

Job Performance Measure  
**Perform CPS 9000.05 Suppression Pool Temperature Log**

JPM Number: JPM477

Revision Number: 00

Date: 10/03/18

Developed By: Tony Jennings 10/03/18  
Instructor Date

Validated By: Aaron Marr 4/30/19  
SME or Instructor Date

Reviewed By: Pat Bulpitt 6/3/19  
Operations Representative Date

Approved By: Tony Jennings 6/3/19  
Training Department 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 9 and 13 below.

- \_\_\_\_\_ 1. Task description and number, JPM description and number are identified.
- \_\_\_\_\_ 2. Knowledge and Abilities (K/A) references are included.
- \_\_\_\_\_ 3. Performance location specified. (in-plant, control room, simulator, or other)
- \_\_\_\_\_ 4. Initial setup conditions are identified.
- \_\_\_\_\_ 5. Initiating cue (and terminating cue if required) are properly identified.
- \_\_\_\_\_ 6. Task standards identified and verified by SME review.
- \_\_\_\_\_ 7. Critical steps meet the criteria for critical steps and are identified with an asterisk (\*).
- \_\_\_\_\_ 8. If an alternate path is used, the task standard contains criteria for successful completion.
- \_\_\_\_\_ 9. Verify the procedure(s) referenced by this JPM reflects the current revision:  
 Procedure 9000.05 Rev: 27a  
 Procedure 9000.05D001 Rev: 27a  
 Procedure 9000.05D002 Rev: 26
- \_\_\_\_\_ 10. Verify cues both verbal and visual are free of conflict.
- \_\_\_\_\_ 11. Verify performance time is accurate
- \_\_\_\_\_ 12. If the JPM cannot be performed as written with proper responses, then revise the JPM.
- \_\_\_\_\_ 13. When JPM is initially validated, sign and date JPM cover page. Subsequent validations, sign and date below:

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

**Revision Record (Summary)**

Revision	Date	Description
00	10/03/18	This is a new RO Administrative JPM.

### **SIMULATOR SETUP INSTRUCTIONS**

1. This is an RO admin JPM, no simulator setup is required.

### INITIAL CONDITIONS

Rx power is 95%.

Suppression Pool level is 19.3 feet and stable.

The shift is currently performing CPS 9054.01C002 RCIC (1E51-C001) High Pressure Operability Checks.

You are an Extra Reactor Operator (RO).

### INITIATING CUE

You have been directed by the Senior Reactor Operator (SRO) to start CPS 9000.05 Suppression Pool Temperature Log.

Fill in the JPM Start Time when the student acknowledges the Initiating Cue.

.....

#### Information For Evaluator's Use:

**Task Standard:** The examinee will record Suppression Pool temperature on the correct data sheet (D001), and select the correct recording interval ( $\leq 5$  minutes) to satisfactorily complete this JPM.

UNSAT requires written comments on respective step.

\* Denotes critical steps.

Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section. The comment section should be used to document: the reason that a step is marked as unsatisfactory, marginal performance relating to management expectations, or problems the examinee had while performing the JPM. Comments relating to procedural or equipment issues should be entered and tracked using the site's appropriate tracking system.

Some operations that are performed from outside of the control room may require multiple steps. These items may be listed as individual steps in this JPM. It is acceptable for the candidate to direct the local operator to perform groups of procedure steps instead of calling for each individual item to be performed.

The timeclock starts when the candidate acknowledges the initiating cue.

.....

JPM Start Time: \_\_\_\_\_

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
Cue	Provide the examinee with the <b>Cue Sheet</b> and the following: <ul style="list-style-type: none"> <li>• CPS 9000.05 Suppression Pool Temperature Log</li> <li>• CPS 9000.05D001 Suppression Pool Temperature Log Data Sheet</li> <li>• CPS 9000.05D002 Accident Monitoring Suppression Pool Temperature Log Data Sheet</li> <li>• Attachment 2 – Suppression Pool Temperature Recorder 1TR-CM017</li> <li>• Attachment 3 – Suppression Pool Temperature Recorder 1TR-CM018</li> <li>• Attachment 4 – Suppression Pool Temperature Recorders 1TR-CM334/CM335</li> <li>• Calculator</li> </ul> Examiner's Note – Attachment 1 SP Temp Log Data Sheet Key should be referenced during this JPM.				
*1	Completes prerequisites.	<b>D001 5.1-5.3</b> <ul style="list-style-type: none"> <li>• <b>Examinee completes D001 per the key.</b></li> </ul> <i>Examiner's Note – Critical part of this step is the selection of the data sheet (D001) <u>and</u> selection of the correct recording interval (≤5 minutes).</i> <i>Examiner's Note – Prerequisite steps may be performed in any order.</i>	_____	_____	_____
*2	Records time and temperatures.	<b>D001 8.1</b> <b>Examinee records data:</b> <ul style="list-style-type: none"> <li>• Time readings taken</li> <li>• 1TR-CM017, points 1 through 8</li> <li>• 1TR-CM018, points 1 through 8 <u>or</u> 1TR-CM018, point 9</li> </ul> <i>Examiner's Note – Recording data to the nearest tenth is satisfactory.</i> <i>Examiner's Cue – If asked cue the examinee all points on 1TR-CM018 are operable.</i>	_____	_____	_____

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
<b>*3</b>	Calculates average suppression pool temperature	<b>D001 8.1.4</b> <ul style="list-style-type: none"> <li>Examinee records <b>92.2°F</b>.</li> </ul> <i>Evaluator's Note – Required because 1TR-CM017 point 1 is &gt;95°F.</i>	—	—	—
<b>4</b>	Calculates time average suppression pool temperature is >95°F.	<b>D001 8.2</b> <ul style="list-style-type: none"> <li>Examinee records “N/A” in 8.2.1 and 8.2.2.</li> </ul>	—	—	—
<b>*5</b>	Verifies average suppression pool temperature is within the appropriate ITS limit listed in 5.3.	<b>D001 8.3</b> <ul style="list-style-type: none"> <li>Examinee records “Y” and initials.</li> </ul>	—	—	—
<b>CUE</b>	Cue the examinee that the JPM is complete.				

JPM Stop Time: \_\_\_\_\_  
 .....

**JPM SUMMARY****Operator's Name:** \_\_\_\_\_ **Emp. ID#:** \_\_\_\_\_**Job Title:** ☐ EO ☐ RO ☐ SRO ☐ FS ☐ STA/IA ☐ SRO CertJPM Title: Perform CPS 9000.05 Suppression Pool Temperature LogJPM Number: JPM477 Revision Number: 00Task Number and Title: 900005.01, Suppression Pool Temperature Log.

K/A Number and Importance:

K/A System	K/A Number	Importance (RO/SRO)	
Generic	2.1.18	3.6	3.8

Suggested Testing Environment: ClassroomAlternate Path: ☐ Yes ☒ No SRO Only: ☐ Yes ☒ No Time Critical: ☐ Yes ☒ No

Reference(s):

- CPS 9000.05 Suppression Pool Temperature Log, Rev. 27a
- CPS 9000.05D001 Suppression Pool Temperature Log Data Sheet, Rev. 27a
- CPS 9000.05D002 Accident Monitoring Suppression Pool Temperature Log Data Sheet, Rev. 26

**Actual Testing Environment:** ☐ Simulator ☐ Control Room ☐ In-Plant ☒ Other**Testing Method:** ☐ Simulate ☒ PerformEstimated Time to Complete: 15 minutes**Actual Time Used:** \_\_\_\_\_ minutes**EVALUATION SUMMARY:**Were all the Critical Elements performed satisfactorily? ☐ Yes ☐ NoThe operator's performance was evaluated against standards contained within this JPM and has been determined to be: ☐ Satisfactory ☐ Unsatisfactory**Comments:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_**Evaluator's Name (Print):** \_\_\_\_\_**Evaluator's Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_



### Attachment 1 – Suppression Pool Temperature Log Data Sheet KEY

#### SUPPRESSION POOL TEMPERATURE LOG DATA SHEET

Initial

5.1 ☐ Pg N/A Continued from Pg N/A. Date/Time: N/A / N/A  
☒ SMngt informed of log start. Date/Time: XX/XX/XXXX/ XX:XX

N/A  
**Init**

5.2 Data sheet applicability verification

☒ Suppression Pool level  $\geq$  18'6": OK - use D001.  
☐ Suppression Pool level  $<$  18'6": **STOP** - use D002.

