

The following is a summary of changes made to incorporate comments made during NRC Prep Week (9/3/02 to 9/5/02). Only one change resulted in a change to the exam outline.

<b>Nine Mile Point Unit 1 Admin Exam Changes</b>				
<b>Cat A Admin Exam</b>	<b>From Original Exam Submittal</b>	<b>To Final Exam Submittal</b>	<b>Reason/Justification</b>	<b>Date</b>
<b>SRO Exam A</b>	<b>A.1.1 JPM</b>	<b>A.1.1 JPM</b>	Original Initiating Cue was leading (to classify the Reactivity Event)	9/5/02
	<b>A.1.2 JPM</b> was for Chemistry Action Level 1 (least severe).	<b>A.1.2 JPM</b> for Chemistry Action Level 3 (more severe and a plant shutdown is required)	Modified JPM action is more significant, than just making notifications.	9/5/02
	<b>A.3 Q.2</b> original question stated an "emergency exists"	<b>A.3 Q.2</b> change to N1-EOP-5 Secondary Containment Control.  Also change was required to SRO Admin Exam A Outline (ES 301-1)	Original question was leading.	9/5/02
	<b>A.4 JPM</b>	<b>A.4 JPM</b>	Made time critical.	9/5/02
<b>RO Exam B</b>	<b>A.2 JPM</b>	<b>A.2 JPM</b> Removed excess detail from Initiating Cue	Initiating Cue was leading.	9/12/02

Facility: <u>Nine Mile Point # 1</u>		Date of Examination: <u>09/30/2002</u>
Examination Level (circle one): <b>SRO</b>		Operating Test Number: <u>Cat A Test A</u>
Administrative Topic/Subject Description		Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions
A.1	Reactivity Management	2.1.1 JPM - Determine reactivity event severity level and DER requirements for an APRM miscalibration event. References: GAP-OPS-05
	Conduct of Operations	2.1.34 JPM – SRO Actions for exceeding CDI conductivity. References: GAP-CHE-01, N1-CTP-D106
A.2	Surveillance Testing	2.1.14, 2.2.12 JPM - Given a completed Surveillance Test, N1-ST-M1A, Liquid Poison Pump #11 Operability Test, complete the "Acceptance Criteria" and "SSS Review" sections as applicable. References: N1-ST-M1A, Technical Specifications
A.3	Control of Releases	2.3.11 Q.1. Given the following: <ul style="list-style-type: none"> <li>• The plant is operating at rated power.</li> <li>• Wind gusts of up to 90 mph have been reported.</li> <li>• Reactor Building differential pressure is positive.</li> </ul> <p style="margin-left: 40px;">a. What are the required actions for these conditions?</p> References: N1-EOP-5; N1-ARP-L1, window 3-4; N1-OP-10
A.3	Radiation Work Permit	2.3.10 Q.2. A plant event requires entry into N1-EOP-5, Secondary Containment Control. <ul style="list-style-type: none"> <li>• Actions to mitigate the event require access to the RWCU Heat Exchanger Room.</li> <li>• A Radiation Work Permit is currently not available for the room.</li> <li>• RP Supervision is not available (back-shift)</li> </ul> What is/are the requirement(s) for entry into this area?  References: GAP-RPP-08 Sections 4.2; GAP-RPP-02 Section 3.2 Attached survey map for the RWCU Heat Exchanger Room.
A.4	Emergency Action Levels and Classifications	2.4.29, 2.4.41 JPM - Emergency Plan Classification with PAR's References: Emergency Plan

NINE MILE POINT NUCLEAR STATION  
OPERATOR JOB PERFORMANCE MEASURE

Title: Determine Reactivity Event Severity Level and DER requirement for APRM Miscalibration Event. Revision: 0

Task Number:

Approvals:

Randy P. Theron 19/10/02  
General Supervisor Date  
Operations Training (Designee)

NA EXAM SECURITY 1  
General Supervisor Date  
Operations (Designee)

NA EXAM SECURITY 1  
Configuration Control Date

Performer: \_\_\_\_\_ (RO/SRO/AO)

Trainer/Evaluator: \_\_\_\_\_

Evaluation Method: X Perform \_\_\_\_\_ Simulate

Evaluation Location: \_\_\_\_\_ Plant \_\_\_\_\_ Simulator

Expected Completion Time: 10 minutes Time Critical Task: NO Alternate Path Task: NO

Start Time: \_\_\_\_\_ Stop Time: \_\_\_\_\_ Completion Time: \_\_\_\_\_

JPM Overall Rating: Pass Fail

**NOTE:** A JPM overall rating of fail shall be given if any critical step is graded as fail. Any grade of unsat or individual competency area unsat requires a comment.

Comments:

Evaluators Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Recommended Start Location: (Completion time based on the start location)

Main Control Room or any other location with available reference material

Simulator Set-up (if required):

N/A

Directions to the Instructor/Evaluator:

Prior to performance of this JPM, obtain SSS / CSO general permission to open equipment cabinets and inspection covers. If opening the equipment cabinet or inspection cover will affect Tech. Spec. Operability, operational status, or the effects are unknown, obtain specific SSS / CSO permission.

Directions to Operators:

Read Before Every JPM Performance:

For the performance of this JPM, I will function as the SSS, CSO, and Auxiliary Operators. Prior to providing direction to perform this task, I will provide you with the initial conditions and answer any questions. During task performance, I will identify the steps to be simulated, or discuss and provide cues as necessary.

With the exception of accessing panels, NO plant equipment will be physically manipulated. Repositioning of devices will be simulated by discussion and acknowledged by my cues.

Read Before Each Evaluated JPM Performance:

This evaluated JPM is a measure of your ability to perform this task independently. The Control Room Supervisor has determined that a verifier is not available and that additional / concurrent verification will not be provided; therefore, it should not be requested.

Read Before Each Training JPM Performance:

During this Training JPM, applicable methods of verification are expected to be used. Therefore, either another individual or I will act as the independent/peer verifier.

Notes to Instructor / Evaluator:

1. Critical steps are identified in grading areas **Pass/Fail**. All steps are sequenced critical unless denoted by a "•".
2. During Evaluated JPM:
  - Self verification shall be demonstrated.
3. During Training JPM:
  - Self verification shall be demonstrated.
  - (Independent/Peer/No other) verification shall be demonstrated.

References:

1. GAP-OPS-05
2. NUREG 1123 Knowledge and Abilities 2.1.1

Tools and Equipment:

1. None.

Task Standard:

Determines event is Severity Level 3 and a DER is required.

Initial Conditions:

- The plant is at 95% power when it was determined that an administrative error was made during a surveillance test procedure. The error has resulted in all APRMs being improperly calibrated and not within the Technical Specification required calibration limits (non-conservative direction).
- The shift entered the required Technical Specification and re-calibration was completed within 20 minutes using a corrected procedure.
- No Safety Limits have been violated.
- Reactor Engineering and Plant Management have been notified.

Initiating Cues:

“(Operator’s name), determine the remaining actions, including internal reporting requirements, if any.”

Performance Steps	Standard	Grade
1. Provide repeat back of initiating cue. <i>Evaluator Acknowledge repeat back providing correction if necessary.</i>	Proper communications used for repeat back (GAP-OPS-01/Operations Manual)	Sat/Unsat

**RECORD START TIME** \_\_\_\_\_

2. Obtain a copy of the reference procedure and review/utilize the correct section of the procedure.	T.S. 3.6.2 and GAP-OPS-05 obtained. Tech spec reviewed & GAP-OPS-05 section 3.13 referenced.	Sat/Unsat
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Note: Candidate may not refer to the Tech Spec, if aware of the one hour action requirement, since the Initial Conditions state that Tech Specs were entered.

3. Determine action required to correct within one hour.	T.S. 3.6.2 Table 3.6.2.a. and note (o)	Sat/Unsat
4. With action being taken within T.S. limits determine Severity Level 3 appropriate	Identify Severity Level 3 applicable for “Improper calibration or bypass of RPS, rod block instrumentation, or other reactivity control systems corrected in accordance with Technical specifications”.	<b>Pass/Fail</b>
5. With Severity Level 3 selected determine that a DER is required.	Refer to step 3.13.2 and identify a DER shall be generated.	<b>Pass/Fail</b>

**Terminating Cue:** Severity Level 3 and DER required identified.

**RECORD STOP TIME** \_\_\_\_\_

### Initial Conditions:

- The plant is at 95% power when it was determined that an administrative error was made during a surveillance test procedure. The error has resulted in all APRMs being improperly calibrated and not within the Technical Specification required calibration limits (non-conservative direction).
- The shift entered the required Technical Specification and re-calibration was completed within 20 minutes using a corrected procedure.
- No Safety Limits have been violated.
- Reactor Engineering and Plant Management have been notified

### Initiating Cues:

“(Operator’s name), determine the remaining actions, including internal reporting requirements, if any.”

