

Nuclear

CLINTON POWER STATION					
Job Performance Measure					
Determine the effects of a F	ailed Relay				
JPM Number: 013	JPM Number: 013.01				
Revision Number:	Revision Number: 01				
Date: 12/09/03					
Developed By: <u>T. Pickley</u> Instructor	<u>12/09/03</u> Date				
Validated By: <u>T. Coe</u> SME or Instructor	<u>12/12/03</u> Date				
Review By: <u>P. Ryan</u> Operations Representativ	<u>12/15/03</u> ve Date				

JPM NUMBER: 013.01

REVISION: 01

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.

- 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 (*).
- Verify the procedure referenced by this JPM matches the most current revision of that procedure: Procedure Rev. ____ Date ____
 - 9. Pilot test the JPM:
 a. verify cues both verbal and visual are free of conflict, and
 b. ensure performance time is accurate.
 - 10. If the JPM cannot be performed as written with proper responses, then revise the JPM.
 - 11. When JPM is revalidated, SME or Instructor sign and date JPM cover page.

SME/Instructor

SME/Instructor

Date

Date

Date

JPM NUMBER: 013.01

REVISION: 01

Revision Record (Summary)

- 1. **Revision 00,** This is a new JPM
- 2. **Revision 01,** Incorporated NRC comments

JPM NUMBER: 013.01		REVISION <u>: 01</u>
Operator's Name:	_SSN:	
Job Title: INLO IRO ISRO I	STA 🖵 SRO Cert	t
JPM Title/Number: Determine the effect of Relay Task Number and Title: 0.13 Read mechanical and	IUAY-CC516H1 coil d electrical prints	failure
Suggested Testing Environment: Any		
Actual Testing Environment: Simulator	Delant Decontro	l Room
Testing Method:□PerformFa■Alternate	aulted: 🗆 No e Path: 🗔 No	
Time Critical: 🖵 No		
Estimated Time to Complete: <u>20</u> minutes A	ctual Time Used:	minutes
References:		
EVALUATION SUMMARY: Were all the Critical Elements performed satisfacto	rily? 🗅 Yes	🗅 No
The operator's performance was evaluated against and has been determined to be:	the standards containe D Unsatisfa	d in this JPM, ctory
Comments:		
Evaluator's Name:	_	
Evaluator's Signature:	D	ate:

JPM NUMBER: <u>013.01</u>

REVISION: 01

READ TO THE OPERATOR

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

SIMULATOR SET-UP CONDITIONS:

Not Applicable

TASK STANDARDS:

Determines that 1IA005 and 1IA008 will not close on a Level 1 signal.

TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

None

PROCEDURAL/REFERENCES:

E02-1CC99 Sh 16 E02-1IA99 Sh 5

EVALUATOR INSTRUCTIONS:

Amplifying cues are provided within the JPM steps.

INITIAL CONDITIONS:

The plant is operating at rated power in the middle of the operating cycle, when relay 1UAY-CC516H1 relay coil opens.

INITIATING CUE:

Use electrical prints to determine the affect(s) of this component failure on system operation during normal and accident conditions. Brief the CRS on your findings.

START TIME: _____

JPM NUMBER: <u>013.01</u>

REVISION: 01

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

1	Candidate checks for current revision of prints		
Standard	Candidate determines current revision using passport		
CUE	After candidate determines revision for one print, tell him all other prints are current.		
Comments	SAT UNSAT Comment Number		
*2	Candidate identifies print # E02-1CC99-016 shows the relay.		
Standard	Candidate identifies print # E02-1CC99-016.		
CUE			
Comments	SAT UNSAT Comment Number		
3	Candidate identifies only one active contact on effected relay.		
Standard	Candidate identifies only one active contact.		
CUE			
Comments	SAT UNSAT Comment Number		

JPM NUMBER: 01	<u>3.01</u> REVISION: <u>01</u>
*4	Candidate goes to print # E02-11A99-005.
Standard	Candidate goes to print # E02-11A99-005.
CUE	
Comments	SAT UNSAT Comment Number
*5	Candidate identifies relay 1UAY-IA505B is failed energized by the failure of relay 1UAY-CC516H1.
Standard	Candidate identifies relay 1UAY-IA505B is failed energized.
CUE	
Comments	SAT UNSAT Comment Number
6	Candidate identifies 2 contacts are active on relay 1UAY-IA505B (and a seal-in contact).
Standard	Candidate identifies 2 contacts are active on relay 1UAY-IA505B.
CUE	
Comments	SAT UNSAT Comment Number

JPM NUMBER: <u>0</u>	<u>13.01</u> REVISION: <u>01</u>	
*7	Candidate identifies that the 2 contacts will be closed and will not open on Level 1.	
Standard	Candidate identifies that the 2 will not open on Level 1.	
CUE		
Comments		
	SAT UNSAT Comment Number	
*8	Candidate identifies that valves 11A005 and 11A008 will not auto close on a	
	Level 1.	
Standard	Candidate states that that 1IA005 and 1IA008 will not close on a Level 1 signal.	
	8	
CUE		
Comments	SAT UNSAT Comment Number	
9	Candidate determines system impact.	
Standard	Candidate states that there is no impact on system operation during normal operation.	
CUE		
Comments	SAT UNSAT Comment Number	

JPM NUMBER: <u>013.01</u>

REVISION: <u>01</u>

STOP TIME: _____

TERMINATING CUES:

Candidate determines impact of failed relay.

K/A REFERENCE NUMBERS

Importance Rating

K/A SYSTEM NUMBER	<u>K/A NUMBER</u>	<u>RO</u>	<u>SRO</u>
Generic	2.1.24	2.8	3.1

Ability to obtain and interpret station electrical and mechanical drawings.

JPM NUMBER: <u>013.01</u>

REVISION: 01

INITIAL CONDITIONS:

The plant is operating at rated power in the middle of the operating cycle, when relay 1UAY-CC516H1 relay coil opens.

INITIATING CUE:

Use electrical prints to determine the affect(s) of this component failure on system operation during normal and accident conditions. Brief the CRS on your findings.



Nuclear

CLINTON POWER STATION					
	Job Performance Measure				
	Prepare an ENW Form				
	JPM Number: 1405.0401				
	Revision Number: 02				
	Date: 12/09/03				
Developed By:	<u>T. Pickley</u> Instructor	<u>12/25/03</u> Date			
Validated By:	<u>T. Coe</u> SME or Instructor	<u>12/12/03</u> Date			
Review By:	P. K. Ryan Operations Representative	<u>12/15/03</u> Date			

JPM NUMBER: 1405.0401

REVISION: 02

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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

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

SME/Instructor

Date

JPM NUMBER: 1405.0401

REVISION: <u>02</u>

Revision Record (Summary)

- 1. **Revision 00,** This is a new JPM
- 2. **Revision 01,** Revised for new format and procedure
- 3. **Revision 02**, Incorporated NRC comments

JPM NUMBER: <u>1405.0401</u>	REVISION: <u>02</u>
Operator's Name:SS Job Title: □ NLO □ RO □ SRO □ ST	$\frac{N}{\Box} SRO Cert$
JPM Title/Number: 1405.0401, Prepare an ENW For Revision Number: <u>02</u> Task Number and Title: 140504.01, Apply the administ NOTIFICATION REQUIREMENTS.	rm trative requirements for NRC
Suggested Testing Environment: Any	
Actual Testing Environment: Simulator	Plant 📮 Control Room
Testing Method:Image: SimulateFaulteImage: PerformPerformAlternate Paulte	ed: □ No th: □ No
Time Critical: 🖵 No	
Estimated Time to Complete: <u>12</u> minutes Actua	al Time Used: minutes
References:	
EVALUATION SUMMARY: Were all the Critical Elements performed satisfactorily	? 🗆 Yes 🖬 No
The operator's performance was evaluated against the s and has been determined to be:	standards contained in this JPM,
Comments:	
Evaluator's Name:	
Evaluator's Signature:	Date:

JPM NUMBER: 1405.0401

REVISION: 02

READ TO THE OPERATOR

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

SIMULATOR SET-UP CONDITIONS:

None

TASK STANDARDS:

ENW Form completed for an ALERT and NRC informed within 1 hour of initiation of event.

TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

None

PROCEDURAL/REFERENCES:

EP-AA-114r4, NOTIFICATIONS

EVALUATOR INSTRUCTIONS:

Amplifying cues are provided within the JPM steps.

Provide the operator with the following:

- EP-AA-114r4, NOTIFICATIONS
- EP-MW-114-100, MWROG Offsite Notifications
- NARS form (completed)
- ENW Form (blank)
- Control Room Logs
- Initial Conditions And Initiating Cue

JPM NUMBER: 1405.0401

REVISION: 02

INITIAL CONDITIONS

The plant was at 90% power when an event occurred.

INITIATING CUE:

You are called to the MCR to complete and send an ENW form to the NRC within 1 hour of the event.

START TIME: _____

JPM NUMBER: 1405.0401

REVISION: 02

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

1.	Facility or Organization		
Standard	CPS		
CUE			
Comments	SAT	UNSAT	Comment Number
2.	Unit		
Standard	1		
CUE			
Comments			
	SAT	UNSAT	Comment Number

JPM NUMBER: <u>1405</u>	.0401	REVISION: <u>02</u>
3.	Callers Name	
Standard	As applicable	
CUE		
Comments	SAT UNSAT Comment Number	
4.	Callback #	
Standard	(217) 935-9812	
CUE		
Comments	SAT UNSAT Comment Number	
5	EVENT TIME	
5. Standard	Present time minus 15 minutes	
CUE	Tresent unite minus 12 minutes	
Comments	Time in logs is recorded as T-## minutes.	
	SAT UNSAT Comment Number	

JPM NUMBER: <u>1405.0401</u>

REVISION: <u>02</u>

*6.	Power/Mode before
Standard	90%/1
CUE	
Comments	Information obtained from logs/cue.
	SAT UNSAT Comment Number

*7.	Power/mode after
Standard	0%/3
CUE	
Comments	Information obtained from logs.
	SAT UNSAT Comment Number

*8.	Classification
Standard	ALERT
CUE	
Comments	Information obtained from logs/NARS form.
	SAT UNSAT Comment Number

JPM NUMBER: <u>1405.0401</u>

REVISION: <u>02</u>

9.	Description as follows:		
Standard	RCS leakage into Drywell in excess of 50 gpm, cause is unknown, currently in mode 3 plan to cool down to mode 4		
CUE	In mode 3 plan to cool down to mode 4		
Comments	Information obtained from logs.		
	SAT UNSAT Comment Number		

10. Standard CUE	Notifications to: NRC Resident - YES State - YES Local - YES Other Agencies - YES Media/Press - YES
Comments	Information obtained from logs.
	SAT UNSAT Comment Number

11.	Anything unusual or not understood	
Standard	No	
CUE		
Comments	Information obtained from logs.	
	SAT UNSAT Comment Number	

JPM NUMBER: <u>1405.</u>	0401	REVISION: <u>02</u>
12.	All systems function as required	
Standard	Yes	
CUE		
Comments	Information obtained from logs.	
	SAT ONSAT Comment Number	
13.	Mode of operation until corrected	
Standard	UNKNOWN or MODE 4	
CUE		
Comments	Information obtained from logs.	
	SAT UNSAT Comment Number	

14.	Additional information on back	
Standard	Yes	
CUE		
Comments	SAT UNSAT	Comment Number

JPM NUMBER: 1405.0	0401	REVISION: 02
*15.	LOCATION OF LEAK	—
Standard	UNKNOWN	
CUE		
Comments	Information obtained from logs.	
	SAT UNSAT Comment Number	
*16.	Leak Rate	
Standard	EXCEEDS 50 GPM	
CUE		
Comments	Information obtained from logs.	

|--|

17.	Sudden or long term	
Standard	Sudden	
CUE		
Comments	Information obtained from logs.	
	SAT UNSAT Comment Number	

JPM NUMBER: 1405.	0401	REVISION: <u>02</u>
18.	Coolant Activity	
Standard	Sampling in Progress	
CUE		
Comments	Information obtained from logs. SAT UNSAT Comment Number	
19.	Safety Systems not operational	
Standard	None	
CUE		
Comments	Information obtained from logs.	
	SAT UNSAT Comment Number	

*20.	Calls NRC (Simulated) and completes form by filling in "Notification Time" on page 1 of 2.		
Standard	Examinee simulates calling NRC either on FTS2000 or via commercial line.		
CUE	Evaluator acts as NRC and provides applicable time.		
Comments	SAT UNSAT Comment Number		

JPM NUMBER: 1405.0401

REVISION: 02

STOP TIME:

TERMINATING CUES:

ENW Form completed for an ALERT and NRC informed of event.

K/A REFERENCE NUMBERS

Importance Rating

K/A SYSTEM NUMBER	<u>K/A NUMBER</u>	<u>RO</u>	<u>SRO</u>
Generic	2.4.43	2.8	3.5

Knowledge of emergency communications systems and techniques.

JPM NUMBER: 1405.0401

REVISION: 02

INITIAL CONDITIONS

The plant was at 90% power when an event occurred.

INITIATING CUE:

You are called to the MCR to complete and send an ENW form to the NRC within 1 hour of the event.



Nuclear

CLINTON POWER STATION		
Job Performance Measure		
Complete an SRV actuation report		
JPM Number: 3831.0101		
	Revision Number: 01	
	Date: 12/09/03	
Developed By:	<u>T. Pickley</u> Instructor	<u>12/09/03</u> Date
Validated By:	T. Delaney SME or Instructor	<u>10/16/03</u> Date
Review By:	<u>P. K. Ryan</u> Operations Representative	<u>12/12/03</u> Date

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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

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

SME/Instructor

SME/Instructor

Date

Date

Date

JPM NUMBER: 3831.0101

REVISION: 01

Revision Record (Summary)

- 1. **Revision 00,** This is a new JPM
- 2. **Revision 01**, Incorporate NRC comments, no revalidation required.

JPM NUMBER: <u>3831.0101</u>	REVISION <u>: 01</u>
Operator's Name:SSN:SSN:SSN:SSN:SSN:SSN:SSN:SSN:STA	SRO Cert
JPM Title/Number: 3831.0101, Complete an SRV actu Revision Number: <u>01</u> Task Number and Title: 383101.01, Complete Control Roo failures and actuation's of the Safety Relief Valves in the M generate reports required by the Nuclear Regulatory Comm	uation report m actions to document data on lain Steam System and to lission
Suggested Testing Environment: Any	
Actual Testing Environment: 🔳 Simulator 🗅 Plan	nt 📮 Control Room
Testing Method:Image: SimulateFaulted:Image: PerformPerformAlternate Path:	YesNo
Time Critical: 🖵 No	
Estimated Time to Complete: <u>18</u> minutes Actual Ti	me Used: minutes
References:	
EVALUATION SUMMARY: Were all the Critical Elements performed satisfactorily?	🗅 Yes 🖬 No
The operator's performance was evaluated against the stand and has been determined to be:	lards contained in this JPM, Unsatisfactory
Comments:	
Evaluator's Name:	
Evaluator's Signature:	Date:

JPM NUMBER: <u>3831.0101</u>

REVISION: 01

READ TO THE OPERATOR

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

SIMULATOR SET-UP CONDITIONS:

None

TASK STANDARDS:

SRV actuation report is correctly filled out and the SRV has been identified as leaking.

TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

None

PROCEDURAL/REFERENCES:

CPS 9056.02, SAFETY/RELIEF VALVE ACTUATION TEST CPS 3831.01, SAFETY RELIEF VALVE REPORT

EVALUATOR INSTRUCTIONS:

Amplifying cues are provided within the JPM steps. Provide the operator with the following:

- CPS 9056.02, SAFETY/RELIEF VALVE ACTUATION TEST
- CPS 9056.02C001, SAFETY/RELIEF VALVE MANUAL ACTUATION CHECKLIST
- CPS 3831.01, SAFETY RELIEF VALVE REPORT
- CPS 3831.01D002, ACTUATION LOG
- DCS Display 6D-04
- DCS Display D05AD1
- DCS Display DD5BD3
- SRV Tailpipe temperature graph

JPM NUMBER: <u>3831.0101</u>

REVISION: 01

INITIAL CONDITIONS:

You are the B CRO. The plant is operating at 80% power. CPS 9056.02, SAFETY/RELIEF VALVE ACTUATION TEST was performed on the previous shift at steady state power.

INITIATING CUE:

You are to complete CPS 3831.01, SAFETY RELIEF VALVE REPORT. The CRS has N/A appropriate blocks on 3831.10D002.