**Init**  
N/A

5.3 Log Interval/Limit Determination [Reflects 9.1 Operability values]

	Reason for Log	Recording Interval	Temp Limit	Initial
<input checked="" type="checkbox"/>	During testing which adds heat to the Suppression Pool.	$\leq$ 5 minutes	$\leq$ 103.7°F	<b>Init</b>
<input type="checkbox"/>	When Suppression Pool temperature is $>$ 95°F.	$\leq$ 1 hour	$\leq$ 108.7°F	<u>N/A</u>
<input type="checkbox"/>	Following placement of the Mode Switch in shutdown position with suppression pool average water temperature $>$ 108.7°F.	$\leq$ 30 minutes	$\leq$ 118.7°F	<u>N/A</u>

8.1 Recorder Values

1.	Time	<u>XX:XX</u>									
2.	1TR-CM017										
	Point 1	<u>95.36</u>									
	Point 2	<u>95.28</u>									
	Point 3	<u>91.78</u>									
	Point 4	<u>90.87</u>									
	Point 5	<u>90.57</u>									
	Point 6	<u>90.87</u>									
	Point 7	<u>91.78</u>									
	Point 8	<u>95.28</u>									
3.	1TR-CM018										
	Point 1	<u>94.3</u>									
	Point 2	<u>92.5</u>									
	Point 3	<u>91.3</u>									
	Point 4	<u>90.6</u>									
	Point 5	<u>90.6</u>									
	Point 6	<u>91.3</u>									
	Point 7	<u>92.5</u>									
	Point 8	<u>94.3</u>									
①	Averaging Display	<u>92.2</u>									
4.	High or Avg Temp	<u>92.2</u>									

**Either method is acceptable.**

8.2 Average Temperature [N/A if 8.1.4 is  $\leq$  95°]

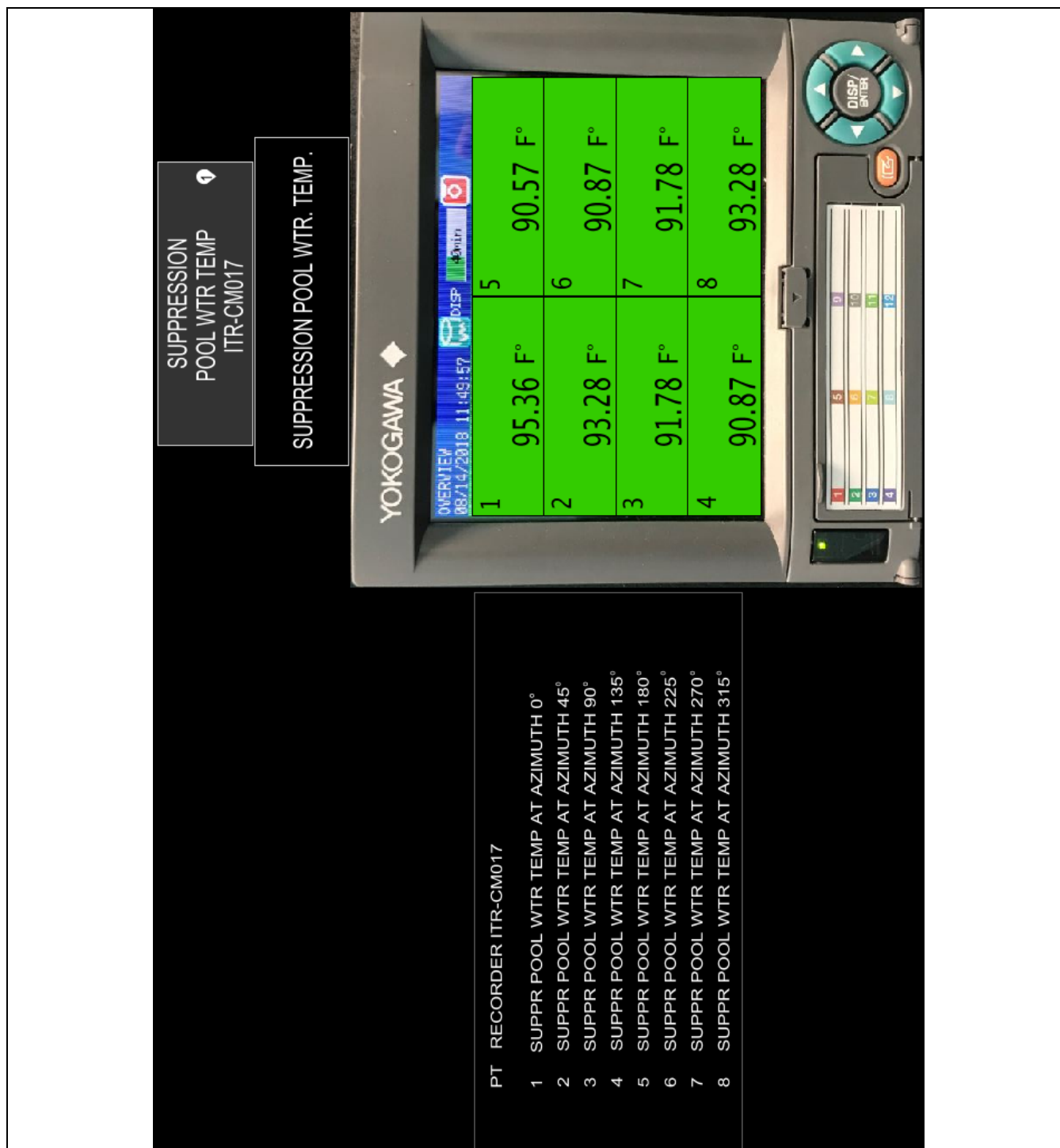
1.	Time Avg Temp $>$ 95°	<u>N/A</u>									
2.	Rx Pwr %	<u>N/A</u>									

8.3 ITS Temperature Limit Verification [If 'No', refer to ITS LCO 3.6.2.1.]

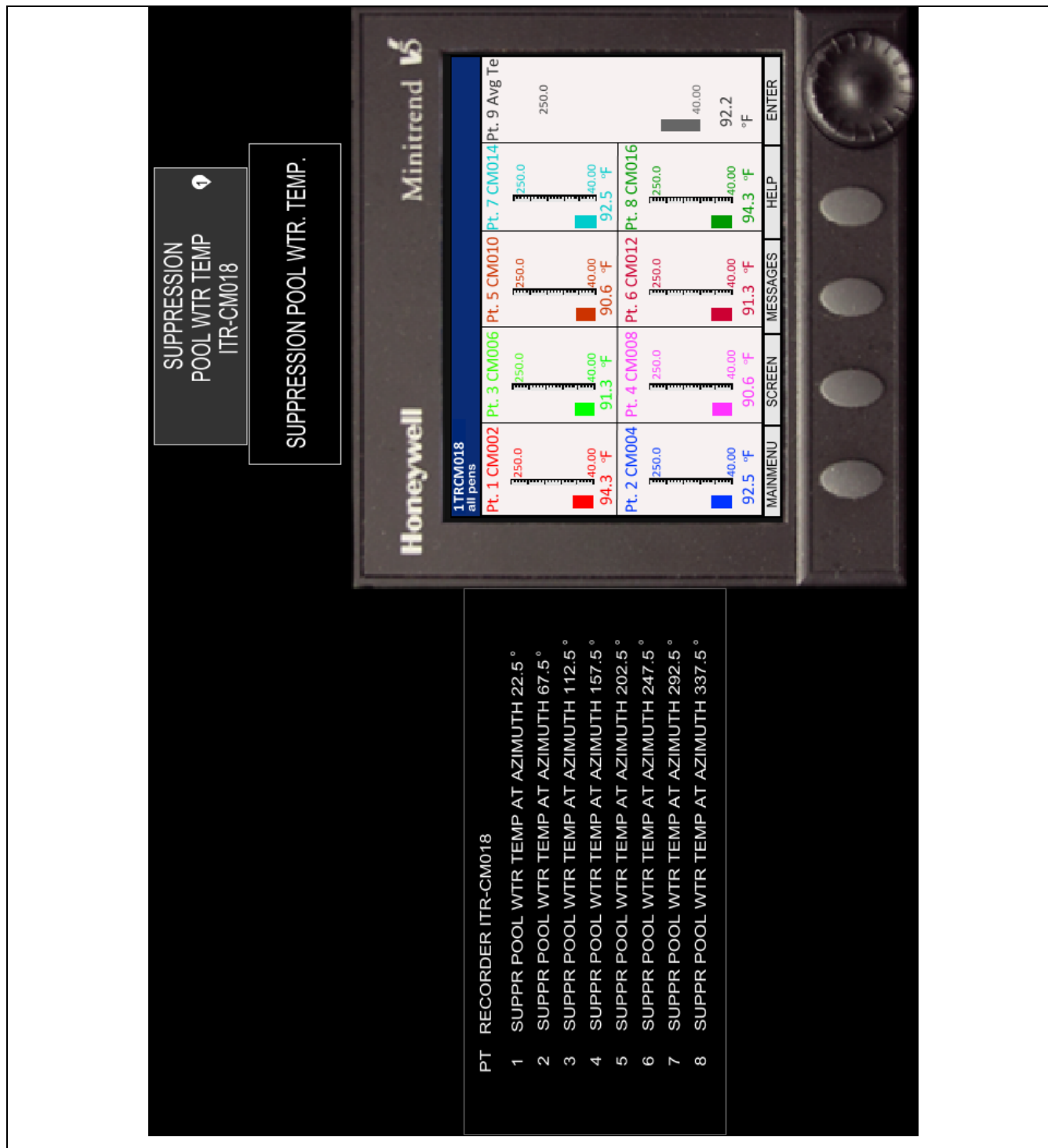
Temp within 5.3 limits? Y or N / Init.	<u>Y / Init</u>	<u>  /  </u>	<u>  /  </u>	<u>  /  </u>	<u>  /  </u>	<u>  /  </u>	<u>  /  </u>	<u>  /  </u>	<u>  /  </u>	<u>  /  </u>
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8.5 ☐ Continued on next sheet: Page \_\_\_\_\_  
☐ SMngt notified of completion. Date: \_\_\_\_\_ Time: \_\_\_\_\_