NINE MILE POINT NUCLEAR STATION  
OPERATOR JOB PERFORMANCE MEASURE

Title: SRO actions for exceeding CDI Conductivity – Action Level 3

Revision: 0

Task Number:

Approvals:

*[Signature]* 1 9/10/02  
General Supervisor Date  
Operations Training (Designee)

NA EXAM SECURITY 1  
General Supervisor Date  
Operations (Designee)

NA EXAM SECURITY 1  
Configuration Control Date

Performer: \_\_\_\_\_ (SRO)

Trainer/Evaluator: \_\_\_\_\_

Evaluation Method:  Perform  Simulate

Evaluation Location:  Plant  Simulator

Expected Completion Time: 10 min. Time Critical Task: No Alternate Path Task: No

Start Time: \_\_\_\_\_ Stop Time: \_\_\_\_\_ Completion Time: \_\_\_\_\_

JPM Overall Rating: Pass Fail

NOTE: A JPM overall rating of fail shall be given if any critical step is graded as fail. Any grade of unsat or individual competency area unsat requires a comment.

Comments:

Evaluators Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Recommended Start Location: (Completion time based on the start location)  
Simulator or other designated site.

Simulator Set-up (if required):  
None

Directions to the Instructor/Evaluator:

Prior to performance of this JPM, obtain SSS / CSO general permission to open equipment cabinets and inspection covers. If opening the equipment cabinet or inspection cover will affect Tech. Spec. Operability, operational status, or the effects are unknown, obtain specific SSS / CSO permission.

Directions to Operators:

Read Before Every JPM Performance:

For the performance of this JPM, I will function as the SSS, CSO, and Auxiliary Operators. Prior to providing direction to perform this task, I will provide you with the initial conditions and answer any questions. During task performance, I will identify the steps to be simulated, or discuss and provide cues as necessary.

With the exception of accessing panels, NO plant equipment will be physically manipulated. Repositioning of devices will be simulated by discussion and acknowledged by my cues.

Read Before Each Evaluated JPM Performance:

This evaluated JPM is a measure of your ability to perform this task independently. The Control Room Supervisor has determined that a verifier is not available and that additional / concurrent verification will not be provided; therefore, it should not be requested.

Read Before Each Training JPM Performance:

During this Training JPM, applicable methods of verification are expected to be used. Therefore, either another individual or I will act as the independent/peer verifier.

Notes to Instructor / Evaluator:

1. Critical steps are identified in grading areas as **Pass/Fail**. All steps are sequenced critical unless denoted by a “●”.
2. During Evaluated JPM:
  - Self verification shall be demonstrated.
3. During Training JPM:
  - Self verification shall be demonstrated.
  - No other verification shall be demonstrated.

References:

1. GAP-CHE-01, Enclosure #2
2. NUREG K/A General Knowledges and Abilities 2.1.34 (2.9)

Tools and Equipment:

1. GAP-CHE-01, Enclosure #1
2. N1-CTP-D106, Attachment #2

Task Standard:

Determine Action Level status and take appropriate action(s) for a given value of CDI Conductivity.

Initial Conditions:

1. The Reactor is operating at 100% power.
2. You have just been handed a Chemistry Report.

Initiating Cues:

“(Operator’s name), determine the required actions (if any) using the information provided in this Station Water Chemistry Summary sheet.”

Performance Steps	Standard	Grade
1. Provide repeat back of initiating cue. <i>Evaluator Acknowledge repeat back providing correction if necessary</i>	Proper communications used for repeat back (GAP-OPS-O1/Operations Manual)	Sat/Unsat

**RECORD START TIME \_\_\_\_\_**

Cue: As the Chemistry Technician, give the candidate the attached completed copy of the Station Water/Chemistry Summary sheet.

2. Obtain a copy of the reference procedure and review/utilize the correct section of the procedure.	GAP-CHE-01 obtained. Enclosure 1 is referenced.	Sat/Unsat
3. Determines Action Level 3 is exceeded	Using the supplied Chemistry Analysis information and Enclosure 1; <ul style="list-style-type: none"> <li>• Determines that Action Level 3 <b>HAS</b> been exceeded per Enclosure I, Section III, Reactor Condition 3 Condensate Influent Conductivity (CDI). The limit is 10 and the given value is 15.5</li> </ul>	<b>Pass/Fail</b>
	Enters Section 3.2.3 of GAP-CHE-01.	Sat/Unsat
4. Performs appropriate Notifications.	Notifies the following personnel that CDI has exceeded <b>ACTION LEVEL 3</b> ; <ul style="list-style-type: none"> <li>• SSS</li> <li>• Chemistry Manager</li> <li>• Operations Manager</li> <li>• Plant Manager, <b>AND</b></li> <li>• Engineering Services Branch Manager.</li> </ul>	Sat/Unsat

Performance Steps	Standard	Grade
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CUE: Role playing as the SSS and all the called Managers, acknowledge the Candidate's report of the CDI Conductivity exceeding Action Level 3.

5. Initiates an orderly plant shutdown	Identifies GAP-CHE-01, step 3.2.3.b requires an orderly plant shutdown	Pass/Fail
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**Terminating Cue:** Orderly plant shutdown is required due to parameter exceeding Action Level 3 value.

**RECORD STOP TIME** \_\_\_\_\_

Initial Conditions:

1. The Reactor is operating at 100% power.
2. You have just been handed a Chemistry Report.

Initiating Cues:

“(Operator’s name), determine the required actions (if any) using the information provided in this Station Water Chemistry Summary sheet.”

NINE MILE POINT NUCLEAR STATION  
OPERATOR JOB PERFORMANCE MEASURE

Title: Acceptance Criteria and SSS Review of Liquid Poison  
Pump 11 Operability Test (TS)

Revision: 0

Task Number:

Approvals:

*Ron Thurman* 1 8/21/02  
General Supervisor Date  
Operations Training (Designee)

NA /  
General Supervisor Date  
Operations (Designee)

NA EXAM SECURITY /  
Configuration Control Date

Performer: \_\_\_\_\_ (SRO)

Trainer/Evaluator: \_\_\_\_\_

Evaluation Method:  Perform  Simulate

Evaluation Location:  Plant  Simulator

Expected Completion Time: 10 min Time Critical Task: NO Alternate Path Task: NO

Start Time: \_\_\_\_\_ Stop Time: \_\_\_\_\_ Completion Time: \_\_\_\_\_

JPM Overall Rating: Pass Fail

**NOTE:** A JPM overall rating of fail shall be given if any critical step is graded as fail. Any grade of unsat or individual competency area unsat requires a comment.

Comments:

Evaluators Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Recommended Start Location: (Completion time based on the start location)

Main Control Room or any other location with available reference material

Simulator Set-up (if required):

N/A

Directions to the Instructor/Evaluator:

Prior to performance of this JPM, obtain SSS / CSO general permission to open equipment cabinets and inspection covers. If opening the equipment cabinet or inspection cover will affect Tech. Spec. Operability, operational status, or the effects are unknown, obtain specific SSS / CSO permission.

Directions to Operators:

Read Before Every JPM Performance:

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Read Before Each Training JPM Performance:

During this Training JPM, applicable methods of verification are expected to be used. Therefore, either another individual or I will act as the independent/peer verifier.

Notes to Instructor / Evaluator:

1. Critical steps are identified in grading areas **Pass/Fail**. All steps are sequenced critical unless denoted by a "•".
2. During Evaluated JPM:
  - Self verification shall be demonstrated.
3. During Training JPM:
  - Self verification shall be demonstrated.
  - (Independent/Peer/No other) verification shall be demonstrated.

References:

1. N1-ST-M1A
2. Technical Specifications 3.1.2.a.
3. NUREG 1123 Knowledge & Abilities 2.1.14, 2.2.12

Tools and Equipment:

1. Marked up copy of N1-ST-M1A with flow rate calculation of 27.5 gpm.

**Task Standard:**

Identifies Liquid Poison is Inoperable and that pump flow rate falls into Required Action Range requiring immediate pump Inoperability and inform IST Department.