START TIME: _____

JPM NUMBER: <u>3831.0101</u>

REVISION: 01

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	Fill in block 302 of the CPS No. 3831.01D002, ACTUATION LOG.
Standard	B21-F047A
CUE	
Comments	SAT UNSAT Comment Number
8.1.1	Fill in block 303 of the CPS No. 3831.01D002, ACTUATION LOG.
Standard	
CUE	
Comments	Already filled in
	SAT UNSAT Comment Number

JPM NUMBER: <u>3831</u>	.0101 REVISION: <u>01</u>
8.1.1	Fill in block 304 of the CPS No. 3831.01D002, ACTUATION LOG.
Standard	
CUE	
Comments	Already filled in
	SAT UNSAT Comment Number
*8 1 1	Fill in block 205 of the CDS No. 2921 01D002 A CTUATION LOC
0.1.1	FIII IN DIOCK 305 OF THE CPS NO. 3851.01D002, ACTUATION LOG.
Standard	В
CUE	
Comments	SAT UNSAT Comment Number
*8.1.1	Fill in block 306 of the CPS No. 3831.01D002, ACTUATION LOG.
Standard	C
CUE	
Comments	SAT UNSAT Comment Number

JPM NUMBER: <u>3831</u>	.0101 REVISION: <u>01</u>
*8.1.1	Fill in block 307 of the CPS No. 3831.01D002, ACTUATION LOG.
Standard	Ε
CUE	
Comments	SAT UNSAT Comment Number
8.1.1	Fill in block 308 of the CPS No. 3831.01D002, ACTUATION LOG.
Standard	80
CUE	
Comments	SAT UNSAT Comment Number

Fill in block 309 of the CPS No. 3831.01D002, ACTUATION LOG.	
Determines that the tail pipe has not returned to normal and that the SPV is looking	
K v is leaking.	
AT UNSAT Comment Number	
F C S	Fill in block 309 of the CPS No. 3831.01D002, ACTUATIODetermines that the tail pipe has not returned to normal anSRV is leaking.SAT UNSAT Comment Number

5151214131141		
JPM NUMBER: <u>3831.</u>	0101 REVISION: <u>01</u>	
8.1.1	Fill in block 310 of the CPS No. 3831.01D002, ACTUATION LOG.	
Standard		
CUE		
Comments	Already filled in	
	SAT UNSAT Comment Number	
8.1.1	Fill in block 311 of the CPS No. 3831.01D002, ACTUATION LOG.	
Standard	1013	
CUE		
Comments	SAT UNSAT Comment Number	
8.1.2	Fill in block 312 of the CPS No. 3831.01D002 ACTUATION LOG, if available at the time of reporting or enter "not available" when completing the log. Additional data may be entered later for cross reference.	
Standard	1013	
CUE		
Comments	SAT UNSAT Comment Number	

JPM NUMBER: <u>3831</u>	.0101		REVISION: <u>01</u>
8.1.2	Fill in b availabl the log.	lock 313 of e at the time Additional	the CPS No. 3831.01D002 ACTUATION LOG, if of reporting or enter "not available" when completing data may be entered later for cross reference.
Standard	N/A or	≈1 Minute	
CUE			
Comments			
	SAT	UNSAT	Comment Number

8.1.2	Fill in block 314 of the CPS No. 3831.01D002 ACTUATION LOG, if available at the time of reporting or enter "not available" when completing the log. Additional data may be entered later for cross reference.	
Standard	A or B	
CUE		
Comments	SAT UNSAT Comment Number	
CLINTON POWER STATION SYSTEM JPM

JPM NUMBER: <u>3831.(</u>	<u>0101</u>		REVISION: <u>01</u>
8.1.2 Fill in block 3 available at th the log. Addi		lock 315 of at the time Additional	the CPS No. 3831.01D002 ACTUATION LOG, if of reporting or enter "not available" when completing data may be entered later for cross reference.
Standard			
CUE			
Comments	Already	filled in	
	SAT	UNSAT	Comment Number

CLINTON POWER STATION SYSTEM JPM

JPM NUMBER: <u>3831.0101</u>

REVISION: 01

STOP TIME:

TERMINATING CUES:

The SRV actuation log is complete.

K/A REFERENCE NUMBERS

Importance Rating

K/A SYSTEM NUMBER	<u>K/A NUMBER</u>	<u>RO</u>	<u>SRO</u>
Generic	2.1.18	2.9	3.0

Ability to make accurate / clear and concise logs / records / status boards / and reports.

CLINTON POWER STATION SYSTEM JPM

JPM NUMBER: <u>3831.0101</u>

REVISION: 01

INITIAL CONDITIONS:

The plant is operating at 80% power. CPS 9056.02, SAFETY/RELIEF VALVE ACTUATION TEST was performed on the previous shift at steady state power.

INITIATING CUE:

You are to complete CPS 3831.01, SAFETY RELIEF VALVE REPORT. The CRS has N/A appropriate blocks on 3831.10D002





REACTOR WATER	IO II 1201 140 1 160	INCH 34.8	-0.1 IN
REACTOR VESSEL RESSURE	MIN USABLE LVL 5	PSIG 1013	MIN +0 <u>PSI</u> MIN
DRYWELL PRESSURE		PSIG + 0 .3	+O.O PSI MIN
SUPPRESSION Pool Temperature		DEG F 26	ZERD +0.0 DEG MIN
CONTAINMENT PRESSURE		PSIG +0.0	ZERD +0.00 PSI MIN
SRM	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	% 80 CPS 3.18e+04) +20.6 % MIN +999 PERIOD (SEC)



Page 18 of 18



Nuclear

CLINTON POWER STATION			
Job Performance Measure			
Perform the Restoration Section of CPS No. 9011.01 CONTROL ROD/POSITION INDICATION OPERABILITY-Faulted			
	JPM Number: 9011.0	102	
Revision Number: 04			
Date: 12/08/03			
Developed By:	<u>T Pickley</u> Instructor	<u>12/08/03</u> Date	
Validated By:	T. Coe SME or Instructor	<u>12/15/03</u> Date	
Review By:	<u>P. K. Ryan</u> Operations Representative	<u>12/15/03</u> Date	

JPM NUMBER: <u>9011.0102</u>

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

JPM NUMBER: <u>9011.0102</u>

Revision Record (Summary)

1.	Revision 00,	This is a new RO Administrative JPM
2.	Revision 01,	Add Terminating Cue Update to the current revision of the procedure
3.	Revision 02,	Incorporating NRC validation comments
4.	Revision 03,	Update to the current revision of the procedure
5.	Revision 04 ,	Incorporate NRC comments

JPM NUMBER: <u>9011.0102</u>

<u>Rev. 04</u>

Operator's Name:			
Job Title: 🗆 RO 🗅 SRO			
JPM Title: Perform the Restoration Section of CPS No. 9011.01 CONTROL ROD/POSITION INDICATION OPERABILITY-Faulted			
JPM Number: 9011.0102			
Task Number and Title:901101.01, Complete control room actions to perform the ControlRod/Position Indication Operability			
K/A Number: 2.2.12 Importance: 3.0			
Suggested Testing Environment: Any			
Actual Testing Environment: Simulator Plant Control Room			
Testing Method: □ Simulate Alternate Path / Faulted: ■ Yes ■ Perform ■ Perform ■ Yes			
Time Critical: D No			
Estimated Time to Complete: 17 minutes Actual Time Used: minutes			
References: CPS No. 9011.01, CONTROL ROD/POSITION INDICATION OPERABILITY, Revision 27d			

JPM NUMBER: <u>9011.0102</u>

EVALUATION SUMMARY:

Were all the Critical Elements per	formed satisfactorily?		Yes		No
------------------------------------	------------------------	--	-----	--	----

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

Comments:

Evaluator's Name:	
Evaluator's Signature:	 Date:

JPM NUMBER: <u>9011.0102</u>

<u>Rev. 04</u>

READ TO THE OPERATOR

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

SIMULATOR SET-UP CONDITIONS:

Not Applicable

TASK STANDARDS:

CPS 9011.01 restoration section has been completed. Misaligned control rod has been identified.

TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

Marked up copy of CPS 9011.01 completed up to step 8.3. Copy of an OD-7 Option 2, OD-7 Option 4 and an Official 3D Case.

PROCEDURAL/REFERENCES:

CPS 9011.01, CONTROL ROD/POSITION INDICATION OPERABILITY, Revision 27d

EVALUATOR INSTRUCTIONS:

Amplifying cues are provided within the JPM steps. Provide initial OD-7 option 2 and surveillance after reading the initiating cue.

INITIAL CONDITIONS:

The plant is at Rated Power. The A RO has completed CPS 9011.01 Control Rod/Position Indication Operability for the weekly surveillance with the exception of the restoration section.

INITIATING CUE:

You have just relieved the A RO and are directed to complete the restoration section. Report when the task is complete.

START TIME:	
--------------------	--

JPM NUMBER: <u>9011.0102</u>

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

*1.	Obtain final PMS Control Rod Position printout: OD-7 Option 2, OD-7 Option 4, or Official 3D Case.		
Standard	Printout demanded.		
CUE	Give operator the OD-7 Option 2, OD-7 Option 4, or Official 3D Case when		
Comments	Tequested.		
	SAT UNSAT Comment Number		
*2.	Compare the initial and final Control Rod Position printouts to verify proper rod positions.		
Standard	Operator performs review and identifies that rod 36-29 is at position 6		
CUE Comments	instead of position 4.		
	SAT UNSAT Comment Number		
*3.	Notify the SMngt that rod 36-29 is at position 6 instead of position 4.		
Standard	SMngt is notified		
CUE	 Acknowledge notification of mis-positioned control rod. Acknowledge entry into Inadvertent Rod Movement CPS 4007.02 		
Comments	SAT UNSAT Comment Number		

JPM NUMBER: <u>9011.0102</u>

<u>Rev. 04</u>

*4.	Enter into Inadvertent Rod Movement CPS 4007.02
Standard	Obtain a 3D case Contact the Reactor Engineer
CUE Comments	
	SAT UNSAT Comment Number
*5.	Return Control Rod back to position 04
Standard	Control Rod is at position 04
CUE	As the Reactor Engineer, direct the operator to move control rod 36-29 from 06 to 04. Hand the examinee the move sheet.
Comments	
	SAT UNSAT Comment Number
6.	Document the rod movement in CPS 9000.09D002 CONTROL ROD MANIPULATION LOG SHEET
Standard	Rod movement is documented
CUE Comments	
	SAT UNSAT Comment Number
7	Complete CDS 0011.01 and notify the SMn at of the completion of the test
	Complete CPS 9011.01 and notify the Sivingt of the completion of the test.
Standard	SMngt is notified.
CUE Comments	
	SAT UNSAT Comment Number

JPM NUMBER: <u>9011.0102</u>

<u>Rev. 04</u>

Terminating Cue:

9011.01, Restoration section has been completed and Shift Management has been notified.

STOP TIME: _____

K/A REFERENCE NUMBERS

		Importance Rating			
K/A SYSTEM NUMBER	<u>K/A NUMBER</u>	RO	<u>SRO</u>		
GENERIC	2.2.12	3.0	3.4		

Knowledge of surveillance procedures.

SYSTEM JPM

JPM NUMBER 9011.0102

Rev. 04

INITIAL CONDITIONS:

The plant is at Rated Power. The A RO has completed CPS 9011.01 Control Rod/Position Indication Operability for the weekly surveillance with the exception of the restoration section.

INITIATING CUE:

You have just relieved the A RO and are directed to complete the restoration section. Report when the task is complete.

CONTROL ROD/POSITION INDICATION OPERABILITY

SCOPE OF REVISION:

- Incorporated PAC 0407-97: Editorial typo. Rev marks not retained.
- Format/Organizational title updates, placekeeping aid enhancements, section 5.1 updated to include annunciator impact per 1005.01.
- CR1-98-02-110 (MLSR Project): Incorporated performance criteria and credit for ITS SR 3.9.5.1 MODE 5 control rod position checks.
- Documentation content of canceled CPS 9011.01C001, Control Rod Operability Checklist incorporated into body of this procedure.
- Incorporated PAC 0502-99, PDRs 99-0906 and 00-0298.
- 2 Added flags for critical steps.
- Updates format, revised to make consistent with Limitations in CPS 3304.01, Control Rod Hydraulic & Control (RD).
- Specific rev 27d [Sheffield]: CR 130905: Added to review control rod database prior to movement of a single rod at elevated drive water pressure to establish what seal conditions are.

CONTAINS CRITICAL STEPS

CONTINUOUS USE

ORIGINATOR Thomas J. Landin

:

CLASS CODE: SNNN

ITR: K. Zipprich

APPROVAL *SEP 16 1998* DATE:

CURF	RENT CHANGES	TO GENERAL	REVISION	
	Change #	Date	List of Affected Pages	
0	27a	02/21/01	1, 4, 6, 7	
0	27b	08/13/01	1, 3, 6	
6	27c	01/02/02	1,4	
4	27d	02/05/03	1 and 7	
<u> </u>		-		

c 1.0 <u>PURPOSE</u>

Provide instructions for verifying control rod insertion capability by inserting each applicable PARTIALLY or FULLY withdrawn control rod one notch and observing that the control rod moves, thereby ensuring the control rod is not stuck and is free to insert on a SCRAM.

Instructions are also provided to return the control rods to their original positions to verify each applicable control rod is operable and that the position indication for each applicable control rod is operable.

This surveillance satisfies ITS SR requirements:

- 3.1.3.2, Insert each FULLY withdrawn control rod one notch (7 days)
- 3.1.3.3, Insert each PARTIALLY withdrawn control rod one notch (31 days)
- 3.9.5.1, Insert each withdrawn control rod one notch (7 days MODE 5)

2.0 **<u>DISCUSSION/DEFINITIONS</u>**

- 2.1 <u>FREQUENCY</u> «LBD-1»
- 2.1.1 Normal Frequency (MODEs 1, 2):
 - 7 Days for FULLY withdrawn control rods with THERMAL POWER > LPSP of the RPCS
 - 31 Days for PARTIALLY withdrawn control rods with THERMAL POWER > LPSP of the RPCS

2.1.2 Other Triggers:

- a) Within 24 hours from discovery of any withdrawn control rod that is stuck (will not insert by either CRD drive water or scram pressure) for all control rods either PARTIALLY or FULLY withdrawn, concurrent with THERMAL Power > the LPSP of the RPCS.
- b) MODE 5 when control rod withdrawn triggered via CPS 9000.01D002, Control Room Operator Surveillance Log - MODE 4,5 DATA SHEET (7 day frequency).
- 2.2 Individual sections or an individual step or individual steps within a section of this procedure may be performed independently for PMT or other maintenance activities. Those steps within a section that are not performed should be marked N/A. When only parts of a section are performed, it is the responsibility of the SMngt and the performer to ensure that all necessary prerequisites, precautions and limitations are met for those steps that will be performed. Additionally, the impact of NOT performing the remaining steps must also be understood.

0

2.0 DISCUSSION/DEFINITIONS (cont'd)

2.3 All applicable control rods (control rods not required to have their directional control valves disarmed electrically or hydraulically) will be moved at least one notch to verify proper rod motion and position indication response. Control rod exercising should be performed by a single notch insertion and single notch withdrawal, in as short a time as possible.

3.0 **<u>RESPONSIBILITY</u>**

Operations Department Head is responsible for the implementation of this procedure.

4.0 **PRECAUTIONS**

- 4.1 Plant evolutions which may result in reactivity changes should be avoided during performance of this surveillance.
- 4.2 Document control rod movement per CPS 9000.09, CPS Control Rod Manipulation Logs.