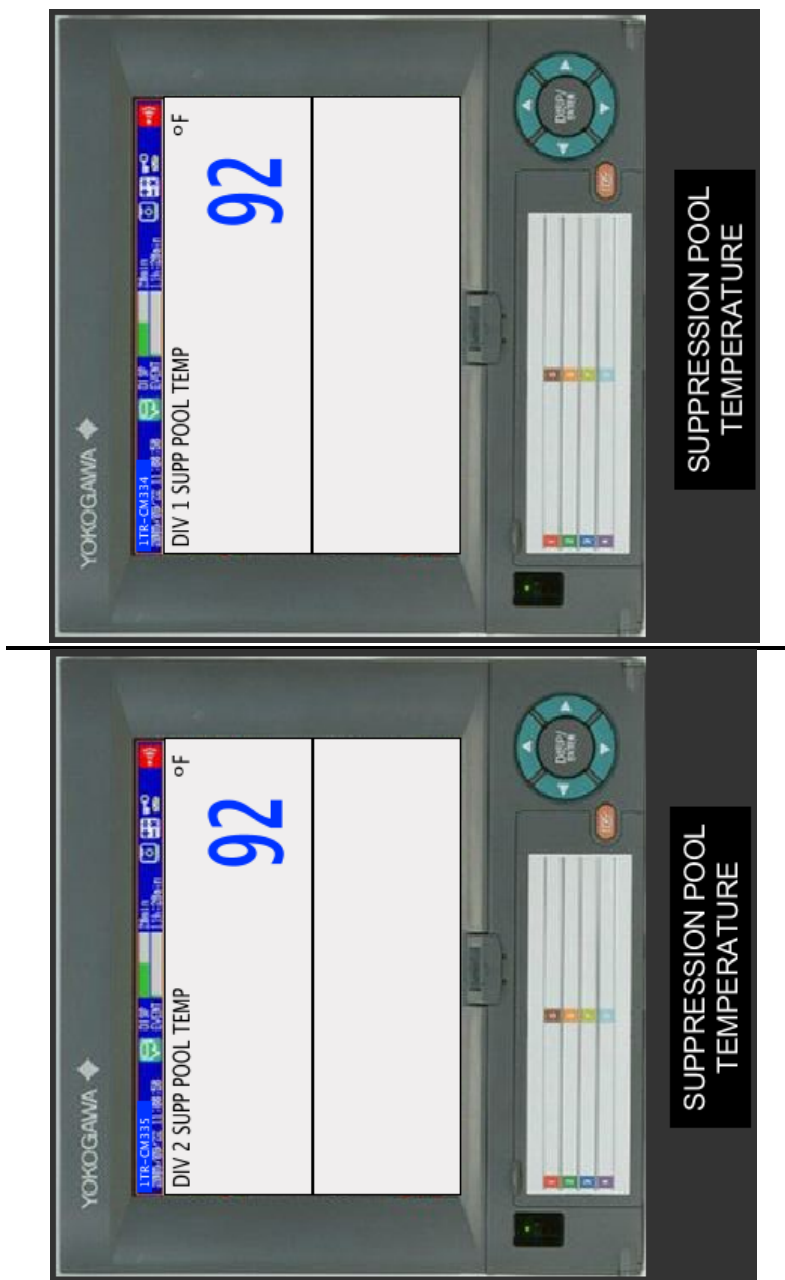
**Attachment 2 – Suppression Pool Temperature Recorder 1TR-CM017**



### Attachment 3 – Suppression Pool Temperature Recorder 1TR-CM018



**Attachment 4 – Suppression Pool Temperature Recorders 1TR-CM334/CM335**



### **INITIAL CONDITIONS**

Rx power is 95%.

Suppression Pool level is 19.3 feet and stable.

The shift is currently performing CPS 9054.01C002 RCIC (1E51-C001) High Pressure Operability Checks.

You are an Extra Reactor Operator (RO).

### **INITIATING CUE**

You have been directed by the Senior Reactor Operator (SRO) to start CPS 9000.05 Suppression Pool Temperature Log.

**Job Performance Measure**  
**Evaluate License Maintenance Requirements**

JPM Number: JPM484

Revision Number: 01

Date: 10/02/18

Developed By: Tony Jennings 10/02/18  
Instructor Date

Validated By: Tim Windingland 4/30/19  
SME or Instructor Date

Reviewed By: Pat Bulpitt 6/3/19  
Operations Representative Date

Approved By: Tony Jennings 6/3/19  
Training Department Date

## JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

**NOTE:** All steps of this checklist should be performed upon initial validation.  
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- \_\_\_\_\_ 1. Task description and number, JPM description and number are identified.
- \_\_\_\_\_ 2. Knowledge and Abilities (K/A) references are included.
- \_\_\_\_\_ 3. Performance location specified. (in-plant, control room, simulator, or other)
- \_\_\_\_\_ 4. Initial setup conditions are identified.
- \_\_\_\_\_ 5. Initiating cue (and terminating cue if required) are properly identified.
- \_\_\_\_\_ 6. Task standards identified and verified by SME review.
- \_\_\_\_\_ 7. Critical steps meet the criteria for critical steps and are identified with an asterisk (\*).
- \_\_\_\_\_ 8. If an alternate path is used, the task standard contains criteria for successful completion.
- \_\_\_\_\_ 9. Verify the procedure(s) referenced by this JPM reflects the current revision:  
Procedure OP-AA-105-102 Rev: 14  
Procedure \_\_\_\_\_ Rev: \_\_\_\_\_  
Procedure \_\_\_\_\_ Rev: \_\_\_\_\_
- \_\_\_\_\_ 10. Verify cues both verbal and visual are free of conflict.
- \_\_\_\_\_ 11. Verify performance time is accurate
- \_\_\_\_\_ 12. If the JPM cannot be performed as written with proper responses, then revise the JPM.
- \_\_\_\_\_ 13. When JPM is initially validated, sign and date JPM cover page. Subsequent validations, sign and date below:

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

**Revision Record (Summary)**

Revision	Date	Description
00	8/25/16	New JPM.
01	10/02/18	Update JPM format and procedure revisions.



### **SIMULATOR SETUP INSTRUCTIONS**

1. This is an RO admin JPM, no simulator setup is required.

### **INITIAL CONDITIONS**

You are a Reactor Operator with an active NRC license.

Today is 6/23/19.

You are currently assigned to relieve the “A” RO on 7/2/19.

**During the current quarter (2<sup>nd</sup> quarter of 2019) you worked a mixed shift schedule consisting of the following:**

- Three complete 12-hour day shift watches as the “A” RO on April 12<sup>th</sup>, 13<sup>th</sup>, and 14<sup>th</sup>.
- Two 8-hour swing shift watches as the “B” RO on April 23<sup>rd</sup> and 24<sup>th</sup>.
- Split 8-hour day shifts working 4 hours as the “B” RO and the remaining 4 hours as a clearance writer on April 1<sup>st</sup>, 2<sup>nd</sup>, 8<sup>th</sup>, 9<sup>th</sup>, 15<sup>th</sup>, 16<sup>th</sup>, 22<sup>nd</sup>, 27<sup>th</sup>, 29<sup>th</sup>, and 30<sup>th</sup>.
- Split 12-hour midnight shifts, working six hours as the “A” RO and the other six hours as a clearance writer during the outage on May 10<sup>th</sup> and 11<sup>th</sup>.
- The remaining days in the 2<sup>nd</sup> quarter of 2019 were spent as a clearance writer (Monday through Friday).

All shifts covered were entered in the Narrative log.

### **INITIATING CUE**

You are to document your shift coverage for the 2<sup>nd</sup> quarter of 2019 on OP-AA-105-102 Attachment 1 Active License Tracking Log, and determine your ability to assume shift for 7/2/19.

Fill in the JPM Start Time when the student acknowledges the Initiating Cue.

.....

**Information For Evaluator's Use:**

**Task Standard:** The examinee will record the appropriate watch data on OP-AA-105-102 Attachment 1, and then determine the number of watches needed to maintain their license in an active status past 6/30/19 to successfully complete the JPM.

UNSAT requires written comments on respective step.

\* Denotes critical steps.

Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section. The comment section should be used to document: the reason that a step is marked as unsatisfactory, marginal performance relating to management expectations, or problems the examinee had while performing the JPM. Comments relating to procedural or equipment issues should be entered and tracked using the site's appropriate tracking system.

Some operations that are performed from outside of the control room may require multiple steps. These items may be listed as individual steps in this JPM. It is acceptable for the candidate to direct the local operator to perform groups of procedure steps instead of calling for each individual item to be performed.

The timeclock starts when the candidate acknowledges the initiating cue.

.....

JPM Start Time: \_\_\_\_\_

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
Cue	Provide the examinee with the <b>Cue Sheet</b> and copies of the following: <ul style="list-style-type: none"> <li>OP-AA-105-102 NRC Active License Maintenance</li> <li>OP-AA-105-102 Attachment 1 Active License Tracking Log (blank)</li> </ul>				
<b>*1</b>	Records shift coverage from 2 <sup>nd</sup> quarter of 2019.	<b>OP-AA-105-102 Attachment 1</b> <b>Examinee completes Attachment 1 for each valid watch stood per the key.</b>	—	—	—
<b>*2</b>	Reviews requirements to maintain an active license.	<b>OP-AA-105-102</b> <b>Examinee determines that he/she does NOT have the minimum number of hours required to maintain their license in an active status past 6/30/19.</b>	—	—	—
Cue	Question 1 - Ask the candidate if he/she can stand watch on 7/2/19. Question 2 (if necessary) – “What must you do (as a minimum) to stand watch on 7/2/19”?				