**Initial Conditions:**

1. N1-ST-M1A has been completed and requires operations and SSS review
2. Instructor to ask operator for any questions.

**Initiating Cues:**

“(Operator’s name), Complete and review the Operations Review and SSS Review sections of the provided surveillance N1-ST-M1A and determine component Operability and any actions required.”

Performance Steps	Standard	Grade
1. Provide repeat back of initiating cue. <i>Evaluator Acknowledge repeat back providing correction if necessary.</i>	Proper communications used for repeat back (GAP-OPS-O1/Operations Manual)	Sat/Unsat
<b>RECORD START TIME _____</b>		
2. Obtain a copy of the reference procedure and review/utilize the correct section of the procedure.	Provided N1-ST-M1A obtained. Section 10.0 referenced.	Sat/Unsat
3. Review in Step 10.1.1 data recorded on step 8.20 and check Sat for discharge pressure	<input type="checkbox"/> Sat box checked.	Sat/Unsat
4. Review in Step 10.1.1 data recorded on step 8.22.3 and check Unsat for flow rate	<input type="checkbox"/> Unsat box checked.	<b>Pass/Fail</b>
5. Review in Step 10.1.2 data recorded measured value from step 8.20 and check ACC Discharge Pressure	1285 psig recorded in MEASURED VALUE and ACC box checked	Sat/Unsat
6. Review in Step 10.1.2 data recorded measured value from step 8.22.3 and check RA** for Flow Rate	27.5 gpm recorded in MEASURED VALUE and RA** box checked	Sat/Unsat
7. Review in Step 10.1.3 data recorded on step 8.21 and check Sat for motor amps	<input type="checkbox"/> Sat box checked.	Sat/Unsat
8. Review in Step 10.2 data recorded in section 10.1 and check Unsatisfactory	<input type="checkbox"/> Unsatisfactory.	<b>Pass/Fail</b>

Performance Steps	Standard	Grade
9. Identify that Liquid Poison pump is inoperable initiate a WR and immediately notify Plant Manager or alternate..	Identifies component is Inoperable Identifies need to initiate a WR. Identifies immediate notification of Plant Manager or alternate is required.	<b>Pass/Fail</b>
<b>CUE:</b> Acknowledge notification of inoperable Liquid Poison pump as the Plant Manager when reported.		
10. Identify that IST Department is to be notified.	Identifies that IST Department must be notified	Sat/Unsat
11. Identifies the following actions must be performed:	Actions identified	Sat/Unsat
<ul style="list-style-type: none"> <li>• Enter it in the ESL</li> <li>• Enter TS 3.1.2.a.</li> <li>• Make entry into SSS log</li> <li>• Place a yellow hold out on pump</li> <li>• Write a PID</li> <li>• Notify Manager Operations or designee</li> </ul>		

Cue: Acknowledge report

**Terminating Cue:** Identifies Liquid Poison is Inoperable and that pump flow rate falls into Required Actions Range requiring T.S. action and surveillance required reports and notifications.

**RECORD STOP TIME** \_\_\_\_\_

Initial Conditions:

1. N1-ST-M1A has been completed and requires operations and SSS review

Initiating Cues:

“(Operator’s name), Complete and review the Operations Review and SSS Review sections of the provided surveillance N1-ST-M1A and determine component Operability and any actions required.”

<b>Nine Mile Point 1 Category "A" - Examination Outline Cross Reference</b>	
Operating Test Number	Cat "A" Test: A
Examination Level	SRO
Administrative Topic	A.3
Subject Description:	Control Of Releases
Question Number:	1

<b>Question:</b>	
Given the following:	
<ul style="list-style-type: none"> <li>• The plant is operating at rated power.</li> <li>• Wind gusts of up to 90 mph have been reported.</li> <li>• Reactor Building differential pressure is positive.</li> </ul>	
a. What are the required actions for these conditions?	
<b>SAT</b>	<b>UNSAT</b>

<b>Answer:</b>	
a. The following actions are required:	
<ul style="list-style-type: none"> <li>• Enter N1-EOP-5 and monitor Reactor Building differential pressure.</li> <li>• Verify ventilation system lineup.</li> <li>• Start RBEVS per N1-OP-10.</li> </ul>	

<b>Technical Reference(s):</b>
N1-EOP-5 N1-ARP-L1, window 3-4 N1-OP-10

<b>K/A #:</b>	<b>Importance:</b>
2.3.11	3.2

<b>Comments:</b>
If N1-SOP-10 is referenced for high wind, no actions are required until wind speed is $\geq$ 100 mph

Nine Mile Point 1 Category "A" - Examination Outline Cross Reference	
Operating Test Number	Cat "A" Test: A
Examination Level	SRO
Administrative Topic	A.3
Subject Description:	Radiation Work Permit
Question Number:	2

Question:	
<p>A plant event requires entry into N1-EOP-5, Secondary Containment Control.</p> <ul style="list-style-type: none"> <li>• Actions to mitigate the event require access to the RWCU Heat Exchanger Room.</li> <li>• A Radiation Work Permit is currently not available for the area.</li> <li>• RP Supervision is not available (back-shift).</li> </ul> <p>What is/are the requirement(s) for entry into this area?</p>	
SAT	UNSAT

Answer:
a. SSS permission and continuous monitoring by RP technician.

Technical Reference(s):
GAP-RPP-08 Sections 4.2; GAP-RPP-02 Section 3.2 Attached survey map for the RWCU Heat Exchanger Room.

K/A #:	Importance:
2.3.10	3.3

Comments:
The survey map indicates this area is a Locked High Radiation Area.

**Question: CANDIDATE COPY**

A plant event requires entry into N1-EOP-5, Secondary Containment Control.

- Actions to mitigate the event require access to the RWCU Heat Exchanger Room.
- A Radiation Work Permit is currently not available for the area.
- RP Supervision is not available (back-shift).

What is/are the requirement(s) for entry into this area?

# SURVEY MAP

Map No.  
**25d**

Survey No. **1-RB-24641**

Page **1** of **1**

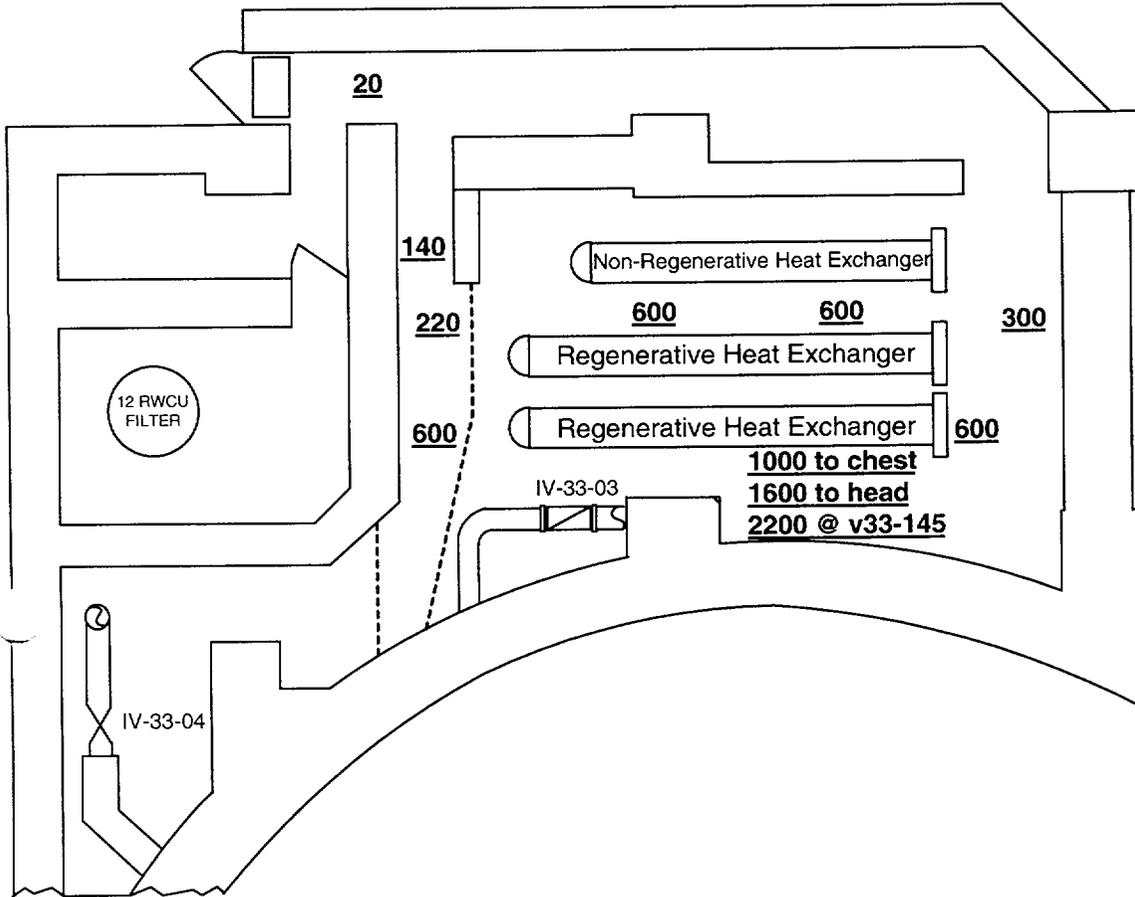
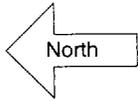
Date/Time **5.31.1 / 0815**

RWP No.

