CLINTON POWER STATION

Job Performance Measure

Prepare A Request To Alter The CX/CZ Database

JPM Number: JPM423

Revision Number: 01

Date: 10/2/14

Developed By:	**T. Jennings**	**10/2/14**
	Instructor	**Date**
Validated By:		
	SME or Instructor	**Date**
Reviewed By:		
	Operations Representative	**Date**
Approved By:		
	Training Department	**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 12 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, simulator, or other)

_____ 4. Initial setup conditions are identified.

_____ 5. Initiating cue (and terminating cue if required) 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(s) referenced by this JPM reflects the current revision:
Procedure CPS 3512.01 Rev: 14
Procedure CPS 3512.01F002 Rev: 3
Procedure _____ Rev: _____

_____ 9. Verify cues both verbal and visual are free of conflict.

_____ 10. Verify performance time is accurate

_____ 11. If the JPM cannot be performed as written with proper responses, then revise the JPM.

_____ 12. When JPM is initially validated, sign and date JPM cover page. Subsequent validations, sign and date below:

_____ _____
SME / Instructor Date

_____ _____
SME / Instructor Date

_____ _____
SME / Instructor Date

Clinton Power Station
Job Performance Measure (JPM)

Revision Record (Summary)

Revision	Date	Description
00	6/24/10	New JPM.
01	10/2/14	Updated to new JPM template. Updated to latest procedure revision. Corrected task list number and KA link. Made editorial revisions to JPM steps.

Clinton Power Station
Job Performance Measure (JPM)

Simulator Setup Instructions

1. No simulator setup is required 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:

- Prepare a request to change the CX/CZ database for the Point State parameter computer point B21DC005 to indicate NOT OPEN.

TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

- None

PROCEDURAL/REFERENCES:

- CPS 3512.01, Rev 14 Plant Process Computer (PPC).
- CPS 3512.01F002, Rev 3 CX/CZ Database Alteration Log

EVALUATOR INSTRUCTIONS:

- Amplifying cues are provided within the JPM steps.
- All pre-job briefings are completed.
- Provide a copy to the candidate once the initiating cue is read:
  - CPS 3512.01 Plant Process Computer (PPC)
  - CPS 3512.01F002 CX/CZ Database Alteration Log (Marked Up)

Clinton Power Station
Job Performance Measure (JPM)

INITIAL CONDITIONS:

The plant is at rated power. 1B21-F021, Inboard MSIV Before Seat Warmup Drain Valve has a bad limit switch and is indicating OPEN on the Plant Process Computer display screen. 1B21-F021 is actually shut.

INITIATING CUE:

CAUTION

- All pre-job briefings are completed.

Prepare a request to change the CX/CZ database for the Point State parameter computer point B21DC005 to indicate NOT OPEN.

When complete, submit the request to the SM/CRS for review and approval.

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 3512.01 PLANT PROCESS COMPUTER (PPC)

***8.3.1.1 Enter into the CPS 3512.01F002, CX/CZ Database Alteration Log, the following information in the appropriate fields: POINT ID under the PID field.**

Standard:	Examinee enters "B21DC005" in the Point ID field of CPS 3512.01F002.
Cue:	None
Comments	Any similar terminology entered by the examinee is acceptable.

SAT ☐ UNSAT ☐ Comment Number _____

***8.3.1.1 Enter into the CPS 3512.01F002, CX/CZ Database Alteration Log, the following information in the appropriate fields: The desired parameter to change.**

Standard:	Examinee enters "1B21-F021 position" in the Parameter field of CPS 3512.01F002.
Cue:	None
Comments	Any similar terminology entered by the examinee is acceptable.

SAT ☐ UNSAT ☐ Comment Number _____

Clinton Power Station
Job Performance Measure (JPM)

***8.3.1.1 Enter into the CPS 3512.01F002, CX/CZ Database Alteration Log, the following information in the appropriate fields: The original condition of the parameter.**

Standard:	Examinee enters "Open" in the Original Condition field of CPS 3512.01F002.
Cue:	None
Comments	Any similar terminology entered by the examinee is acceptable.

SAT ☐ UNSAT ☐ Comment Number _____

***8.3.1.1 Enter into the CPS 3512.01F002, CX/CZ Database Alteration Log, the following information in the appropriate fields: The modified condition of the parameter.**

Standard:	Examinee enters "Not Open" in the Modified Condition field of CPS 3512.01F002.
Cue:	None
Comments	Any similar terminology entered by the examinee is acceptable.

SAT ☐ UNSAT ☐ Comment Number _____

***8.3.1.1 When completing the REASON block, state the reason for the change.**

Standard:	Examinee enters "To make PPC indicate the actual valve position" in the Reason field of CPS 3512.01F002.
Cue:	None
Comments	Any similar terminology entered by the examinee is acceptable.

SAT ☐ UNSAT ☐ Comment Number _____

Clinton Power Station
Job Performance Measure (JPM)

8.3.1.1	A duration may be specified after which removal/restoration is required.
Standard:	Examinee enters "Until limit switch problem is corrected" in the Necessary Duration field of CPS 3512.01F002.
Cue:	If asked, limit switch replacement is scoped into the next refueling outage.
Comments	Any similar terminology entered by the examinee is acceptable. SAT ☐ UNSAT ☐ Comment Number _____

8.3.1.2	If the altered computer point is a point used in the reactor heat balance calculations (reference CPS 2208.01F001), notify both the SM and the CRS of this condition. Initial in the space provided when these notifications are complete.
Standard:	Examinee enters "NA" in the notification initial blank.
Cue:	If the examinee request a copy of CPS 2208.01F001, provide him/her with a copy.
Comments	Any similar terminology entered by the examinee is acceptable. The examinee may or may not refer to CPS 2208.01F001 to determine that computer point B21DC005 is not used in the reactor heat balance calculation. SAT ☐ UNSAT ☐ Comment Number _____

8.3.1.3	Obtain the SM/CRS approval to make the alteration by having the SM/CRS initial and date in the space provided.
Standard:	Examinee submits completed CPS 3512.01F002 CX/CZ Database Alteration Log to the examiner.
Cue:	Acknowledge completion of 3512.01F002 and state the JPM is complete.
Comments	
	SAT ☐ UNSAT ☐ Comment Number _____

TERMINATING CUES:

The CX/CZ Database Alteration Log has been submitted for approval IAW CPS No. 3512.01 Plant Process Computer (PPC).

STOP TIME: _____

Clinton Power Station
Job Performance Measure (JPM)

Operator's Name: _____

Job Title: ☐ EO ☐ RO ☐ SRO ☐ STA ☐ SRO Cert

JPM Title: Prepare A Request To Alter The CX/CZ Database

JPM Number: JPM423 Revision Number: 01

Task Number and Title: 351201.43 Obtain Approval and Alter the PPC Database

K/A System	K/A Number	Importance (RO/SRO)	
Generic	2.1.20	4.6	4.6

Suggested Testing Environment: Classroom

Actual Testing Environment: ☐ Simulator ☐ Plant ☐ Control Room

Testing Method: ☐ Simulate ■ Perform

Alternate Path: ☐ Yes ■ No

SRO Only: ☐ Yes ■ No

Time Critical: ☐ Yes ■ No

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

References: CPS No. 3512.01, Rev 14 Plant Process Computer (PPC)
CPS 3512.01F002, Rev 3 CX/CZ Database Alteration Log

EVALUATION SUMMARY:
Were all the Critical Elements performed satisfactorily? ☐ Yes ☐ No

The operator's performance was evaluated against the standards contained in this JPM, and has been determined to be: ☐ Satisfactory ☐ Unsatisfactory

Comments: _____

_____

_____

_____

_____

Evaluator's Name: _____ (Print)

Evaluator's Signature: _____ Date: _____

INITIAL CONDITIONS:

The plant is at rated power. 1B21-F021, Inboard MSIV Before Seat Warmup Drain Valve has a bad limit switch and is indicating OPEN on the Plant Process Computer display screen. 1B21-F021 is actually shut.

INITIATING CUE:

CAUTION

- All pre-job briefings are completed.

Prepare a request to change the CX/CZ database for the Point State parameter computer point B21DC005 to indicate NOT OPEN.

When complete, submit the request to the SM/CRS for review and approval.

CLINTON POWER STATION

Job Performance Measure

Perform Offsite Source Power Verification

JPM Number: JPM441

Revision Number: 02

Date: 10/2/14

Developed By:	**T. Jennings**	**10/2/14**
	Instructor	**Date**
Validated By:		
	SME or Instructor	**Date**
Reviewed By:		
	Operations Representative	**Date**
Approved By:		
	Training Department	**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 12 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, simulator, or other)

_____ 4. Initial setup conditions are identified.

_____ 5. Initiating cue (and terminating cue if required) 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(s) referenced by this JPM reflects the current revision:
Procedure CPS 9082.01 Rev: 40b
Procedure _____ Rev: _____
Procedure _____ Rev: _____

_____ 9. Verify cues both verbal and visual are free of conflict.

_____ 10. Verify performance time is accurate

_____ 11. If the JPM cannot be performed as written with proper responses, then revise the JPM.

_____ 12. When JPM is initially validated, sign and date JPM cover page. Subsequent validations, sign and date below:

_____ _____
SME / Instructor Date

_____ _____
SME / Instructor Date

_____ _____
SME / Instructor Date

Clinton Power Station
Job Performance Measure (JPM)

Revision Record (Summary)

Revision	Date	Description
00	4/8/02	New JPM (old number 9082).
01	5/10/11	Added overrides of computer points.
02	10/2/14	Made minor editorial changes to the simulator setup instruction page to reference the IC number for the ILT 14-1 NRC Operating Exam. Also made editorial changes to the body of the JPM (added panel locations, etc.)

Clinton Power Station
Job Performance Measure (JPM)

Simulator Setup Instructions

1. Initialize to any suitable IC with both Off-site source and all DGs operable and place the simulator in RUN.

2. Open and execute Simulator Lesson Plan ILT14-1 NRC Exam JPM LPs.

3. Release JPM441 which will perform the following:

   · APBA539SUBSV = -1.0
   · APBA539SUBSF = True
   · SYDA501SUBSV = -1.0
   · SYDA501SUBSF = True

3. Verify:
   · 1A1, 1B1 and 1C1 are on the Main power source.
   · Make sure the simulator doesn't have any annunciators OOS that are needed in performance of CPS 9082.01.

4. When the above steps are completed for this and other JPMs to be run concurrently, then validate the concurrently run JPMs if applicable.

5. This completes the setup for this JPM.

6. Save to a different IC if JPM is being used more than once. IC-205 (PW 91632) is saved for the ILT 14-1 NRC Operating Exam.