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
<b>*3</b>	Determines the requirements to maintain their license active past 6/30/19.	<b>OP-AA-105-102</b> <b>Option 1 (12 hour shifts recorded on 4/12 – 4/14/19):</b> <ul style="list-style-type: none"> <li>Examinee determines that a <u>minimum of one</u> more complete eight hour <u>or</u> twelve hour watch is needed to maintain their license active past 6/30/19.</li> </ul> <b>Option 2 (8 hour shifts recorded on 4/12 – 4/14/19):</b> <ul style="list-style-type: none"> <li>Examinee determines that a <u>minimum of two</u> more complete eight hour watches are needed to maintain their license active past 6/30/19.</li> </ul>	—	—	—
CUE	Cue the examinee that the JPM is complete.				

JPM Stop Time: \_\_\_\_\_  
.....

**JPM SUMMARY****Operator's Name:** \_\_\_\_\_ **Emp. ID#:** \_\_\_\_\_**Job Title:** ☐ EO ☐ RO ☐ SRO ☐ FS ☐ STA/IA ☐ SRO Cert**JPM Title:** Evaluate License Maintenance Requirements**JPM Number:** JPM484**Revision Number:** 01**Task Number and Title:** LP85801.2.1.4 Knowledge of individual licensed operator responsibilities related to shift staffing, such as medical requirements, "no solo" operation, maintenance of active license status, 10CFR55, etc.**K/A Number and Importance:**

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

**Suggested Testing Environment:** Classroom**Alternate Path:** ☐ Yes ☒ No **SRO Only:** ☐ Yes ☒ No **Time Critical:** ☐ Yes ☒ No**Reference(s):**

- OP-AA-105-102 NRC ACTIVE LICENSE MAINTENANCE Rev. 14

**Actual Testing Environment:** ☐ Simulator ☐ Control Room ☐ In-Plant ☒ Other**Testing Method:** ☐ Simulate ☒ Perform**Estimated Time to Complete:** 15 minutes**Actual Time Used:** \_\_\_\_\_ minutes**EVALUATION SUMMARY:**Were all the Critical Elements performed satisfactorily? ☐ Yes ☐ NoThe operator's performance was evaluated against standards contained within this JPM and has been determined to be: ☐ Satisfactory ☐ Unsatisfactory**Comments:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_**Evaluator's Name (Print):** \_\_\_\_\_**Evaluator's Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

### Attachment 1 – OP-AA-105-102 Attachment 1 KEY

#### Attachment 1 Active License Tracking Log Page 1 of 1

Employee Number: 012345 (example)

SHIFT COVERAGE FOR THE 2nd (1<sup>ST</sup>, 2<sup>ND</sup>, 3<sup>RD</sup>, 4<sup>TH</sup>) CALENDAR QUARTER OF 2019 (YEAR)

Examinee's Name
ACTIVE INACTIVE

Name of License Holder  
(Print)

License Status At Start of  
Quarter (Circle one)

#### RECORD OF 8 /12 HOUR SHIFTS WORKED DURING QUARTER

Enter the date the shift ended, the shift, the shift length, the Unit, position covered, circle Y or N for logged in the SM log and signature. If working an 8 hour or 8 / 12 hour shift, enter a "1" for midnight shift, "2" for the day shift, or a "3" for the afternoon shift (only enter shifts at least 8 hours in length for which turnovers were conducted). Seven shifts at least 8 hours in length are required per quarter. If working a straight 12 hour shift, enter a "N" for night shift or a "D" for day shift (only enter shifts at least 12 hours in length for which turnovers were conducted). Five 12 hour shifts are required per quarter. The quarterly shift watch requirement may be completed with a combination of complete 8 and 12 hour shifts (in a position required by the plant's Technical Specifications) (enter appropriate shift designator), and watches shall not be truncated when the minimum quarterly requirement (56 hours) is satisfied. (NUREG 1021, Revision 10)

	DATE	SHIFT	LENGTH	UNIT	POSITION (circle one)			SM LOG	SIGNATURE OF LICENSE HOLDER
ONE	4/12/19	D (or L)	12 (or 8)	1	FHS	SM	US	Logged Y/N	Examinee Signature
TWO	4/13/19	D (or L)	12 (or 8)	1	FHS	SM	US	Logged Y/N	Examinee Signature
THREE	4/14/19	D (or L)	12 (or 8)	1	FHS	SM	US	Logged Y/N	Examinee Signature
FOUR	4/23/19	3	8	1	FHS	SM	US	Logged Y/N	Examinee Signature
FIVE	4/24/19	3	8	1	FHS	SM	US	Logged Y/N	Examinee Signature
SIX*					FHS	SM	US	Logged Y/N	
SEVEN*					FHS	SM	US	Logged Y/N	

The 6<sup>th</sup> and 7<sup>th</sup> shifts are not required if a straight 12 hour schedule is being worked.

SM= Shift Manager  
US= Unit Supervisor  
RO= Unit RO or Assistant RO  
FHS= SRO (for fuel handling only)  
Logged- Verified in SM log for correct  
Position (If no, provide additional  
Documentation to verify)

\_\_\_\_\_  
Operations Support Manager / Date

SRRS:3D.106

SRRS: 3D.105 (when utilized for operator initial or continuing training)

## **INITIAL CONDITIONS**

You are a Reactor Operator with an active NRC license.

Today is 6/23/19.

You are currently assigned to relieve the “A” RO on 7/2/19.

**During the current quarter (2<sup>nd</sup> quarter of 2019) you worked a mixed shift schedule consisting of the following:**

- Three complete 12-hour day shift watches as the “A” RO on April 12<sup>th</sup>, 13<sup>th</sup>, and 14<sup>th</sup>.
- Two 8-hour swing shift watches as the “B” RO on April 23<sup>rd</sup> and 24<sup>th</sup>.
- Split 8-hour day shifts working 4 hours as the “B” RO and the remaining 4 hours as a clearance writer on April 1<sup>st</sup>, 2<sup>nd</sup>, 8<sup>th</sup>, 9<sup>th</sup>, 15<sup>th</sup>, 16<sup>th</sup>, 22<sup>nd</sup>, 27<sup>th</sup>, 29<sup>th</sup>, and 30<sup>th</sup>.
- Split 12-hour midnight shifts, working six hours as the “A” RO and the other six hours as a clearance writer during the outage on May 10<sup>th</sup> and 11<sup>th</sup>.
- The remaining days in the 2<sup>nd</sup> quarter of 2019 were spent as a clearance writer (Monday through Friday).

All shifts covered were entered in the Narrative log.

## **INITIATING CUE**

You are to document your shift coverage for the 2<sup>nd</sup> quarter of 2019 on OP-AA-105-102 Attachment 1 Active License Tracking Log, and determine your ability to assume shift for 7/2/19.



**Job Performance Measure**  
**Print Reading**

JPM Number: JPM233

Revision Number: 01

Date: 10/31/18

Developed By: Bill Kiser 10/31/18  
Instructor Date

Validated By: Tim Windingland 4/30/19  
SME or Instructor Date

Reviewed By: Pat Bulpitt 6/3/19  
Operations Representative Date

Approved By: Tony Jennings 6/3/19  
Training Department Date

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- \_\_\_\_\_ 9. Verify the procedure(s) referenced by this JPM reflects the current revision:  
Procedure E02-1CW99-001 Rev: AC  
Procedure E02-1CW99-011 Rev: T  
Procedure \_\_\_\_\_ Rev: \_\_\_\_\_
- \_\_\_\_\_ 10. Verify cues both verbal and visual are free of conflict.
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_____ SME / Instructor	_____ Date
_____ SME / Instructor	_____ Date
_____ SME / Instructor	_____ Date

**Revision Record (Summary)**

Revision	Date	Description
00	7/22/08	New JPM.
01	10/31/18	Updated to new JPM template.

### **SIMULATOR SETUP INSTRUCTIONS**

1. This is an RO admin JPM, no simulator setup is required.
2. Administer this JPM in a location that allows access to reference prints – hard copy or Electronic Document Management System (EDMS).

### INITIAL CONDITIONS

A plant startup was in progress when the “A” Circulating Water (CW) normal tripping power was lost. The “A” CW Pump tripped from an alternate tripping circuit. Electrical Maintenance suspects the loss of normal tripping power was due to a blown fuse.

### INITIATING CUE

Using the applicable electrical prints, determine:

1. the normal tripping power fuse size (amperage) and
2. the electrical bus(es) that supply the A CW Pump alternate tripping circuit.

Prove your results using the electrical prints.

Fill in the JPM Start Time when the student acknowledges the Initiating Cue.

.....

#### Information For Evaluator’s Use:

**Task Standard:** The examinee will use the electrical prints to determine the following for CW Pump 1A (1CW01PA):

- normal tripping power fuse size is 35A (Amps), and
- alternate tripping circuit is powered from CB MCC C (0AP22E)

UNSAT requires written comments on respective step.