5.0 PREREQUISITES INITIAL 0 5.1 This procedure contains critical steps. A Critical Step is "Any action that, when performed improperly, will lead to an unintentional change that adversely impacts plant, system, or personnel". Performance of this procedure requires screening for a High Risk/High Production Risk/Risk Sensitive activity IAW WC-AA-104 and any existing requirements for Command and Control Standards. Critical steps are indicated by a {CS} in the left margin." 5.2 In conjunction with the SMngt, review the following impact statements to determine required plant status to perform this test: **OPERABILITY IMPACT:** ITS LCO 3.1.3 - Control Rod Operability SYSTEMS AFFECTED: 0 AFFECTED ANNUNCIATORS AND COMPUTER POINTS: None RPS TRIP: N/A CRVICS ISOLATION: N/A **REQUIRED OPERABLE CHANNELS: N/A** 0 PLANT/SYSTEM CONDITIONS REQUIRED TO CONDUCT TEST When in MODEs 1, 2: Power > low power set point (LPSP) of the Rod Pattern Control System (RPCS). When in MODEs 1, 2: For control rods not FULLY withdrawn, MAPRAT ≤ 0.96 . If MAPRAT > 0.96 a power reduction will be required prior to testing control rods that are not FULLY withdrawn. COINCIDENT CHANNELS TO PREVENT ACTUATION: N/A SM $\mathcal{D}L$ **Test Performer** SMngt 5.3 MODE 1, 2: Reactor power (> LPSP). <u>90</u> % 0 \mathcal{DL} [N/A when in MODE 5.] 0 5.4 SM/CRS permission to perform this surveillance. SM **SMngt** XX:XX / XX/XX/XX

Time/Date

6.0 **<u>LIMITATIONS</u>**

- 6.1 **IF** a control rod (or gang) is found out of sequence, **THEN** enter CPS 4007.02, Inadvertent Rod Movement.
- 6.2 In the event of accidental insertion of more than one notch, withdrawal should be by single notch to avoid any possible over-notching on the withdrawal.
- 6.3 MODEs 1, 2: MAPRAT shall be \leq 0.96 when exercising PARTIALLY withdrawn control rods. This limitation does not apply to FULLY withdrawn control rods.
- **06**.4 The Rod Withdraw Limiter (RWL) function of the Rod Control and Information system establishes a 4 notch withdraw limit when reactor power is between the Low Power Set Point (LPSP) and the High Power Set Point (HPSP), and a 2 notch withdraw limit when power is above the HPSP. The purpose of the RWL is to prevent fuel damage, caused by rod withdrawal which would uncover fuel that has been operating at a relatively low power level. The limit is set at 2 or 4 notches (as applicable) from the position of the control rod, the first time a Withdraw signal is applied after the rod is selected.

IF a control rod is inserted with the intent of leaving the rod at the new inserted position, **OR** power condition have changed significantly (RR flow changes or Xenon transient) since the control rod was inserted, **THEN** prior to withdrawing that control rod, deselect and reselect the control rod, to establish the RWL notch limits.

IF a control rod is inserted with the intent of returning the control rod to its original position for notch testing, **THEN** withdrawing the control rod to its original position in the continuous withdraw mode is permitted, **AND** is within the design basis of the RWL as long as power condition have not changed significantly.

Control rods should be deselected, any time that MCR personnel are **NOT** actively engaged in control rod movement activities. *«CM-1»*

7.0 MATERIALS/TEST EQUIPMENT - None

	8.0	PROCEDURE	Initial
0	8.1	Obtain a Plant Monitoring System (PMS) Control Rod Position printout, using either: OD-7 Option 2, OD-7 Option 4, or Official 3D Case.	DL
0	8.1.1	From the OD-7 edit or Official 3D Case, determine which control rods are not required to be tested because they are not withdrawn.	DL
	8.1.2	Identify any control rods which are disarmed.	DL
	8.1.3	Identify any control rods which are PARTIALLY withdrawn.	DL

NOTE

When exercising PARTIALLY withdrawn rods during the monthly test, a "P/" should be used before initials to differentiate between partially withdrawn and fully withdrawn rods.

In this manner, the MODE 1, 2 requirement to limit $MAPRAT \le 0.96$ can be more readily determined.

8.1.4 On the CORE MAP (page 7):	
• Mark disarmed control rods with " DA ".	
• Mark FULLY inserted control rods with "N/A".	
• Mark partially withdrawn control rods with "P/" (if exercising PARTIALLY inserted rods).	DL
• Mark partially withdrawn control rods with "N/A" (if <u>not</u> exercising PARTIALLY inserted rods).	N/A

NOTE

Drives with new seals should not be moved per single notch with elevated drive water pressure, due to increase potential for double-notching. Consult control rod database for seal condition

<u>MODE 1 or 2</u>:

Individual and/or ganged rod movement may be used to perform this surveillance.

FULLY withdrawn control rods are not required to be performed until 8 days 18 hours after the control rod is fully withdrawn and THERMAL POWER is > LPSP of the RPCS.

Rods at position 46 for cooling shall be considered FULLY withdrawn and subject to the 7 day frequency. These rods may be required to be returned to position 48 first to perform the surveillance.

PARTIALLY withdrawn control rods are not required to be performed until 38 days 18 hours after the control rod is withdrawn and THERMAL POWER > LPSP of the RPCS.

<u>MODE 5</u>:

Individual rod movement shall be used to perform this surveillance.

Withdrawn control rods are not required to be performed until 7 days after the control rod is withdrawn.

	8.2	<u>Exercise of FULLY (PARTIALLY)</u> <u>Withdrawn Control Rods</u>	Initial
0	8.2.1	MODEs 1, 2 PARTIALLY withdrawn rods only (N/A for FULLY withdrawn rods or MODE 5):	
		Verify MAPRAT ≤ 0.96 MAPRAT	DL
		If MAPRAT > 0.96, then a power reduction shall be required to achieve MAPRAT \leq 0.96 prior to testing any PARTIALLY withdrawn control rods.	
9{CS}	8.2.2	Select and insert the desired rod(s) one notch, noting proper position indication tracking.	<u>X</u> Place Keeping Aid
0 {CS}	8.2.3	Withdraw the selected rod(s) one notch to original position.	XPlace Keeping Aid
		a) Observe proper rod position indication tracking to the original rod position.	<u>X</u> Place Keeping Aid
		b) Check off the selected rod(s) after the rod(s) is tested by initialing the rod(s).[Document on CORE MAP]	X Place Keeping Aid

CPS 9011.01 8.2.4 Repeat steps 8.2.2 and 8.2.3 for each FULLY (PARTIALLY) withdrawn control rod. Х Place Keeping Aid 8.3 RESTORATION Initial O 8.3.1 **Obtain a PMS Control Rod Position printout:** OD-7 Option 2, OD-7 Option 4, or Official 3D Case. 8.3.2 Compare the initial and final Control Rod Position printouts to verify proper rod positions. O 8.3.3 Notify the SMngt of the completion of this test. / Time/Date

9.0 <u>ACCEPTANCE CRITERIA</u>

- 9.1 <u>Operability Requirements</u> Failure to meet the Acceptance Criteria shall constitute a failure to comply with the applicable LCO. ITS should be immediately reviewed to identify Action Statements needed for implementation. Refer to Supplemental Review Sheet for applicable LCOs.
- 9.1.1 All withdrawn control rods not required to have their directional control valves disarmed electrically or hydraulically are inserted at least 1 notch.
- 9.1.2 The indicated control rod position changes during movement of the Control Rod Drive.
- 9.2 <u>Other Requirements</u> None

10.0 **FINAL CONDITIONS**

The control rods are returned to their original positions.

11.0 **REFERENCES**

- 11.1 CPS 4007.02, Inadvertent Rod Movement
- 11.2 CPS 9000.01D002, Control Room Operator Surveillance Log - MODE 4,5 Data Sheet
- 11.3 CPS 9000.09, CPS Control Rod Manipulation Logs
- 11.4 LBD-1: ITS SR 3.1.3.2, SR 3.1.3.3, SR 3.9.5.1
- 11.5 USAR 3.1.2.3.2.1, 4.6.3.1.1.5
- 11.6 GE Control Rod Drive Design Spec Data Sheet 22A5395 AE
- 11.7 GE Letter GGJ-88-100 dated 7-29-88
- 11.8 CM-1: CR 1-99-04-097
 - 12.0 <u>APPENDICES</u> None
- **O** 13.0 **<u>DOCUMENTS</u>** None

CORE MAP

			DL									
			16-53	20-53	24-53	28-53	32-53	36-53	40-53			
		DL	-									
		12-49	16-49	20-49	24-49	28-49	32-49	36-49	40-49	44-49		
	DL											
	08-45	12-45	16-45	20-45	24-45	28-45	32-45	36-45	40-45	44-45	48-45	
DL												
04-41	08-41	12-41	16-41	20-41	24-41	28-41	32-41	36-41	40-41	44-41	48-41	52-41
DL	DL	DL	DL	P/ DL	DL	P/ DL	DL	P/ DL	DL	DL	DL	DL
04-37	08-37	12-37	16-37	20-37	24-37	28-37	32-37	36-37	40-37	44-37	48-37	52-37
DL												
04-33	08-33	12-33	16-33	20-33	24-33	28-33	32-33	36-33	40-33	44-33	48-33	52-33
DL	DL	DL	DL	P/ DL	DL	DL	DL	P/ DL	DL	DL	DL	DL
04-29	08-29	12-29	16-29	20-29	24-29	28-29	32-29	36-29	40-29	44-29	48-29	52-29
DL												
04-25	08-25	12-25	16-25	20-25	24-25	28-25	32-25	36-25	40-25	44-25	48-25	52-25
DL	DL	DL	DL	P/ DL	DL	P/ DL	DL	P/ DL	DL	DL	DL	DL
04-21	08-21	12-21	16-21	20-21	24-21	28-21	32-21	36-21	40-21	44-21	48-21	52-21
DL												
04-17	08-17	12-17	16-17	20-17	24-17	28-17	32-17	36-17	40-17	44-17	48-17	52-17
	DL											
	08-13	12-13	16-13	20-13	24-13	28-13	32-13	36-13	40-13	44-13	48-13	
		DL										
		12-09	16-09	20-09	24-09	28-09	32-09	36-09	40-09	44-09		
			DL									
			16-05	20-05	24-05	28-05	32-05	36-05	40-05			

CONTROL ROD OPERABILITY CHECKLIST

CORR	ECTIVE ACTION	TAKEN			
9.1	ACCEPTANCE C	RITERIA			
	ITS LCOs:	3.1.3	3.9.5		
	ORM ORs:	None			
	ODCM ORs:	None			
	As applicable Ini	e: tiated Con	dition Report		
	Tni	tiated Mai	() ntenance Request	(MR) No	
	111		neenanee nequese	(111() 110.	
9.2	ACCEPTANCE C	RITERIA			
	As applicable Ini	e: tiated Con	dition Report(y	ves/no)	
	Ini	tiated Mai	ntenance Request	(MR) No	
<u>revi</u>	EW AND APPROV	AL			
Surv	eillance Coor	dinator _	(Signature)	(Dat	e)

PAGE	1, INITI	AL							
			CLINTO	N CYCLE	6	SEQUE	INCE NO 23		
CORE PA	ARAMETERS		3D MON	ICORE		toda	ay-2xxx xx:	XX CALCU	JLATED
POWER	MWT	3125	PERIOD	IC LOG		toda	ay-2xxx xx:	XX PRINI	'ED
POWER	MWE	1062				CASE	ID FMLD19	50708205	855
FLOW	MLB/HR	75.844	CALC RE	SULTS		RESTA	ART FMLD195	07081958	345
FPAPDR		0.824				LPRM	SHAPE - FU	LL CORE	
SUBC	BTII/LB	23 49	Keff	1	0000				
DR	DIC, LD	1027 9	XE WORTH	н» _2	52		T.TNE SUMMA	RV	
COPE	MWD/sT	20850 8	VE /DATE	n 1	00	CODE	DOWED	80 0	12
CURE	MWD/ST	20030.0	AD/ NAID	D 1.	00	CORE	FOWER	09.3	0
MODD	MWD/SI	1 200				LOVE	F LOW	100 0	10
MCPR		1.208				LOAD	LINE	100.0	10
CODDEC		OD . MELOD	_ 1 000	MET DD-	1 000	MADI			
CORRECT	TION FACT	OK: MELCER	= 1.000	MFLPD=	1.000	MAPE	AT= 0.999		
OPTION	: ARTS	DUAL L	IOOP	MANUAL	FLOW	MCPF	KLIM= 1.240		
		MOST LIM	LITING LO	CATIONS	(NON-S	SYMME'I	'RIC)		
MFLCPR	LOC	MFLPD	LOC	MAPRAT	ΓC	DC	PCRAT	LOC	
0.978	37-28	0.912 17	-22-18	0.821	7-2	28- 5	0.798	41-28-1	. 6
0.976	39-26	0.912 7	-28- 5	0.817	15-3	30-16	0.798	19-28-1	. 6
0.975	41-28	0.912 41	-28-16	0.817	11-2	22-13	0.797	7-28-	5
0.973	11-28	0.902 19	-28-16	0.816	19-2	26-16	0.791	39-22-2	20
0.940	13-32	0.896 15	-38-18	0.813	19-3	30-15	0.782	9-22-1	.3
0.939	9-26	0.895 21	-26-16	0.803	7-2	26-12	0.779	11-20-1	.3
0.937	11-20	0.893 17	-26-16	0.802	9-3	36-13	0.779	17-26-1	6
0 930	39-22	0 889 9	-22-13	0 798	11-3	30-11	0 777	11-28-1	5
0.900	7-28	0.889 11	-20-13	0 796	9-0	26- 5	0 776	13-32-1	6
0.027	9-22	0.000 11	-32-16	0.795	30-2	22-20	0.770	17-26-1	2
0.925	9 22	0.000 13	52 10	0.795	55 2	22 20	0.//4	47 20 1	. 4
	2 -	MELCOD D-ME		-				י שיז א שס	VTAT
SEQ. D.	-2 (-	MFLCPR D-MF	LPD M-MA.	PRAI P-P	CRAI '	· — MOLI	IPLE CO.	KE AVE F	LALAL
53							NOTCH	REL PW	LOC
							00	0.238	25
49							02	0.446	24
L							04	0.804	23
45							06	0.963	22
							08	1.056	21
41			Р				10	1.158	20
L							12	1.191	19
37		18	C4	18			14	1.163	18
							16	1.182	17
33							18	1.220	16
T,							20	1.215	15
29		4		4			22	1 187	14
29		1		1			24	1 212	13
25							24	1 207	12
2J T							20	1 101	11
Ц 0.1		1.0	4	1.0			28	1.181	
21		18	4	18			30	1.1/0	10
							32	1.166	09
17		D					34	1.131	08
L							36	1.085	07
13							38	1.072	06
							40	1.050	05
09							42	0.998	04
L			М				44	0.920	03
0.5 .	Ц. Т.	т.	т.	Τ.	T.		4.6	0.749	02
04	08 12	16 20 24	28 32	36 40	44 4	18 52	48	0.237	01
гU	UU 12		20 92	JJ 10			. 10	0.201	0 ±
CORE N	VEBACE DA	DIAL POWED	יייפדפייפדמ	TTON					
RINC #	1	2 2 2	N DISTRIDU	7 TON	6	-	7		
DEL DW		∠ 3 1004 1113	4	J 1 155	0	0.70	7		
KEL PW	0.890	1.084 1.113	1.102	1.133	1.145	0.72	. /		

PAGE	2								
CLINTON	CYCLE	6	INSTRU	MENT RI	EADING	GS/STATU:	S SEQUI	ENCE NO 23	
			CALIBR	ATED LI	PRM RE	EADINGS	8-JUI	L-1995 20:58 CAL	CULATED
			CALIBR	ATED LI	PRM RE	EADINGS	toda	y-2xxx xx:xx CAL	CULATED
							toda	y-2xxx xx:xx PRI	NTED
47D		40.1	49.8	55.7	45.9	30.2	CASE :	ID FMLD195070820	5855
С		57.0	59.8	60.3	64.5	43.0	LPRM S	SHAPE - FULL COR	E
В		61.2	63.6	60.9	69.2	41.9			
A		51.1	54.9	49.5	63.0	27.7	# (OF TIPS REJECTED	: 1
39D	35.4	51.3	58.4	61.1	57.5	46.0	FA	ILED SENSORS:	
С	55.8	62.7	60.3	59.6	66.5	67.9	LPI	RM (2 SIGNAL F.	AILED)
В	60.0	65.2	60.7	57.0	66.7	70.2		615A 3815D	
A	52.7	61.1	50.4	44.4	54.7	63.8	LPI OTI	RM (O PANACEA : Her sensors (O	REJECTED) TOTAL)
31D	39.9	51.6	55.8	56.0C	55.7	48.5	SUI	3 RODS	
С	63.7	71.1	68.3	63.1	72.61	P 70.4	1	JONE	
В	69.6	71.2	66.7	59.2	72.9	73.4			
A	67.6M	69.0	61.1	45.4	71.1	71.8	T =	= TIP RUN RECOMM	ENDED
230	10 0	5/3	58 1	57 9	59 5	18 0	С - М -	- MADDAT LOCATIO	N
230	40.0	54.5 67 30	63 7	59 2	66 8	40.0	м - Л -	- MAINAI LOCATION	11
В	67 1	67 1	61 4	56 9	66 6	71 1	D -	- PCRAT LOCATION	
ے م	66 5	58 6	48 7	44 2	55 6	66 1	* -	- MULTIPLE LIMIT	
П	00.0	50.0	40.7	11.2	55.0	00.1		- MODITIDE DIMIT	
15D	28.5	46.2	55.5	57.2	0.0	39.4			
С	42.4	63.6	62.8	59.1	65.4	59.1			
В	43.2	68.6	61.9	57.4	67.6	62.2			
A	0.0	61.7	49.9	44.3	64.3	50.4			
07D		29.1	39.3	40.7	36.6				
С		41.4	58.6	56.6	54.5				
В		42.3	64.8	61.8	58.3				
A		31.2	57.2	55.6	48.4				
	06	14	22	30	38	46			
CORE	E SUMMAI	RY							
CORE POW	VER 8	9.9%	CALC	SUB FLO	WC	91.3%	DP MEAS	PSI	15.52
CORE FLO	2W WC	9.8%	OPER	SUB FLO	WC	-1.2%	DP CALC	PSI	20.52
LOAD LIN	NE 10	0.0%	FLOW	BASIS		MEAS	FEEDWTR	FLOW MLB/HR	13.5
APRI	4 CALIB	RATION		_	_				
	A	В	<u> </u>	C	D	-			
READING	100.4	T00	.o 1	00.2	TUU .	2			