Rx Power **100%**

H<sub>2</sub> Inj. Rate **4** scfm

#	Item	$\beta\gamma$ dpm/100cm <sup>2</sup>	$\alpha$ dpm/100cm <sup>2</sup>
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Survey Instruments:  
RO-2 #6074 (9.13.1)

- |                            |                         |                                  |  |
|----------------------------|-------------------------|----------------------------------|--|
| 1. — = Rope/Area Boundary  | 2. (#) = Smear Location | 3. # = General Area Unless Noted | 4. $\frac{*#}{\#} \mid \frac{*#}{\#} = \frac{\gamma}{\beta} \mid \frac{\beta}{\gamma}$ Contact 30 cm |
| 5. (#) = Neutron (mRem/hr) | 6. [A/S] = Air Sample   | 7. (#) = Large Area Wipe         |  |
| 8. [A] = Area Rad Monitor  | 9. [V #] = VAMP Number  |                                  | $\gamma$ = Readings in mRem/hr. $\beta$ = Readings in mRad/hr.                                       |

Remarks:

No Beta Detected G/A unless otherwise noted

Surveyor: **M. Gilbert**      Dose: **66 mRem**      Reviewed By:

Date:

NINE MILE POINT NUCLEAR STATION  
OPERATOR JOB PERFORMANCE MEASURE

Title: Emergency Classification With PARs

Revision: 0

Task Number:

Approvals:

*Ronald P. Thew* / 9/10/02  
General Supervisor Date  
Operations Training (Designee)

NA EXAM SECURITY / 1  
General Supervisor Date  
Operations (Designee)

NA EXAM SECURITY / 1  
Configuration Control Date

Performer: \_\_\_\_\_ (SRO)

Trainer/Evaluator: \_\_\_\_\_

Evaluation Method: X Perform \_\_\_\_\_ Simulate

Evaluation Location: \_\_\_\_\_ Plant \_\_\_\_\_ Simulator

Expected Completion Time: 10 minutes Time Critical Task: YES Alternate Path Task: NO

Start Time: \_\_\_\_\_ Stop Time: \_\_\_\_\_ Completion Time: \_\_\_\_\_

JPM Overall Rating: Pass Fail

**NOTE:** A JPM overall rating of fail shall be given if any critical step is graded as fail. Any grade of unsat or individual competency area unsat requires a comment.

Comments:

Evaluators Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Recommended Start Location: (Completion time based on the start location)  
Main Control Room or any other appropriate location with proper references.

Simulator Set-up (if required):  
None

Directions to the Instructor/Evaluator:

Prior to performance of this JPM, obtain SSS / CSO general permission to open equipment cabinets and inspection covers. If opening the equipment cabinet or inspection cover will affect Tech. Spec. Operability, operational status, or the effects are unknown, obtain specific SSS / CSO permission.

Directions to Operators:

Read Before Every JPM Performance:

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Read Before Each Training JPM Performance:

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Notes to Instructor / Evaluator:

1. Critical steps are identified in grading areas **Pass/Fail**. All steps are sequenced critical unless denoted by a "•".
2. During Evaluated JPM:
  - Self verification shall be demonstrated.
3. During Training JPM:
  - Self verification shall be demonstrated.
  - No other verification shall be demonstrated.

References:

1. EPIP-EPP-08, Offsite Dose Assessment And Protective Action Recommendations
2. EPIP-EPP-20, Emergency Notifications
3. EAL Matrix

Tools and Equipment:

1. EAL Matrix

Task Standard:

Given a set of plant conditions, classify the emergency (within 15 min.), and complete the Part 1 Notification Fact sheet including PARs (within 15 min.)

Initial Conditions:

1. The plant is under accident conditions.
2. A Site Area Emergency has been declared based on plant conditions.
3. The Chemistry Technician has reported the following release data:
  - Dose assessment for ground level release rate is 58 Curies per second (Ci/second)
  - Dose assessment for elevated level release rate is 502 Ci/second
  - Wind speed is 8 mph
  - Wind direction is from the East South East (150°)
  - Pascal Stability Class is E

Initiating Cues:

“(Operator’s name), Take the required actions as the Emergency Director.”

Performance Steps	Standard	Grade
Evaluator Note: Inform the Candidate that this is a Time-Critical task		
1. Provide repeat back of initiating cue. <i>Evaluator Acknowledge repeat back providing correction if necessary.</i>	Proper communications used for repeat back (GAP-OPS-01/Operations Manual)	Sat/Unsat
<b>RECORD TASK 1 CRITICAL START TIME _____</b>		
2. Obtain a copy of the reference procedure and review/utilize the correct section of the procedure.	The candidate may reference any/all of the following: EAL Matrix obtained. Section 5.0 EPIP-EPP-08 Att. 1 EPIP-EPP-18 EPIP-EPP-20 Att. 1A	Sat/Unsat
3. Using given plant data and EPIP-EPP-08 Attachment 1 Table 1.1 and Table 1.2, determine that a General Emergency exists based upon calculated total release (ground release + elevated release).	General Emergency is declared.	<b>Pass/Fail</b>
<b>RECORD TASK 1 CRITICAL STOP/ TASK 2 CRITICAL START TIME _____</b>		

4. Review meteorological data and EPIP-EPP-08 and/or EPIP-EPP-20 to determine PAR's. PAR's made to evacuate ERPA's 1, 2, 3, 26, and 27 and shelter all remaining ERPA's **Pass/Fail**

**RECORD TASK 2 CRITICAL  
STOP TIME \_\_\_\_\_**

**Terminating Cue: The event is classified as a General Emergency and PAR's are made.**

**RECORD STOP TIME \_\_\_\_\_**

## Initial Conditions:

1. The plant is under accident conditions.
2. A Site Area Emergency has been declared based on plant conditions.
3. The Chemistry Technician has reported the following release data:
  - Dose assessment for ground level release rate is 58 Curies per second (Ci/second)
  - Dose assessment for elevated level release rate is 502 Ci/second.
  - Wind speed is 8 mph
  - Wind direction is from the East South East (150°)
  - Pascal Stability Class is E

## Initiating Cues:

“(Operator’s name), Take the required actions as the Emergency Director.”