\* Denotes critical steps.

Number any comments in the “Comment Number” column on the following pages. Then annotate that comment in the “Comments” section. The comment section should be used to document: the reason that a step is marked as unsatisfactory, marginal performance relating to management expectations, or problems the examinee had while performing the JPM. Comments relating to procedural or equipment issues should be entered and tracked using the site’s appropriate tracking system.

Some operations that are performed from outside of the control room may require multiple steps. These items may be listed as individual steps in this JPM. It is acceptable for the candidate to direct the local operator to perform groups of procedure steps instead of calling for each individual item to be performed.

The timeclock starts when the candidate acknowledges the initiating cue.

.....

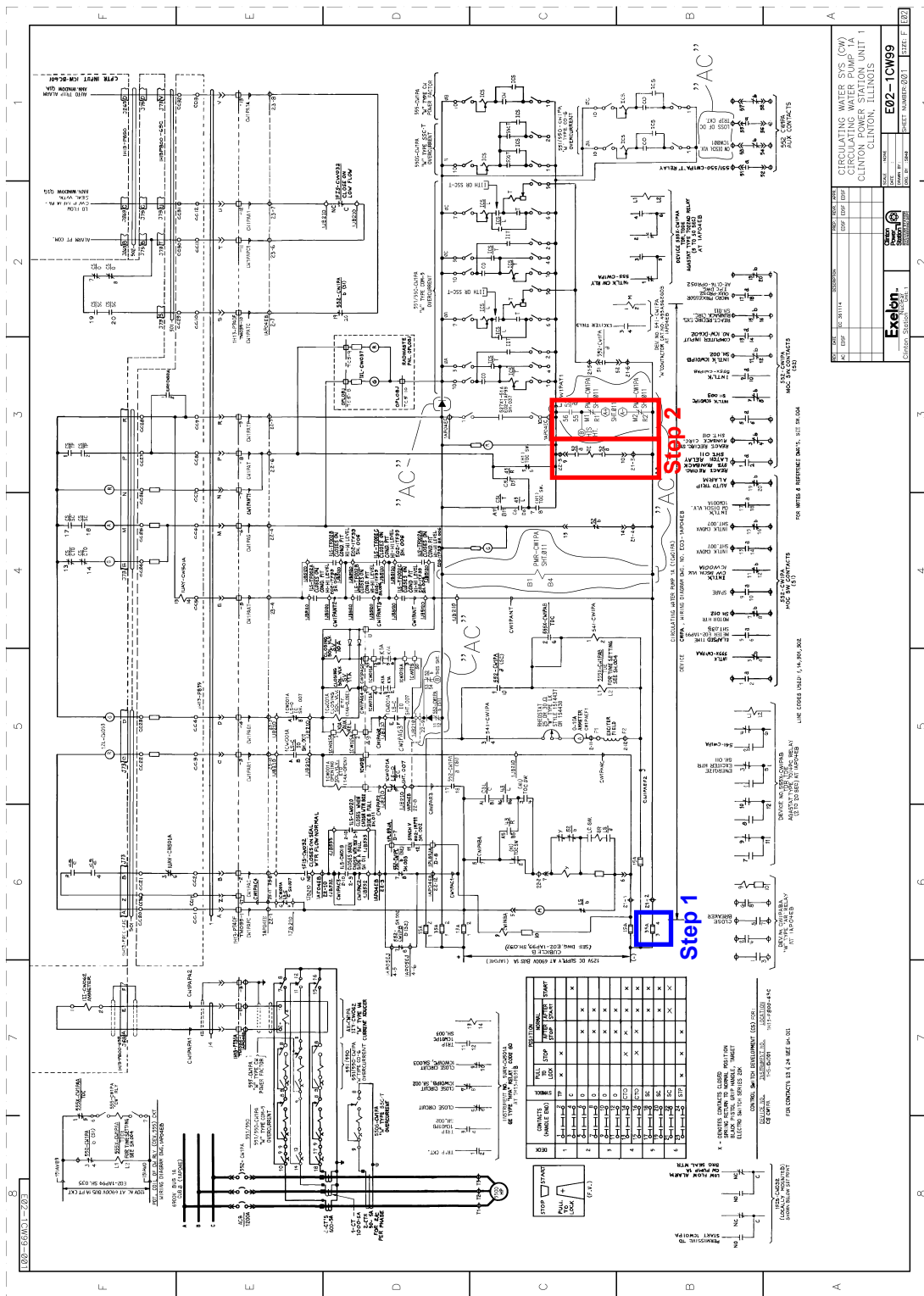
JPM Start Time: \_\_\_\_\_

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
Note	Steps may be performed in any order.				
*1	Candidate references E02-1CW99 Sheet 001.	<b>E02-1CW99 Sheet 001</b> <b>Determines the normal tripping power fuse size is 35A (Amps).</b> <i>Evaluator Note – The 35 A fuse at B-6 is tied to the bottom of the trip coil (TC) at B-3 (See Attachment 1).</i>	_____	_____	_____
2	Candidate references E02-1CW99 Sheet 001.	E02-1CW99 Sheet 001 Determines the alternate tripping circuit is on E02-1CW99 Sheet 011. <i>Evaluator Note – At B-3, the circuit leg directly to the right and in parallel with the trip coil (TC) has inputs A+ and A- with “SHT 011” in between (See Attachment 1).</i>	_____	_____	_____
*3	Candidate references E02-1CW99 Sheet 011.	<b>E02-1CW99 Sheet 011</b> <b>Determines CB MCC C (0AP22E) supplies the alternate tripping circuit.</b> <i>Evaluator Note – The Alt Tripping Power Supply PS-CW1PA (F-4) is supplied by 120V AC CB MCC C (OAP22E) CKT #19 (See Attachment 2).</i>	_____	_____	_____
CUE	Cue the examinee that the JPM is complete.				

JPM Stop Time: \_\_\_\_\_

.....

Attachment 1 – E02-1CW99 Sheet 001



[illegible]



**JPM SUMMARY****Operator's Name:** \_\_\_\_\_ **Emp. ID#:** \_\_\_\_\_**Job Title:** ☐ EO ☐ RO ☐ SRO ☐ FS ☐ STA/IA ☐ SRO Cert**JPM Title:** Print Reading**JPM Number:** JPM233**Revision Number:** 01**Task Number and Title:** (0.13L) Read Mechanical and Electrical Prints.**K/A Number and Importance:**

K/A System	K/A Number	Importance (RO/SRO)	
Generic	2.2.41	3.5	3.9

**Suggested Testing Environment:** Simulator/Classroom**Alternate Path:** ☐ Yes ☒ No **SRO Only:** ☐ Yes ☒ No **Time Critical:** ☐ Yes ☒ No**Reference(s):**

- E02-1CW99-001 CIRCULATING WATER SYS (CW) CIRCULATING WATER PUMP 1A, Rev. AC
- E02-1CW99-011 CIRCULATING WATER SYS (CW) REACTOR RECIRC. RUNBACK INITIATION & LATCHING RELAY, Rev. T

**Actual Testing Environment:** ☐ Simulator ☐ Control Room ☐ In-Plant ☐ Other**Testing Method:** ☐ Simulate ☒ Perform**Estimated Time to Complete:** 15 minutes**Actual Time Used:** \_\_\_\_\_ minutes**EVALUATION SUMMARY:**Were all the Critical Elements performed satisfactorily? ☐ Yes ☐ NoThe operator's performance was evaluated against standards contained within this JPM and has been determined to be: ☐ Satisfactory ☐ Unsatisfactory**Comments:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_**Evaluator's Name (Print):** \_\_\_\_\_**Evaluator's Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

### **INITIAL CONDITIONS**

A plant startup was in progress when the “A” Circulating Water (CW) normal tripping power was lost. The “A” CW Pump tripped from an alternate tripping circuit. Electrical Maintenance suspects the loss of normal tripping power was due to a blown fuse.

### **INITIATING CUE**

Using the applicable electrical prints, determine:

1. the normal tripping power fuse size (amperage) and
2. the electrical bus(es) that supply the A CW Pump alternate tripping circuit.

Prove your results using the electrical prints.

**Job Performance Measure**  
**Perform a High Radiation Area Entry**

JPM Number: JPM478

Revision Number: 00

Date: 10/31/18

Developed By: Tony Jennings 10/31/18  
Instructor Date

Validated By: Tim Windingland 4/30/19  
SME or Instructor Date

Reviewed By: Pat Bulpitt 6/3/19  
Operations Representative Date

Approved By: Tony Jennings 6/3/19  
Training Department 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 9 and 13 below.