READING	100.4	100.0	100.2	100.2
AGAF	0.994	0.992	0.997	0.997

TIP RUNS RECOMMENDED STRINGS: NONE

UNIT	1, PA	GE 1	OF 1		INIT: Posi	IAL tions								
OD-7, OPTIC	, CONT DN 2	'ROL R	OD NC	ртсн	POSIT	IONS,	NEW	SCAN						
53					48	48	48	48	48	48	48			
49				48	48	48	48	48	48	48	48	48		
45			48	48	48	48	48	48	48	48	48	48	48	
41		48	48	48	48	48	48	48	48	48	48	48	48	48
37		48	48	48	48	18	48	4	48	18	48	48	48	48
33		48	48	48	48	48	48	48	48	48	48	48	48	48
29		48	48	48	48	4	48	48	48	4	48	48	48	48
25		48	48	48	48	48	48	48	48	48	48	48	48	48
21		48	48	48	48	18	48	4	48	18	48	48	48	48
17		48	48	48	48	48	48	48	48	48	48	48	48	48
13			48	48	48	48	48	48	48	48	48	48	48	
9				48	48	48	48	48	48	48	48	48		
5					48	48	48	48	48	48	48			
		4	8	12	16	20	24	28	32	36	40	44	48	52

PAGE	1, FINAL								
			CLINTO	N CYCLE	6	SEQUE	ENCE NO 23		
CORE PA	ARAMETERS		3D MONI	ICORE		toda	ay-2xxx xx:	XX CALCU	LATED
POWER	MWT	3125	PERIOD	IC LOG		toda	av-2xxx xx:	XX PRINT	ΈD
POWER	MWE	1052				CASE	ID FMLD195	07082058	55
FLOW	MLB/HR	75.844	CALC RES	SULTS		RESTA	ART FMLD195	07081958	45
FPAPDR	,	0 824				L.PRM	SHAPE - FU	LL CORE	
SUBC	BTII/I.B	23 49	Koff	1	0000		011112 10		
DDDC	DIC/ LD DCTa	1027 9	XE WORTI	⊥ 2 ⊐ 2 – 2	52		T.TNE SIIMMA	RV	
COPE	MWD/eT	20850 8	VE /DATE	. 1 0 2. 1	00	COPE	DOWED	80 0	2
CVCLE	MWD/oT	20030.0	AD/ NAID	J 1.	00	CORE	FLOWER	09.9	0
MCDD	MWD/SI	1 269				LOVE	F LOW	100 0	0
MCPR		1.200				LOAD	LINE	100.0	6
CODDEC		OD. METOD	- 1 000	MET DD-	1 000	MADI			
ODUTON	IION FACIO	JR: MELCER	- 1.000	MELPD-	I.000	MODI	AI = 0.999		
OPTION	: ARTS	DUAL L	UUP	MANUAL	FLOW	MCPF	KLIM= 1.240		
		MOST LIM	TTING LOG	CATIONS	(NON-S	S Y MME'I	TRIC)		
MFLCPR	LOC	MFLPD	LOC	MAPRAI	. T(PCRAT	LOC	-
0.978	37-28	0.912 17	-22-18	0.821	/-2	28-5	0.798	41-28-1	6
0.976	39-26	0.912 7	-28- 5	0.817	15	30-16	0.798	19-28-1	6
0.975	41-28	0.912 41	-28-16	0.817	11-2	22-13	0.797	7-28-	5
0.973	11-28	0.902 19	-28-16	0.816	19-2	26-16	0.791	39-22-2	0
0.940	13-32	0.896 15	-38-18	0.813	19-3	30-15	0.782	9-22-1	3
0.939	9-26	0.895 21	-26-16	0.803	7-2	26-12	0.779	11-20-1	3
0.937	11-20	0.893 17	-26-16	0.802	9-3	36-13	0.779	17-26-1	6
0.930	39-22	0.889 9	-22-13	0.798	11-3	30-11	0.777	11-28-1	5
0.927	7-28	0.889 11	-20-13	0.796	9-2	26- 5	0.776	13-32-1	6
0.923	9-22	0.888 13	-32-16	0.795	39-2	22-20	0.774	47-26-1	2
SEQ. B.	-2 C=1	MFLCPR D=MF	LPD M=MA	PRAT P=F	CRAT '	*=MUL]	CO CO	RE AVE A	XIAL
53							NOTCH	REL PW	LOC
							00	0.238	25
49							02	0.446	24
L							0.4	0.804	23
4.5							0.6	0.963	22
							0.8	1 056	21
41			P				10	1 158	20
Т.			±				12	1 191	19
37		1.8	C4	18			14	1 163	18
57		10	01	10			16	1 182	17
22							10	1 220	16
55							10	1 215	10
ц П		4		6			20	1.215	10
29		4		ю			22	1.18/	14
0.5							24	1.212	13
25							26	1.20/	12
L							28	1.181	11
21		18	4	18			30	1.170	10
							32	1.166	09
17		D					34	1.131	08
L							36	1.085	07
13							38	1.072	06
							40	1.050	05
09							42	0.998	04
L			М				44	0.920	03
05	L L	L	L	L	L		46	0.749	02
04	08 12	16 20 24	28 32	36 40	44 4	48 52	2 48	0.237	01
CORE A	VERAGE RA	DIAL POWER	DISTRIBU	TION					
RING #	1	2 3	4	5	6	7	7		
REL PW	0.890	1.084 1.113	1.102	1.155	1.145	0.72	:7		

PAGE	2									
CLINTON	CYCLE 6	6	INSTRUN	4ENT RI	EADING	S/STATU	S SEQUENCE NO 23			
			CALIBRA	ATED LI	PRM RE	ADINGS	8-JUL-1995 20:58 CALCUL	ATED		
			CALIBRA	ATED LI	PRM RE	ADINGS	today-2xxx xx:xx CALCUL	ATED		
							today-2xxx xx:xx PRINTE	D		
47D		40.1	49.8	55.7	45.9	30.2	CASE ID FMLD195070820585	5		
С		57.0	59.8	60.3	64.5	43.0	LPRM SHAPE - FULL CORE			
В		61.2	63.6	60.9	69.2	41.9				
A		51.1	54.9	49.5	63.0	27.7	# OF TIPS REJECTED:	1		
39D	35.4	51.3	58.4	61.1	57.5	46.0	FAILED SENSORS:			
С	55.8	62.7	60.3	59.6	66.5	67.9	LPRM (2 SIGNAL FAIL	ED)		
В	60.0	65.2	60.7	57.0	66.7	70.2	615A 3815D			
A	52.7	61.1	50.4	44.4	54.7	63.8	lprm (O panacea rej	ECTED)		
							OTHER SENSORS (0 TO	TAL)		
31D	39.9	51.6	55.8	56.0C	55.7	48.5	SUB RODS			
С	63.7	71.1	68.3	63.1	72.6P	70.4	NONE			
В	69.6	71.2	66.7	59.2	72.9	73.4				
A	67.6M	69.0	61.1	45.4	71.1	71.8	T = TIP RUN RECOMMEND	ED		
							C = MFLCPR LOCATION			
23D	40.0	54.3	58.1	57.9	59.5	48.0	M = MAPRAT LOCATION			
С	62.2	67.3D	63.7	59.2	66.8	69.0	D = MFLPD LOCATION			
В	67.1	67.1	61.4	56.9	66.6	71.1	P = PCRAT LOCATION			
A	66.5	58.6	48.7	44.2	55.6	66.1	* = MULTIPLE LIMIT			
15D	28.5	46.2	55.5	57.2	0.0	39.4				
С	42.4	63.6	62.8	59.1	65.4	59.1				
В	43.2	68.6	61.9	57.4	67.6	62.2				
A	0.0	61.7	49.9	44.3	64.3	50.4				
07D		29.1	39.3	40.7	36.6					
С		41.4	58.6	56.6	54.5					
В		42.3	64.8	61.8	58.3					
A		31.2	57.2	55.6	48.4					
	06	14	22	30	38	46				
CORE	E SUMMAI	RY								
CORE POW	VER 89	9.9%	CALC S	SUB FLO	WC	91.3%	DP MEAS PSI 1	5.52		
CORE FLO	28 WC	9.8%	OPER S	SUB FLO	WC	-1.2%	DP CALC PSI 2	0.52		
LOAD LIN	JE 100).0%	FLOW E	BASIS		MEAS	FEEDWTR FLOW MLB/HR 1	3.5		
APRI	1 CALIBE	RATION		_	_					
	A	В	(2	D					
READING	100.4	100	.6 10	0.2	100.2					
AGAF	0.994	0.9	92 0.	.997	0.997					
TID DUNS DECOMMENDED										
SABINCS	KUNS KI	NUME	иЛЕЛ							
OTIVING9:	•	INCINE								

UNIT 1, PAGE 1 OF 1 Final Positions OD-7, CONTROL ROD NOTCH POSITIONS, NEW SCAN OPTION 2

48 48 48 48 48 48 48

53

49			48	48	48	48	48	48	48	48	48		
45		48	48	48	48	48	48	48	48	48	48	48	
41	48	48	48	48	48	48	48	48	48	48	48	48	48
37	48	48	48	48	18	48	4	48	18	48	48	48	48
33	48	48	48	48	48	48	48	48	48	48	48	48	48
29	48	48	48	48	4	48	48	48	6	48	48	48	48
25	48	48	48	48	48	48	48	48	48	48	48	48	48
21	48	48	48	48	18	48	4	48	18	48	48	48	48
17	48	48	48	48	48	48	48	48	48	48	48	48	48
13		48	48	48	48	48	48	48	48	48	48	48	
9			48	48	48	48	48	48	48	48	48		
5				48	48	48	48	48	48	48			
	4	8	12	16	20	24	28	32	36	40	44	48	52

UNIT 1, PAGE 1 OF 1 Final Positions OD-7, CONTROL ROD NOTCH POSITIONS, NEW SCAN OPTION 4

 53

 49

 45

 41

 37
 18
 4
 18

 33

 29
 4
 6



CONTROL ROD SEQUENCE

SCOPE OF REVISION:

- Administrative Title Changes NE to RE.
- Designate as Routine Usage

ROUTINE USE

OI :	RIGINATOR	Paul Nauyalis				
CI	LASS CODE:	NNNN2	APP DAT	ROVAL TE:	MA	Y 28 1997
Œ Ž	CHANGE NO.	DATE		PAGES		
STEI	CC 9 GROUP/ARRAY	ONTROL ROD SEQUENCE_	A2 FROM	Date Imple	emented_	XX/XX/XX NOTES
51	10	36-29	06	04		

CONTROL ROD MANIPULATION LOG SHEET

SCOPE OF REVISION:

• Added OP-AB-103-104-1001, BWR Control Rod Movement Requirements reference (ROG NER LS-03-012RED [CR 148413]).

CONTINUOUS USE

ORIGINATOR Thomas J. Landin

:

CLASS CODE: SNNN1

SQR: Edward J. Kennedy

APPROVAL *04/07/03* DATE:

CPS 9000.09D002

CONTROL ROD MANIPULATION LOG SHEET

0

🕼 General peer check guidance found in OP-AB-103-104-1001.

8.1.2: DATE/TIME: / 8.1.3: SEQUENCE (PROCEDURE) #

8.1.4: Rx POWER _____ 8.1.5: OPERABLE Control Rods comply with BPWS (N/A when > 16.7% RTP, or MODEs 3/4/5) (Initial)

Column: 1	2	3		4		5	6	7	8
Comments	Step	Group/	Rod Movement		Position	$Verification^{\dagger}$	Init	Coupling	
		Array	Gang	Ind	Rod #	From/To/(Back)			Check Init
							/		
							1		
							1		
							1		
							,		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		
							/		

* Verification initials signify:

a) Previous step complete.

b) Correct control rod is selected.

- c) Movement of control rod(s) in compliance with approved sequence for specified test.
- d) When > 70% RTP: Verify that the HI POWER SET PT light remains ON. If the light is OFF, the verifier shall prevent control rod withdrawal.
- e) When > 29.2% RTP and ≤ HPSP: Verify LO POWER SET PT or the LO POWER ALM PT light is ON. If both lights are OFF, the verifier shall prevent control rod withdrawal.

8.2 Completion Time Date

Rev. <u>27</u>

CONTROL ROD MANIPULATION LOG SHEET

SUPPLEMENTAL REVIEW SHEET

Corrective Action Taken

Operability Requirements: ITS LCOs: <u>3.1.3</u> <u>3.1.6</u> <u>3.10.7</u> <u>3.10.8</u> <u>3.3.2.1</u> ORM ORs: <u>None</u> ODCM ORs: <u>None</u> As applicable: Initiated Condition Report No. ______ Initiated Work Document No. ______

Comments/Deficiencies

Review and Approval

Surveillance Coordinator:

(Signature)

(Date)



Nuclear

CLINTON POWER STATION				
Job Performance Measure				
Review a completed SRV actuation repo	ort			
JPM Number: 3821.0102				
Revision Number: 01				
Date: 12/11/03				
Developed By: <u>T. Pickley</u> Instructor	<u>12/11/03</u> Date			
Validated By: <u>T. Coe</u> SME or Instructor	<u>12/15/03</u> Date			
Review By: <u>P. Ryan</u> Operations Representative	<u>12/15/03</u> Date			

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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

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

SME/Instructor

SME/Instructor

Date

Date

Date

JPM NUMBER: 3831.0102

REVISION: 01

Revision Record (Summary)

- 1. **Revision 00,** This is a new JPM
- 2. **Revision 01**, Incorporate NRC comments

JPM NUMBER: <u>3831.0102</u>	REVISION <u>: 01</u>
Operator's Name:SSN	SRO Cert
JPM Title/Number: 3831.0101, Review a completed SF Revision Number: <u>01</u> Task Number and Title: 383101.01, Complete Control Room failures and actuation's of the Safety Relief Valves in the Ma generate reports required by the Nuclear Regulatory Commis	RV actuation report a actions to document data on a steam System and to ssion
Suggested Testing Environment: Any	
Actual Testing Environment: 🔳 Simulator 🗅 Plant	Control Room
Testing Method:□SimulateFaulted:■PerformAlternate Path:	☐ Yes ☐ No
Time Critical: 🗅 No	
Estimated Time to Complete: <u>16</u> minutes Actual Tin	ne Used: minutes
References:	
EVALUATION SUMMARY: Were all the Critical Elements performed satisfactorily?	I Yes I No
The operator's performance was evaluated against the standa and has been determined to be:	ards contained in this JPM, ☐ Unsatisfactory
Comments:	
Evaluator's Name:	
Evaluator's Signature:	Date:

JPM NUMBER: 3821.0102

REVISION: 01

READ TO THE OPERATOR

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

SIMULATOR SET-UP CONDITIONS:

None

TASK STANDARDS:

The SRV has been identified as leaking and the failure mode is coded incorrectly.

TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

None

PROCEDURAL/REFERENCES:

CPS 9056.02, SAFETY/RELIEF VALVE ACTUATION TEST CPS 3831.01, SAFETY RELIEF VALVE REPORT

EVALUATOR INSTRUCTIONS:

Amplifying cues are provided within the JPM steps. Provide the operator with the following:

- CPS 9056.02, SAFETY/RELIEF VALVE ACTUATION TEST
- CPS 9056.02C001, SAFETY/RELIEF VALVE MANUAL ACTUATION CHECKLIST
- CPS 3831.01, SAFETY RELIEF VALVE REPORT
- CPS 3831.01D002, ACTUATION LOG
- DCS Display 6D-04
- DCS Display D05AD1
- DCS Display DD5BD3
- SRV Tailpipe temperature graph

JPM NUMBER: 3821.0102

REVISION: <u>01</u>

INITIAL CONDITIONS:

CPS 9056.02, SAFETY/RELIEF VALVE ACTUATION TEST was completed during steady state operations at 80% power. CPS 3831.01, SAFETY RELIEF VALVE REPORT has been completed.