7. Load MCR Baseline data on PPC Display #10 as follows:

   a. On the Data Viewer File Menu, click on "Viewer / Load Env / MCR Baseline.uall"

8. Freeze Simulator.

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 9082.01, OFFSITE SOURCE POWER VERIFICATION, Revision 40b, Section 8.1, 8.2, and 8.3 are complete in accordance with the procedure.

TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

- None

PROCEDURAL/REFERENCES:

- CPS 9082.01, OFFSITE SOURCE POWER VERIFICATION, Revision 40b

EVALUATOR INSTRUCTIONS:

- Amplifying cues are provided within the JPM steps.
- All pre-job briefings are completed.
- Provide a copy to the candidate once the initiating cue is read:
  - CPS 9082.01, OFFSITE SOURCE POWER VERIFICATION with prerequisite steps 5.1, 5.2, and 5.3 place kept as complete.

Clinton Power Station
Job Performance Measure (JPM)

INITIAL CONDITIONS:

The plant is operating in Mode 1.

The Normal Frequency (7-day) performance of CPS 9082.01, Offsite Source Power Verification, is due to be performed this shift.

CPS 9082.01 Section 5.0 prerequisites are complete.

INITIATING CUE:

CAUTION

- All pre-job briefings are completed.

Perform CPS 9082.01, Offsite Source Power Verification sections 8.1, 8.2, and 8.3.

Inform the CRS when the task is complete.

START TIME: _____

Clinton Power Station
Job Performance Measure (JPM)

PERFORMANCE INFORMATION

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

PERFORMANCE STEPS

CPS 9082.01, Offsite Source Power Verification

8.1.1 Log status of Auxiliary Steam Boilers:

☐ None in service

☐ Aux Boiler in service: #1 ____ or # 2 ____

☞138KV is INOPERABLE if 2 Aux Boilers are in-service.

Standard: Determines there are no Auxiliary Boilers in service, checks the "None in service" block and records his/her initial.

CUE: There are no Auxiliary Boilers in service.

Comments

SAT ☐ UNSAT ☐ Comment Number _____

Clinton Power Station
Job Performance Measure (JPM)

8.1.2	At 1H13-P870, verify ERAT SVC in-service and able to function as follows: ☞ Contact NSED as needed for Engineering Evaluations which support ERAT SVC ability to properly function.
Standard	No action is required. The examinee may contact NSED for applicable Engineering Evaluations.
CUE	If requested, respond that there are no Engineering Evaluations applicable to the ability of the ERAT SVC to function properly.
Comments	There is no action required with this note. The examinee may read, acknowledge the note and continue on. The cue is provided as a contingency. SAT ☐ UNSAT ☐ Comment Number _____

Clinton Power Station
Job Performance Measure (JPM)

8.1.2 (continued)	☞ If annunciator(s) 5011-8E/8F/8G is Out of Service, a walkdown of the ERAT SVC building panels may be used to verify no condition exists which would result in the ERAT SVC not being able to function. If walkdown used in place of annunciator verification, initial the step with a NOTE in the Comments section.
Standard	No action is required. The examinee may verify no OOS stickers on Annunciator windows in conjunction with the following steps to determine 5011-8E/8F/8G are not out of service.
CUE	If requested, respond that there are no OOS annunciators pending.
Comments	There is no action required with this note. The examinee may read, acknowledge the note and continue on. The cue is provided as a contingency. SAT ☐ UNSAT ☐ Comment Number _____

8.1.2.1	Annunciator 5011-8E, ERAT SVC TRIP is deenergized.
Standard	Verifies annunciator 5011-8E, ERAT SVC TRIP is deenergized and then records his/her initial.
CUE	None
Comments	SAT ☐ UNSAT ☐ Comment Number _____

8.1.2.2	Annunciator 5011-8F, ERAT SVC TROUBLE is deenergized, <u>or</u> if energized, that the alarm is not due to a cause which would result in the ERAT SVC not being able to function.
Standard	Verifies annunciator 5011-8F, ERAT SVC TROUBLE is deenergized and then records his/her initial.
CUE	None
Comments	SAT ☐ UNSAT ☐ Comment Number _____

Clinton Power Station
Job Performance Measure (JPM)

8.1.2.3	Annunciator 5011-8G, ERAT SVC FROZEN is deenergized, or if energized, that the alarm is not due to a cause which would result in the ERAT SVC not being able to function.
Standard	Verifies annunciator 5011-8G, ERAT SVC FROZEN is deenergized and then records his/her initial.
CUE	None
Comments	
	SAT ☐ UNSAT ☐ Comment Number _____

8.1.2.4	ERAT SVC Voltage 4084 - 4300V. _____ V
Standard	Records ERAT SVC voltage. Determines ERAT SVC Voltage is within the required range and then records his/her initial.
CUE	None
Comments	
	SAT ☐ UNSAT ☐ Comment Number _____

8.1.2.5	ERAT-LTC Tap in MANUAL at Position 2L.
Standard	Determines ERAT-LTC Tap is in MANUAL at Position 2L and then records his/her initial.
CUE	When position of the ERAT-LTC is requested, reply as the E-area Operator that the ERAT-LTC is in MANUAL at position 2L.
Comments	
	SAT ☐ UNSAT ☐ Comment Number _____

Clinton Power Station
Job Performance Measure (JPM)

8.1.3	At 1H13-P870, verify: 1) ERAT CIRCUIT SWITCHER, B018 is CLOSED. 2) DISC SW ET14 is OPEN. 3) DISC SW ET4 is CLOSED.
Standard	Examinee locates indications for B018, ET14, and ET4 on 1H13-P870-5010 (lower section – right), verifies the following, and then records his/her initials: • B018 – green light off, red light on • ET14 – green light on, red light off • ET4 – green light off, red light on
CUE	None
Comments	
	SAT ☐ UNSAT ☐ Comment Number _____

Clinton Power Station
Job Performance Measure (JPM)

***8.1.4**	**Complete the following voltage table:**	
	Preferred: 138KV Bus (AP-BA539)	_____ kV
Standard	Determines computer point AP-BA539 is bad (white) data.	
CUE	None	
Comments	The 138KV Bus (AP-BA539) computer point is Bad (white) Data so candidate is expected to use the ***Alternate 1*** method. SAT ☐ UNSAT ☐ Comment Number _____	

	Contacts EMD/IMD to use *Alternate* source 1.	_____ VDC
Standard	Records measured value and converts to KV by multiplying by 15.	
CUE	As EMD/IMD, report, "The measured value is 9.2 VDC".	
Comments	If requested, Multimeter EIN was MM1234 with a Cal Due Date of 6/6/15. If ***Alternate* 2** method is selected, the measured value is 0.113 VAC. SAT ☐ UNSAT ☐ Comment Number _____	

	Verify voltage: 138KV Bus Voltage ≥ 129.72.	_____ Initial
Standard	Verifies recorded voltage is within the acceptable range and then records his/her initials.	
CUE	None	
Comments	Calculated value is 138 kV. SAT ☐ UNSAT ☐ Comment Number _____	

Clinton Power Station
Job Performance Measure (JPM)

8.2.1	At 1H13-P870, verify RAT SVC in-service and able to function as follows: ☞ Contact NSED as needed for Engineering Evaluations which support RAT SVC ability to properly function.
Standard	No action is required. The examinee may contact NSED for applicable Engineering Evaluations.
CUE	If requested, respond that there are no Engineering Evaluations applicable to the ability of the RAT SVC to function properly.
Comments	There is no action required with this note. The examinee may read, acknowledge the note and continue on. The cue is provided as a contingency. SAT ☐ UNSAT ☐ Comment Number _____

8.2.1 (continued)	☞ If annunciator(s) 5011-7E/7F/7G is Out of Service, a walkdown of the RAT SVC building panels may be used to verify no condition exists which would result in the RAT SVC not being able to function. If walkdown used in place of annunciator verification, initial the step with a NOTE in the Comments section.
Standard	No action is required. The examinee may verify no OOS stickers on Annunciator windows in conjunction with the following steps to determine 5011-7E/7F/7G are not out of service.
CUE	If requested, respond that there are no OOS annunciators pending.
Comments	There is no action required with this note. The examinee may read, acknowledge the note and continue on. The cue is provided as a contingency. SAT ☐ UNSAT ☐ Comment Number _____

8.2.1.1	Annunciator 5011-7E, RAT SVC TRIP is deenergized.
Standard	Verifies annunciator 5011-7E, RAT SVC TRIP is deenergized and then records his/her initial.
CUE	None
Comments	SAT ☐ UNSAT ☐ Comment Number _____

Clinton Power Station
Job Performance Measure (JPM)

8.2.1.2	Annunciator 5011-7F, RAT SVC TROUBLE is deenergized, or if energized, that the alarm is not due to a cause which would result in the RAT SVC not being able to function.
Standard	Verifies annunciator 5011-7F, RAT SVC TROUBLE is deenergized and then records his/her initial.
CUE	None
Comments	
	SAT ☐ UNSAT ☐ Comment Number _____

8.2.1.3	Annunciator 5011-7G, RAT SVC FROZEN is deenergized, or if energized, that the alarm is not due to a cause which would result in the RAT SVC not being able to function.
Standard	Verifies annunciator 5011-7G, RAT SVC FROZEN is deenergized and then records his/her initial.
CUE	None
Comments	
	SAT ☐ UNSAT ☐ Comment Number _____

8.2.1.4	RAT SVC Voltage 4084 - 4300V. _____ V
Standard	Records RAT SVC voltage. Determines RAT SVC Voltage is within the required range and then records his/her initial.
CUE	None
Comments	
	SAT ☐ UNSAT ☐ Comment Number _____

8.2.1.5	RAT B-LTC Tap in MANUAL at Position 5.
Standard	Determines RAT B-LTC Tap is in MANUAL at Position 5 and then records his/her initial.
CUE	When position of the RAT-LTC is requested, reply as the E-area Operator that the RAT-LTC is in MANUAL at position 5.
Comments	
	SAT ☐ UNSAT ☐ Comment Number _____

8.2.2	At 1H13-P870, verify: 1) RAT 1 CIRCUIT SWITCHER, 4538 is CLOSED. 2) DISC SWITCH RT14 is CLOSED. 3) DISC SWITCH RT4 is OPEN.
Standard	Examinee locates indications for 4538, RT14, and RT4 on 1H13-P870-5010 (lower section – left) and 5012 (lower section – middle), verifies the following, and then records his/her initials: • 4538 – green light off, red light on • RT14 – green light off, red light on • RT4 – green light on, red light off
CUE	None
Comments	
	SAT ☐ UNSAT ☐ Comment Number _____

Clinton Power Station
Job Performance Measure (JPM)