- \_\_\_\_\_ 1. Task description and number, JPM description and number are identified.
- \_\_\_\_\_ 2. Knowledge and Abilities (K/A) references are included.
- \_\_\_\_\_ 3. Performance location specified. (in-plant, control room, simulator, or other)
- \_\_\_\_\_ 4. Initial setup conditions are identified.
- \_\_\_\_\_ 5. Initiating cue (and terminating cue if required) are properly identified.
- \_\_\_\_\_ 6. Task standards identified and verified by SME review.
- \_\_\_\_\_ 7. Critical steps meet the criteria for critical steps and are identified with an asterisk (\*).
- \_\_\_\_\_ 8. If an alternate path is used, the task standard contains criteria for successful completion.
- \_\_\_\_\_ 9. Verify the procedure(s) referenced by this JPM reflects the current revision:  
Procedure NISP-RP-004 Rev: 1  
Procedure \_\_\_\_\_ Rev: \_\_\_\_\_  
Procedure \_\_\_\_\_ Rev: \_\_\_\_\_  
Procedure \_\_\_\_\_ Rev: \_\_\_\_\_
- \_\_\_\_\_ 10. Verify cues both verbal and visual are free of conflict.
- \_\_\_\_\_ 11. Verify performance time is accurate
- \_\_\_\_\_ 12. If the JPM cannot be performed as written with proper responses, then revise the JPM.
- \_\_\_\_\_ 13. When JPM is initially validated, sign and date JPM cover page. Subsequent validations, sign and date below:

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

**Revision Record (Summary)**

Revision	Date	Description
00	10/31/18	This is a new RO Administrative JPM.

### **SIMULATOR SETUP INSTRUCTIONS**

1. This is an RO admin JPM, no simulator setup is required.

## INITIAL CONDITIONS

The plant is operating in Mode 3.

Preparations are in progress to place the preferred loop of RHR in Shutdown Cooling Mode.

You have been tasked with determining the radiological requirements necessary for an Equipment Operator to flush the RHR discharge header for the preferred loop. The required valve manipulations will be performed in the vicinity of the RHR A/B To Feedwater S/D Cooling Rtrn Vlv (1E12-F053A/B).

During the flush, the MCR will be monitoring conductivity on 1E12-R006 using a remote camera; Equipment Operator support will not be required for conductivity monitoring.

## INITIATING CUE

Review the attached survey maps and determine the highest general area dose rate and contamination levels that the Equipment Operator will encounter when aligning the system to flush the RHR Discharge Header.

Fill in the JPM Start Time when the student acknowledges the Initiating Cue.

.....

### Information For Evaluator's Use:

**Task Standard:** The examinee will review the task description and the attached survey maps and then correctly determines:

- the highest dose rate encountered (260 mrem/hr) and highest contamination level encountered (2,000 dpm/100 cm<sup>2</sup>) during the performance of the task, and
- the area posting should be designated as a High Radiation Area (HRA) and Contamination Area (CA), and
- the correct RWP requirements for entering the 'B' RHR Heat Exchanger room.

UNSAT requires written comments on respective step.

\* Denotes critical steps.

Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section. The comment section should be used to document: the reason that a step is marked as unsatisfactory, marginal performance relating to management expectations, or problems the examinee had while performing the JPM. Comments relating to procedural or equipment issues should be entered and tracked using the site's appropriate tracking system.

Some operations that are performed from outside of the control room may require multiple steps. These items may be listed as individual steps in this JPM. It is acceptable for the candidate to direct the local operator to perform groups of procedure steps instead of calling for each individual item to be performed.

The timeclock starts when the candidate acknowledges the initiating cue.

.....

SRRS: 3D.100; There are no retention requirements for this section

JPM Start Time: \_\_\_\_\_

<b><u>STEP</u></b>	<b><u>ELEMENT</u></b>	<b><u>STANDARD</u></b>	<b>SAT</b>	<b>UNSAT</b>	<b>Comment Number</b>
Cue	Provide the examinee with the Cue Sheet and Attachments 1-3.				
Note	The “preferred loop” of Shutdown Cooling is the ‘B’ RHR loop since warmup of the system can be accomplished using motor operated valves operated from the MCR. The ‘A’ RHR loop requires local valve manipulations which increase the radiation exposure to field operators.				
<b>*1</b>	Determines highest dose rate and contamination levels in the ‘B’ RHR Heat Exchanger Room.	<b>Attachment 3 Survey Map</b> <b>Examinee identifies the intended locations on the map and determines:</b> <ul style="list-style-type: none"> <li>the highest dose rate is 260 mrem/hr.</li> <li>the highest contamination level is 2,000 dpm/100cm<sup>2</sup>.</li> </ul> <i>Evaluator Note – Key with legend is provided on page 8.</i>	_____	_____	_____
Note	If a reference is requested, provide the examinee with a copy of NISP-RP-004 Radiological Posting and Labeling.				
Cue	Ask the examinee to determine the posting requirements for the chosen RHR Heat Exchanger Room.				
<b>*2</b>	Determines posting requirements for the ‘B’ RHR Heat Exchanger Room.	<b>NISP-RP-004 page 9</b> <b>Examinee determines that:</b> <ul style="list-style-type: none"> <li>a dose rate <math>\geq 80</math> &amp; <math>&lt; 800</math> mrem/hour @ 30 cm requires the room to be posted as a <b><u>High Radiation Area (HRA)</u></b></li> <li>a contamination level <math>\geq 1,000</math> &amp; <math>&lt; 100,000</math> dpm/100cm<sup>2</sup> requires the room to be posted as a <b><u>Contamination Area (CA)</u></b></li> </ul>	_____	_____	_____



<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
Cue	Provide the examinee with Attachment 4. Ask the examinee to determine all RWP requirements for the Equipment Operator supporting flushing activities.				
*3	Determines the RWP requirements for entering the 'B' RHR Heat Exchanger room.	<b>Attachment 4 RWP 10017885</b> <b>Examinee identifies the following minimum requirements:</b> <ul style="list-style-type: none"> <li>• <b>DLR and Electronic Dosimeter</b></li> <li>• <b>A specific HRA/LHRA briefing</b></li> </ul> <p align="center"><b>AND</b></p> <ul style="list-style-type: none"> <li>• <b>A full set of protective clothing must be worn consisting of coveralls, hardhat cover, cotton liners, 1 pair rubber gloves, rubber shoe covers and booties</b></li> </ul> <p align="center"><b>OR</b></p> <ul style="list-style-type: none"> <li>• <b><u>With RP Approval:</u></b> modesty garments, rubber shoe covers and booties, cotton liners, 1 pair rubber gloves, hardhat cover.</li> </ul>	—	—	—
CUE	Cue the examinee that the JPM is complete.				

JPM Stop Time: \_\_\_\_\_  
 .....


**RADIOLOGICAL SURVEY MAP**

Page 1 of 1

Survey #: 2019-XXXXXX

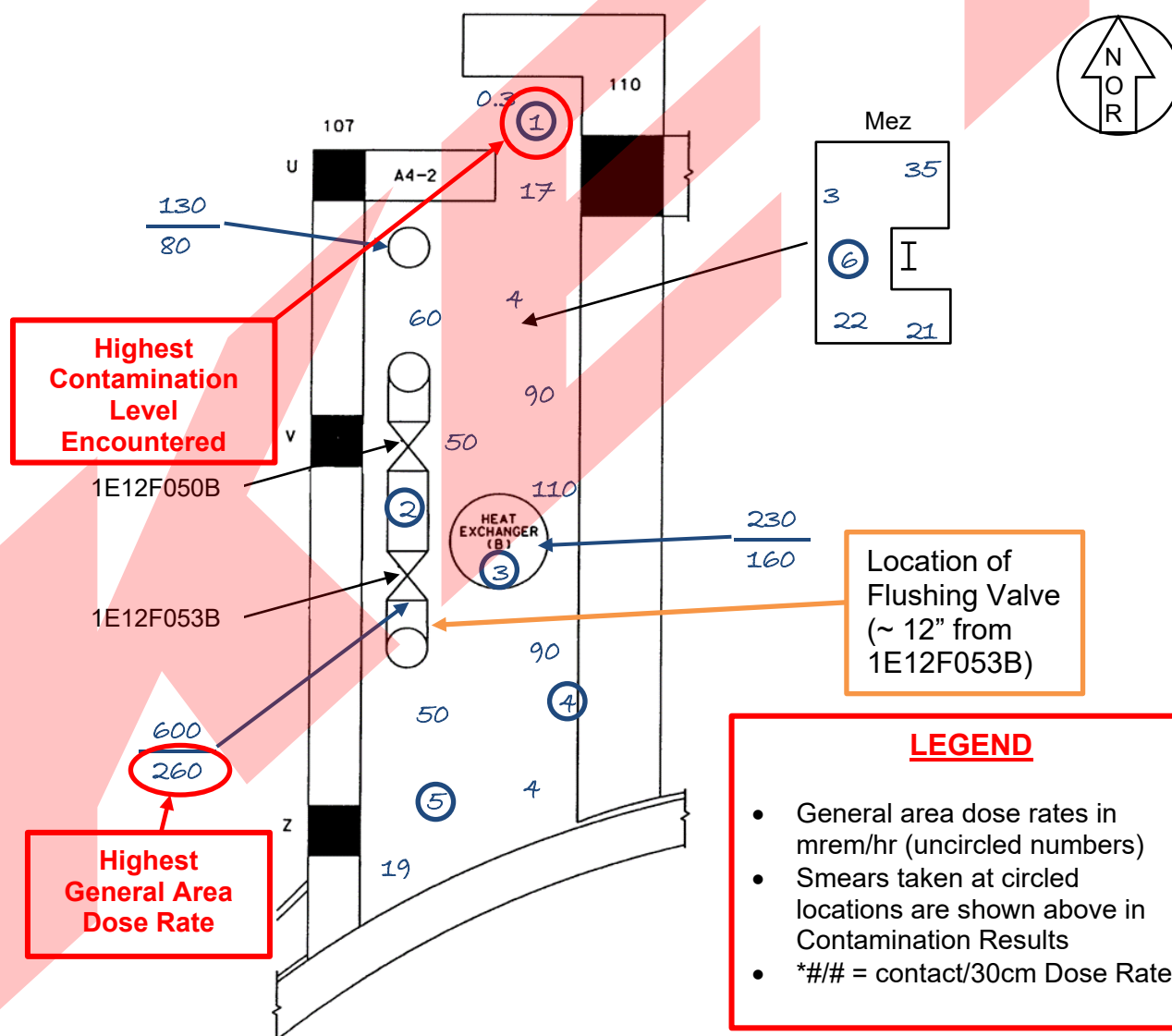
MAP AB1-762-RHR B AREA Aux. Building 762' RHR Heat Exchanger 'B' (A4-02)  
 TEMPLATE: HX DESCRIPTION:

Date: XX-XX-19	Time: XXXX	Type: S/D Cooling	Rx Pwr (%): 0%
Inst. Type	Powerlabs SerNo	Cal Due	Exposure (mRem): 4.7
Ludlum M-177	23456	XX-XX-20	Print Name
RO-20	34567	XX-XX-20	Signature
			EID#
			A. Rptech / A. Rptech / XXXXXXX
			RPT: N/A / N/A / N/A
			RPS: R.Psup / R.Psup Date: XX-XX-19

Contamination Results:			No	Location	dpm/100cm <sup>2</sup>	No	Location	/	No	Location	/
No	Location	dpm/100cm <sup>2</sup>	2	Pipe O/S	1K	4	wall	<1K	6	Mezz	<1K
1	floor	2K	3	HX	1K	5	floor	40K			

NOTES: All Dose Rates in mR/hr unless noted. XX/XX = Contact/30 cm

---=Radiological Boundary  
T = Transfer Area



**JPM SUMMARY****Operator's Name:** \_\_\_\_\_ **Emp. ID#:** \_\_\_\_\_**Job Title:** ☐ EO ☐ RO ☐ SRO ☐ FS ☐ STA/IA ☐ SRO CertJPM Title: Perform a High Radiation Area EntryJPM Number: JPM513Revision Number: 00Task Number and Title: 995555.01, Complete in-plant radiological practices for a High Radiation Zone.

K/A Number and Importance:

K/A System	K/A Number	Importance (RO/SRO)	
Generic	2.3.7	3.5	3.6

Suggested Testing Environment: ClassroomAlternate Path: ☐ Yes ☒ No SRO Only: ☐ Yes ☒ No Time Critical: ☐ Yes ☒ No

Reference(s):

- NISP-RP-004 Rev. 1

**Actual Testing Environment:** ☐ Simulator ☐ Control Room ☐ In-Plant ☒ Other**Testing Method:** ☐ Simulate ☒ PerformEstimated Time to Complete: 20 minutes**Actual Time Used:** \_\_\_\_\_ minutes**EVALUATION SUMMARY:**Were all the Critical Elements performed satisfactorily? ☐ Yes ☐ NoThe operator's performance was evaluated against standards contained within this JPM and has been determined to be: ☐ Satisfactory ☐ Unsatisfactory**Comments:** \_\_\_\_\_\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_**Evaluator's Name (Print):** \_\_\_\_\_**Evaluator's Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Attachment 1 – Procedure****Flushing RHR 'A' discharge header**

1. (Local) Open 1E12-F063A, RHR A Pump Disch Hdr Flush Wtr Supp. AB 762' East HX Rm east wall. (Normally locked shut)
2. Throttle open 1E12-F070, RHR Disch To Radwaste Hdr Isol Valve, AB 737' B HX Rm west wall. (Normally locked shut)
3. (MCR) Flush until conductivity is <10 umho as indicated on 1E12-R006 (meter on 1H22-P021 in RHR B Pump Rm) or by sample.
  - a. Shut 1E12-F048A, RHR A Hx Bypass Valve.
4. Flush until conductivity is <10 umho as indicated on 1E12-R006 (meter on 1H22-P021 in RHR B Pump Rm) or by sample.
  - a. Shut 1E12-F070.
5. (Local) Lock shut 1E12-F063A, RHR B Pump Disch Hdr Flush Wtr Supp.
6. Open 1E12-F048A, RHR A Hx Bypass Valve.

**Flushing RHR 'B' discharge header**

1. (Local) Open 1E12-F063B, RHR B Pump Disch Hdr Flush Wtr Supp. AB 762' West HX Rm. (Normally locked shut)
2. Throttle open 1E12-F040, RHR B To Radwaste Second Isol Valve.
3. Flush until conductivity is <10 umho as indicated on 1E12-R006 (meter on 1H22-P021 in RHR B Pump Rm) or by sample.
  - a. Shut 1E12-F040.
4. (Local) Lock shut 1E12-F063B, RHR B Pump Disch Hdr Flush Wtr Supp.

## **Attachment 2 – Survey Map AB1-762-RHR ‘A’**

MAP AB1-762-RHR A  
 TEMPLATE: HX

AREA

DESCRIPTION:

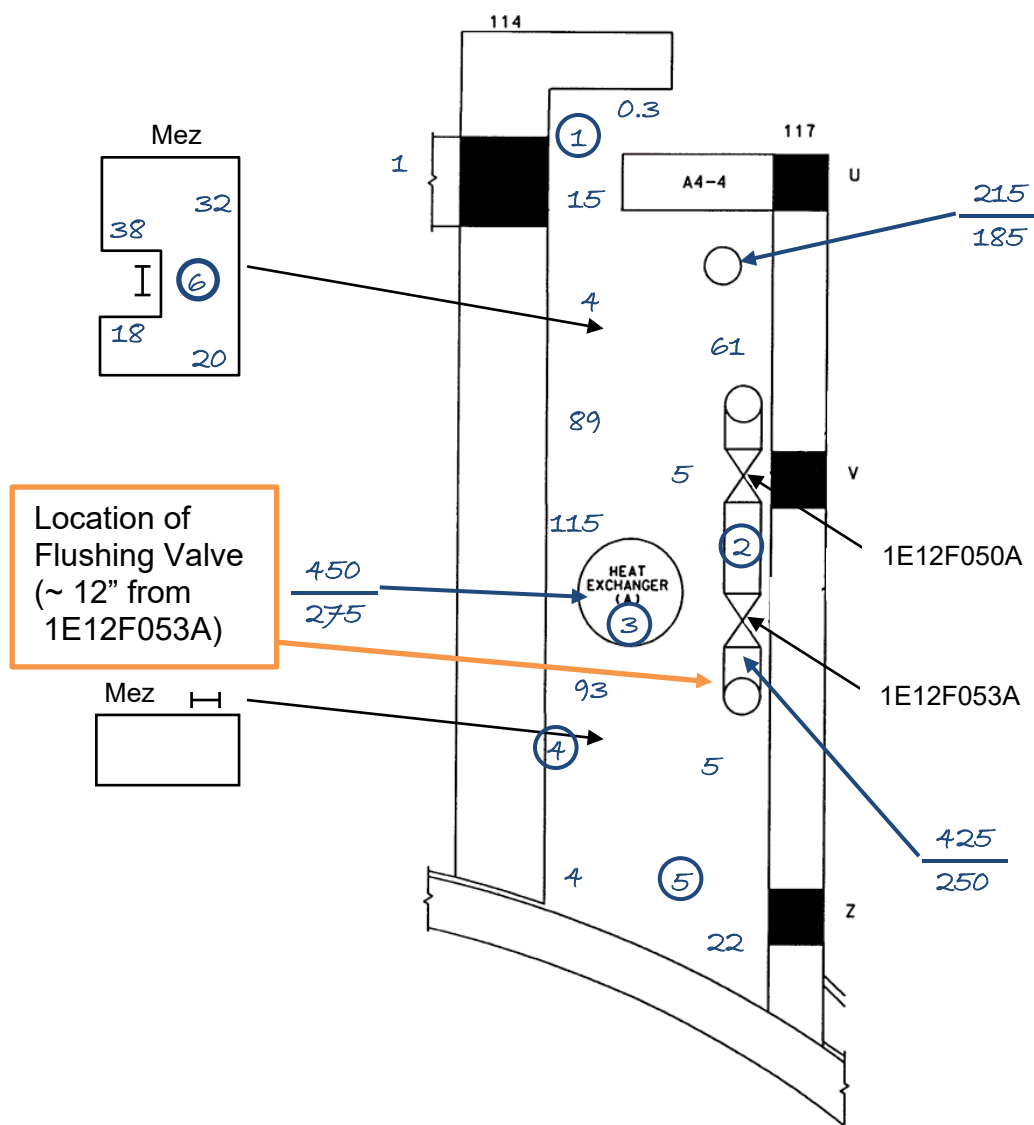
Aux. Building 762' RHR Heat Exchanger 'A' (A4-04)

Date:	XX-XX-19	Time:	XXXX	Type:	S/D Cooling	Rx Pwr (%):	0%
Inst. Type	Powerlabs SerNo	Cal Due		RWP:	CL-I-19-XXXXX	Exposure (mRem):	4.7
Ludlum M-177	23456	XX-XX-20		RPT:	A. Rptech /	A. Rptech /	XXXXXXXX
RO-20	34567	XX-XX-20		RPT:	N/A /	N/A /	N/A
				RPSS:	R.Psup / R.Psup	Date:	XX-XX-19