AND INITIATING CUE:

As the CRS, you are to review and approve CPS 3831.01, SAFETY RELIEF VALVE REPORT.

START TIME:

JPM NUMBER: 3821.0102

REVISION: 01

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

*1	Reviews through block 305 of CPS 3831.01, SAFETY RELIEF VALVE REPORT
Standard	Determines that block 305 is incorrect, Type of actuation should be "B".
CUE	
Comments	SAT UNSAT Comment Number

*2	Reviews block 306 of CPS 3831.01, SAFETY RELIEF VALVE REPORT
Standard	Determines that block 306 is incorrect, Type of actuation should be "C".
CUE	
Comments	SAT UNSAT Comment Number

JPM NUMBER: 3821.0102

REVISION: <u>01</u>

*2	Reviews thr REPORT	ough bl	ock 309 of CPS 3831.01, SAFETY RELIEF VALVE
Standard	Determines normal and	that blo that the	ock 309 is incorrect, the tail pipe has not returned to e SRV is leaking.
CUE			
Comments	SAT UN	ISAT	Comment Number

STOP TIME:

TERMINATING CUES:

The SRV actuation log has been reviewed.

JPM NUMBER: 3821.0102

REVISION: <u>01</u>

K/A REFERENCE NUMBERS

Importance Rating

<u>K/A SYSTEM NUMBER</u>	<u>K/A NUMBER</u>	<u>RO</u>	<u>SRO</u>
2.1.32		3.4	3.8

Ability to explain and apply system limits and precautions.

JPM NUMBER: 3821.0102

REVISION: 01

INITIAL CONDITIONS:

CPS 9056.02, SAFETY/RELIEF VALVE ACTUATION TEST was completed during steady state operations at 80% power. CPS 3831.01, SAFETY RELIEF VALVE REPORT has been completed.

AND INITIATING CUE:

As the CRS, you are to review and approve CPS 3831.01, SAFETY RELIEF VALVE REPORT.



Pre and Post Test Page 11 of 14



Pre and Post Test

PARAMETER	VALUE		RATE OF CHANGE	
REACTOR WATER	IO II I20I 140 I 160 MIN USABLE LVL 5	INCH 34.8	-0.1 <u>IN</u> MIN	
REACTOR VESSEL RESSURE	0 500 1000 1500	PSIG 1013	+0 <u>PSI</u> MIN	
DRYWELL Pressure		PSIG +0.3	+0.0 PSI MIN	
SUPPRESSION Pool Femperature		DEG F 76	ZERD +0.0 DEG MIN	
CONTAINMENT PRESSURE		PSIG +0.0	. ZERD +0.00 PSI MIN	
REACTOR APRM Power Aprm		% 80 CPS	1 +20.6 % MIN	
SRM	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	3.18e+04	+999 PERIOD (SEC)	





Nuclear

CLINTON POWER STATION					
Job Performance Measure					
Dete	ermine actions required for a	security threat			
	JPM Number: 4305.01	01			
	Revision Number: 01				
	Date: 12/15/03				
Developed By:	T. Pickley Instructor	<u>12/11/03</u> Date			
Validated By:	SME or Instructor	<u>12/15/03</u> Date			
Review By:	P. K. Ryan Operations Representative	<u>12/15/03</u> Date			

JPM NUMBER: 4305.0101

REVISION: 01

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.

- 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 (*).
- Verify the procedure referenced by this JPM matches the most current revision of that procedure:
 Procedure Rev. ____ Date ____
 - 9. Pilot test the JPM:
 a. verify cues both verbal and visual are free of conflict, and
 b. ensure performance time is accurate.
 - 10. If the JPM cannot be performed as written with proper responses, then revise the JPM.
 - 11. When JPM is revalidated, SME or Instructor sign and date JPM cover page.

SME/Instructor

SME/Instructor

Date

Date

Date

JPM NUMBER: 4305.0101

REVISION: 01

Revision Record (Summary)

- 1. **Revision 00,** This is a new JPM
- 2. **Revision 01,** Incorporate NRC comments

JPM NUMBER: <u>4305.0101</u>	REVISION <u>: 01</u>
Operator's Name:SSN	SRO Cert
JPM Title/Number: 4305.0101, Determine actions req Revision Number: <u>01</u> Task Number and Title: 430501.01, Complete Control Roo Security Threat or Intrusion	uired for a security threat m actions to respond to a
Suggested Testing Environment: Any	
Actual Testing Environment: 🔳 Simulator 🗅 Plan	nt 📮 Control Room
Testing Method:Image: SimulateFaulted:Image: PerformPerformAlternate Path:	NoNo
Time Critical: 🖵 No	
Estimated Time to Complete: 8 minutes Actual Ti	ime Used: minutes
References:	
EVALUATION SUMMARY: Were all the Critical Elements performed satisfactorily?	The Yes The No
The operator's performance was evaluated against the stand and has been determined to be:	dards contained in this JPM, Unsatisfactory
Comments:	
Evaluator's Name:	
Evaluator's Signature:	Date:

JPM NUMBER: <u>4305.0101</u>

REVISION: 01

READ TO THE OPERATOR

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

SIMULATOR SET-UP CONDITIONS:

None

TASK STANDARDS:

The threat is identified as credible and it is determined that a plant shutdown and cooldown is required.

TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

None

PROCEDURAL/REFERENCES:

SY-AA-101-132 THREAT ASSESSMENT CPS 4305.01 SECURITY THREAT/INTRUSION

EVALUATOR INSTRUCTIONS:

Provide the operator with attached copies of SY-AA-101-132 THREAT ASSESSMENT and CPS 4305.01 SECURITY THREAT/INTRUSION. Amplifying cues are provided within the JPM steps.

JPM NUMBER: <u>4305.0101</u>

REVISION: 01

INITIAL CONDITIONS:

You are the CRS.

The plant is operating at rated conditions.

Security was notified earlier in the day that the Department of Homeland Security has elevated the national security risk level to ORANGE.

The Security Shift Leader just notified the Shift Manager that Security received a threatening phone call stating that an explosive device has been placed in the Screen House that will detonate in 2.5 hours.

INITIATING CUE:

The Shift Manager has assigned you to Peer Check Security by performing a Threat Assessment per SY-AA-101-132 to determine if the threat is a Non-credible, Credible/Possible or an Actual Threat.

START TIME: _____

JPM NUMBER: <u>4305.0101</u>

REVISION: 01

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

*1	Assess the threat. Assess threat as CREDIBLE/POSSIBLE per SY-AA-101-132 section 4.4.				
Standard					
CUE	When the threat has been assessed tell the examinee that, "It is 45 minutes later and Security notifies you that a bomb has been located in the Screen house.				
	The Shift Manager directs you to continue your peer check of Security and determine what plant manipulations, if any, need to be performed."				
Comments	SAT UNSAT Comment Number				

*2 Reassess the threat. Standard Assess threat as ACTUAL per SY-AA-101-132 section 4.4. CUE Comments SAT UNSAT Comment Number

JPM NUMBER: <u>4305.0101</u>

REVISION: <u>01</u>

*3	Determine the required plant manipulations.		
Standard	Place the mode switch in Shutdown.		
CUE	Cooldown the Read		
Comments	SAT UNSAT	Comment Number	

JPM NUMBER: <u>4305.0101</u>

REVISION: 01

STOP TIME: _____

TERMINATING CUES:

The threat is identified as Actual and it is determined that a plant shutdown and cooldown is required.

K/A REFERENCE NUMBERS

		Importance Rating	
K/A SYSTEM NUMBER	<u>K/A NUMBER</u>	<u>RO</u>	<u>SRO</u>
Generic	2.1.6	2.1	4.3.

Ability to supervise and assume a management role during plant transients and upset conditions.

JPM NUMBER: <u>4305.0101</u>

REVISION: 01

INITIAL CONDITIONS:

You are the CRS.

The plant is operating at rated conditions.

Security was notified earlier in the day that the Department of Homeland Security has elevated the national security risk level to ORANGE.

The Security Shift Leader just notified the Shift Manager that Security received a threatening phone call stating that an explosive device has been placed in the Screen House that will detonate in 2.5 hours.

INITIATING CUE:

The Shift Manager has assigned you to Peer Check Security by performing a Threat Assessment per SY-AA-101-132 to determine if the threat is a Non-credible, Credible/Possible or an Actual Threat.



Nuclear

CLINTON POWER STATION			
	Job Performance N	leasure	
Review a Complet	ed Control Rod / Position Inc and Identify Discrepancies	lication Operabil s (Faulted)	ity Surveillance
	JPM Number: 90110	1.0101	
	Revision Number	: 03	
Date: 12/11/03			
Developed By:	T. Pickley Instructor	<u>12</u> D	<u>2/11/03</u> ate
Validated By:	T. Coe SME or Instructor	<u>12</u> D	<u>2/15/03</u> ate
Review By:	<u>P. K. Ryan</u> Operations Representative	<u>1</u> 2	<u>2/15/03</u> Date

JPM NUMBER: <u>901101.0101</u>

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. Tas ider	k description and r ntified.	number, JPM descriptio	n and number are
 2. Kno	wledge and Abilitie	es (K/A) references are	included.
 3. Per sim	formance location s ulator)	specified. (in-plant, con	trol room, or
 4. Initia	al setup conditions	are identified.	
 5. Initia	ating and termination	ng cues are properly id	entified.
 6. Tas	k standards identifi	ied and verified by SM	E review.
 7. Criti with	ical steps meet the an asterisk (*).	criteria for critical step	s and are identified
 8. Veri curr Pro	ify the procedure re rent revision of that cedure Rev.	eferenced by this JPM i procedure: _ Date	natches the most
 9. Pilo a.v b.e	t test the JPM: erify cues both verl nsure performance	bal and visual are free time is accurate.	of conflict, and
 10. lf th resp	e JPM cannot be p ponses, then revise	erformed as written wite the JPM.	h proper
 11.Wh cov	en JPM is revalidat er page.	ed, SME or Instructor s	sign and date JPM
SME/Ins	structor		Date
SME/Ins	structor		Date
SME/Ins	structor		Date

Revision Record (Summary)

- 1. **Revision 00**, This is a new SRO Administrative JPM
- 2. **Revision 01,** Incorporating NRC validation comments
- 3. **Revision 02,** New procedure revision
- 4. **Revision 03**, Incorporate NRC comments

JPM NUMBER: <u>901101.0101</u>

Revision 03

Operator's Name:			
Job Title: SRO			
JPM Title: Review a Completed Control Rod / Position Indication Operability Surveillance and Identify Discrepancies (Faulted)			
JPM Number: 901101.0101			
Task Number and Title:999999.19, Review the results of surveillance tests			
K/A Number: 2.2.12 Importance: 3.4			
Suggested Testing Environment: Any			
Actual Testing Environment: Simulator Hant Control Room			
Testing Method:□Simulate■Perform			
Time Critical: 🖵 No			
Estimated Time to Complete: 17 minutes Actual Time Used: minutes			
References: CPS No. 9011.01, CONTROL ROD/POSITION INDICATION OPERABILITY, Revision 27d			

CLINTON POWER STATION	
SYSTEM JPM	
JPM NUMBER: <u>901101.0101</u>	Revision 03
EVALUATION SUMMARY: Were all the Critical Elements performed satisfactorily?	🗅 No
The operator's performance was evaluated against the standards contain determined to be: Satisfactory Unsatisfactory	ned in this JPM, and has been
Comments:	
Evaluator's Name:	
Evaluator's Signature:	Date:

_

JPM NUMBER: <u>901101.0101</u>

Revision 03

READ TO THE OPERATOR

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

SIMULATOR SET-UP CONDITIONS:

Not Applicable

TASK STANDARDS:

Review of CPS 9011.01 Control Rod / Position Indication Operability surveillance has been completed.

Misaligned control rod has been identified.

Final Conditions of CPS 9011.01 not met has been determined.

TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

Marked up copy of CPS 9011.01, signing off all steps as satisfactory (procedure attached). Copy of an OD-7 Option 2, OD-7 Option 4 and an Official 3D Case.

PROCEDURAL/REFERENCES:

CPS 9011.01, CONTROL ROD/POSITION INDICATION OPERABILITY, Revision 27d

EVALUATOR INSTRUCTIONS:

Amplifying cues are provided within the JPM steps. Provide CPS 9011.01, initial 3D, and OD-7 and surveillance after reading the initiating cue.

INITIAL CONDITIONS:

You are the CRS. The plant is operating at 90% power. The A RO has completed CPS 9011.01 Control Rod/Position Indication Operability surveillance for all fully and partially withdrawn control rods.

INITIATING CUE:

Review the completed surveillance for approval. Report when the task is complete.

START TIME:

JPM NUMBER: <u>901101.0101</u>

Revision 03

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

1.	Review completed CPS 9011.01		
Standard CUE	Examinee begins review of 9011.01.		
Comments			
	SAT UNSAT Comment Number		
*2.	Review the initial and final Control Rod Position printouts to verify proper rod positions.		
Standard	Examinee performs review and identifies that rod 36-29 is at position 6		
CUE	instead of position 4.		
Comments	SAT UNSAT Comment Number		
*3.	Enter into Inadvertent Rod Movement CPS 4007.02		
Standard	Notify Shift Manager Obtain a 3D case and verify thermal limits. Contact the Reactor Engineer		
CUE	Hand examinee the "FINAL" 3D case		
Comments			
	SAT UNSAT Comment Number		

	CLINTON POWER STATION
	SYSTEM JPM
JPM NUMBER:	901101.0101

Revision 03

*5.	Direct the RO to return Control Rod 36-29 back to position 04		
Standard	Control Rod repositioning is directed		
CUE	As the Reactor Engineer, recommend the CRS to move control rod 36-29 from 06 to 04. Hand the examinee the move sheet.		
Comments			
	SAT UNSAT Comment Number		

Terminating Cue:

Review of 9011.01 has been completed and the discrepancy identified. Inadvertent Rod Movement CPS 4007.02 has been entered and step taken to reposition the control rod.

STOP TIME:

Revision 03

K/A REFERENCE NUMBERS

	Importance		
<u>K/A SYSTEM NUMBER</u>	<u>K/A NUMBER</u>	<u>RO</u>	<u>SRO</u>
GENERIC	2.2.12	3.0	3.4

Knowledge of surveillance procedures.
SYSTEM JPM

JPM NUMBER <u>901101.0101</u>

Revision 03

INITIAL CONDITIONS:

You are the CRS. The plant is operating at 90% power. The A RO has completed CPS 9011.01 Control Rod/Position Indication Operability surveillance for all fully and partially withdrawn control rods.

INITIATING CUE:

Review the completed surveillance for approval. Report when the task is complete.

CONTROL ROD/POSITION INDICATION OPERABILITY

SCOPE OF REVISION:

- Incorporated PAC 0407-97: Editorial typo. Rev marks not retained.
- Format/Organizational title updates, placekeeping aid enhancements, section 5.1 updated to include annunciator impact per 1005.01.
- CR1-98-02-110 (MLSR Project): Incorporated performance criteria and credit for ITS SR 3.9.5.1 MODE 5 control rod position checks.
- Documentation content of canceled CPS 9011.01C001, Control Rod Operability Checklist incorporated into body of this procedure.
- Incorporated PAC 0502-99, PDRs 99-0906 and 00-0298.
- Added flags for critical steps.
- Updates format, revised to make consistent with Limitations in CPS 3304.01, Control Rod Hydraulic & Control (RD).
- Specific rev 27d [Sheffield]: CR 130905: Added to review control rod database prior to movement of a single rod at elevated drive water pressure to establish what seal conditions are.

CONTAINS CRITICAL STEPS

CONTINUOUS USE

ORIGINATOR Thomas J. Landin

:

CLASS CODE: SNNN

ITR: K. Zipprich

APPROVAL SEP 16 1998 DATE:

CURI	RENT CHANGES	TO GENERAL	REVISION	
	Change #	Date	List of Affected Pages	
0	27a	02/21/01	1, 4, 6, 7	
0	27b	08/13/01	1, 3, 6	
6	27c	01/02/02	1,4	
4	27d	02/05/03	1 and 7	
~ -				

c 1.0 <u>PURPOSE</u>

Provide instructions for verifying control rod insertion capability by inserting each applicable PARTIALLY or FULLY withdrawn control rod one notch and observing that the control rod moves, thereby ensuring the control rod is not stuck and is free to insert on a SCRAM.

Instructions are also provided to return the control rods to their original positions to verify each applicable control rod is operable and that the position indication for each applicable control rod is operable.