***8.2.3**	**Complete the following voltage table:**	
	Voltage source {mark one}: ***Preferred***, as long as the North and South Buses are connected: South Bus (SY-DA501 or Meter) ☐ OR ***Alternate 1***: North Bus (SY-DA502 or Meter) ☐	_____ KV
Standard	Determines North and South Buses are connected and records 345 kV Bus voltage from the *Preferred* source (SY-DA501 or meter).	
CUE	None	
Comments	The South Bus computer point is Bad (white) Data so candidate is expected to use the Meter on 1H13-P870-5010 (upper section – right) or ***Alternate 1***. If ***Alternate* 2** method is selected, the measured value is 115 MV DC. SAT ☐ UNSAT ☐ Comment Number _____	
	Verify voltage: 345KV Bus Voltage ≥ 327.40 KV.	_____ Initial
Standard	Verifies recorded voltage is within the acceptable range and then records his/her initials.	
CUE	None	
Comments	Meter reading is ~ 360 kV. SAT ☐ UNSAT ☐ Comment Number _____	

8.3.1.1.	4160V Bus 1A1 Feeder Breaker Verification (1H13-P877-5060) Verify one of the following breakers is CLOSED, and the other one is in AUTO position, or N/A if source is not required to be OPERABLE: Auto Closed Init 1) 4160V Bus 1A1 Mn Bkr (1AP07EK) ____ ____ _____ ☞ 345KV Source OPERABLE for Div 1 bus when step satisfied. 2) 4160V Bus 1A1 Res Bkr (1AP07EH) ____ ____ _____ ☞ 138KV Source OPERABLE for Div 1 bus when step satisfied.
Standard	Examinee verifies breaker 1AP07EK is closed (green light off, red light on), places a check in the "Closed" blank and then records his/her initials. Examinee verifies control switch for 1AP07EH is in Auto, places a check in the "Auto" blank and then records his/her initials.
CUE	None
Comments	1AP07EK breaker position may also be recorded as Auto & Closed. SAT ☐ UNSAT ☐ Comment Number _____

8.3.1.2.	Verify annunciator 5060-1D, NOT AVAILABLE 4160V BUS BREAKER is deenergized, or if energized, that the alarm cause is not due to a source which is required to be OPERABLE.
Standard	Examinee verifies annunciator 5060-1D, NOT AVAILABLE 4160V BUS BREAKER is NOT out of service and is deenergized and then records his/her initials.
CUE	None
Comments	SAT ☐ UNSAT ☐ Comment Number _____

8.3.2.1.	4160V Bus 1B1 Feeder Breaker Verification (1H13-P877-5061) Verify one of the following breakers is CLOSED, and the other one is in AUTO position, or N/A if source is not required to be OPERABLE: Auto Closed Init 1) 4160V Bus 1B1 Mn Bkr (1AP09EA) ____ ____ _____ ☞ 345KV Source OPERABLE for Div 2 bus when step satisfied. 2) 4160V Bus 1B1 Res Bkr (1AP09EC) ____ ____ _____ ☞ 138KV Source OPERABLE for Div 2 bus when step satisfied.
Standard	Examinee verifies breaker 1AP09EA is closed (green light off, red light on), places a check in the "Closed" blank and then records his/her initials. Examinee verifies control switch for 1AP09EC is in Auto, places a check in the "Auto" blank and then records his/her initials.
CUE	None
Comments	1AP07EK breaker position may also be recorded as Auto & Closed. SAT ☐ UNSAT ☐ Comment Number _____

8.3.2.2.	Verify annunciator 5061-1D, NOT AVAILABLE 4160V BUS BREAKER is deenergized, or if energized, that the alarm cause is not due to a source which is required to be OPERABLE.
Standard	Examinee verifies annunciator 5061-1D, NOT AVAILABLE 4160V BUS BREAKER is deenergized and then records his/her initials.
CUE	None
Comments	SAT ☐ UNSAT ☐ Comment Number _____

Clinton Power Station
Job Performance Measure (JPM)

8.3.3.1.	4160V Bus 1C1 Feeder Breaker Verification (1H13-P601-5062) Verify one of the following breakers is CLOSED, and the other one is in AUTO position, or N/A if source is not required to be OPERABLE: Auto Closed Init 1) 4160V Bus 1C1 Mn Bkr (1RT4C1) ____ ____ _____ ☞ 345KV Source OPERABLE for Div 3 bus when step satisfied. 2) 4160V Bus 1C1 Res Bkr (1ETR4C1) ____ ____ _____
Standard	Examinee verifies breaker 1RT4C1 is closed (green light off, red light on), places a check in the "Closed" blank and then records his/her initials. Examinee verifies control switch for 1ETR4C1 is in Auto, places a check in the "Auto" blank and then records his/her initials.
CUE	None
Comments	1RT4C1 breaker position may also be recorded as Auto & Closed. SAT ☐ UNSAT ☐ Comment Number _____

8.3.3.2.	Verify annunciator 5062-7B, HPCS NOT READY FOR AUTO START/BKR IN LOWER POS is deenergized, or if energized, that the alarm cause is not due to a source which is required to be OPERABLE.
Standard	Examinee verifies annunciator 5062-7B, HPCS NOT READY FOR AUTO START/BKR IN LOWER POS is deenergized and then records his/her initials.
CUE	None
Comments	
	SAT ☐ UNSAT ☐ Comment Number _____

8.4.	Notify the SMngt of surveillance completion.
Standard	Examinee records date, time, and initial for step 8.4, and notifies SMngt the surveillance is completed.
CUE	Acknowledge notification of surveillance completion.
Comments	
	SAT ☐ UNSAT ☐ Comment Number _____

TERMINATING CUES:

All required data has been recorded. Shift Management has been notified of surveillance completion.

STOP TIME: _____

Clinton Power Station
Job Performance Measure (JPM)

Operator's Name: _____

Job Title: ☐ EO ☐ RO ☐ SRO ☐ STA ☐ SRO Cert

JPM Title: Perform Offsite Source Power Verification

JPM Number: JPM441 Revision Number: 02

Task Number and Title: 908201.01 Complete Control Room actions to perform the Offsite Source Power Verification

K/A System	K/A Number	Importance (RO/SRO)	
Generic	2.1.31	4.6	4.3
Ability to locate control room switches, controls, and indications, and to determine that they correctly reflect the desired plant lineup.			

Suggested Testing Environment: Simulator

Actual Testing Environment: ■ Simulator ☐ Plant ☐ Control Room

Testing Method: ☐ Simulate ■ Perform

Alternate Path: ☐ Yes ■ No

SRO Only: ☐ Yes ■ No

Time Critical: ☐ Yes ■ No

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

References: CPS 9082.01, OFFSITE SOURCE POWER VERIFICATION, Revision 40b

EVALUATION SUMMARY:

Were all the Critical Elements performed satisfactorily? ☐ Yes ☐ No

The operator's performance was evaluated against the standards contained in this JPM, and has been determined to be: ☐ Satisfactory ☐ Unsatisfactory

Comments: _____

_____

_____

_____

_____

Evaluator's Name: _____ (Print)

Evaluator's Signature: _____ Date: _____

INITIAL CONDITIONS:

The plant is operating in Mode 1.

The Normal Frequency (7-day) performance of CPS 9082.01, Offsite Source Power Verification, is due to be performed this shift.

CPS 9082.01 Section 5.0 prerequisites are complete.

INITIATING CUE:

CAUTION

- All pre-job briefings are completed.

Perform CPS 9082.01, Offsite Source Power Verification sections 8.1, 8.2, and 8.3.

Inform the CRS when the task is complete.

FOR TRAINING USE ONLY

Clinton Power Station

Radiation Work Permit

Worker Information

RWP#: 10010001 Rev: **0**

RWP Description: 2014 Operations Department Generic

Unit:	Building:	Elevation:	Location:
1	All	All	Various
Equipment:	Various		

RWP Dose Approval:	25 mrem
ED Dose Alarm:	20 mrem
Dose Rate Alarm:	200 mrem/hr

Exposure Monitoring Requirements

DLR and Electronic Dosimeter

Teledosimetry may be used in lieu of standard ED.

ED setpoints may be raised IAW RP-AA-403 based upon current survey data in the work location.

Respiratory Protection Required

Radiation Protection shall evaluate for engineering control and respiratory protection per RP-AA-401.

Special Instructions

This RWP allows High Radiation Area access: A specific HRA briefing is required to enter.

No LHRA access permitted on this RWP.

Electronic Dosimeters should be checked at approximately 15 minute intervals or more often in higher radiation areas.

Radiation Worker Pocket Data Sheet “Trip Ticket” will be used by each individual for each entry.

Verify with RP that your work area has been surveyed AND that the ED dose rate alarm and dose alarm setpoints are adequate. If dose rates and/or contamination levels and/or dosimetry placement (when applicable) are not known for current plant status, an RPT may survey the area prior to start of work.

Contact RP prior to accessing areas above 7 ft.

NO work to be done in pools of water on this RWP, ie 755 Fuel/828&737 CT and suppression pool.

Stop Work Limits:

1. GA dose rates =/> 200 mr/hr
2. GA contamination levels =/> 100K dpm/100cm2
3. Airborne radioactivity =/> 0.3 DAC

Protective Clothing Requirements

Protective Clothing (≤ 100,000 dpm/100 cm2)

Coveralls, Hardhat cover, cotton liners, 1 pair rubber gloves, rubber shoe covers and booties

Protective Clothing (< 10,000 dpm/100 cm2)
RP APPROVAL REQUIRED

Modesty garments, rubber shoe covers and booties, cotton liners, 1 pair rubber gloves

Company modesty garments shall be worn under PC’s.

FOR TRAINING USE ONLY

Clinton Power Station

Radiation Work Permit

Radiation Protection Information

RWP#: 10010001 Rev: **0**

Survey Frequency Requirements:

Radiation : **R**

Contamination: **R**

Airborne: **R**

Shielding Recommended:

þ None

Temporary

Permanent

Pre-Job Briefing Notes:

RPT Coverage / Comments:

ÿ **Initial**
þ **Intermittent**
ÿ **Continuous**

RP Supervisor	ALARA Review By
Prepared By *J. Smith* *1/1/2015*	Terminated By
Job Supervisor	

CLINTON POWER STATION

Job Performance Measure

Perform CPS 9000.01D001 Control Room
Surveillance Log – Mode 1, 2, 3

JPM Number: JPM534

Revision Number: 00

Date: 10/3/14

Developed By:	**T. Jennings**	**10/3/14**
	Instructor	**Date**
Validated By:		
	SME or Instructor	**Date**
Reviewed By:		
	Operations Representative	**Date**
Approved By:		
	Training Department	**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 12 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, simulator, or other)

_____ 4. Initial setup conditions are identified.

_____ 5. Initiating cue (and terminating cue if required) 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(s) referenced by this JPM reflects the current revision:
Procedure CPS 9000.01 Rev: 35c
Procedure CPS 9000.01D001 Rev: 54c
Procedure _____ Rev: _____

_____ 9. Verify cues both verbal and visual are free of conflict.

_____ 10. Verify performance time is accurate

_____ 11. If the JPM cannot be performed as written with proper responses, then revise the JPM.

_____ 12. When JPM is initially validated, sign and date JPM cover page. Subsequent validations, sign and date below:

_____ _____
SME / Instructor Date

_____ _____
SME / Instructor Date

_____ _____
SME / Instructor Date

Clinton Power Station
Job Performance Measure (JPM)

Revision Record (Summary)

Revision	Date	Description
00	10/3/14	New JPM.