Facility: <u>Nine Mile Point # 1</u>		Date of Examination: <u>09/30/2002</u>
Examination Level (circle one): <b>RO</b>		Operating Test Number: <u>Cat A Test B</u>
Administrative Topic/Subject Description		Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions
A.1	Plant Startup Activities	2.1.7,2.1.20 JPM -- RPV Level Verification.  Reference: N1-OP-43A
A.1	Conduct of Operations	2.1.1,2.1.3 Q.1. You are a licensed reactor operator and just returned to the station from a three-month (January-March of this year) assignment at INPO in Atlanta. Your last stood watch on December 1 of last year.  What requirements must be met before you assume the shift as CSO? References: S-ODP-TQS-0101
		2.1.1, 2.1.2 Q.2. Given the following: <ul style="list-style-type: none"> <li>• This is Day 2 of your 4-Day rotation (12-hour days).</li> <li>• During your shift, a complex evolution is started but can not be completed.</li> <li>• As the ATC RO you are requested to stay over two hours to complete the evolution.</li> </ul> What are the administrative requirement(s) to allow you to complete this evolution? References: GAP-FFD-02 Section 3.3.2
A.2	Equipment Control	2.2.13 JPM -- Develop a Clearance Boundary References: GAPS-OPS-02, C-18016-C

A.3	ALARA	<p>2.3.2</p> <p>Q.1. Given the following:</p> <ul style="list-style-type: none"> <li>• A Cleanup System Pump seal failure has resulted in isolation of the system.</li> <li>• A RWP has been developed to allow inspection and local isolation of the pump.</li> <li>• The ALARA review indicates an estimated exposure of 1.5 REM.</li> <li>• The required ALARA reviews and pre-job briefing are completed prior to entry.</li> <li>• Upon completion of the local isolation, the total job exposure is 2.5 REM due to difficulty closing an isolation valve.</li> </ul> <p>What additional ALARA actions, if any, are required for this situation?</p> <p>References: S-RAP-ALA-0102</p>
A.3	Radiation Work Permit	<p>2.3.10</p> <p>Q.2 The plant is at rated power, with the following:</p> <ul style="list-style-type: none"> <li>• TIP traces are in progress for LPRM calibration</li> <li>• As TIP detector #3 is being withdrawn from the core, the drive mechanism fails with the detector in the TIP Room but not yet in its chamber shield</li> <li>• The SSS has directed that the detector be withdrawn to the chamber shield using the manual handcrank, if possible</li> <li>• The SSS has determined that no emergency or urgent operational conditions exist, and has directed a brief entry into the TIP Room to ensure no mechanical interference exists in the associated TIP drive tube.</li> <li>• Inner TIP Room Area Radiation Monitors are in an alarmed condition <ul style="list-style-type: none"> <li>a. What individual(s) is(are) responsible for approving entry into the TIP Room?</li> <li>b. Identify locations where the operator can get a key that will grant access to the TIP Room, during emergency and non-emergency conditions?</li> </ul> </li> </ul> <p>References: GAP-RPP-08 Sections 3.2, 3.3, and 3.5; GAP-RPP-02 Section 3.7</p>
A.4	Emergency Plan	<p>2.4.29</p> <p>JPM - Contaminated Injured Worker requiring transport to Oswego Hospital.</p> <p>References: EPIP-EPP-04</p>

NINE MILE POINT NUCLEAR STATION  
OPERATOR JOB PERFORMANCE MEASURE

Title: RPV Level Verification

Revision: 0

Task Number:

Approvals:

Ron Thurson 1 8/21/02  
General Supervisor Date  
Operations Training (Designee)

NA /  
General Supervisor Date  
Operations (Designee)

NA EXAM SECURITY /  
Configuration Control Date

Performer: \_\_\_\_\_ (RO)

Trainer/Evaluator: \_\_\_\_\_

Evaluation Method:  Perform  Simulate

Evaluation Location:  Plant  Simulator

Expected Completion Time: 15 min. Time Critical Task: No Alternate Path Task:  
No

Start Time: \_\_\_\_\_ Stop Time: \_\_\_\_\_ Completion Time: \_\_\_\_\_

JPM Overall Rating: Pass Fail

NOTE: A JPM overall rating of fail shall be given if any critical step is graded as fail. Any grade of unsat or individual competency area unsat requires a comment.

Comments:

Evaluators Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Recommended Start Location: (Completion time based on the start location)  
Any designated site.

Simulator Set-up (if required):  
None

Directions to the Instructor/Evaluator:

Prior to performance of this JPM, obtain SSS / CSO general permission to open equipment cabinets and inspection covers. If opening the equipment cabinet or inspection cover will affect Tech. Spec. Operability, operational status, or the effects are unknown, obtain specific SSS / CSO permission.

Directions to Operators:

Read Before Every JPM Performance:

For the performance of this JPM, I will function as the SSS, CSO, and Auxiliary Operators. Prior to providing direction to perform this task, I will provide you with the initial conditions and answer any questions. During task performance, I will identify the steps to be simulated, or discuss and provide cues as necessary.

With the exception of accessing panels, NO plant equipment will be physically manipulated. Repositioning of devices will be simulated by discussion and acknowledged by my cues.

Read Before Each Evaluated JPM Performance:

This evaluated JPM is a measure of your ability to perform this task independently. The Control Room Supervisor has determined that a verifier is not available and that additional / concurrent verification will not be provided; therefore, it should not be requested.

Read Before Each Training JPM Performance:

During this Training JPM, applicable methods of verification are expected to be used. Therefore, either another individual or I will act as the independent/peer verifier.

Notes to Instructor / Evaluator:

1. Critical steps are identified in grading areas as **Pass/Fail**. All steps are sequenced critical unless denoted by a "•".
2. During Evaluated JPM:
  - Self verification shall be demonstrated.
3. During Training JPM:
  - Self verification shall be demonstrated.
  - No other verification shall be demonstrated.

References:

1. N1-OP-43A
2. NUREG K/A General Knowledges and Abilities 2.1.7 (3.7)/2.1.20 (4.3)

Tools and Equipment:

1. None

Task Standard:

Verify RPV level indications during startup.

Initial Conditions:

1. A plant startup is in progress following refueling.
2. RPV Level Instrumentation Backfill has been removed from service at 0800 today.
3. 28.1-02, BV-REF LEG FILL 1 / 2 FLTRS-HDR INLET is closed.
4. At 1200 today the following computer point indications are observed:
  - Computer Point D377 Reactor Water Lvl (11) is indicating 72 inches.
  - Computer Point D378 Reactor Water Lvl (12) is indicating 78 inches.

Initiating Cues:

1. “(Operator’s name), determine operability of RPV water level instruments and inform the SSS of your determination.”

Performance Steps	Standard	Grade
1. Provide repeat back of initiating cue. <i>Evaluator Acknowledge repeat back providing correction if necessary</i>	Proper communications used for repeat back (GAP-OPS-01/Operations Manual)	Sat/Unsat

**RECORD START TIME \_\_\_\_\_**

2. Obtain a copy of the reference procedure and review/utilize the correct section of the procedure.	<b>N1-OP-43A</b> is obtained.  Step 1.31 and Attachment 10 are identified as correct steps.	Sat/Unsat  Sat/Unsat
3. Determines that Attachment 10 requires completion.	<ul style="list-style-type: none"> <li>• Reviews Step 1.31 and executes step 1.31.3 to complete Attachment 10.</li> </ul>	Sat/Unsat

**CUE: When Attachment 10 is identified as requiring completion hand candidate the marked up Attachment 10.**

4. Determines the RPV Level Mismatch.	• Records Time as 1200.	Sat/Unsat
	• Records Computer Point D377 as 72 inches.	Sat/Unsat
	• Records Computer Point D378 as 78 inches.	Sat/Unsat
	• Calculates Deviation D378 – D377 as 6 inches.	<b>Pass/Fail</b>
	• Determines Mismatch between original deviation and current deviation as 5 inches.	<b>Pass/Fail</b>
	• Determines Mismatch is > 4 inches and UNSAT.	<b>Pass/Fail</b>

Performance Steps	Standard	Grade
5. Determines ADS, HPCI, and FZWL must be declared inoperable.	Reviews Note 3 of Attachment 10 and determines that ADS, HPCI, and FZWL must be declared inoperable.	<b>Pass/Fail</b>
6. Informs SSS of results of RPV Level Verification..	Informs SSS that RPV Level Verification is Unsat and LCOs for ADS, HPCI, and FZWL must be entered	Sat/Unsat

**CUE:** As the SSS acknowledge the results of the RPV Level Verification and required LCO entries.

**Terminating Cue:** Completed N1-OP-43A Attachment 10 RPV Level Verification and informed SSS of required entries into LCOs for ADS, HPCI and FZWL.

**RECORD STOP TIME** \_\_\_\_\_

### Initial Conditions:

1. A plant startup is in progress following refueling.
2. RPV Level Instrumentation Backfill has been removed from service at 0800 today.
3. 28.1-02, BV-REF LEG FILL 1 / 2 FLTRS-HDR INLET is closed.
4. At 1200 today the following computer point indications are observed:
  - Computer Point D377 Reactor Water Lvl (11) is indicating 72 inches.
  - Computer Point D378 Reactor Water Lvl (12) is indicating 78 inches.

### Initiating Cues:

1. “(Operator’s name), determine operability of RPV water level instruments and inform the SSS of your determination.”