This surveillance satisfies ITS SR requirements:

- 3.1.3.2, Insert each FULLY withdrawn control rod one notch (7 days)
- 3.1.3.3, Insert each PARTIALLY withdrawn control rod one notch (31 days)
- 3.9.5.1, Insert each withdrawn control rod one notch (7 days MODE 5)

2.0 **<u>DISCUSSION/DEFINITIONS</u>**

- 2.1 <u>FREQUENCY</u> «LBD-1»
- 2.1.1 Normal Frequency (MODEs 1, 2):
 - 7 Days for FULLY withdrawn control rods with THERMAL POWER > LPSP of the RPCS
 - 31 Days for PARTIALLY withdrawn control rods with THERMAL POWER > LPSP of the RPCS

2.1.2 Other Triggers:

- a) Within 24 hours from discovery of any withdrawn control rod that is stuck (will not insert by either CRD drive water or scram pressure) for all control rods either PARTIALLY or FULLY withdrawn, concurrent with THERMAL Power > the LPSP of the RPCS.
- b) MODE 5 when control rod withdrawn triggered via CPS 9000.01D002, Control Room Operator Surveillance Log - MODE 4,5 DATA SHEET (7 day frequency).
- 2.2 Individual sections or an individual step or individual steps within a section of this procedure may be performed independently for PMT or other maintenance activities. Those steps within a section that are not performed should be marked N/A. When only parts of a section are performed, it is the responsibility of the SMngt and the performer to ensure that all necessary prerequisites, precautions and limitations are met for those steps that will be performed. Additionally, the impact of NOT performing the remaining steps must also be understood.

0

2.0 DISCUSSION/DEFINITIONS (cont'd)

2.3 All applicable control rods (control rods not required to have their directional control valves disarmed electrically or hydraulically) will be moved at least one notch to verify proper rod motion and position indication response. Control rod exercising should be performed by a single notch insertion and single notch withdrawal, in as short a time as possible.

3.0 **<u>RESPONSIBILITY</u>**

Operations Department Head is responsible for the implementation of this procedure.

4.0 **PRECAUTIONS**

- 4.1 Plant evolutions which may result in reactivity changes should be avoided during performance of this surveillance.
- 4.2 Document control rod movement per CPS 9000.09, CPS Control Rod Manipulation Logs.

5.0 PREREQUISITES INITIAL 0 5.1 This procedure contains critical steps. A Critical Step is "Any action that, when performed improperly, will lead to an unintentional change that adversely impacts plant, system, or personnel". Performance of this procedure requires screening for a High Risk/High Production Risk/Risk Sensitive activity IAW WC-AA-104 and any existing requirements for Command and Control Standards. Critical steps are indicated by a {CS} in the left margin." 5.2 In conjunction with the SMngt, review the following impact statements to determine required plant status to perform this test: **OPERABILITY IMPACT:** ITS LCO 3.1.3 - Control Rod Operability SYSTEMS AFFECTED: 0 AFFECTED ANNUNCIATORS AND COMPUTER POINTS: None RPS TRIP: N/A CRVICS ISOLATION: N/A REQUIRED OPERABLE CHANNELS: N/A 0 PLANT/SYSTEM CONDITIONS REQUIRED TO CONDUCT TEST When in MODEs 1, 2: Power > low power set point (LPSP) of the Rod Pattern Control System (RPCS). When in MODEs 1, 2: For control rods not FULLY withdrawn, MAPRAT ≤ 0.96 . If MAPRAT > 0.96 a power reduction will be required prior to testing control rods that are not FULLY withdrawn. COINCIDENT CHANNELS TO PREVENT ACTUATION: N/A SM $\mathcal{D}L$ **Test Performer** SMngt 5.3 MODE 1, 2: Reactor power (> LPSP). <u>90</u> % 0 \mathcal{DL} [N/A when in MODE 5.] 0 5.4 SM/CRS permission to perform this surveillance. SM **SMngt** XX:XX / XX/XX/XX

Time/Date

6.0 **<u>LIMITATIONS</u>**

- 6.1 **IF** a control rod (or gang) is found out of sequence, **THEN** enter CPS 4007.02, Inadvertent Rod Movement.
- 6.2 In the event of accidental insertion of more than one notch, withdrawal should be by single notch to avoid any possible over-notching on the withdrawal.
- 6.3 MODEs 1, 2: MAPRAT shall be \leq 0.96 when exercising PARTIALLY withdrawn control rods. This limitation does not apply to FULLY withdrawn control rods.
- **06**.4 The Rod Withdraw Limiter (RWL) function of the Rod Control and Information system establishes a 4 notch withdraw limit when reactor power is between the Low Power Set Point (LPSP) and the High Power Set Point (HPSP), and a 2 notch withdraw limit when power is above the HPSP. The purpose of the RWL is to prevent fuel damage, caused by rod withdrawal which would uncover fuel that has been operating at a relatively low power level. The limit is set at 2 or 4 notches (as applicable) from the position of the control rod, the first time a Withdraw signal is applied after the rod is selected.

IF a control rod is inserted with the intent of leaving the rod at the new inserted position, **OR** power condition have changed significantly (RR flow changes or Xenon transient) since the control rod was inserted, **THEN** prior to withdrawing that control rod, deselect and reselect the control rod, to establish the RWL notch limits.

IF a control rod is inserted with the intent of returning the control rod to its original position for notch testing, **THEN** withdrawing the control rod to its original position in the continuous withdraw mode is permitted, **AND** is within the design basis of the RWL as long as power condition have not changed significantly.

Control rods should be deselected, any time that MCR personnel are **NOT** actively engaged in control rod movement activities. *«CM-1»*

7.0 MATERIALS/TEST EQUIPMENT - None

	8.0	<u>PROCEDURE</u>	Initial
Û	8.1	Obtain a Plant Monitoring System (PMS) Control Rod Position printout, using either: OD-7 Option 2, OD-7 Option 4, or Official 3D Case.	DL
0	8.1.1	From the OD-7 edit or Official 3D Case, determine which control rods are not required to be tested because they are not withdrawn.	DL
	8.1.2	Identify any control rods which are disarmed.	DL
	8.1.3	Identify any control rods which are PARTIALLY withdrawn.	DL

<u>NOTE</u>

When exercising PARTIALLY withdrawn rods during the monthly test, a "P/" should be used before initials to differentiate between partially withdrawn and fully withdrawn rods.

In this manner, the MODE 1, 2 requirement to limit $MAPRAT \le 0.96$ can be more readily determined.

8.1.4 On the CORE MAP (page 7):	
• Mark disarmed control rods with " DA ".	
• Mark FULLY inserted control rods with "N/A".	
• Mark partially withdrawn control rods with "P/" (if exercising PARTIALLY inserted rods).	DL
• Mark partially withdrawn control rods with "N/A" (if <u>not</u> exercising PARTIALLY inserted rods).	N/A

NOTE

Drives with new seals should not be moved per single notch with elevated drive water pressure, due to increase potential for double-notching. Consult control rod database for seal condition

<u>MODE 1 or 2</u>:

Individual and/or ganged rod movement may be used to perform this surveillance.

FULLY withdrawn control rods are not required to be performed until 8 days 18 hours after the control rod is fully withdrawn and THERMAL POWER is > LPSP of the RPCS.

Rods at position 46 for cooling shall be considered FULLY withdrawn and subject to the 7 day frequency. These rods may be required to be returned to position 48 first to perform the surveillance.

PARTIALLY withdrawn control rods are not required to be performed until 38 days 18 hours after the control rod is withdrawn and THERMAL POWER > LPSP of the RPCS.

<u>MODE 5</u>:

Individual rod movement shall be used to perform this surveillance.

Withdrawn control rods are not required to be performed until 7 days after the control rod is withdrawn.

	8.2	<u>Exercise of FULLY (PARTIALLY)</u> <u>Withdrawn Control Rods</u>	Initial					
0	8.2.1	MODEs 1, 2 PARTIALLY withdrawn rods only (N/A for FULLY withdrawn rods or MODE 5):						
		Verify MAPRAT ≤ 0.96 MAPRAT	DL					
		If MAPRAT > 0.96, then a power reduction shall be required to achieve MAPRAT \leq 0.96 prior to testing any PARTIALLY withdrawn control rods.						
9{CS}	8.2.2	Select and insert the desired rod(s) one notch, noting proper position indication tracking.	X Place Keeping Aid					
0{CS}	8.2.3	8.2.3 Withdraw the selected rod(s) one notch to original position.						
		a) Observe proper rod position indication tracking to the original rod position.	$\frac{\chi}{Place Keeping Aid}$					
		b) Check off the selected rod(s) after the rod(s) is tested by initialing the rod(s).[Document on CORE MAP]	X Place Keeping Aid					

		CPS <u>90</u>	11.01
	8.2.4	Repeat steps 8.2.2 and 8.2.3 for each FULLY (PARTIALLY) withdrawn control rod.	$\underbrace{X}_{Place Keeping Aid}$
	8.3	RESTORATION	Initial
0	8.3.1	Obtain a PMS Control Rod Position printout: OD-7 Option 2, OD-7 Option 4, or Official 3D Case.	DL
	8.3.2	Compare the initial and final Control Rod Position printouts to positions.	o verify proper rod
0	8.3.3	Notify the SMngt of the completion of this test.	DL
		<u>TODAY</u> / N Time/Date	<u>OW</u>

9.0 <u>ACCEPTANCE CRITERIA</u>

- 9.1 <u>Operability Requirements</u> Failure to meet the Acceptance Criteria shall constitute a failure to comply with the applicable LCO. ITS should be immediately reviewed to identify Action Statements needed for implementation. Refer to Supplemental Review Sheet for applicable LCOs.
- 9.1.1 All withdrawn control rods not required to have their directional control valves disarmed electrically or hydraulically are inserted at least 1 notch.
- 9.1.2 The indicated control rod position changes during movement of the Control Rod Drive.
- 9.2 <u>Other Requirements</u> None

10.0 FINAL CONDITIONS

The control rods are returned to their original positions.

CDC 0011 01

11.0 **REFERENCES**

- 11.1 CPS 4007.02, Inadvertent Rod Movement
- 11.2 CPS 9000.01D002, Control Room Operator Surveillance Log - MODE 4,5 Data Sheet
- 11.3 CPS 9000.09, CPS Control Rod Manipulation Logs
- 11.4 LBD-1: ITS SR 3.1.3.2, SR 3.1.3.3, SR 3.9.5.1
- 11.5 USAR 3.1.2.3.2.1, 4.6.3.1.1.5
- 11.6 GE Control Rod Drive Design Spec Data Sheet 22A5395 AE
- 11.7 GE Letter GGJ-88-100 dated 7-29-88
- 11.8 CM-1: CR 1-99-04-097
 - 12.0 <u>APPENDICES</u> None
- **O** 13.0 **<u>DOCUMENTS</u>** None

CORE MAP

			DL									
			16-53	20-53	24-53	28-53	32-53	36-53	40-53			
		DL	-									
		12-49	16-49	20-49	24-49	28-49	32-49	36-49	40-49	44-49		
	DL											
	08-45	12-45	16-45	20-45	24-45	28-45	32-45	36-45	40-45	44-45	48-45	
DL												
04-41	08-41	12-41	16-41	20-41	24-41	28-41	32-41	36-41	40-41	44-41	48-41	52-41
DL	DL	DL	DL	P/ DL	DL	P/ DL	DL	P/ DL	DL	DL	DL	DL
04-37	08-37	12-37	16-37	20-37	24-37	28-37	32-37	36-37	40-37	44-37	48-37	52-37
DL												
04-33	08-33	12-33	16-33	20-33	24-33	28-33	32-33	36-33	40-33	44-33	48-33	52-33
DL	DL	DL	DL	P/ DL	DL	DL	DL	P/ DL	DL	DL	DL	DL
04-29	08-29	12-29	16-29	20-29	24-29	28-29	32-29	36-29	40-29	44-29	48-29	52-29
DL												
04-25	08-25	12-25	16-25	20-25	24-25	28-25	32-25	36-25	40-25	44-25	48-25	52-25
DL	DL	DL	DL	P/ DL	DL	P/ DL	DL	P/ DL	DL	DL	DL	DL
04-21	08-21	12-21	16-21	20-21	24-21	28-21	32-21	36-21	40-21	44-21	48-21	52-21
DL												
04-17	08-17	12-17	16-17	20-17	24-17	28-17	32-17	36-17	40-17	44-17	48-17	52-17
	DL											
	08-13	12-13	16-13	20-13	24-13	28-13	32-13	36-13	40-13	44-13	48-13	
		DL										
		12-09	16-09	20-09	24-09	28-09	32-09	36-09	40-09	44-09		
			DL									
			16-05	20-05	24-05	28-05	32-05	36-05	40-05			

CONTROL ROD OPERABILITY CHECKLIST

CORR	ECTIVE ACTION	TAKEN			
9.1	ACCEPTANCE C	RITERIA			
	ITS LCOs:	3.1.3	3.9.5		
	ORM ORs:	None			
	ODCM ORs:	None			
	As applicable Ini	e: tiated Con	dition Report		
	Tni	tiated Mai	() ntenance Request	(MR) No	
	111		neenanee nequese	(111() 110.	
9.2	ACCEPTANCE C	RITERIA			
	As applicable Ini	e: tiated Con	dition Report(y	ves/no)	
	Ini	tiated Mai	ntenance Request	(MR) No	
<u>revi</u>	EW AND APPROV	AL			
Surv	eillance Coor	dinator _	(Signature)	(Dat	e)

Job Performance Measure (JPM)

PAGE	1,	INITI	AL							
				CLINT	TON CYCLE	6	SEQUE	ENCE NO 23		
CORE PA	ARAN	1ETERS		3D MC	ONICORE		toda	ay-2xxx xx:	xx CALCU	LATED
POWER	MWI	C	3125	PERIC	DDIC LOG		toda	ay-2xxx xx:	xx PRINT	ED
POWER	MWE	2	1062				CASE	ID FMLD1950	07082058	55
FLOW	MLE	3/HR	75.84	4 CALC F	RESULTS		RESTA	ART FMLD1950	07081958	45
FPAPDR			0.82	4			LPRM	SHAPE - FUI	LL CORE	
SUBC	BTU	J/LB	23.4	9 Keff	1.	0000				
PR	PSI	[a	1027.	9 XE WOF	RTH % -2.	52	LOAD	LINE SUMMAR	RY	
CORE	MWI	D/sT	20850.	8 XE/RAT	TED 1.	00	CORE	POWER	89.9	90
CYCLE	MWI)/sT	8741.	6			CORE	FLOW	89.8	90
MCPR			1.26	8			LOAD	LINE	100.0	010
CORRECT	TUN	J FACT	OR · MFT.	CPR= 1 000) MFLPD=	1 000	маря	RAT= 0 999		
OPTION	• Z	ARTS	DIIA	L LOOP	MANIIAT.	FLOW	MCPF	$RT_TM = 1 240$		
0111010	• 1	11(10	MOST	LIMITING I	COCATIONS	(NON-S	SYMMET	(DIN 1.210		
MFLCPR	т	.0C	MFLPD	LOC	MAPRAT	T.C)C	PCRAT	LOC	
0.978	37	7-28	0.912	17-22-18	0.821	7-2	28-5	0.798	41-28-1	6
0.976	30	9-26	0.912	7-28-5	0.817	15-3	30-16	0.798	19-28-1	6
0 975	41	-28	0 912	41-28-16	0 817	11-2	2-13	0 797	7-28-	5
0 973	11	-28	0 902	19-28-16	0 816	19-2	26-16	0 791	39-22-2	0
0 940	13	3-32	0 896	15-38-18	0 813	19-3	30-15	0 782	9-22-1	3
0.939		9-26	0.895	21-26-16	0.803	7-2	26-12	0.779	11-20-1	3
0.937	11	-20	0.893	17-26-16	0.802	9-3	36-13	0.779	17-26-1	6
0.930	39	9-22	0.889	9-22-13	0.798	11-3	30-11	0.777	11-28-1	5
0.927	7	7-28	0.889	11-20-13	0.796	9-2	26-5	0.776	13-32-1	6
0.923	ç	9-22	0.888	13-32-16	0.795	39-2	22-20	0.774	47-26-1	2
SEQ. B-	-2	C=	MFLCPR D	=MFLPD M=N	APRAT P=P	CRAT '	HUL1	COPLE COP	RE AVE A	XIAL
53								NOTCH	REL PW	LOC
								00	0.238	25
49								02	0.446	24
L								04	0.804	23
45								06	0.963	22
								08	1.056	21
41				P				10	1.158	20
L								12	1.191	19
37			18	C4	18			14	1.163	18
								16	1.182	17
33								18	1.220	16
L								20	1.215	15
29			4		4			22	1.18/	14
25								24	1.212	⊥3 10
23 T								26	1 101	⊥∠
上 21			10	Л	10			20	⊥.⊥ŏ⊥ 1 170	1 D
$\angle \perp$			ΤQ	4	ΤQ			30	1.1CC	T 0
1 7			D					32	1.100 1.101	09
1 / T			D					24	1 095	00
12								20	1 072	07
10								30	1.072	06
0.0								40	T.000	0.0
с 9 Т.				M				4∠ ЛЛ	0.990 N 920	04
 05т	r.	т	т	T INI	т	т		44	0.920	02
0.0 1	0.8	12 12	16 20	ىر 24 28 32	× 36 40	44 Z	18 53		0 237	01
04	00	1 L	10 20	2 I 20 J2			10 02	0	0.201	ΟŢ
CORE AN	VERZ	AGE RA	DIAL POW	ER DISTRIF	BUTION					
RING #		1	2	3 4	5	6	-	7		
REL PW	0	.890	1.084 1	.113 1.10	2 1.155	1.145	0.72	.7		