Clinton Power Station
Job Performance Measure (JPM)

Simulator Setup Instructions

1. Initialize to any suitable IC with the plant in Mode 1 at any power level with the RWCU system in a normal system alignment with 2 pumps and 2 filter demineralizers in service. IC-205 (PW 91632) is saved for the ILT 14-1 NRC Exam.

2. Open and execute Simulator Lesson Plan ILT 14-1 NRC Exam JPM LPs.

3. Release JPM534 which will perform the following:

   - Override A09_A01_M06_1 to 0.6 (Div 1 RWCU Differential Flow Instrument on 1H13-P632 to 60 gpm).

   - Override RILEY_VAL_V(4) to 107 (1E31-N622A RWCU Pump Room 2 temperature on 1H13-P632).

> **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. Prepare a Candidate copy of CPS 9000.01D001 pages 17 and 18 all checklist steps deleted with the exception of steps 8.8.32, 8.8.33.1, and 8.8.33.2. Record performer initials in the blanks for steps 8.8.32 and 8.8.33.2 as follows:

   a. For Monday – Midshift, Dayshift, and Swingshift checks initialed for steps 8.8.32 – 8.8.33.2.

   b. For Tuesday:

      1) Midshift checks initialed for steps 8.8.32 & 8.8.33.2

      2) Day shift checks for steps 8.8.32 and 8.8.33.2 – leave blank

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.

7. Save to a different IC if JPM is being used more than once.

8. Freeze Simulator.

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:

- Channel checks have been performed for Reactor Water Cleanup (RWCU) System Isolation Delta Flow and RWCU System Leak Detection System Isolations instrumentation IAW CPS 9000.01D001 Control Room Surveillance Log – Mode 1, 2, 3.

TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

- None

PROCEDURAL/REFERENCES:

- CPS No. 9000.01, Rev 35c Control Room Surveillance Log
- CPS No. 9000.01D001, Rev 54c Control Room Surveillance Log – Mode 1, 2, 3

EVALUATOR INSTRUCTIONS:

- Amplifying cues are provided within the JPM steps.
- All pre-job briefings are completed.
- This JPM is written to require the examinee to perform channel checks of RWCU system instruments located on 1H13-P632 and 1H13-P642. ONLY 1H13-P632 is modeled in the simulator (1H13-P642 is NOT). Indications on 1H13-P642 will be provided to the examinee using a P642 graphics attachment in the back of this JPM.
- Provide a copy to the candidate once the initiating cue is read:
  - CPS 9000.01D001 Control Room Surveillance Log – Mode 1, 2, 3
  - 9000.01 Data Sheets for previous day and Midshift.

Clinton Power Station
Job Performance Measure (JPM)

INITIAL CONDITIONS:

It is dayshift on Tuesday.

The plant is in Mode 1.

CPS 9000.01D001 Control Room Surveillance Log – Mode 1, 2, 3 is in progress and is partially complete.

INITIATING CUE:

CAUTION

- All pre-job briefings are completed.

You are an extra RO.

The CRS has directed you to complete sections 8.8.32 (Reactor Water Cleanup (RWCU) System Isolation Delta Flow), and 8.8.33.2a – 8.8.33.2e (RWCU Sys Isol – Equipment Area Temperatures) of CPS 9000.01D001 Control Room Surveillance Log – Mode 1, 2, 3.

Report any abnormalities found to the CRS.

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 9000.01D001 Control Room Surveillance Log – Mode 1, 2, 3

***8.8.32 Channel Check RWCU Delta Flow indications.**

Standard: Examinee locates RWCU Diff Flow A meter on 1H13-P632 and observes that the meter reads 60 gpm.

Examinee observes that the RWCU Diff Flow B meter on the attached graphic reads 62 gpm.

Examinee determines that the indicators are within the comparison guideline value (10 gpm), but that the instruments are reading above the Group 4 isolation setpoint for RWCU Differential Flow (59 gpm for 45 seconds) and have risen from the values indicated on the 9000.01 Data Sheets.

Examinee reports issue to the Control Room Supervisor.

Cue: When the examinee requests the meter indication for the Div 2 RWCU Differential Flow Meter on 1H13-P642, provide him/her with the graphic labeled "RWCU Diff Flow B" attached to the back of this JPM.

When the examinee reports the issue to the CRS, acknowledge the report and inform the examinee that you will refer to Technical Specifications and contact Maintenance to investigate.

Cue the examinee to complete the task.

Comments: Per CPS 9000.01D001, the Comparison Guideline is 10 gpm.

SAT ☐ UNSAT ☐ Comment Number _____

Clinton Power Station
Job Performance Measure (JPM)

8.8.33.2a)	Channel Check RWCU Pump Room 1 Temperature indications.
Standard:	Examinee locates NUS Temperature Module 1E31-N621A on 1H13-P632 (top row) and observes a reading of ~96°F. Examinee observes that the NUS Temperature Module 1E31-N621B on the attached P642 graphic reads 102°F. Examinee determines that the channel check of 1E31-N621A and 621B is satisfactory, and records his/her initials in 9000.01D001.
Cue:	When the examinee requests the meter indication for 1E31-N621B on 1H13-P642, provide him/her with the graphic labeled "Leak Detection Panel 1H13-P642" attached to the back of this JPM.
Comments	Per CPS 9000.01D001, the Comparison Guideline is 20°F. SAT ☐ UNSAT ☐ Comment Number _____

Clinton Power Station
Job Performance Measure (JPM)

***8.8.33.2b)**	**Channel Check RWCU Pump Room 2 Temperature indications.**
Standard:	Examinee locates NUS Temperature Module 1E31-N622A on 1H13-P632 (second row) and observes a reading of ~107°F. Examinee observes that the NUS Temperature Module 1E31-N622B on the attached P642 graphic reads 86°F. Examinee determines that the channel check of 1E31-N622A and 622B is UNSAT, and reports the issue to the Control Room Supervisor.
Cue:	When the examinee requests the meter indication for 1E31-N622B on 1H13-P642, provide him/her with the graphic labeled "Leak Detection Panel 1H13-P642" attached to the back of this JPM. When the examinee reports the issue to the CRS, acknowledge the report and inform the examinee that you will refer to Technical Specifications and contact Maintenance to investigate. Cue the examinee to complete the task.
Comments	Per CPS 9000.01D001, the Comparison Guideline is 20°F. SAT ☐ UNSAT ☐ Comment Number _____

8.8.33.2c)	Channel Check RWCU Pump Room 3 Temperature indications.
Standard:	Examinee locates NUS Temperature Module 1E31-N621E on 1H13-P632 (second row) and observes a reading of ~80°F. Examinee observes that the NUS Temperature Module 1E31-N621F on the attached P642 graphic reads 86°F. Examinee determines that the channel check of 1E31-N621E and 621F is satisfactory, and records his/her initials in 9000.01D001.
Cue:	When the examinee requests the meter indication for 1E31-N621F on 1H13-P642, provide him/her with the graphic labeled "Leak Detection Panel 1H13-P642" attached to the back of this JPM.
Comments	Per CPS 9000.01D001, the Comparison Guideline is 25°F. SAT ☐ UNSAT ☐ Comment Number _____

8.8.33.2d)	Channel Check RWCU HX Room A Temperature indications.
Standard:	Examinee locates NUS Temperature Module 1E31-N620A on 1H13-P632 (second row) and observes a reading of ~86°F. Examinee observes that the NUS Temperature Module 1E31-N620B on the attached P642 graphic reads 80°F. Examinee determines that the channel check of 1E31-N620A and 620B is satisfactory, and records his/her initials in 9000.01D001.
Cue:	When the examinee requests the meter indication for 1E31-N620B on 1H13-P642, provide him/her with the graphic labeled "Leak Detection Panel 1H13-P642" attached to the back of this JPM.
Comments	Per CPS 9000.01D001, the Comparison Guideline is 25°F. SAT ☐ UNSAT ☐ Comment Number _____

Clinton Power Station
Job Performance Measure (JPM)

8.8.33.2e)	Channel Check RWCU HX Room B Temperature indications.
Standard:	Examinee locates NUS Temperature Module 1E31-N626A on 1H13-P632 (fourth row) and observes a reading of ~80°F. Examinee observes that the NUS Temperature Module 1E31-N626B on the attached P642 graphic reads 90°F. Examinee determines that the channel check of 1E31-N626A and 626B is satisfactory, and records his/her initials in 9000.01D001.
Cue:	When the examinee requests the meter indication for 1E31-N626B on 1H13-P642, provide him/her with the graphic labeled "Leak Detection Panel 1H13-P642" attached to the back of this JPM. JPM can be terminated when steps 8.8.32 and 8.8.33 are complete.
Comments	Per CPS 9000.01D001, the Comparison Guideline is 25°F. SAT ☐ UNSAT ☐ Comment Number _____

TERMINATING CUES:

Channel checks of the Reactor Water Cleanup (RWCU) System Isolation Delta Flow and RWCU System Leak Detection System Isolations instrumentation is complete IAW CPS 9000.01D001 Control Room Surveillance Log – Mode 1, 2, 3.

STOP TIME: _____

Clinton Power Station
Job Performance Measure (JPM)

Operator's Name: _____

Job Title: ☐ EO ☐ RO ☐ SRO ☐ STA ☐ SRO Cert

JPM Title: Perform CPS 9000.01D001 Control Room Surveillance Log – Mode 1, 2, 3

JPM Number: JPM534 Revision Number: 00

Task Number and Title: 900001.01 Perform the control room surveillance log

K/A System	K/A Number	Importance (RO/SRO)	
Generic	2.2.12	3.7	4.1
Knowledge of surveillance procedures.			

