in bypass.				
Cue:	None				
Comments	• None				
	SAT UNSAT Comment Number				
*A.3	Reset Reactor Scram and ARI/RPT trips.				
Standard:	Depresses the scram reset and ARI reset pushbuttons.				
Cue:	None				
Comments	None				
	SAT UNSAT Comment Number				

A.4	Verify the Scram	Discharge Volume Vent	and Drain Valves open.		
Standard:	Valves are verifi	ed opening			
Cue:	None				
Comments	• None	• None			
	SAT \square	UNSAT □	Comment Number		
*A.5	Determine Contr	ol Rod positions using	3D/OD-7 after the Control Rods settle to '00'		
Standard:	Determines that Shutdown Criteria is met.				
Cue:	JPM is complete				
Comments	None				
	SAT □	UNSAT □	Comment Number		
TERMINATING Operator determination		wn Criteria is or is not	met.		
STOP TIME:					

Operator's Name:				
Job Title: □] NLO □ R	O 🗆 SRO	\square STA	☐ SRO Cert
JPM Title: U	se OD-7 to verify S	Shutdown Criteria		
JPM Number: JI	PM104		Revis	ion Number: 00
Task Number and	Title: 330402.26,	Use Alternate Mea	ans of Determining	g Control Rod Positions.
K/A System	K/A Number	Importance	(RO/SRO)	
214000	A4.02	3.8	3.8	
Suggested Test	ing Environment:	<u>Simulator</u>		
Actual Testing	Environment: □	Simulator	lant □ Control	Room
Actual Testing	Environment.	Simulator 🗀 T	iant 🗀 Control	Koom
Testing Metho	d: ☐ Simulate ☐ Perform	Altern	Faulted: □ Yate Path: ■ Y	Yes □ No Yes □ No
Time Critica	al:	■ No		
Estimated Time t	o Complete: 15 <u>1</u>	<u>minutes</u>	Actual Time Used	d: minutes
References: R	od Control and Inf	ormation System, 3	3304.02, R17b	
R	Reactor Scram, 4100	0.01, R19c		
EVALUATION S Were all the Critic	SUMMARY: al Elements perform	med satisfactorily?	□ Yes	□ No
The operator's per determined to be:	formance was eval	uated against the st	andards contained Unsatisf	d in this JPM, and has been actory
Comments:				
Evaluator's 1	Name:		((Print)
Evaluator's Sign	ature:			Date:

Clinton Power Station Job Performance Measure (JPM)

Initial Conditions

The plant scrammed from rated power. Immediate actions except verification of Shutdown Criteria have been completed.

Initiating Cue

CAUTION

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

Verify SHUTDOWN CRITERIA is met.



CLINTON POWER STATION

Job Performance Measure

Startup Continuous Containment Purge Unfiltered

JPM Number: 106

Revision Number: 01

Date: 05/14/09

Developed By: Tom Pickley 05/14/2009

Instructor Date

Validated By: T. French 7/1/2009

SME or Instructor Date

Reviewed By: J. Lucas 7/1/2009

Operations Representative Date

Clinton Power Station Job Performance Measure (JPM)

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

NOTE:	All steps of this checklist should be performed upon initial validation. Prior to JPM usage, revalidate JPM using steps 8 through 11 below.					
	_ 1.	Task description and number, JPM description and number are identified.				
	_ 2.	Knowledge and Abilities (K/A) references are included. Performance location specified. (in-plant, control room, or simulator) Initial setup conditions are identified. Initiating and terminating cues are properly identified.				
	_ 3.					
	_ 4.					
	_ 5.					
	_ 6.	Task standards identified and verified by SME review. Critical steps meet the criteria for critical steps and are identified with an asterisk (*).				
	_ 7.					
	_ 8.	Verify the procedure referenced by this JPM matches the most current revision of that procedure:				
		Current Procedure Rev Date:				
		Procedure Rev. Referenced Date:				
		• If the Current Procedure Rev. and the Procedure Rev. Referenced are different then revise the JPM.				
	_ 9.	Pilot test the JPM:				
		a. verify cues both verbal and visual are free of conflict, andb. 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				
	SN	ME/Instructor Date				
	SN	ME/Instructor Date				
	SN	ME/Instructor Date				