PAGE 2

CLINTON CYCLE 6 INSTRUMENT READINGS/STATUS SEQUENCE NO 23

Job Performance Measure (JPM)

		C	CALIBRA	ATED LI	PRM RE	ADINGS	today-2xxx xx:xx CALCULATED today-2xxx xx:xx PRINTED
47D		40.1	49.8	55.7	45.9	30.2	CASE ID FMLD1950708205855
C		57.0	59.8	60.3	64.5	43.0	LPRM SHAPE - FULL CORE
B		61.2	63.6	60.9	69.2	41.9	
A		51 1	54 9	49 5	63 0	27 7	# OF TIPS BEJECTED, 1
		01.1	0110	10.0	00.0		" of fillo fillolotild, f
39D	35.4	51.3	58.4	61.1	57.5	46.0	FAILED SENSORS:
С	55.8	62.7	60.3	59.6	66.5	67.9	LPRM (2 SIGNAL FAILED)
В	60.0	65.2	60.7	57.0	66.7	70.2	615A 3815D
A	52.7	61.1	50.4	44.4	54.7	63.8	LPRM (O PANACEA REJECTED)
							OTHER SENSORS (0 TOTAL)
31D	39.9	51.6	55.8	56.0C	55.7	48.5	SUB RODS
C	63.7	71.1	68.3	63.1	72.6F	70.4	NONE
B	69 6	71 2	66 7	59 2	72 9	73 4	
A	67 6M	69 0	61 1	45 4	71 1	71 8	T = TIP RUN RECOMMENDED
21	07.011	0.0	01.1	10.1	/ ± • ±	/1.0	C = MFLCPR LOCATION
730	10 0	5/3	58 1	57 0	50 5	18 0	M - MARRAT LOCATION
250	40.0	54.5 67 20	63 7	50.2	55.5	40.0	D - MEIDD LOCATION
	02.2	07.3D	03.7	59.2	00.0	09.0	D - DODIE LOCATION
В	67.I	67.I	01.4	20.9	00.0	/1.1	P = PCRAT LOCATION
А	66.3	58.6	48./	44.2	55.0	66.I	* = MOLITPLE LIMIT
15D	28.5	46.2	55.5	57.2	0.0	39.4	
С	42.4	63.6	62.8	59.1	65.4	59.1	
В	43.2	68.6	61.9	57.4	67.6	62.2	
A	0.0	61.7	49.9	44.3	64.3	50.4	
07D		29.1	39.3	40.7	36.6		
С		41.4	58.6	56.6	54.5		
В		42.3	64.8	61.8	58.3		
A		31.2	57.2	55.6	48.4		
		01.5	0.1.2	00.0	10.1		
	06	14	22	30	38	46	
CORE	SUMMAR	RY					
CORE POWE	ER 89	9.9%	CALC S	SUB FLO	W	91.3%	DP MEAS PSI 15.52
CORE FLOW	v 80	9.8%	OPER S	SUB FLC	W	-1.2%	DP CALC PSI 20.52
LOAD LINE	E 100	0.0%	FLOW B	BASIS		MEAS	FEEDWTR FLOW MLB/HR 13.5
APRM	CALIB	RATION					
	A	В	C	2	D		
READING	100.4	100.	6 10	0.2	100.2		
AGAI	0.994	0.95	·	221	0.39/		

TIP RUNS RECOMMENDED

STRINGS: NONE

NE

<u>901101.0101</u>

Job Performance Measure (JPM)

UNIT 1,	PAGE (1 OF	1										
OD-7, C Option	ONTROL 2	ROD	NOTCH	POSI	TIONS,	NEW	SCAN						
53				48	48	48	48	48	48	48			
49			48	48	48	48	48	48	48	48	48		
45		48	3 48	48	48	48	48	48	48	48	48	48	
41	48	8 48	3 48	48	48	48	48	48	48	48	48	48	48
37	48	3 48	3 48	48	18	48	4	48	18	48	48	48	48
33	48	3 48	3 48	48	48	48	48	48	48	48	48	48	48
29	48	3 48	3 48	48	4	48	48	48	4	48	48	48	48
25	48	3 48	3 48	48	48	48	48	48	48	48	48	48	48
21	48	3 48	3 48	48	18	48	4	48	18	48	48	48	48
17	48	3 48	3 48	48	48	48	48	48	48	48	48	48	48
13		48	3 48	48	48	48	48	48	48	48	48	48	
9			48	48	48	48	48	48	48	48	48		
5				48	48	48	48	48	48	48			
	4	8	12	16	20	24	28	32	36	40	44	48	52

Job Performance Measure (JPM)

PAGE	1, FINAL								
			CLINTC	N CYCLE	6	SEQUE	INCE NO 23		
CORE PA	ARAMETERS		3D MON	IICORE		toda	ay-2xxx xx:	XX CALCU	JLATED
POWER	MWT	3125	PERIOD	DIC LOG		toda	y-2xxx xx:	XX PRINI	ΈD
POWER	MWE	1062				CASE	ID FMLD195	07082058	55
FLOW	MLB/HR	75.844	CALC RE	SULTS		RESTA	RT FMLD195	07081958	45
FPAPDR		0.824				LPRM	SHAPE - FU	LL CORE	
SUBC	BTU/LB	23.49	Keff	1.	0000				
PR	PSIa	1027.9	XE WORI	Ч % −2.	52	LOAD	LINE SUMMA	RY	
CORE	MWD/sT	20850.8	XE/RATE	D 1.	00	CORE	POWER	89.9	18
CYCLE	MWD/sT	8741.6				CORE	FLOW	89.8	18
MCPR		1.268				LOAD	LINE	100.0	18
CORRECT	TION FACT	OR: MFLCPR	= 1.000	MFLPD=	1.000	MAPF	RAT= 0.999		
OPTION	: ARTS	DUAL L	OOP	MANUAL	FLOW	MCPF	RLIM= 1.240		
		MOST LIM	ITING LC	CATIONS	(NON-	SYMMET	RIC)		
MFLCPR	LOC	MFLPD	LOC	MAPRAT	' L	0C	PCRAT	LOC	
0.978	37-28	0.912 17	-22-18	0.821	7-	28-5	0.798	41-28-1	6
0.976	39-26	0.912 7	-28- 5	0.817	1.5-	30-16	0.798	19-28-1	6
0.975	41-28	0.912 41	-28-16	0.817	11-	22-13	0.797	7-28-	.5
0.973	11-28	0 902 19	-28-16	0.816	19-	26-16	0 791	39-22-2	0
0.975	13_32	0.902 15	_38_18	0.010	10_	30_15	0.791	9-22-2	3
0.240	9-26	0.000 10	-26-16	0.013		26 - 12	0.702	11_20_1	3
0.939	9-20 11 20	0.095 21	-20-10	0.803	,-	20 - 12	0.779	17 20 1	. S
0.937	11-20	0.893 1/	-26-16	0.802	9- 11	30-13	0.779	1/-26-1	. 10
0.930	39-22	0.889 9	-22-13	0.798	11-	30-11	0.777	11-28-1	.5
0.927	7-28	0.889 11	-20-13	0.796	9-	26- 5	0.776	13-32-1	.6
0.923	9-22	0.888 13	-32-16	0.795	39-	22-20	0.//4	4/-26-1	. 2
SEO. B-	-2 C=1	MFLCPR D=MF	LPD M=MA	PRAT P=F	CRAT	*=MULI	IPLE CO	re ave a	XIAL
53							NOTCH	REL PW	LOC
00							00	0 238	25
49							02	0 446	24
T.							04	0 804	23
45							06	0 963	22
10							00	1 056	21
41			Þ				10	1 158	20
т. Т.			L				12	1 191	19
37		1.8	C1	1.8			11	1 163	1.9
57		ΞŪ	01	10			16	1 100	17
22							10	1 220	16
33 T							10	1.220	15
ц 1		4		C			20	1.215	10
29		4		6			22	1.18/	14
							24	1.212	13
25							26	1.207	12
L							28	1.181	11
21		18	4	18			30	1.170	10
							32	1.166	09
17		D					34	1.131	08
L							36	1.085	07
13							38	1.072	06
							40	1.050	05
09							42	0.998	04
L			М				44	0.920	03
05 I	L L	L	L	L	L		46	0.749	02
04	08 12 2	16 20 24	28 32	36 40	44	48 52	2 48	0.237	01
CORE AV	VERAGE RAI	DIAL POWER	DISTRIBU	JTION					
RING #	1	2 3	4	5	6	7	1		
REL PW	0.890	1.084 1.113	1.102	1.155	1.145	0.72	7		

PAGE 2

Job Performance Measure (JPM)

CLINTON	CYCLE	6	INSTRU CALIBR	MENT F ATED I	READING	GS/STATU: EADINGS	S SEQUENCE NO 23 today-2xxx xx:xx CAL	CULATED
47D		40.1	49.8	55.7	45.9	30.2	today-2xxx xx:xx PRI CASE ID FMLD195070820	NTED 5855
С		57.0	59.8	60.3	64.5	43.0	LPRM SHAPE - FULL COR	Ξ
В		61.2	63.6	60.9	69.2	41.9		
A		51.1	54.9	49.5	63.0	27.7	# OF TIPS REJECTED	: 1
39D	35.4	51.3	58.4	61.1	57.5	46.0	FAILED SENSORS:	`
С	55.8	62.7	60.3	59.6	66.5	67.9	LPRM (2 SIGNAL FA	AILED)
В А	60.0 52.7	65.2 61.1	60.7 50.4	57.0 44.4	66.7 54.7	63.8	LPRM (O PANACEA)	REJECTED)
210	30 0	51 6	55 0	56 00	557	10 5	OTHER SENSORS (0	TOTAL)
SID	63 7	71 1	52.0	63 1	72 6	40.J	NONE	
B	69 6	71 2	66 7	59 2	72.0	73.4	NONE	
A	67.6M	69.0	61.1	45.4	71.1	71.8	T = TIP RUN RECOMM	ENDED
		0.0.0	01.1	10.1			C = MFLCPR LOCATION	N
23D	40.0	54.3	58.1	57.9	59.5	48.0	M = MAPRAT LOCATIO	N
С	62.2	67.31	63.7	59.2	66.8	69.0	D = MFLPD LOCATION	
В	67.1	67.1	61.4	56.9	66.6	71.1	P = PCRAT LOCATION	
A	66.5	58.6	48.7	44.2	55.6	66.1	* = MULTIPLE LIMIT	
15D	28.5	46.2	55.5	57.2	0.0	39.4		
С	42.4	63.6	62.8	59.1	65.4	59.1		
В	43.2	68.6	61.9	57.4	67.6	62.2		
A	0.0	61.7	49.9	44.3	64.3	50.4		
07D		29.1	39.3	40.7	36.6			
С		41.4	58.6	56.6	54.5			
В		42.3	64.8	61.8	58.3			
A		31.2	57.2	55.0	48.4			
	06	14	22	30	38	46		
COR	E SUMMAI	RY						
CORE PO	WER 8	9.9%	CALC	SUB FI	LOW	91.3%	DP MEAS PSI	15.52
CORE FLO	OW 89 NE 100	9.8%).0%	OPER FLOW	SUB FI basts	low	-1.2% MEAS	DP CALC PSI FEEDWTR FLOW MLB/HR	20.52 13.5
	10		12011	211010		112110		20.0
APRI	M CALIBI	RATION	1	C	D			
READING	A 100 4	Б 100) 6 1		100	2		
AGAF	0.994	0.9	92 0	.997	0.99	7		
ΨТΡ	RIINS RI	ECOMME	NDED					
STRINGS	:	NONE]					
	1 530	1			T	- 1		
ONT.L.	L, PAG	1 고	OF I		rina D	а⊥ • . •		
					Pos:	ltions		
OD-7,	CONTR	COL F	ROD NO	DTCH	POSI	TIONS,	NEW SCAN	
OBJ.T.TOL	N Z							

53 48 48 48 48 48 48 48 48

<u>901101.0101</u>

Job Performance Measure (JPM)													
49			48	48	48	48	48	48	48	48	48		
45		48	48	48	48	48	48	48	48	48	48	48	
41	48	48	48	48	48	48	48	48	48	48	48	48	48
37	48	48	48	48	18	48	4	48	18	48	48	48	48
33	48	48	48	48	48	48	48	48	48	48	48	48	48
29	48	48	48	48	4	48	48	48	6	48	48	48	48
25	48	48	48	48	48	48	48	48	48	48	48	48	48
21	48	48	48	48	18	48	4	48	18	48	48	48	48
17	48	48	48	48	48	48	48	48	48	48	48	48	48
13		48	48	48	48	48	48	48	48	48	48	48	
9			48	48	48	48	48	48	48	48	48		
5				48	48	48	48	48	48	48			
	4	8	12	16	20	24	28	32	36	40	44	48	52



Nuclear

CLINTON POWER STATION					
Job Performance Measure					
Authorize an emergency dose for a life saving	g operation				
JPM Number: 997777.0301					
Revision Number: 01					
Date: 12/11/03	Date: 12/11/03				
Developed By: <u>T. Pickley</u> Instructor	<u>12/11/03</u> Date				
Validated By: <u>T. Coe</u> SME or Instructor	<u>12/12/03</u> Date				
Review By: <u>P. Ryan</u> Operations Representative	<u>12/15/03</u> Date				

JPM NUMBER: <u>997777.0301</u>

REVISION: 01

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.

- Task description and number, JPM description and number are identified.
 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 (*).
- Verify the procedure referenced by this JPM matches the most current revision of that procedure: Procedure Rev. ____ Date ____
 - 9. Pilot test the JPM:
 a. verify cues both verbal and visual are free of conflict, and
 b. ensure performance time is accurate.
 - 10. If the JPM cannot be performed as written with proper responses, then revise the JPM.
 - 11. When JPM is revalidated, SME or Instructor sign and date JPM cover page.

SME/Instructor

SME/Instructor

Date

Date

Date

JPM NUMBER: <u>997777.0301</u>

REVISION: 01

Revision Record (Summary)

- 1. **Revision 00,** This is a new JPM
- 2. **Revision 01,** Incorporate NRC comments

JPM NUMBER: <u>997777.0301</u>	REVISION <u>: 01</u>
Operator's Name:SSN	
Job Title: \Box NLO \Box RO \Box SRO \Box STA	SRO Cert
JPM Title/Number: 997777.0301, Authorize an eme operation	rgency dose for a life saving
Revision Number: <u>01</u> Task Number and Title: 997777.03, Complete Emergency an SRO	y Plan Activities performed by
Suggested Testing Environment: Any	
Actual Testing Environment: Simulator P	lant 📮 Control Room
Testing Method:Image: SimulateFaultedImage: PerformPerformAlternate Path	: □ Yes : □ No
Time Critical: 🖵 No	
Estimated Time to Complete: 6 minutes Actual	Time Used: minutes
References:	
EVALUATION SUMMARY: Were all the Critical Elements performed satisfactorily?	🗅 Yes 🗅 No
The operator's performance was evaluated against the sta and has been determined to be:	ndards contained in this JPM, Unsatisfactory
Comments:	
Evaluator's Name:	
Evaluator's Signature:	Date:

JPM NUMBER: <u>997777.0301</u>

REVISION: 01

READ TO THE OPERATOR

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

SIMULATOR SET-UP CONDITIONS:

None

TASK STANDARDS:

The life saving operation is authorized.

TOOLS, EQUIPMENT, OTHER SPECIAL REQUIREMENTS:

None

PROCEDURAL/REFERENCES:

EP-AA-113r4 Personnel Protective Actions

EVALUATOR INSTRUCTIONS:

Amplifying cues are provided within the JPM steps. Supply the operator the partially filled out EP-AA-113 Attachment 2 as the volunteer.

INITIAL CONDITIONS

An emergency life saving operation must be performed. The operation will take 10 minutes in a 180 Rem/hr field. A volunteer, age 45, comes for your approval to perform the life saving operation.