Suggested Testing Environment: Simulator

Actual Testing Environment: ■ Simulator ☐ Plant ☐ Control Room

Testing Method: ☐ Simulate ■ Perform

Alternate Path: ☐ Yes ■ No

SRO Only: ☐ Yes ■ No

Time Critical: ☐ Yes ■ No

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

References: CPS No. 9000.01, Rev 35c Control Room Surveillance Log

CPS No. 9000.01D001, Rev 54c Control Room Surveillance Log – Mode 1, 2, 3

EVALUATION SUMMARY:

Were all the Critical Elements performed satisfactorily? ☐ Yes ☐ No

The operator's performance was evaluated against the standards contained in this JPM, and has been determined to be: ☐ Satisfactory ☐ Unsatisfactory

Comments: _____

_____

_____

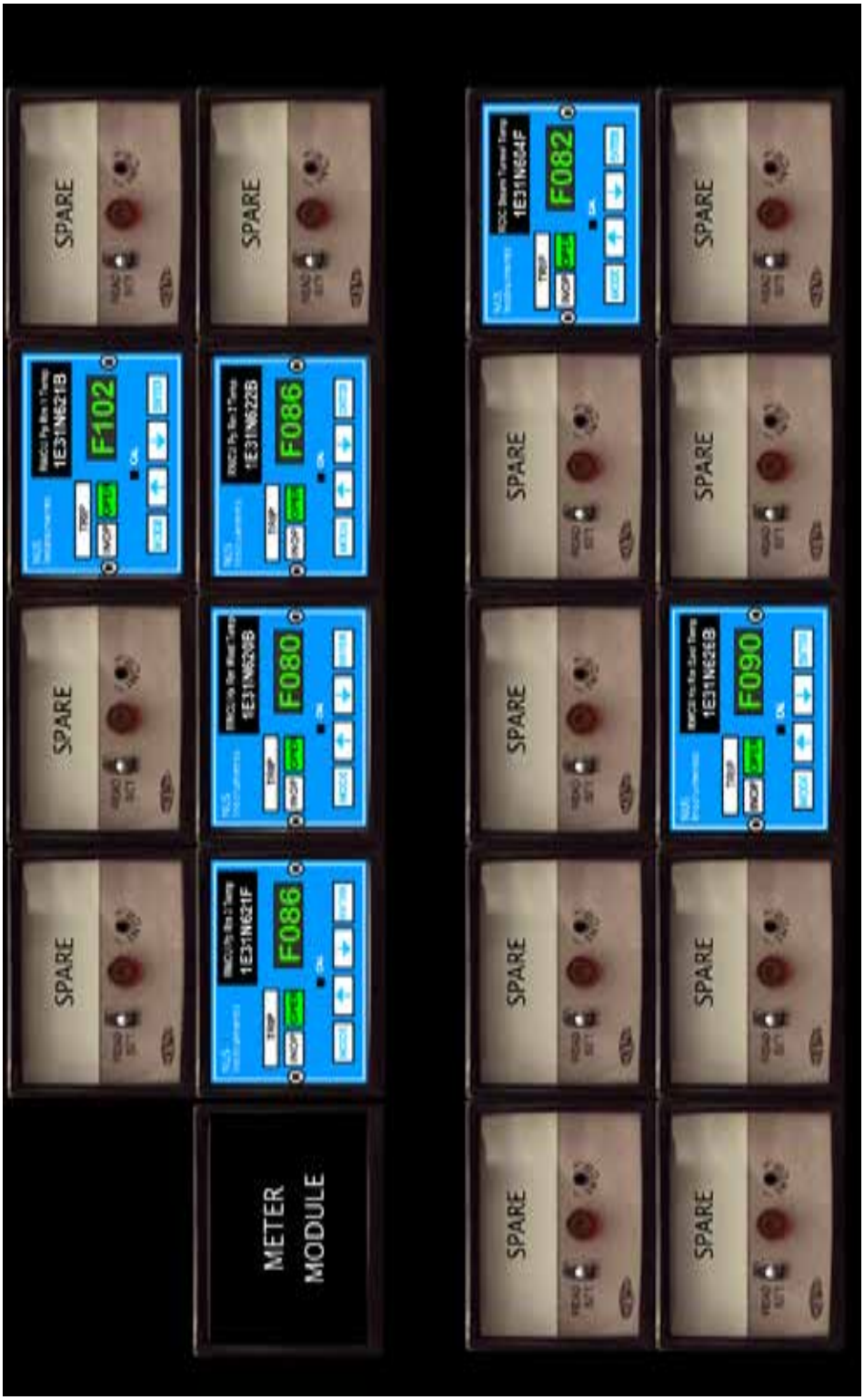
_____

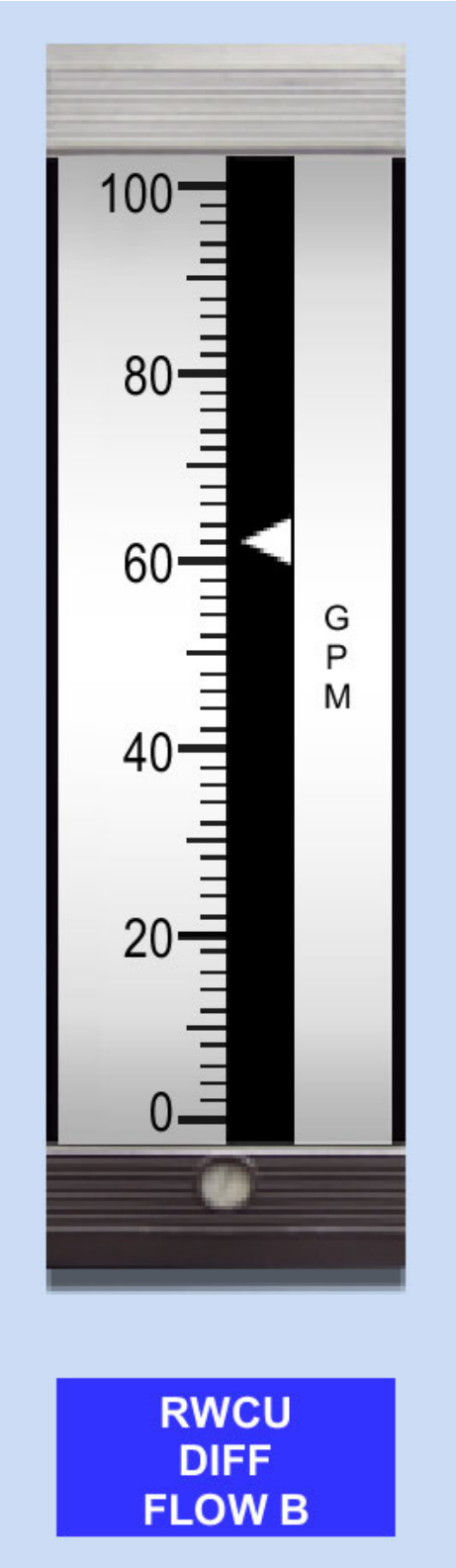
_____

Evaluator's Name: _____ (Print)

Evaluator's Signature: _____ Date: _____

Leak Detection Panel 1H13-P642




100
80
60
40
20
0
GPM
RWCU
DIFF
FLOW B

INITIAL CONDITIONS:

It is dayshift on Tuesday.

The plant is in Mode 1.

CPS 9000.01D001 Control Room Surveillance Log – Mode 1, 2, 3 is in progress and is partially complete.

INITIATING CUE:

CAUTION

- All pre-job briefings are completed.

You are an extra RO.

The CRS has directed you to complete sections 8.8.32 (Reactor Water Cleanup (RWCU) System Isolation Delta Flow), and 8.8.33.2a – 8.8.33.2e (RWCU Sys Isol – Equipment Area Temperatures) of CPS 9000.01D001 Control Room Surveillance Log – Mode 1, 2, 3.

Report any abnormalities found to the CRS.

CLINTON POWER STATION

Job Performance Measure

Review CPS 9170.02 Control Room HVAC Chilled Water Valve Operability Test

JPM Number: JPM509

Revision Number: 02

Date: 10/8/14

Developed By:	**T. Jennings**	**10/8/14**
	Instructor	**Date**
Validated By:		
	SME or Instructor	**Date**
Reviewed By:		
	Operations Representative	**Date**
Approved By:		
	Training Department	**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 12 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, simulator, or other)

_____ 4. Initial setup conditions are identified.

_____ 5. Initiating cue (and terminating cue if required) 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(s) referenced by this JPM reflects the current revision:
Procedure CPS 9170.02 Rev: 32a
Procedure _____ Rev: _____
Procedure _____ Rev: _____

_____ 9. Verify cues both verbal and visual are free of conflict.

_____ 10. Verify performance time is accurate

_____ 11. If the JPM cannot be performed as written with proper responses, then revise the JPM.

_____ 12. When JPM is initially validated, sign and date JPM cover page. Subsequent validations, sign and date below:

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

Clinton Power Station
Job Performance Measure (JPM)

Revision Record (Summary)

Revision	Date	Description
00	11/18/12	New JPM.
01	7/5/13	Updated procedure reference on page 10.
02	10/8/14	Updated to new JPM template. Made minor editorial changes to the initiating cue and added a step to perform a review of section 8.3.

Clinton Power Station
Job Performance Measure (JPM)

Simulator Setup Instructions

1. No simulator setup is required 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:

- SRO review of CPS 9170.02 Control Room HVAC Chilled Water Valve Operability Test is complete, errors identified and corrected.

TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

- None

PROCEDURAL/REFERENCES:

- CPS No. 9170.02, Rev 32a CONTROL ROOM HVAC CHILLED WATER VALVE OPERABILITY TEST

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:

The plant is in Mode 1. VC train 'B' is operating.

CPS 9170.02 Control Room HVAC Chilled Water Valve Operability Test, sections 8.1 and 8.3 were performed on the 'A' VC train for post maintenance testing.

CPS 9170.02 is field complete, awaiting supervisory review.

INITIATING CUE:

CAUTION

- All pre-job briefings are completed.

You are an on-shift SRO.

Review CPS 9170.02 Control Room HVAC Chilled Water Valve Operability Test.

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 9170.02 CONTROL ROOM HVAC CHILLED WATER VALVE OPERABILITY TEST

1 Examinee reviews section 5.0 Prerequisites.

Standard: Examinee determines section 5.0 is filled out correctly.

Cue: None

Comments

SAT ☐ UNSAT ☐ Comment Number _____

2 Examinee reviews section 7.0 Materials/Test Equipment.

Standard: Examinee determines section 7.0 is filled out correctly.

Cue: None

Comments

SAT ☐ UNSAT ☐ Comment Number _____

***3 Examinee reviews section 8.1 0VC016A(B), 0VC017A(B), 0VC020A(B) Exercise.**

Standard: Examinee will discover the following deficiencies.