<b>Nine Mile Point 1 Category "A" - Examination Outline Cross Reference</b>	
Operating Test Number	Cat "A" Test: B
Examination Level	RO
Administrative Topic	A.1
Subject Description:	Conduct of Operations
Question Number:	1

<b>Question:</b>	
<p>You are a licensed reactor operator and have just returned to the station from a three-month (January-March of this year) assignment at INPO in Atlanta. You last stood watch on December 1 of last year.</p> <p>What requirements must be met before you may assume the shift as the CSO?</p>	
<b>SAT</b>	<b>UNSAT</b>

<b>Answer:</b>	
<p><b>Step 3.9</b>, Inactive License Holders, of the S-ODP-TQS-0101 <b>Administrative Controls for Maintaining Active License Status at Nine Mile Point</b>, states "Inactive license holders shall be certified by the Manager Operations to have met the conditions of 10 CFR55.53(f) by a License Reactivation Form Attachment 4"</p> <ul style="list-style-type: none"> <li>• Qualification and status of the license of licensee are current: <ul style="list-style-type: none"> <li>– Meet requalification-training requirements per NTP-TQS-102.</li> <li>– Be currently trained on use SCBA.</li> <li>– Have a current SCBA fit test on file.</li> <li>– Have a current Scott Full Face fit test on file.</li> <li>– Have a current NRC-396 on file (NRC Medical examination)</li> <li>– Have a current respiratory physical examination on file.</li> <li>– Have corrective lenses available for use in Scott Air Paks.</li> <li>– Logged in SSS log.</li> </ul> </li> <li>• A minimum of 40 hours of shift functions under the direction of an operator in the position to which the operator will be assigned is completed. The 40 hours must include a complete tour of the plant AND review of all shift turnover procedures. The 40 hours shall be in the same calendar quarter.</li> </ul>	

<b>Technical Reference(s):</b>
S-ODP-TQS-0101

<b>K/A #:</b>	<b>Importance:</b>
2.1.1	3.7
2.1.3	3.0

<b>Comments:</b>

Nine Mile Point 1 Category "A" - Examination Outline Cross Reference	
Operating Test Number	Cat "A" Test: B
Examination Level	RO
Administrative Topic	A.1
Subject Description:	Control Of Working Hours
Question Number:	2

Question:
<p>Given the following:</p> <ul style="list-style-type: none"> <li>• This is Day 2 of your 4-Day rotation (12-hour days).</li> <li>• During your shift, a complex evolution is started but can not be completed.</li> <li>• As the ATC RO you are requested to stay over two hours to complete the evolution.</li> </ul> <p>What are the administrative requirement(s) to allow you to complete this evolution?</p>
<p><b>SAT                      UNSAT</b></p>

Answer:
<p>An Overtime Deviation Request form would have to be filled out and approved to allow completion of the assignment because 24 hours in any 48 hour period would be exceeded.</p> <p><b>Step 3.2.1 of GAP-FFD-02, Control of Working Hours</b>, states "Individuals identified in Section 1.1 should not be permitted to work, excluding shift turnover time and non-working lunch breaks, more than:</p> <ul style="list-style-type: none"> <li>• 16 hours straight</li> <li>• 16 hours in any 24 hour period</li> <li>• 24 hours in any 48 hour period</li> <li>• 72 hours in any 7 day period.</li> </ul>

Technical Reference(s):	
GAP-FFD-02, Section 3.3.2	
K/A #:	Importance:
2.1.1	3.7
2.1.2	3.0

Comments:

NINE MILE POINT NUCLEAR STATION  
OPERATOR JOB PERFORMANCE MEASURE

Title: Develop a Clearance Boundary CRD Pump 11 Oil Coolers Cooling Water Relief Valve  
Revision: 0

Task Number: 299-902-03-50-3-00 -- Developing Clearance Boundaries

Approvals:

*[Signature]* 19/13/02  
General Supervisor Date  
Operations Training (Designee)

NA EXAM SECURITY 1  
General Supervisor Date  
Operations (Designee)

NA EXAM SECURITY 1  
Configuration Control Date

Performer: \_\_\_\_\_ (RO)

Trainer/Evaluator: \_\_\_\_\_

Evaluation Method:  Perform  Simulate

Evaluation Location:  Plant  Simulator

Expected Completion Time: 15 min. Time Critical Task: No Alternate Path Task: No

Start Time: \_\_\_\_\_ Stop Time: \_\_\_\_\_ Completion Time: \_\_\_\_\_

JPM Overall Rating: Pass Fail

NOTE: A JPM overall rating of fail shall be given if any critical step is graded as fail. Any grade of unsat or individual competency area unsat requires a comment.

Comments:

Evaluators Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Recommended Start Location: (Completion time based on the start location)  
Main Control Room or other designated site.

Simulator Set-up (if required):  
None

Directions to the Instructor/Evaluator:

Prior to performance of this JPM, obtain SSS / CSO general permission to open equipment cabinets and inspection covers. If opening the equipment cabinet or inspection cover will affect Tech. Spec. Operability, operational status, or the effects are unknown, obtain specific SSS / CSO permission.

Directions to Operators:

Read Before Every JPM Performance:

For the performance of this JPM, I will function as the SSS, CSO, and Auxiliary Operators. Prior to providing direction to perform this task, I will provide you with the initial conditions and answer any questions. During task performance, I will identify the steps to be simulated, or discuss and provide cues as necessary.

With the exception of accessing panels, NO plant equipment will be physically manipulated. Repositioning of devices will be simulated by discussion and acknowledged by my cues.

Read Before Each Evaluated JPM Performance:

This evaluated JPM is a measure of your ability to perform this task independently. The Control Room Supervisor has determined that a verifier is not available and that additional / concurrent verification will not be provided; therefore, it should not be requested.

Read Before Each Training JPM Performance:

During this Training JPM, applicable methods of verification are expected to be used. Therefore, either another individual or I will act as the independent/peer verifier.

Notes to Instructor / Evaluator:

1. Critical steps are identified in grading areas as **Pass/Fail**. All steps are sequenced critical unless denoted by a "•".
2. During Evaluated JPM:
  - Self verification shall be demonstrated.
3. During Training JPM:
  - Self verification shall be demonstrated.
  - No other verification shall be demonstrated.

References:

1. GAP-OPS-02
2. C-18016C
3. NUREG K/A General Knowledges and Abilities 2.2.13 (3.6)/2.1.24 (2.8)

Tools and Equipment:

1. None

Task Standard:

Develop a Clearance boundary.

Initial Conditions:

1. The Plant is operating at 100%.
2. Maintenance has requested a Clearance be placed on 28-24 PSV-CRD PUMP 11 OIL COOLERS COOLING WATER RELIEF VALVE.
3. The SSS has just handed you the Clearance Request Form for this job.
4. CRD PUMP 11 is shut down and CRD PUMP 12 is operating.

Initiating Cues:

1. Provide candidate with Attachment 5, Clearance Request Form and Blank Tag List, Attachment 7
2. "(Operator's name), Develop a Clearance boundary for the requested Clearance on a Tag List."

Performance Steps	Standard	Grade
1. Provide repeat back of initiating cue. <i>Evaluator Acknowledge repeat back providing correction if necessary</i>	Proper communications used for repeat back (GAP-OPS-01/Operations Manual)	Sat/Unsat

**RECORD START TIME** \_\_\_\_\_

2. Obtain a copy of the reference procedure and review/utilize the correct section of the procedure.	<b>GAP-OPS-02</b> is obtained.	Sat/Unsat
	<b>C-18016-C</b> is referenced	Sat/Unsat
•3. Indicate power supplies needed for Clearance boundary.	• Includes 28-15 control switch CRD pump 11 (Reference Tag)	Sat/Unsat
	• Includes 28-15 CLOSE FUSE installed in OFF position.	<b>Pass/Fail</b>
	• 28-15 MTR BKR -11 CRD PMP breaker in DISCONNECT.	<b>Pass/Fail</b>
	• 28-15 TRIP FUSE installed in OFF position.	<b>Pass/Fail</b>

Performance Steps	Standard	Grade
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•4. Indicate valves needed for Clearance boundary.