Clinton Power Station Job Performance Measure (JPM)

Revision Record (Summary)

Revision	Date	Description
00	03/14/07	New Revision
01	05/14/09	Updated procedure revision

Clinton Power Station Job Performance Measure (JPM)

Simulator Setup Instructions

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

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

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

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

Clinton Power Station Job Performance Measure (JPM)

READ TO THE OPERATOR

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

TASK STANDARDS:

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

TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

None

PROCEDURAL/REFERENCES:

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

EVALUATOR INSTRUCTIONS:

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

Clinton Power Station Job Performance Measure (JPM)

INITIAL	CONDITIONS:

You are the B RO.

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

There are no isolation signals present.

ITS Bases for SR 3.6.5.3.2 has been evaluated.

Radiation Protection has been notified.

Containment temperatures are rising requiring CCP to be started.

INITIATING CUE:

CAUTION

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

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

Clinton Power Station Job Performance Measure (JPM)

PERFORMANCE INFORMATION

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

PERFORMANCE STEPS

8.1.1.1 St	tartup Continuous Containment Purge Unfiltered (Auto)
.1	Check that the Containment Building/Drywell HVAC System is stopped per section 8.1.3 or 8.2.2 of this procedure.
Standard:	No action necessary. Addressed in initial conditions.
Cue:	None necessary
Comments	
	SAT UNSAT Comment Number
.2	Verify no isolation signals are present, or reset per section 8.3.1
Standard:	No action necessary. Addressed in initial conditions.
Cue:	None necessary
Comments	
	SAT UNSAT Comment Number

3	During Modes 1, 2, or 3, verify the following are closed: 1) 1VR001A CNMT BLDG SPLY OUT BD ISOL VLV, 2) 1VR001B CNMT BLDG SPLY IN BD ISOL VLV, 3) 1VQ004A CNMT BLDG EXH/PRG OUTBD ISOL VLV, 4) 1VQ004B CNMT BLDG EXH/PRG INBD ISOL VLV, 5) 1VR002A CNMT BLDG SPLY OUTBD ISOL BYP VLV, 6) 1VR002B CNMT BLDG SPLY INBD ISOL BYP VLV, 7) 1VQ006A CNMT BLDG EXH OUTBD ISOL BYP VLV, 8) 1VQ006B CNMT BLDG EXH INBD ISOL BYP VLV, 9) 1VQ002 DW PRG INBD ISL VLV, 10) 1VQ005 DW HD PRG EXH ISOL VLV 11) Document verification in the Auto Log.				
Standard:	Operator verifies that all valves are closed GREEN lights ON and RED lights OFF.				
Cue:	CRS will document in the Autolog.				
Comments					
	SAT UNSAT Comment Number				
4.	Verify/Place C/S In AUTO after close: [1H13-P800 Section 5043]: 1) CNMT BLDG SPLY OUTBD ISOL VLV, 1VR006A. 2) CNMT BLDG SPLY INBD ISOL VLV, 1VR006B. 3) CNMT BLDG EXH/PRG INBD ISOL VLV, 1VR007B. 4) CNMT BLDG EXH/PRG OUTBD ISOL VLV, 1VR007A.				
Standard:	Operator verifies/places C/S In AUTO after close for each valve.				
Cue:					
Comments	SAT UNSAT Comment Number				