<u>Contamination Results:</u>			No	Location	dpm/100cm <sup>2</sup>	No	Location	dpm/100cm <sup>2</sup>	No	Location	dpm/100cm <sup>2</sup>
No	Location	dpm/100cm <sup>2</sup>	2	Pipe O/S	9K	4	wall	<1K	6	mezz	<1K
1	floor	2K	3	HX	1K	5	floor	1K			

NOTES: All Dose Rates in mR/hr unless noted. XX/XX = Contact/30 cm

-x-x-x=Radiological Boundary  
T = Transfer Area



**Attachment 3 – Survey Map AB1-762-RHR ‘B’**



RADIOLOGICAL SURVEY MAP

Page 1 of 1

Survey #: 2019-XXXXXX

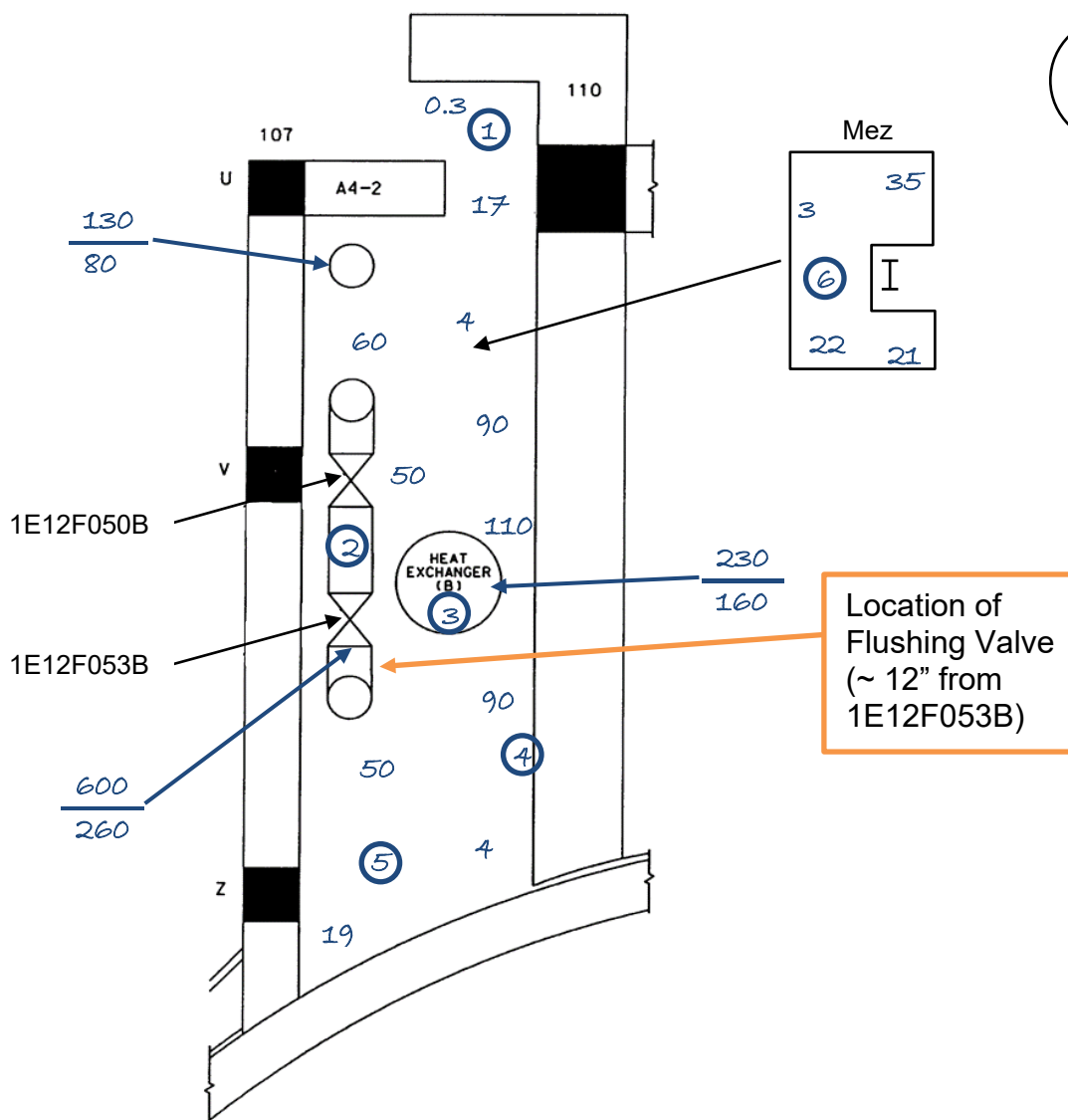
MAP AB1-762-RHR B AREA Aux. Building 762' RHR Heat Exchanger 'B' (A4-02)  
TEMPLATE: HX DESCRIPTION:

Date: XX-XX-19	Time: XXXX	Type: S/D Cooling	Rx Pwr (%): 0%
Inst. Type	Powerlabs SerNo	RWP: CL-I-19-XXXXX	Exposure (mRem): 4.7
Ludlum M-177	23456	Print Name	Signature
RO-20	34567	A. Rptech /	A. Rptech /
		RPT: N/A /	N/A /
		RPSS: R.Psup / R.Psup	Date: XX-XX-19
		Cal Due	EID#
		XX-XX-20	XXXXXXX

Contamination Results:			No	Location	dpm/100cm <sup>2</sup>	No	Location	/	No	Location	/
1	floor	2K	2	Pipe O/S	1K	4	wall	<1K	6	mezz	<1K
			3	HX	1K	5	floor	40K			

NOTES: All Dose Rates in mR/hr unless noted. XX/XX = Contact/30 cm

-x-x-x=Radiological Boundary  
T = Transfer Area



### **Attachment 4 – RWP 10017885 (page 1)**

#### **Clinton Power Station**

Radiation Work Permit

RWP#: 10017885      Rev: **0**

Worker Information

**RWP Description: Operations Support For Placing RHR in SDC**

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

<p align="center"><b>RWP Dose</b> Approval: 100 mrem ED Dose Alarm: 80 mrem Dose Rate Alarm: 1000 mrem/hr</p>
---

#### **Exposure Monitoring Requirements**

DLR and Electronic Dosimeter  
Teledosimetry may be used in lieu of standard ED.  
ED setpoints may be raised IAW RP-AA-403 based upon current survey data in the work location.

#### **Respiratory Protection Required**

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

#### **Special Instructions**

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

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

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

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

Contact RP prior to accessing areas above 7 ft.

Stop Work Limits:

1. GA dose rates  $\geq$  1000 mr/hr
2. GA contamination levels  $\geq$  200k dpm/100cm<sup>2</sup>
3. Airborne radioactivity  $\geq$  0.3 DAC

#### **Protective Clothing Requirements**

Protective Clothing ( $\leq$  100,000 dpm/100 cm<sup>2</sup>)

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

Protective Clothing ( $<$  10,000 dpm/100 cm<sup>2</sup>)  
RP APPROVAL REQUIRED

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

Company modesty garments shall be worn under PC's.

Protective Clothing ( $>$  100,000 dpm/100 cm<sup>2</sup>)

PCs consists of:  
Full hood, hard hat cover, coveralls, shoe covers, shoe rubbers, glove liners, 1 pair rubber gloves. Additional protective clothing (e.g. paper suit, nylon, rubber) may be prescribed based upon contamination form (i.e. wet, dry or greasy material) or extended activities in contaminated areas ( $>$ 100,000 dpm/100cm<sup>2</sup>)

Company modesty garments shall be worn under PC's

**Attachment 4 – RWP 10017885 (page 2)****Clinton Power Station**

Radiation Work Permit

Radiation Protection Information

RWP#: 10017885      Rev: **0****Survey Frequency Requirements:****Radiation :            R****Contamination: R****Airborne:            R****Shielding Recommended:**☒ None  
Temporary  
Permanent**Pre-Job Briefing Notes:****RPT Coverage / Comments:**

- ☐ Initial  
☒ Intermittent  
☐ Continuous

Continuous RP for LHRA entry



**Attachment 4 – RWP 10017885 (page 3)****Clinton Power Station**

Radiation Work Permit

*Continuation Sheet*

RWP#: 10017885	Rev: 0
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**Continuation Sheet**

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<p>When using remote communication devices (Telex, PCS phone) items should be inside PC's or secured in a pouch. Teledosimetry should be secured inside pocket unless directed by Radiation Protection</p>
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## **INITIAL CONDITIONS**

The plant is operating in Mode 3.

Preparations are in progress to place the preferred loop of RHR in Shutdown Cooling Mode.

You have been tasked with determining the radiological requirements necessary for an Equipment Operator to flush the RHR discharge header for the preferred loop. The required valve manipulations will be performed in the vicinity of the RHR A/B To Feedwater S/D Cooling Rtrn Vlv (1E12-F053A/B).

During the flush, the MCR will be monitoring conductivity on 1E12-R006 using a remote camera; Equipment Operator support will not be required for conductivity monitoring.

## **INITIATING CUE**

Review the attached survey maps and determine the highest general area dose rate and contamination levels that the Equipment Operator will encounter when aligning the system to flush the RHR Discharge Header.