- In step 8.1.8.4, the Equipment Operator recorded 240/130 (the value recorded in step 8.1.8.3) = 2.0 which is incorrect. The correct value that should have been recorded was 240 / 130 = 1.85 gpm which is below the acceptance criteria listed in section 9.0.

Cue: None

Comments

SAT ☐ UNSAT ☐ Comment Number _____

***4 Examinee reviews section 8.1 0VC016A(B), 0VC017A(B), 0VC020A(B) Exercise.**

Standard: Examinee will discover the following deficiencies.

- At step 8.1.19, the Equipment Operator recorded "No flow" in the data sheet when flow should have been observed.

Cue: None

Comments

SAT ☐ UNSAT ☐ Comment Number _____

Clinton Power Station
Job Performance Measure (JPM)

***5 Examinee reviews section 8.1 0VC016A(B), 0VC017A(B), 0VC020A(B) Exercise.**

Standard: Examinee will discover the following deficiencies.

- Steps 8.1.25 – 8.1.30 were inappropriately NA'd. Restoration of the VC 'A' Chilled water system has not been completed.

Cue: None

Comments

SAT ☐ UNSAT ☐ Comment Number _____

---

6 Examinee reviews section 8.3 0VC010A(B) Exercise.

Standard: Examinee determines section 8.3 is filled out correctly.

Cue: None

Comments

SAT ☐ UNSAT ☐ Comment Number _____

---

7 Examinee takes appropriate action for deficiencies identified during surveillance review.

Standard: Examinee takes appropriate action for deficiencies identified during surveillance review.

Cue: When the examinee explains the corrective actions that would be taken (AR initiation, etc), cue him/her that the JPM is complete.

Comments

SAT ☐ UNSAT ☐ Comment Number _____

Clinton Power Station
Job Performance Measure (JPM)

TERMINATING CUES:

SRO review of CPS No. 9170.02 is complete.

STOP TIME: _____

Clinton Power Station
Job Performance Measure (JPM)

Operator's Name: _____

Job Title: ☐ EO ☐ RO ■ SRO ☐ STA ☐ SRO Cert

JPM Title: Review CPS 9170.02 Control Room HVAC Chilled Water Valve Operability Test

JPM Number: JPM509 Revision Number: 02

Task Number and Title: 101100.01 Apply the administrative requirements of Surveillance Testing Program.

K/A System	K/A Number	Importance (RO/SRO)	
Generic	2.1.7	4.4	4.7
Ability to evaluate plant performance and make operational judgments based on operating characteristics, reactor behavior, and instrument interpretation.			

Suggested Testing Environment: Any

Actual Testing Environment: ☐ Simulator ☐ Plant ☐ Control Room

Testing Method: ☐ Simulate ■ Perform **Alternate Path:** ☐ Yes ■ No **SRO Only:** ■ Yes ☐ No

Time Critical: ☐ Yes ■ No

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

References: CPS No. 9170.02, Rev 32a Control Room HVAC Chilled Water Valve Operability Test

EVALUATION SUMMARY:
Were all the Critical Elements performed satisfactorily? ☐ Yes ☐ No

The operator's performance was evaluated against the standards contained in this JPM, and has been determined to be: ☐ Satisfactory ☐ Unsatisfactory

Comments: _____

_____

_____

_____

_____

Evaluator's Name: _____ (Print)

Evaluator's Signature: _____ Date: _____

INITIAL CONDITIONS:

The plant is in Mode 1. VC train 'B' is operating.

CPS 9170.02 Control Room HVAC Chilled Water Valve Operability Test, sections 8.1 and 8.3 were performed on the 'A' VC train for post maintenance testing.

CPS 9170.02 is field complete, awaiting supervisory review.

INITIATING CUE:

CAUTION

- All pre-job briefings are completed.

You are an on-shift SRO.

Review CPS 9170.02 Control Room HVAC Chilled Water Valve Operability Test.

CLINTON POWER STATION

Job Performance Measure

Determine Reporting Requirements

JPM Number: JPM535

Revision Number: 00

Date: 10/8/14

Developed By:	**T. Jennings**	**10/08/14**
	Instructor	**Date**
Validated By:		
	SME or Instructor	**Date**
Reviewed By:		
	Operations Representative	**Date**
Approved By:		
	Training Department	**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 12 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, simulator, or other)

_____ 4. Initial setup conditions are identified.

_____ 5. Initiating cue (and terminating cue if required) 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(s) referenced by this JPM reflects the current revision:
Procedure ITS 3.5.1 Rev: 163
Procedure LS-AA-1020 Rev: 22
Procedure LS-AA-1110 Rev: 21
Procedure LS-AA-1400 Rev: 7

_____ 9. Verify cues both verbal and visual are free of conflict.

_____ 10. Verify performance time is accurate

_____ 11. If the JPM cannot be performed as written with proper responses, then revise the JPM.

_____ 12. When JPM is initially validated, sign and date JPM cover page. Subsequent validations, sign and date below:

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

Clinton Power Station
Job Performance Measure (JPM)

Revision Record (Summary)

Revision	Date	Description
00	10/8/14	New JPM.

Clinton Power Station
Job Performance Measure (JPM)

Simulator Setup Instructions

1. No simulator setup is required for this JPM.

2. This JPM should be conducted in a location that provides easy access to the required reference procedures (simulator, library, SM office, etc.).

3. The following procedures are required to be available should the candidate request them:

   · Exelon Reportability Reference Manual (includes LS-AA-1010, 1020, 1110, 1120, and 1130)

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:

Given the plant conditions in the Initial Conditions, the Examinee determines:

- Conditions are met for entry into ITS LCO 3.5.1 ECCS – Operating.
- The event is reportable per SAF 1.8.
- NRC notification via ENS is required within 8 hour and Licensee Event Report (LER) to be submitted within 60 days of discovery of the event.

TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

- None

PROCEDURAL/REFERENCES:

- ITS 3.5.1 ECCS Operating Amendment No. 163
- LS-AA-1020 Reportability Tables and Decision Trees Rev. 22
- LS-AA-1110 Reportability Manual Rev. 21
- LS-AA-1400 Event Reporting Guidelines 10CFR50.72 and 50.73 Rev. 7

EVALUATOR INSTRUCTIONS:

- Amplifying cues are provided within the JPM steps.
- All pre-job briefings are completed.
- Provide the examinee with a copy of the Initial Conditions and Initiating Cue page (back page of the JPM) when providing the initiating cue.

Clinton Power Station
Job Performance Measure (JPM)

INITIAL CONDITIONS:

The plant is operating at rated thermal power.

NO LCOs are in effect.

Annunciator 5062-8E HPCS Out Of Service has just been received.

HPCS PWR LOSS OR OVLD ANY VLV status light is illuminated.

'B' RO reports that the position indication lights for 1E22-F004 HPCS To CNMT Outbd Isln Valve are extinguished.

INITIATING CUE:

CAUTION

- All pre-job briefings are completed.

As the Shift Manager, evaluate the plant conditions above and determine what, if any:

- Technical Specification actions are required to be entered.
- Reportable event number and due date/method of reporting.

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

ITS 3.5.1 ECCS – Operating

***1 Examinee evaluates and enters Technical Specification LCOs impacted by inoperability of 1E22-F004 HPCS To Cnmt Outbd Isln Valve.**

Standard: The examinee evaluates and enters ITS 3.5.1 Condition B and determines that required actions B.1 and B.2 must be performed.

Cue: None

Comments

SAT ☐ UNSAT ☐ Comment Number _____

LS-AA-1110 Reportability Manual, Reportable Event SAF 1.8, or LS-AA-1020 Reportability Reference Manual, Operations Decision Tree #1

***2 Determine reporting requirements IAW LS-AA-1020 Exelon Reportability Reference Manual and/or LS-AA-1110 Reportable Event SAF 1.8.**

Standard: Examinee determines event is reportable per SAF 1.8, requires NRC notification via ENS within 8 hours, and requires Licensee Event Report (LER) to be submitted within 60 days of discovery of the event.

Cue: None

Comments

SAT ☐ UNSAT ☐ Comment Number _____

Clinton Power Station
Job Performance Measure (JPM)

TERMINATING CUES:

The JPM is considered complete when the examinee has submitted the Event Notification Worksheet for transmission.

STOP TIME: _____

Clinton Power Station
Job Performance Measure (JPM)

Operator's Name: _____

Job Title: ☐ EO ☐ RO ☐ SRO ☐ STA ☐ SRO Cert

JPM Title: Determine Reporting Requirements

JPM Number: JPM535 Revision Number: 00

Task Number and Title: 140504.01 Apply the administrative requirements for NRC NOTIFICATION REQUIREMENTS

K/A System	K/A Number	Importance (RO/SRO)	
Generic	2.4.30	NA	4.1

Suggested Testing Environment: Classroom

Actual Testing Environment: ☐ Simulator ☐ Plant ☐ Control Room

Testing Method: ☐ Simulate ■ Perform

Alternate Path: ☐ Yes ■ No

SRO Only: ■ Yes ☐ No

Time Critical: ☐ Yes ■ No

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

References:

- ITS 3.5.1 ECCS Operating Amendment No. 163
- LS-AA-1020 Reportability Tables and Decision Trees Rev. 22
- LS-AA-1110 Reportability Manual Rev. 21
- LS-AA-1400 Event Reporting Guidelines 10CFR50.72 and 50.73 Rev. 7

EVALUATION SUMMARY:

Were all the Critical Elements performed satisfactorily? ☐ Yes ☐ No

The operator's performance was evaluated against the standards contained in this JPM, and has been determined to be: ☐ Satisfactory ☐ Unsatisfactory

Comments: _____

_____

_____

Evaluator's Name: _____ (Print)

Evaluator's Signature: _____ Date: _____

INITIAL CONDITIONS:

The plant is operating at rated thermal power.

NO LCOs are in effect.

Annunciator 5062-8E HPCS Out Of Service has just been received.

HPCS PWR LOSS OR OVLD ANY VLV status light is illuminated.

'B' RO reports that the position indication lights for 1E22-F004 HPCS To CNMT Outbd Isln Valve are extinguished.

INITIATING CUE:

CAUTION

- All pre-job briefings are completed.

As the Shift Manager, evaluate the plant conditions above and determine what, if any:

- Technical Specification actions are required to be entered.
- Reportable event number and due date/method of reporting.