- Includes 53-17 CRD-27 BV-11 CRD Pump Suction closed.
- Includes 28-31 CRD-1 STOP CK – 11 CRD PUMP DISCHARGE TO CRD SYS closed.
- Includes 28.1-38 CRD-45 BV-GEMAC REF LEG FILL FROM 11 CRD PMP closed.
- 53-26 CRD-3 STOP CK-11 CRD PUMP MIN FLOW RECIRC TO CST closed.
- Includes 53-18 CRD-73B BV-11 CRD PUMP BRG & OIL CLG WATER RETURN (Note: 73A and 75B may be used in lieu of 73B)
- Includes 28-06 VENT 11 CRD PUMP open, 28-07 VENT 11 CRD PUMP open.
- CRD Pump 11 Casing Drain removed.

Pass/Fail  
Pass/Fail  
Pass/Fail  
Pass/Fail  
Pass/Fail  
Pass/Fail  
Sat/Unsat

NOTE: Since the Pump Casing Drain is not indicated on the print the operator may elect to place a NOTE on the Clearance indicating the system is not drained in lieu of the casing drain being listed.

**CUE: If SSS permission is requested to use TCV 28-23 as an isolation boundary, permission is DENIED.**

5. Return the Tag List Attachment 7 to the SSS.

Returns Attachment 7 to the SSS.

Sat/Unsat

**CUE: As the SSS acknowledge the receipt of the Tag List.**

**Terminating Cue: Completed GAP-OPS-02 Tag List, Attachment 7 is returned to the SSS.**

**RECORD STOP TIME \_\_\_\_\_**

### Initial Conditions:

1. The Plant is operating at 100%.
2. Maintenance has requested a Clearance be placed on CRD Pump 11 Oil Coolers Cooling Water Relief Valve 28-24 PSV.
3. The SSS has just handed you the Clearance Request Form for this job.
4. CRD Pump 11 is secured and CRD Pump 12 is in service.

### Initiating Cues:

1. Provide candidate with Attachment 5, Clearance Request Form and Blank Tag List, Attachment 7
2. “(Operator’s name), Develop a Clearance boundary for the requested Clearance on a Tag List.”

ATTACHMENT 5: CLEARANCE REQUEST FORM

CLEARANCE REQUEST FORM			
Unit <u>_1_</u>			
Date of Request <u>TODAY</u>			
Type of Clearance <input checked="" type="checkbox"/> Danger			
<input type="checkbox"/> Operating Permit			
<input type="checkbox"/> Caution			
Equipment and System to be Cleared: <u>28-24 PSV- Control Rod Drive Pump Oil Coolers Cooling Water Relief Valve</u>			
Work Controlling Document No./Description of Work: <u>Clearance is required to perform PM on CRD Pump 11 Oil Coolers Cooling Water Relief Valve. This is scheduled preventive maintenance.</u>			
Suggested Clearance Tagging Points (Not Required):			
_____			
_____			
Hazards Associated with the Work to be Performed: _____			
Potential Adverse Effects: _____			
_____			
Other Systems Affected: _____			
_____			
Grounds Required:      YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
Starting Time <u>08:00</u>		Date <u>TOMORROW</u>	Duration <u>24 hours</u>
Reference Drawings(s) _____			
Clearance to be held by: <u>Jay Lawrence</u>		<u>1234</u>	
Name(s)		Phone(s)	
Requester/Planner: <u>Jay Lawrence</u>		<u>1234</u>	
Name		Phone	
Recommended Clearance Boundary: _____			
Operations Review: _____			
Name		Date	
Clearance No. _____		Assigned by _____	
		Initial	Date



<b>Nine Mile Point 1</b>	
<b>Category "A" - Examination Outline Cross Reference</b>	
Operating Test Number	Cat "A" Test: B
Examination Level	RO
Administrative Topic	A.3
Subject Description:	ALARA
Question Number:	1

<b>Question:</b>
<p>Given the following:</p> <ul style="list-style-type: none"> <li>• A Cleanup System Pump Seal failure has resulted in isolating the system.</li> <li>• A RWP has been developed to allow inspection and local isolation of the pump.</li> <li>• The ALARA review indicates an estimated exposure of 1.5 REM.</li> <li>• The required ALARA reviews and pre-job briefing are completed prior to entry.</li> <li>• Upon completion of the local isolation, the total job exposure is 2.5 REM due to difficulty closing an isolation valve.</li> </ul> <p>What additional ALARA actions, if any, are required for this situation?</p>
<p style="text-align: center;"><b>SAT                      UNSAT</b></p>

<b>Answer:</b>
<p><b>Step 3.5.1.b</b> of S-RAP-ALA-0102, ALARA REVIEWS, requires a post job ALARA review on jobs that exceed the estimate exposure by 1.5. The total exposure for this job is greater than 1.5 times the estimate (<math>1.5 \times 1.5 = 2.25</math>) and a post job ALARA review is required.</p>

<b>Technical Reference(s):</b>
S-RAP-ALA-0102

<b>K/A #:</b>	<b>Importance:</b>
2.3.2	2.5

<b>Comments:</b>
Referring to Attachment 10, a DER is <u>not</u> necessary since total exposure is < 5REM.

<b>Nine Mile Point 1 Category "A" - Examination Outline Cross Reference</b>	
Operating Test Number	Cat "A" Test: B
Examination Level	RO
Administrative Topic	A.3
Subject Description:	Radiation Work Permit
Question Number:	2

<b>Question:</b>	
<p>The plant is at rated power, with the following:</p> <ul style="list-style-type: none"> <li>• TIP traces are in progress for LPRM calibration</li> <li>• As TIP detector #3 is being withdrawn from the core, the drive mechanism fails with the detector in the TIP Room but not yet in its chamber shield</li> <li>• The SSS has directed that the detector be withdrawn to the chamber shield using the manual handcrank, if possible</li> <li>• The SSS has determined that no emergency or urgent operational condition exist, and has directed a brief entry into the TIP Room to ensure no mechanical interference exists in the associated TIP drive tube</li> <li>• Inner TIP Room Area Radiation Monitors are in an alarmed condition</li> </ul> <p>a. What individual(s) is(are) responsible for approving entry into the TIP Room?</p> <p>b. Identify locations where the operator can get a key that will grant access to the TIP Room, during emergency and non-emergency conditions?</p>	
<b>SAT</b>	<b>UNSAT</b>

<b>Answer:</b>	
a.	For the conditions given, the <u>SSS and RP Supervision</u> must approve entry into the TIP Room.
b.	Because no emergency exists, the operator must obtain the key from the Radiation Protection Department. During emergency conditions, SSS may authorize use of the master keys in the "break-to-enter" key box located in the Control Room.

<b>Technical Reference(s):</b>
GAP-RPP-08 Sections 3.2, 3.3, and 3.5; GAP-RPP-02 Section 3.7

<b>K/A #:</b>	<b>Importance:</b>
2.3.10	2.9

<b>Comments:</b>

NINE MILE POINT NUCLEAR STATION  
OPERATOR JOB PERFORMANCE MEASURE

*WAS Not on the Exam*

Title: Medical Emergency (CSO Actions)  
Contaminated Injured Worker Requiring Transport to Oswego Hospital

Revision: 0

Task Number:

Approvals:

*Ray Thurman* *1 8/21/02*  
General Supervisor Date  
Operations Training (Designee)

*NA* *1*  
General Supervisor Date  
Operations (Designee)

*NA EXAM SECURITY* *1*  
Configuration Control Date

Performer: \_\_\_\_\_ (RO)

Trainer/Evaluator: \_\_\_\_\_

Evaluation Method:  X  Perform \_\_\_\_\_ Simulate

Evaluation Location: \_\_\_\_\_ Plant \_\_\_\_\_ Simulator

Expected Completion Time: 10 min Time Critical Task: NO Alternate Path Task: NO

Start Time: \_\_\_\_\_ Stop Time: \_\_\_\_\_ Completion Time: \_\_\_\_\_

JPM Overall Rating: Pass Fail

**NOTE:** A JPM overall rating of fail shall be given if any critical step is graded as fail. Any grade of unsat or individual competency area unsat requires a comment.

Comments:

Evaluators Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Recommended Start Location: (Completion time based on the start location)

Main Control Room or any other appropriate location with proper references.

Simulator Set-up (if required):

None

Directions to the Instructor/Evaluator:

Prior to performance of this JPM, obtain SSS / CSO general permission to open equipment cabinets and inspection covers. If opening the equipment cabinet or inspection cover will affect Tech. Spec. Operability, operational status, or the effects are unknown, obtain specific SSS / CSO permission.