*5.	Place the control switch for 1VQ003 DW PRG CNMT EXH INBD ISOL VLV in the OPEN position. 1) Check that 1VQ003 DW PRG CNMT EXH INBD ISOL VLV fully opens.			
Standard:	The operator places control switch for 1VQ003 to OPEN. Observes RED light is ON and GREEN light is OFF.			
Cue:				
Comments				
	SAT UNSAT Comment Number			
6.	Place CNMT BLDG SPLY FAN 1VR06CA/CB SELECTOR switch to 06CA LEAD or 06CB LEAD.			
Standard:	The operator places/verifies the selector switch to the 06CA LEAD position.			
Cue:				
Comments				
	SAT UNSAT Comment Number			
7.	Place CNMT BLDG EXH FAN 1VR07CA/CB SELECTOR switch to 07CA LEAD or 07CB LEAD.			
Standard:	The operator places/verifies the selector switch to the 07CA LEAD position.			
Cue:				
Comments				
	SAT UNSAT Comment Number			

Place the CNMT CONTINUOUS PRG MODE switch in UNFILT.			
The operator places the CNMT CONTINUOUS PRG MODE switch in UNFILT. The operator determines that the Auto Mode is not working			
If asked for direction, ask the operator for a recommendation.			
The operator should recommend and proceed to the "Manual" Startup Section 8.2.1.1.			
SAT UNSAT Comment Number			
p Continuous Containment Purge Unfiltered (Manual Operation)			
Place the CNMT CONTINUOUS PRG MODE switch in MANUAL.			
The operator places the CNMT CONTINUOUS PRG MODE switch in MANUAL.			
The Manual startup repeats the previously performed steps. The operator just needs to ensure they have been performed.			
SAT □ UNSAT □ Comment Number			

*10.	Open CNMT BLDG SPLY OUTBD ISOL VLV 1VR006A.			
Standard:	The operator places the Control Switch for CNMT BLDG SPLY OUTBD ISOL VLV, 1VR006A to OPEN.			
Cue:				
Comments				
	SAT UNSAT Comment Number			
*11.	Open CNMT BLDG SPLY INBD ISOL VLV 1VR006B.			
Standard:	The operator places the Control Switch for CNMT BLDG SPLY INBD ISOL VLV, 1VR006B to OPEN.			
Cue:				
Comments				
	SAT UNSAT Comment Number			

*12.	Open CNMT BLDG EXH/PRG INBD ISOL VLV 1VR007B.			
Standard:	The operator places the Control Switch for CNMT BLDG EXH/PRG INBD ISOL VLV, 1VR007B to OPEN.			
Cue:				
Comments				
	SAT □	UNSAT □	Comment Number	
*13.	Open CNMT BL	DG EXH/PRG OUT	BD ISOL VLV 1VR007A.	
Standard:	The operator places the Control Switch for CNMT BLDG EXH/PRG OUTBD ISOL VLV, 1VR007A to OPEN.			
Cue:				
Comments				
	SAT □	UNSAT □	Comment Number	
*14.	Open HVAC STACK INLET VLV 1VR010.			
Standard:	The operator place to OPEN.	es the Control Switch	for HVAC STACK INLET VLV, 1VR010	
Cue:				
Comments	SAT □	UNSAT □	Comment Number	

*15.	Start CNMT BLDG EXH FAN, 1VR07CA.			
Standard:	The operator places the Control Switch for CNMT BLDG EXH FAN, 1VR07CA to START.			
Cue:				
Comments				
	SAT □ UN	NSAT □	Comment Number	
16.	Verify CNMT BLDG	EXH FAN ISOL V	/LV, 1VR009A (1VR009B) opens.	
Standard:	The operator verifies that CNMT BLDG EXH FAN ISOL VLV, 1VR009A opens, RED light ON and GREEN light OFF.			
Cue:				
Comments				
	SAT □ UN	NSAT □	Comment Number	
*17.	Start CNMT BLDG SPLY FAN 1VR06CA.			
Standard:	The operator places the Control Switch for CNMT BLDG SPLY FAN 1VR06CA to START.			
Cue:				
Comments				
	SAT □ UN	NSAT □	Comment Number	