CLINTON POWER STATION

Job Performance Measure

Review CPS 9038.70 Radiation
Monitoring Source Check Surveillance

JPM Number: JPM536

Revision Number: 00

Date: 10/9/14

Developed By:	**T. Jennings**	**10/09/14**
	Instructor	**Date**
Validated By:		
	SME or Instructor	**Date**
Reviewed By:		
	Operations Representative	**Date**
Approved By:		
	Training Department	**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 12 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, simulator, or other)

_____ 4. Initial setup conditions are identified.

_____ 5. Initiating cue (and terminating cue if required) 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(s) referenced by this JPM reflects the current revision:
Procedure CY-CL-170-301 Rev: 23
Procedure CPS 9038.70 Rev: 3c
Procedure _____ Rev: _____

_____ 9. Verify cues both verbal and visual are free of conflict.

_____ 10. Verify performance time is accurate

_____ 11. If the JPM cannot be performed as written with proper responses, then revise the JPM.

_____ 12. When JPM is initially validated, sign and date JPM cover page. Subsequent validations, sign and date below:

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

Clinton Power Station
Job Performance Measure (JPM)

Revision Record (Summary)

Revision	Date	Description
00	10/9/14	New JPM.

Clinton Power Station
Job Performance Measure (JPM)

Simulator Setup Instructions

1. No simulator setup is required for this JPM.

2. This JPM should be conducted in a location that provides easy access to the required reference procedures (simulator, library, SM office, etc.).

3. The following procedures are required to be available should the candidate request them:

   a. CPS CY-CL-170-301 Clinton Power Station Unit 1 Offsite Dose Calculation Manual

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:

- ODCM Requirements for 1RIX-PR034 OG Pre-Treatment PRM and 1RIX-PR035/41 OG Post-Treatment PRMs identified.

TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

- None

PROCEDURAL/REFERENCES:

- CY-CL-170-301 Clinton Power Station Unit 1 Offsite Dose Calculation Manual (ODCM) Rev. 23
- CPS 9038.70 Radiation Monitoring Source Check Surveillance Rev. 3c

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:

The plant is operating at 45% power.

NO LCOs are in effect.

1RIX-PR041 Off Gas Post-Treatment Monitor is currently INOP for maintenance.

The OG Vault Refrigeration (VO) System has been shut down for repairs. The repairs have just been completed, and the VO system is being prepared for startup. The OG Charcoal Beds are in BYPASS to support VO system startup IAW CPS 3407.01 Off-Gas Vault Refrigeration (VO) step 4.1.

CPS 9038.70 Radiation Monitoring Source Check Surveillance has just been completed for the gaseous radiation monitors, OG Pre-treatment process radiation monitor, and the OG Post-Treatment process radiation monitors.

INITIATING CUE:

CAUTION

- All pre-job briefings are completed.

As an on-shift SRO, perform the supervisory review of CPS 9038.70 Radiation Monitoring Source Check Surveillance.

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

CY-CL-170-301 Clinton Power Station Unit 1 Offsite Dose Calculation Manual

	1	Examinee reviews section 5.0 Prerequisites of CPS 9038.70 Radiation Monitoring Source Check Surveillance.
Standard:		Examinee reviews section 5.0 and determines section is filled out correctly.
Cue:		Provide the examinee with the completed copy of CPS 9038.70 and attached data sheets for this step.
Comments		
		SAT ☐ UNSAT ☐ Comment Number _____

	***2 Examinee evaluates surveillance data for 1RIX-PR034 Off-gas Pre-treatment PRM.**
Standard:	Examinee reviews surveillance data for 1RIX-PR034 and determines the following: • Monitor failed to reach the required value of 1.5 times the current cpm value during the surveillance. • 1RIX-PR034 is INOPERABLE per ODCM 3.9.1.1. • 1RIX-PR034 is required to be OPERABLE during operation of the main condenser air ejector(s) per ODCM 3.9.1 Operation Requirement. • ODCM 3.9.1 Remedial Requirements b. and 5b apply which only allows gases from the main condenser off-gas treatment system to be released to the environment if the Off-gas treatment system is not bypassed. • OG Charcoal Beds must immediately be placed in service, or gaseous release from the OG system must be secured (requiring a plant shutdown).
Cue:	If the examinee reports the failure, acknowledge the report and direct the examinee to complete the task. If the examinee attempts to check the calculations on the data sheets, inform the examinee that the calculations have already been verified and to assume the calculations are correct.
Comments	The examinee may perform review steps in any order. Per the initiating cue, the OG Charcoal Beds are bypassed to support startup of the OG Vault Refrigeration System. SAT ☐ UNSAT ☐ Comment Number _____

Clinton Power Station
Job Performance Measure (JPM)

***3 Examinee evaluates surveillance data for 1RIX-PR035 Off-gas Post-treatment PRM #1.**

Standard: Examinee reviews surveillance data for 1RIX-PR035 and determines the following:

- Monitor failed to reach 30 cpm and 1.5 times the current cpm value when the source check was performed.
- 1RIX-PR035 is INOPERABLE per ODCM 3.9.1.1.
- 1RIX-PR035 or 1RIX-PR041 is required to be OPERABLE during operation of the main condenser air ejector(s) per ODCM 3.9.1 Operation Requirement.
- With 1RIX-PR041 already INOP for maintenance, ODCM 3.9.1 Remedial Requirements b. and 6b apply which allows effluent releases via this pathway to continue provided grab samples are taken at least once per 8 hours, and a noble gas gamma isotopic analysis performed within 24 hours.

Cue: If the examinee reports the failure, acknowledge the report and direct the examinee to complete the task.

If the examinee attempts to check the calculations on the data sheets, inform the examinee that the calculations have already been verified and to assume the calculations are correct.

Comments The examinee may perform review steps in any order.

SAT ☐ UNSAT ☐ Comment Number _____

	4	Examinee evaluates surveillance data for the remainder of the Gaseous Monitors in the surveillance.
Standard:		Examinee reviews surveillance data for each of the remaining gaseous radiation monitors and determines the following: • Each monitor passed channel functional testing with the exception of 0RIX-PR002 HVAC Exhaust PRM #2 Iodine channel. • The affected channel is not required by the ODCM. • The AR that was initiated is adequate to address the channel failure.
Cue:		If the examinee reports the failure, acknowledge the report and direct the examinee to complete the task. If asked, 0RIX-PR001 is in service. If the examinee attempts to check the calculations on the data sheets, inform the examinee that the calculations have already been verified and to assume the calculations are correct.
Comments		The examinee may perform review steps in any order. SAT ☐ UNSAT ☐ Comment Number _____

TERMINATING CUES:

CPS 9038.70 Radiation Monitoring Source Check Surveillance has been reviewed and ODCM impact has been evaluated and appropriate actions taken.

STOP TIME: _____

Clinton Power Station
Job Performance Measure (JPM)

Operator's Name: _____

Job Title: ☐ EO ☐ RO ■ SRO ☐ STA ☐ SRO Cert

JPM Title: Review CPS 9038.70 Radiation Monitoring Source Check Surveillance

JPM Number: JPM536 Revision Number: 00

Task Number and Title: 999999.19 Review the results of Surveillance Tests.

K/A System	K/A Number	Importance (RO/SRO)	
Generic	2.3.15	NA	3.1
Knowledge of radiation monitoring systems, such as fixed radiation monitors and alarms, portable survey instruments, personnel monitoring equipment, etc.			

Suggested Testing Environment: Classroom or Simulator

Actual Testing Environment: ☐ Simulator ☐ Plant ☐ Control Room

Testing Method: ☐ Simulate ■ Perform

Alternate Path: ☐ Yes ■ No

SRO Only: ■ Yes ☐ No

Time Critical: ☐ Yes ■ No

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

References:

- CY-CL-170-301 Clinton Power Station Unit 1 Offsite Dose Calculation Manual (ODCM) Rev. 23
- CPS 9038.70 Radiation Monitoring Source Check Surveillance Rev. 3c

EVALUATION SUMMARY:

Were all the Critical Elements performed satisfactorily? ☐ Yes ☐ No

The operator's performance was evaluated against the standards contained in this JPM, and has been determined to be: ☐ Satisfactory ☐ Unsatisfactory

Comments: _____

_____

_____

Evaluator's Name: _____ (Print)

Evaluator's Signature: _____ Date: _____

INITIAL CONDITIONS:

The plant is operating at 45% power.

NO LCOs are in effect.

1RIX-PR041 Off Gas Post-Treatment Monitor is currently INOP for maintenance.

The OG Vault Refrigeration (VO) System has been shut down for repairs. The repairs have just been completed, and the VO system is being prepared for startup. The OG Charcoal Beds are in BYPASS to support VO system startup IAW CPS 3407.01 Off-Gas Vault Refrigeration (VO) step 4.1.

CPS 9038.70 Radiation Monitoring Source Check Surveillance has just been completed for the gaseous radiation monitors, OG Pre-treatment process radiation monitor, and the OG Post-Treatment process radiation monitors.

INITIATING CUE:

CAUTION

- All pre-job briefings are completed.

As an on-shift SRO, perform the supervisory review of CPS 9038.70 Radiation Monitoring Source Check Surveillance.

CLINTON POWER STATION

Job Performance Measure

Tech Spec Call / Clearance Approval

JPM Number: JPM538

Revision Number: 00

Date: 10/10/14

Developed By:	**Bill Kiser**	**10/10/14**
	Instructor	**Date**
Validated By:		
	SME or Instructor	**Date**
Reviewed By:		
	Operations Representative	**Date**
Approved By:		
	Training Department	**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 12 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, simulator, or other)

_____ 4. Initial setup conditions are identified.

_____ 5. Initiating cue (and terminating cue if required) 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(s) referenced by this JPM reflects the current revision:
Procedure OP-AA-109-101 Rev: 10
Procedure CPS 3303.01E001 Rev: 13b
Procedure CPS 3303.01V001 Rev: 20a
Procedure M05-1076 Sh 001 Rev: AG
Procedure E02-1RT99 Sh 505 Rev: L

_____ 9. Verify cues both verbal and visual are free of conflict.

_____ 10. Verify performance time is accurate

_____ 11. If the JPM cannot be performed as written with proper responses, then revise the JPM.

_____ 12. When JPM is initially validated, sign and date JPM cover page. Subsequent validations, sign and date below:

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

Clinton Power Station
Job Performance Measure (JPM)

Revision Record (Summary)

Revision	Date	Description
00	10/10/14	New JPM.

Clinton Power Station
Job Performance Measure (JPM)

Simulator Setup Instructions

1. No simulator setup is required 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:

- Candidate reviews the Technical Specifications and determines the correct Technical Specification Action requirement(s).
- Candidate reviews the Clearance Order Checklist and determines:
  - the incorrect electrical breaker number is listed for valve 1G33F039 and identifies the correct breaker as 1AP74E9B.
  - the incorrect RWCU return header test connection valve is listed and identifies the correct valve as 1G33F055 and/or 1G33F056.

TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

- None

PROCEDURAL/REFERENCES:

- OP-AA-109-101, Rev 10 CLEARANCE AND TAGGING
- CPS 3303.01E001, Rev 13b REACTOR WATER CLEANUP ELECTRICAL LINEUP
- CPS 3303.01V001, Rev 20a REACTOR WATER CLEANUP VALVE LINEUP
- M05-1076 Sheet 004, Rev AF REACTOR WATER CLEANUP (RT)
- E02-1RT99 Sheet 505, Rev L REACTOR WATER CLEANUP RETURN LINE ISOLATION VALVE 1G33-F039 & 1G33-F040

EVALUATOR INSTRUCTIONS:

- Amplifying cues are provided within the JPM steps.
- AFTER the Tech Spec Call is made (See Performance Step 1 cue), provide to the candidate:
  - Clearance Order Checklist
  - OP-AA-109-101, Rev 10 CLEARANCE AND TAGGING
- Allow candidate access to the remaining PROCEDURAL/REFERENCES listed above.

Clinton Power Station
Job Performance Measure (JPM)

INITIAL CONDITIONS:

- The plant is in Mode 3.
- Reactor Water Cleanup (RWCU) System is shut down.
- 1G33F040, RWCU Return Line Inboard Isolation Valve has failed in the OPEN position.

INITIATING CUE:

- As CRS you are tasked to provide an independent Tech Spec call.

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

Technical Specifications

***1. The candidate reviews the Technical Specifications and determines the correct Technical Specification Action requirement.**

Standard:	Determines the required action is TS 3.6.1.3 Action A.1 and A.2.
Cue:	After the Examinee has provided his/her Tech Spec call, read the following to the Examinee: "A Clearance Order Checklist has been prepared to meet Technical Specification Action requirements for the 1MC-64 Containment Penetration. Review the prepared Clearance Order Checklist for approval. Passport is NOT available."
Comments	Provide prepared Clearance Order Checklist to Examinee after cue is read.

SAT ☐ UNSAT ☐ Comment Number _____

Clinton Power Station
Job Performance Measure (JPM)

Clearance Order Checklist
Reactor Water Cleanup Drawing (M05-1076 sh001)

***2. The candidate reviews the Clearance Order Checklist and determines that the RWCU Return Header Test Conn isolation listed is incorrect.**

Standard:	Determines that RWCU Return Header Test Conn Valve 1G33F057 is incorrect and the correct RWCU Return Header Test Conn is 1G33F055 and/or 1G33F056.
Cue:	None
Comments	Either Return Header Test Connection Valve 1G33F055 or 1G33F056 will satisfy the requirement to isolate the outboard test connection flow path for penetration 64, although only 1G33F055 is listed in the CPS Operational Requirements (ORM) Attachment 4 Containment Isolation Valves table.

SAT ☐ UNSAT ☐ Comment Number _____

Clearance Order Checklist
CPS 3303.01E001 Reactor Water Cleanup Electrical Lineup (or equivalent)

***3. The candidate reviews the Clearance Order Checklist and determines that the electrical isolation listed for RWCU Return Line Outboard Isolation Valve 1G33F039 is incorrect.**

Standard:	Determines that compartment/circuit breaker MCC 1A3 COMPT 9C (1AP74E-9C) is incorrect and the correct electrical isolation for 1G33F039 is MCC 1A3 COMPT 9B (1AP74E-9B).
Cue:	None
Comments	

SAT ☐ UNSAT ☐ Comment Number _____

Clinton Power Station
Job Performance Measure (JPM)

	4. Task Completion		
Standard:	Review is complete.		
Cue:	JPM is complete.		
Comments			
	SAT ☐	UNSAT ☐	Comment Number _____

STOP TIME: _____

Clinton Power Station
Job Performance Measure (JPM)

Operator's Name: _____

Job Title: ☐ EO ☐ RO ☐ SRO ☐ STA ☐ SRO Cert

JPM Title: Tech Spec Call / Clearance Approval

JPM Number: JPM538 Revision Number: 00

Task Number and Title: 140109.23 Apply the administrative requirements for Execution of Technical Specifications or Off-Site Dose Calculation Manual Requirements.

K/A System	K/A Number	Importance (RO/SRO)	
Generic	2.2.40	3.4	4.7

Suggested Testing Environment: Simulator

Actual Testing Environment: ■ Simulator ☐ Plant ☐ Control Room

Testing Method: ☐ Simulate ■ Perform

Alternate Path: ☐ Yes ■ No

SRO Only: ■ Yes ☐ No

Time Critical: ☐ Yes ■ No

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

References: See page 5 of 11.

EVALUATION SUMMARY:

Were all the Critical Elements performed satisfactorily? ☐ Yes ☐ No

The operator's performance was evaluated against the standards contained in this JPM, and has been determined to be: ☐ Satisfactory ☐ Unsatisfactory

Comments: _____

_____

_____

_____

_____

Evaluator's Name: _____ (Print)

Evaluator's Signature: _____ Date: _____

INITIAL CONDITIONS:

- The plant is in Mode 3.
- Reactor Water Cleanup (RWCU) System is shut down.
- 1G33F040, RWCU Return Line Inboard Isolation Valve has failed in the OPEN position.

INITIATING CUE:

- As CRS you are tasked to provide an independent Tech Spec call.

CLINTON POWER STATION

Job Performance Measure

Reactivation of SRO License

JPM Number: JPM539

Revision Number: 00

Date: 9/22/14

Developed By:	**Bill Kiser**	**9/22/14**
	Instructor	**Date**
Validated By:		
	SME or Instructor	**Date**
Reviewed By:		
	Operations Representative	**Date**
Approved By:		
	Training Department	**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 12 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, simulator, or other)

_____ 4. Initial setup conditions are identified.

_____ 5. Initiating cue (and terminating cue if required) 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(s) referenced by this JPM reflects the current revision:
Procedure OP-AA-105-102 Rev: 11
Procedure _____ Rev: _____
Procedure _____ Rev: _____

_____ 9. Verify cues both verbal and visual are free of conflict.

_____ 10. Verify performance time is accurate

_____ 11. If the JPM cannot be performed as written with proper responses, then revise the JPM.

_____ 12. When JPM is initially validated, sign and date JPM cover page. Subsequent validations, sign and date below:

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

Clinton Power Station
Job Performance Measure (JPM)

Revision Record (Summary)

Revision	Date	Description
00	9/22/14	New JPM.

Clinton Power Station
Job Performance Measure (JPM)

Simulator Setup Instructions

1. No simulator setup is required 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:

- Examinee reviews OP-AA-105-102 and the partially filled-in copy of OP-AA-105-102 attachment 2 and determines that the SRO does NOT meet the procedural requirements for reactivating his/her license.

TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

- None

PROCEDURAL/REFERENCES:

- OP-AA-105-102, Rev. 11 NRC ACTIVE LICENSE MAINTENANCE

EVALUATOR INSTRUCTIONS:

- Amplifying cues are provided within the JPM steps.
- All pre-job briefings are completed.
- **When candidate acknowledges the cue, provide the candidate with the partially filled-in copy of OP-AA-105-102 attachment 2 and a copy of procedure OP-AA-105-102.**

Clinton Power Station
Job Performance Measure (JPM)

INITIAL CONDITIONS:

- You are the Shift Manager.
- An SRO is in the process of license reactivation.
- OP-AA-105-102, Attachment 2, Reactivation of License Log is filled out up to the point of the Shift Manager review for the licensee.

INITIATING CUE:

CAUTION

- All pre-job briefings are completed.

Perform the Shift Manager review of OP-AA-105-102, Attachment 2 for the licensee and report the results to the Shift Operations Superintendent (SOS).

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

OP-AA-105-102 NRC ACTIVE LICENSE MAINTENANCE

***1 Examinee reviews OP-AA-105-102 Attachment 2, Reactivation of License Log and checks to see if the "Hours on Shift" are applicable for license reactivation (performed as Shift Manager or Unit Supervisor) and the licensee has the required 40 hours in the same calendar quarter.**

Standard: Examinee recognizes that 32 hours listed in the "Hours on Shift" are performed as CRS (Unit Supervisor) and 8 hours as WEC Supervisor. Examinee determines that the 8 hours as WEC Supervisor are NOT applicable for license reactivation – REQUIREMENT NOT MET.

Cue: None

Comments

SAT ☐ UNSAT ☐ Comment Number _____

***2 Examinee checks that the required plant tour has been completed.**

Standard: Examinee determines that the Date and Active Licensee signature for the required plant tour are missing on the Shift Position Log – REQUIREMENT NOT MET.

Cue: None

Comments

Clinton Power Station
Job Performance Measure (JPM)

SAT ☐ UNSAT ☐ Comment Number _____

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3. Task Completion.
   Report the results of the review to the Shift Operations Superintendent (SOS).

Standard:	Returns without signing OP-AA-105-102, Attachment 2, to the SOS. Informs the SOS that the Licensee's license CANNOT be reactivated due to insufficient hours on shift AND because a plant tour has not been properly documented as complete.
Cue:	JPM is complete.
Comments	

SAT ☐ UNSAT ☐ Comment Number _____

STOP TIME: _____

Clinton Power Station
Job Performance Measure (JPM)

Operator's Name: _____

Job Title: ☐ EO ☐ RO ■ SRO ☐ STA ☐ SRO Cert

JPM Title: Reactivation of SRO License

JPM Number: JPM529 Revision Number: 00

Task Number and Title: 100101.01 Apply the administrative requirements of CLINTON POWER STATION Organization, Responsibilities and Minimum Qualifications.

K/A System	K/A Number	Importance (RO/SRO)	
NA	2.1.4	3.3	3.8

Suggested Testing Environment: Classroom

Actual Testing Environment: ☐ Simulator ☐ Plant ☐ Control Room

Testing Method: ☐ Simulate ■ Perform **Alternate Path:** ☐ Yes ■ No **SRO Only:** ■ Yes ☐ No

Time Critical: ☐ Yes ■ No

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

References:

- OP-AA-105-102, Rev. 11 NRC ACTIVE LICENSE MAINTENANCE

EVALUATION SUMMARY:
Were all the Critical Elements performed satisfactorily? ☐ Yes ☐ No

The operator's performance was evaluated against the standards contained in this JPM, and has been determined to be: ☐ Satisfactory ☐ Unsatisfactory

Comments: _____

_____

_____

_____

_____

Evaluator's Name: _____ (Print)

Evaluator's Signature: _____ Date: _____

INITIAL CONDITIONS:

- You are the Shift Manager.
- An SRO is in the process of license reactivation.
- OP-AA-105-102, Attachment 2, Reactivation of License Log is filled out up to the point of the Shift Manager review for the licensee.

INITIATING CUE:

CAUTION

- All pre-job briefings are completed.

Perform the Shift Manager review of OP-AA-105-102, Attachment 2 for the licensee and report the results to the Shift Operations Superintendent (SOS).