INITIATING CUE:

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

START TIME: _____

JPM NUMBER: <u>997777.0301</u>

REVISION: 01

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

*1.	Determines checked dose for the operation is incorrect				
Standard	Dose of 25 Rem should be checked				
CUE	Hand the partially filled out EP-AA-113 Attachment 2 to the examinee as the volunteer				
Comments	SAT UNSAT Comment Number				

2.	Determines volunteer has not signed form for briefing			
Standard	Determines volunteer has not been briefed			
CUE	I was told you would perform the brief			
Comments	SAT UNSAT Comment Number			

JPM NUMBER: <u>997777.0301</u>

REVISION<u>: 01</u>

*3.	Briefs volunteer on Health effects			
Standard	50 rad will result in 2% of population affected by prodromal effects			
CUE				
Comments	SAT UNSAT Comment Number			
*4.	Briefs volunteer on Cancer risk			
Standard	At 45 years old, 5.3 per 1000 persons exposed to 25 rem, risk premature			
CUE	death with an average of 15 years of life lost			
Comments	SAT UNSAT Comment Number			
5. Standard	Determines that Rad. Protection Management (Review) signature is not required for authorization			
CUE				
Comments	SAT UNSAT Comment Number			

JPM NUMBER: 997777.0301

REVISION: 01

izes the exposure

SAT

Standard Signs for approval

CUE

Comments

UNSAT Comment Number

STOP TIME:

JPM NUMBER: <u>997777.0301</u>

REVISION: 01

TERMINATING CUES:

The life saving operation is authorized.

K/A REFERENCE NUMBERS

Importance Rating

<u>K/A SYSTEM NUMBER</u>	<u>K/A NUMBER</u>	<u>RO</u>	<u>SRO</u>
Generic	2.3.4	2.5	3.1

Knowledge of radiation exposure limits and contamination control / including permissible levels in excess of those authorized.

JPM NUMBER: 997777.0301

REVISION: 01

INITIAL CONDITIONS

An emergency life saving operation must be performed. The operation will take 10 minutes in a 180 Rem/hr field. A volunteer comes for your approval to perform the life saving operation.

INITIATING CUE:

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



Nuclear

____1

CLINTON POWER STATION						
	Job Performance Measure					
Complet	e a NARS Form and make	the required notif	ications			
	JPM Number: 9	99999.24				
	Revision Num	ber: 03				
	Date: 12/09/03					
Developed By:	T. Pickley		<u>12/09/03</u>			
	Instructor		Date			
Validated By:	T. Coe		12/12/03			
	SME or Instructor		Date			
Review By:	P. K. Ryan		<u>12/15/03</u>			
	Operations Represer	tative	Date			

Γ.

REVISION: 03

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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

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

JPM NUMBER: <u>999999.24</u>

REVISION: 03

Revision Record (Summary)

- 1. **Revision 01**, This is a new JPM. Revision 0 previously used.
- 2. **Revision 02,** Updated for new procedure
- 3. **Revision 03**, Incorporate NRC comments

JPM NUMBER: <u>999999.24</u>

REVISION: <u>03</u>

Operator's Name:					
Job Title: INLO I RO I SRO I STA I SRO Cert					
JPM Title: Complete a NARS Form and make the required notifications. JPM Number: <u>999999.24</u> Revision Number: <u>03</u> Task Number and Title: <u>999999.24</u> : <u>Preparation of Notification Form.</u>					
Suggested Testing Environment: Control Room					
Actual Testing Environment: 🗅 Simulator 🗅 Plant 🗅 Control Room					
Testing Method:Image: SimulateFaulted:Image: NoImage: PerformAlternate Path:Image: No					
Time Critical: 🖵 Yes					
Estimated Time to Complete: 15 minutes Actual Time Used: minutes					
References: EP-AA-1003r4, RADIOLOGICAL EMERGENCY PLAN ANNEX FOR CLINTON STATION, EP-AA-111r7 EMERGENCY CLASSIFICATION AND PROTECTIVE ACTION RECOMMENDATIONS					
EVALUATION SUMMARY: Were all the Critical Elements performed satisfactorily? Yes No					
The operator's performance was evaluated against the standards contained in this JPM, and has been determined to be: Satisfactory Unsatisfactory					
Comments:					
Evaluator's Name:					
Evaluator's Signature: Date:					

JPM NUMBER: <u>999999.24</u>

REVISION: <u>03</u>

EVALUATOR INSTRUCTIONS:

Provide NARS form and the Initial Conditions (Attachment A)

INITIAL CONDITIONS:

You are the Shift Manager. A LOCA has occurred in the plant. Level is less than -187 in. Containment pressure is 15 psig. The inboard and outboard MSIVs on the D Main Steam Line have failed to shut. Wind direction is varying between 280 and 284 degrees. Wind speed is 10 mph. No release of radioactive materials has occurred. An EAL initial classification of General Emergency as EAL FG1, has just been declared.

INITIATING CUE:

You are to complete the NARS Form and make the required notifications. Report when the task is complete.

START TIME: _____

JPM NUMBER: <u>999999.24</u>

REVISION: <u>03</u>

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

1.			
UTILITY MESSA	GE NO		
STANDARD	1		
CUE:	1		
COMMENTS:	START TIME FOR NEXT SECTIO	DN:	(Time Critical)
		SAT	UNSAT
2.			
STATE MESSAG	E NO		
STANDARD:	N/A		
CUE:			
COMMENTS:			
		SAT	UNSAT

JPM NUMBER: <u>99</u> 3.	9999.24		REVISION: <u>03</u>
1. <u>STATUS</u> [A] ACTUAL [B] DRILL/EXERCISE			
STANDARD:	Either		
CUE:			
COMMENTS:			
		SAT	UNSAT
*4.			
2. <u>Station</u> [A] Braidwood [B] Byron	[C] CLINTON [D] DRESDEN	[E] LASALLE [F] QUAD CITIES	[G] ZION
STANDARD:	[C] CLINTON		
CUE:			
COMMENTS:			
		SAT	UNSAT

JPM NUMBER: 999999.24

REVISION: <u>03</u>

*5.

3. ONSITE CONDITION

[A] UNUSUAL EVENT
[B] ALERT
[C] SITE AREA EMERGENCY
[D] GENERAL EMERGENCY
[E] RECOVERY
[F] TERMINATED

STANDARD: [D] GENERAL EMERGENCY

CUE:

COMMENTS:

SAT _____ UNSAT _____

*6.

4. ACCIDENT CLASSIFIED

TIME (3[A-E]):_____ DATE(3[A-E]):_____ EAL#:_____

ACCIDENT TERMINATED

TIME:_____ DATE:

STANDARD: <u>ACCIDENT CLASSIFIED</u>

Present Date and Time when Cue was acknowledged. EAL#: FG1

ACCIDENT TERMINATED

Time and Date: N/A

CUE:

COMMENTS:

SAT _____ UNSAT _____
JPM NUMBER: <u>999999.24</u>

REVISION: <u>03</u>

*7.

5. <u>RELEASE STATUS</u> 6. [A] NONE [B] OCCURRING [C] TERMINATED

STANDARD: [A] NONE

CUE:

COMMENTS:

SAT _____ UNSAT _____

*8.

TYPE OF RELEASE

[A] NOT APPLICABLE [B] GASEOUS [C] LIQUID

STANDARD: [A] NOT APPLICABLE

CUE:

COMMENTS:

SAT _____ UNSAT _____

JPM NUMBER: <u>999999.24</u>

REVISION: <u>03</u>

*9.

7. WIND DIR

(DEGREES FROM)

STANDARD:	280-284
	(DEGREES FROM)

CUE:

COMMENTS: May just indicate 280

SAT _____ UNSAT _____

*9.

8. <u>WIND SPEED</u> [A] METERS/SEC.:_____ [B] MILES/HR.:

STANDARD:	8. <u>WIND SPEED</u>	
	[A] METERS/SEC.:	
	[B] MILES/HR.:	10

CUE:

COMMENTS:

SAT	UNSAT	

JPM NUMBER: <u>999999.24</u>

REVISION: <u>03</u>

*10.

9. RECOMMENDED ACTIONS

STANDARD:	Determines Protective Action Recommendation using EP-AA-111 & Attachment 7
	Writes in SUB-AREAS (ILLINOIS): 1, 3, 4

[B] EVACUATE SUB-AREAS (ILLINOIS): 1, 3, 4

CUE:

COMMENTS:

SAT _____ UNSAT _____

11.

10. ADDITIONAL INFORMATION

STANDARD: None

CUE:

COMMENTS:

SAT _____ UNSAT _____

JPM NUMBER: <u>999999.24</u>

REVISION: 03

*12. MAKE THE NOTIFICATIONS

STANDARD: Dial NARS Code 36

CUE: You receive a "beep" and the following agencies respond as on line: Illinois EMA DeWitt Co. Sheriff Illinois REAC DeWitt Co. EOC

COMMENTS:

SAT _____ UNSAT _____

*13. CONDUCT A ROLL CALL

- STANDARD: Checks off each agency as they respond.
- CUE: Acknowledge each agency on line

COMMENTS:

SAT	UNSAT

*14. FILL IN TIME AND DATE OF ROLL CALL

- STANDARD: Time and Date of Roll Call filled in on page 2 of the NARS form
- CUE: When recommendation has been made, report as the communicator that a wind shift occurred. Provide NARS Form. (Attachment B)
- COMMENTS: STOP TIME FOR TIME CRITICAL PORTION OF JPM: _____ (< 15 Minutes)

SAT _____ UNSAT _____

JPM NUMBER: <u>999999.24</u>		REVISION: <u>03</u>		
*15. READ THE	NARS MESSAGE			
STANDARD:				
CUE:	Acknowledge the message			
COMMENTS:	Check with answer key	SAT	_UNSAT	
16.				
11. TRANSMITTEI	D BY:			
STANDARD:	<u>NAME</u> [X] EXELON: <u>Examinees name</u>	PHONE NUMBER 1-217-937-XXX	TIME/DATE XX:XX XX/XX/XX	
CUE:				
COMMENTS:		SAT	_UNSAT	
17.				
12. RECEIVED BY	?:			
STANDARD:	Asks for name of the IEMA represe	ntative and enter inform	nation on the NARS form	
CUE:	Give the examinee a name			
COMMENTS:		SAT	_UNSAT	

JPM NUMBER: <u>99</u>	9999.24	REVISIO	DN: <u>03</u>	
18. REPEAT THE	ROLL CALL			
STANDARD:Checks off each agency as they respond.CUE:Acknowledge each agency on line				
COMMENTS:	S	AT	UNSAT	
19. ASK if there are any questions and ends the communication				
STANDARD:	Answers any questions			
CUE:				
COMMENTS:	S	AT	UNSAT	

JPM NUMBER: <u>999999.24</u>

REVISION: <u>03</u>

K/A REFERENCE NUMBERS

Importance Rating

K/A SYSTEM NUMBER	<u>K/A NUMBER</u>	<u>RO</u>	<u>SRO</u>
GENERIC	2.4.44	2.1	4.0

Knowledge of emergency plan protective action recommendations.

JPM NUMBER: <u>999999.24</u>

REVISION: <u>03</u>

INITIAL CONDITIONS:

You are the Shift Manager. A LOCA has occurred in the plant. Level is less than -187 in. Containment pressure is 15 psig. The inboard and outboard MSIVs on the D Main Steam Line have failed to shut. Wind direction is varying between 280 and 284 degrees. Wind speed is 10 mph. No release of radioactive materials has occurred. An EAL initial classification of General Emergency as EAL FG1, has just been declared.

INITIATING CUE:

You are to complete the NARS Form and make the required notifications. Report when the task is complete.

JPM NUMBER: <u>997777.02</u> ATTACHMENT A

REVISION: <u>03</u>

EP-MW-114-100
Revision 3
Page 12 of 16

ATTACHMENT 1 NUCLEAR ACCIDENT REPORTING SYSTEM (NARS) Page 1 of 2

UTILITY MESSAGE NO.		STATE MESSAGE NO		
1. <u>STATUS</u> [A] ACTUAL [B] DRILL/EXERCISE	2. <u>Station</u> [A] Braidwood [([B] Byron [[C] CLINTON D] DRESDEN	[E] LASALLE [F] QUAD CITIE	[G] ZION ES
3. <u>ONSITE CONDITION</u> [A] UNUSUAL EVENT [B] ALERT [C] SITE AREA EMERGE [D] GENERAL EMERGE [E] RECOVERY [F] TERMINATED	4. <u>Acciden</u> Time (3[A-E]) Date(3[A-E]) ENCY EAL#: NCY	<u>r CLASSIFIED</u>):):	<u>A(</u> TIME: 	CCIDENT TERMINATED
5. <u>RELEASE STATUS</u> [A] NONE [B] OCCURRING [C] TERMINATED	6. <u>TYPE OF RELEA</u> → [A] NOT APPLICAI → [B] GASEOUS → [C] LIQUID	ASE 7. WIND BLE (DEGREE	D DIR ES FROM)	8. <u>WIND SPEED</u> [A] METERS/SEC.: [B] MILES/HR.:
9. <u>RECOMMENDED AC</u>	TIONS			
UTILITY RECOMMENDA [A] NONE (UE, Alert and [B] EVACUATE ILLINOIS [C] EVACUATE IOWA SI	ATION SAE Only) SSUB-AREAS (GE On JB-AREAS (GE Only):	ıly):		
STATE RECOMMENDA [D] NONE [E] SHELTER SUB-ARE [F] EVACUATE SUB-AR [G] RECOMMEND POTA [H] COMMENCE RETUR [I] OTHER	TION AS: ASSIUM IODIDE (KI) P RN OF PUBLIC	PER PROCEDUR	ES	
10. ADDITIONAL INFOR				
11. TRANSMITTED BY:	NAME	PHONE NUM	<u>IBER</u>	TIME/DATE
[A] EXELUTY: [B] STATE: [C] COUNTY:				
12. RECEIVED BY:	NAME	ORGANIZAT	ION	TIME/DATE
Approved By: Verified With:	NAME		ORGAN	IIZATION

ANSWER KEY

EP-MW-114-100 Revision 3 Page 12 of 16

ATTACHMENT 1 NUCLEAR ACCIDENT REPORTING SYSTEM (NARS) Page 1 of 2

UTILITY MESSAGE	NO. <u>1</u>	S	TATE MESSA	GE NON/A	<u>\</u>
1. <u>STATUS</u> [A] ACTUAL [X] DRILL/EXERCISE	2. <u>Station</u> [A] Braidwood [B] Byron	[X] CLINTON [D] DRESDEN	[E] LASALLE [F] QUAD CIT	[G] ZION ES	
3. <u>ONSITE CONDITION</u> [A] UNUSUAL EVENT [B] ALERT [C] SITE AREA EMERGI [X] GENERAL EMERGE [E] RECOVERY [F] TERMINATED	4. <u>Accide</u> Time (3[A- Date(3]A- Ency Eal#: <u>Fo</u> Ncy	ENT CLASSIFIED E]): XX:XX E]): XX / XX / XX E]): XX / XX / XX	ACCIDE TIME: DATE:	ENT TERMINATED N/A N/A	
5. <u>RELEASE STATUS</u> [X] NONE [B] OCCURRING [C] TERMINATED	6. <u>TYPE OF REL</u> → [X] NOT APPLIC → [B] GASEOUS → [C] LIQUID	EASE 7. WIN CABLE <u>280</u> (DEGRE	D DIR 0-284 ES FROM)	8. <u>WIND SPEED</u> [A] METERS/SEC.: <u></u> [B] MILES/HR.:	<u>N/A</u> 10
9. <u>RECOMMENDED AC</u>	TIONS				
UTILITY RECOMME [A] NONE (UE, Alert and [B] EVACUATE ILLINOIS [C] EVACUATE IOWA S	NDATION SAE Only) SSUB-AREAS (GE UB-AREAS (GE On	Only): 1, 3, 4 ly):			
STATE RECOMMENDA [D] NONE [E] SHELTER SUB-ARE [F] EVACUATE SUB-AR [G] RECOMMEND POTA [H] COMMENCE RETUR [I] OTHER	TION AS: EAS: ASSIUM IODIDE (KI RN OF PUBLIC) PER PROCEDUF	RES		
10. ADDITIONAL INFOR	RMATION Nor	ie			
11. TRANSMITTED BY: [A] EXELON: [B] STATE: [C] COUNTY:	NAME	PHONE NUM	MBER	TIME/DATE	
12. RECEIVED BY:	NAME	ORGANIZAT	<u>FION</u>	TIME/DATE	
Approved By: Verified With:	NAI	ME	ORGA	NIZATION	<u> </u>