18.	Verify CNMT BLDG OUTSIDE AIR SPLY INLT VLV 1VR005 opens.			
Standard:	The operator verifies that CNMT BLDG OUTSIDE AIR SPLY INLT VLV, 1VR005 opens, RED light ON and GREEN light OFF.			
Cue:				
Comments				
	SAT UNSAT Comment Number			
19.	Verify CNMT BLDG SPLY FAN ISOL VLV 1VR004A opens.			
Standard:	The operator verifies that CNMT BLDG SPLY FAN ISOL VLV, 1VR004A opens, RED light ON and GREEN light OFF.			
Cue:				
Comments				
	SAT UNSAT Comment Number			
20.	If outside temperature is less than 65°F, Verify on/turn on CCP Heating Coil 1VR05A at CCP Local Control Panel 1PL17J.			
Standard:	No action is necessary, outside temperature is 73°F.			
Cue:	AR/PR or Met Tower indicates outside air temperature is 73°F.			
Comments				
	SAT UNSAT Comment Number			

21.	At the CCP local control panel, 1PL17J, start/verify running Transfer Fan 1VR12C.			
Standard:	The operator directs the plant operator to report on the Transfer Fan status.			
Cue:	Field operator reports Transfer Fan 1VR12C is running.			
Comments				
	SAT UNSAT Comment Number			
22.	Check that Primary Containment to Secondary Containment differential pressure stabilizes between –0.25 and +0.25 psid.			
Standard:	Operator verifies that pressure stabilizes between -0.25 and $+0.25$ psid by having area operator check local panels OPL39JA and OPL39JB locate on 719' el. Control Bldg.			
Cue:	As area operator report that pressure has stabilized at -0.20 psid			
Comments				
	SAT UNSAT Comment Number			

23.	Check that Drywell to Primary Containment differential pressure stabilizes between -0.2 and +1.0 psid.			
Standard:	Operator describes process of verifying that pressure stabilizes between –0.2 and +1.0 psid by comparing Drywell Pressure to ATMs 1E12-N662A, B, C, D, Containment Pressure.			
Cue:	Containment Pres	ssure read at ATM is	0.0 psig.	
Comments				
	SAT □	UNSAT □	Comment Number	
24.	Reports to the CRS that CCP is in the Unfiltered Mode.			
Standard:	CCP is running in the unfiltered mode.			
Cue:				
Comments				
	SAT \square	UNSAT □	Comment Number	
TERMINATING CUES:				
Continuous Containment Purge is running in the Unfiltered Mode.				
STOP TIME:	STOP TIME:			

Operator's Name:				
Job Title: □	NLO □ R	O 🗆 SRO	\square STA	☐ SRO Cert
JPM Title: S	tartup Continuous (Containment Purge	Unfiltered-Autom	atic
JPM Number: 10	06		Revisio	on Number: 01
Task Number and	Containme	Complete Control nt Purge Unfiltered rywell HVAC Syst	Mode (Manual) or	*
K/A System	K/A Number	Importance	(RO/SRO)	
288000	A4.01	3.1	2.9	
Suggested Test	ing Environment:	Simulator,		
Actual Test	ing Environment:	☐ Simulator	☐ Plant	☐ Control Room
Testing Metho	d: ☐ Simulate ☐ Perform		Faulted: ☐ Yeate Path: ☐ Yeate Path: ☐ Yeate	
Time Critica	al:	■ No		
Estimated Time t	o Complete: 15	minutes_	Actual Time Used:	minutes
References: C	CPS No. 3408.01, C	ontainment Buildir	ng/Drywell HVAC	revision 16a.
EVALUATION Some were all the Critic	SUMMARY: al Elements perform	med satisfactorily?	□ Yes	□ No
The operator's per determined to be:	formance was eval	uated against the st ☐ Satisfactory	andards contained Unsatisfa	in this JPM, and has been ctory
Comments:				
Evaluator's Name:			(P	Print)
Evaluator's Signature:				Date:

Clinton Power Station Job Performance Measure (JPM)

Initial Conditions

You are the B RO.

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

There are no isolation signals present.

ITS Bases for SR 3.6.5.3.2 has been evaluated.

Radiation Protection has been notified.

Containment temperatures are rising requiring CCP to be started.

Initiating Cue

CAUTION

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

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