Directions to Operators:

Read Before Every JPM Performance:

For the performance of this JPM, I will function as the SSS, CSO, and Auxiliary Operators. Prior to providing direction to perform this task, I will provide you with the initial conditions and answer any questions. During task performance, I will identify the steps to be simulated, or discuss and provide cues as necessary.

With the exception of accessing panels, NO plant equipment will be physically manipulated. Repositioning of devices will be simulated by discussion and acknowledged by my cues.

Read Before Each Evaluated JPM Performance:

This evaluated JPM is a measure of your ability to perform this task independently. The Control Room Supervisor has determined that a verifier is not available and that additional / concurrent verification will not be provided; therefore, it should not be requested.

Read Before Each Training JPM Performance:

During this Training JPM, applicable methods of verification are expected to be used. Therefore, either another individual or I will act as the independent/peer verifier.

Notes to Instructor / Evaluator:

1. Critical steps are identified in grading areas **Pass/Fail**. All steps are sequenced critical unless denoted by a "•".
2. During Evaluated JPM:
  - Self verification shall be demonstrated.
3. During Training JPM:
  - Self verification shall be demonstrated.
  - No other verification shall be demonstrated.

References:

1. EPIP-EPP-04, Personnel Injury Or Illness

Tools and Equipment:

None

Task Standard:

Performs the CSO actions of EPIP-EPP-04 including the CSO Checklist for a medical emergency in response to a contaminated injured worker requiring medical attention and transport to a medical facility.

Initial Conditions:

1. You are the CSO.
2. The unit is in a refueling outage with fuel movements in progress.
3. The Fuel Handling SRO notifies you that an operator fell about 3 feet from the refueling bridge to the floor.
4. The injured worker is currently unconscious, has a compound fracture of leg right leg, and is bleeding from the head.

Initiating Cues:

“(Operator’s name), Perform required CSO actions for this event.”

Performance Steps	Standard	Grade
1. Provide repeat back of initiating cue. <i>Evaluator Acknowledge repeat back providing correction if necessary.</i>	Proper communications used for repeat back (GAP-OPS-O1/Operations Manual)	Sat/Unsat

**RECORD START TIME** \_\_\_\_\_

2. Obtains a copy of the reference procedure and reviews/utilizes the correct section of the procedure.	Obtains EPIP-EPP-04. References Section 3.1 and Attachment 1, CSO Medical Emergency Checklist.	Sat/Unsat
3. Fills out top two sections of CSO Medical Emergency Checklist.	<ul style="list-style-type: none"> <li>• Enters “NAME”, “DATE”, checks the “UNIT 1” block, “TIME OF NOTIFICATION” and “LOCATION OF MEDICAL EMERGENCY” (Refuel Floor).</li> </ul>	Sat/Unsat

**NOTE:** During the performance of this JPM, if the candidate makes emergency announcements using the GAItronics, the GAItronics must always be placed in the Merge Mode.

4. Performs Step 1 of CSO Medical Emergency Checklist.	<ul style="list-style-type: none"> <li>• Notifies Fire Brigade by phone, radio, <u>OR</u> GAItronics to request response.</li> <li>• Checks the “COMPLETE” block.</li> </ul>	<b>Pass/Fail</b>
5. Performs Step 2 of CSO Medical Emergency Checklist.	<ul style="list-style-type: none"> <li>• Notifies SSS of medical emergency.</li> <li>• Checks the “COMPLETE” block.</li> </ul>	<b>Pass/Fail</b>

Cue: Acknowledge the report as SSS.

Performance Steps	Standard	Grade
Cue: As the Fire Brigade Leader, report that the Fire Brigade is at the scene. Report that the worker is contaminated Request RP and medical assistance. Request an ambulance, and have the hospital setup the Radiation Emergency Area (REA).		
6. Performs Step 3.A of CSO Medical Emergency Checklist.	<ul style="list-style-type: none"> <li>• Contacts RP and directs them to report to the Refuel Floor</li> <li>• Checks the "COMPLETE" block</li> </ul>	<b>Pass/Fail</b>
Cue: As Radiation Protection, acknowledge direction to report to Refuel Floor.		
7. Performs Step 3.B.1 of CSO Medical Emergency Checklist.	<ul style="list-style-type: none"> <li>• Contacts Oswego County 911 Center using phone at 343-1313 and requests an ambulance be sent to the Nine Mile Point Unit 2 Security Access</li> <li>• Notifies Oswego County 911 Center that injured person is potentially contaminated</li> <li>• Checks the "COMPLETE" block</li> </ul>	<b>Pass/Fail</b>
Cue: As Oswego County 911 Center acknowledge the request/report		
8. Performs Step 3.B.2 of CSO Medical Emergency Checklist.	<ul style="list-style-type: none"> <li>• Contacts Site Security Supervisor and requests a security force member be sent to the Refuel Floor, and provides information relative to pending arrival of ambulance.</li> <li>• Checks the "COMPLETE" block.</li> </ul>	<b>Pass/Fail</b>
Cue: As Site Security Supervisor, acknowledge request/report.		
9. Performs Step 3.B.3 of CSO Medical Emergency Checklist.	<ul style="list-style-type: none"> <li>• Contacts Oswego Hospital using phone at 349-5522.</li> <li>• Checks the "COMPLETE" block.</li> <li>• Informs Oswego Hospital that there is one patient.</li> <li>• Checks the "COMPLETE" block.</li> <li>• Requests Oswego Hospital setup an REA</li> <li>• Checks the "COMPLETE" block.</li> </ul>	<b>Pass/Fail</b>
Cue: Role-play as Oswego Hospital and request status of patient.	<ul style="list-style-type: none"> <li>• When requested, informs Oswego Hospital that patient is currently unconscious, has a compound fracture of leg right leg, and is bleeding from the head.</li> </ul>	<b>Sat/Unsat</b>
Cue: Role-play as Oswego Hospital and request that RP accompany patient to the hospital.	<ul style="list-style-type: none"> <li>• Acknowledges Oswego Hospital request for RP to accompany patient to hospital.</li> </ul>	
10. Performs Step 3.C of CSO Medical Emergency Checklist.	<ul style="list-style-type: none"> <li>• Contacts Medical Department by phone, radio, <u>OR</u> GAItronics.</li> <li>• Checks the "COMPLETE" block.</li> </ul>	<b>Pass/Fail</b>

Performance Steps	Standard	Grade
Cue: As Medical Department, acknowledge request.		
11. Performs Step 3.D of CSO Medical Emergency Checklist.	<ul style="list-style-type: none"> <li>Determines NMPC vehicle will <u>NOT</u> be needed (ambulance is on the way).</li> <li>Checks the "N/A" block.</li> </ul>	<b>Pass/Fail</b>
12. Performs Step 3.E of CSO Medical Emergency Checklist.	<ul style="list-style-type: none"> <li>Requests the SSS contact the RP on-call supervisor and request that RP supervision and an RP Technician report to the hospital.</li> <li>Checks the "COMPLETE" block.</li> </ul>	<b>Pass/Fail</b>
Cue: Acknowledge the request as SSS.		
Cue: Inform CSO that RP on-call supervisor has been contacted.		
13. Performs Step 3.F of CSO Medical Emergency Checklist.	<ul style="list-style-type: none"> <li>Directs Site Security Supervisor to contact Manager, Nuclear Communications and Public Affairs and provide details of the incident.</li> <li>Checks the "COMPLETE" block.</li> </ul>	<b>Pass/Fail</b>
Cue: As Site Security Supervisor, acknowledge the direction.		
Cue: As the Fire Brigade Leader, report that the worker is in the ambulance with RP and the ambulance has left the protected area.		
14. Performs Step 3.G of CSO Medical Emergency Checklist.	<ul style="list-style-type: none"> <li>Informs the SSS that the medical emergency has been terminated,</li> <li>Checks the "COMPLETE" block.</li> </ul>	<b>Pass/Fail</b>
Cue: Acknowledge the report as SSS.		

**Terminating Cue: Completion of CSO Medical Emergency Checklist.**

**RECORD STOP TIME** \_\_\_\_\_

Initial Conditions:

1. You are the CSO.
2. The unit is in a refueling outage with fuel movements in progress.
3. The Fuel Handling SRO notifies you that an operator fell about 3 feet from the refueling bridge to the floor.
4. The injured worker is currently unconscious, has a compound fracture of leg right leg, and is bleeding from the head.

Initiating Cues:

“(Operator’s name), Perform required CSO actions for this event.”