P.O. Box 63
Lycoming, New York 13093

Constellation Energy Group

Nine Mile Point
Nuclear Station

NMP-97939

August 21, 2002

rec'd 8/23/02

Mr. Hubert J. Miller
Regional Administrator
USNRC Region I
475 Allendale Road
King of Prussia, PA 19406

ATTENTION: Mr. John Caruso

SUBJECT: NINE MILE POINT UNIT 1 INITIAL OPERATOR ADMINISTRATIVE TOPICS EXAMINATION SUBMITTAL

Mr. Miller:

In response to the NRC Corporate Notification Letter dated June 4, 2002, arrangements were made for the administration of licensing examinations at Nine Mile Point, Unit 1 during the week of September 30, 2002. The examinations are being prepared based on the guidelines in Revision 8, Supplement 1, of NUREG 1021, "Operator Licensing Examination Standards for Power Reactors." To meet the examination schedule, Nine Mile Point Nuclear Station is required to furnish the examination for review and approval. Enclosed are the examination, test items, outlines and quality checklists for the Category A Topics.

Please withhold these examination materials from public disclosure until after the examinations have been completed.

If you have any questions regarding the examination outline submittal, please contact Mr. Jerry Bobka (Facility Contact) at 315-349-2569 or Mr. Ron Thurow (General Supervisor of Operations Training) at 315-349-1182.

Sincerely,

Dwight L. Perry for L. Pisano

Louis E. Pisano
Manager Nuclear Training

LEP/crr

Cat A Admin Exam	From Original Outline Submittal	To Submitted With Exam Material (Initial)	Reason/Justification	Modification Initiated By
SRO Exam A	**A.1.1 JPM**	**A.1.1 JPM**	Two questions submitted vice a JPM. Utilized JPM from SRO B Exam.	NRC/Plant Staff
	A.1.2 JPM	**A.1.2 JPM**	Replaced JPM based on operations validation identified no significant decisions were required.	Plant Staff
	A.3 Q.1	**A.3 Q.1**	Environmental release question submitted, revised to reflect a radiological release.	Plant Staff
	A.3 Q.2	**A.3 Q.2**	Question too similar to B exam. Used same KA but shifted focus to an emergency entry.	NRC/Plant Staff
	A.4 JPM	**A.4 JPM**	Added PAR to classification.	NRC
RO B Exam	**A.1 Q1 and Q2**	**A.1 JPM**	Questions to close to A exam. Added one JPM.	NRC
	A.1 Q3	**A.1 Q3**	Scram report covered by operating exam. Replaced with another question.	NRC
	A.1 Q4	**A.1 Q.4**	Question too similar to RO A Q4; replaced.	Plant Staff
	A.2 Q1 and Q2	**A.2 JPM**	Original questions were potential overlap with SRO A JPM A.2; replaced with clearance JPM.	Plant Staff
	A.3 Q.1	**A.3 Q.1**	Original question was GET level knowledge replaced with higher cognitive question.	NRC
	A.3 Q.2	**A.3 Q.2**	Too close to SRO A test item; SRO A test item modified.	NRC

Cat A Admin Exam	From Original Outline Submittal	To Submitted With Exam Material (Initial)	Reason/Justification	Modification Initiated By
SRO B Exam	**A.1 JPM**	**A.1 JPM**	JPM too similar to A exam, new JPM submitted.	NRC
	A.1 JPM	**A.1 JPM**	JPM too similar to A exam, new JPM submitted.	NRC
	A.2 JPM	**A.2 JPM**	JPM too similar to A exam, new JPM submitted.	NRC
	A.3 Q.1 and Q.2	**A.3 Q.1 and Q.2**	Too similar to A exam questions. Question 1 modified and Q.2 replaced.	NRC
	A.4 JPM	**A.4 JPM**	Added PARs.	NRC

The following is a summary of changes made during exam development. These changes resulted in modifications to the submitted outlines.

Nine Mile Point Unit 1 Outline Changes				
Cat A Admin Exam	**From Original Outline Submittal**	**To Submitted With Exam Material (Initial)**	**Reason/Justification**	**Modification Initiated By**
RO Exam A	**A.1 Q.1**	**A.1 Q.1**	Questions were leading and too easy. Modified questions kept same KA	Plant Staff
	A.1 Q.2	**A.1 Q.2**	Question was low level of difficulty; new question submitted at higher cognitive level.	Plant Staff
	A.1. Q.3	**A.1 Q.3**	Exam item is same as original. Modified question to improve focus and solicit specific response.	Plant Staff
	A.1. Q.4	**A.1 Q4**	Exam item is the same as original. Question stem focus improved.	Plant Staff
	A.2 Q.1 and Q.2	**A.2 JPM**	Questions were leading. Converted question to JPM.	NRC/Plant Staff
	A.3 Q.1	**A.3 Q.1**	Similar question used on RO B exam. New question submitted.	Plant Staff
	A.3 Q.2	**A.3 Q.2**	No significant action required; replaced with different question same KA.	Plant Staff

Note: Must make sure A.3 & A.4 given same day as RO

Facility: Nine Mile Point # 1		Date of Examination: 09/30/2002
Examination Level (circle one): **SRO**		Operating Test Number: Cat A Test A
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: • The plant is operating at rated power. • Wind gusts of up to 90 mph have been reported. • Reactor Building differential pressure is positive. a. What are the required actions ~~for these~~ conditions? References: N1-EOP-5; N1-ARP-L1, window 3-4; N1-OP-10
A.3	Radiation Work Permit	2.3.10 Q.2. The plant has experienced an emergency, with the following: • Access to the RWCU Heat Exchanger Room s required to respond to the emergency. • A Radiation Work Permit is currently not available for the room. • RP Supervision is not available (back-shift) b. What are the requirement(s) for initial emergency entry into this area in lieu of an RWP? 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

? JPM A.3 RO "A" Exam

Same as RO "A"

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:

[signature]	/ 8/21/02	NA	/
General Supervisor Operations Training (Designee)	Date	General Supervisor Operations (Designee)	Date

NA EXAM SECURITY /

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 100% 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.

Initiating Cues:

"(Operator's name), determine the Reactivity Event Severity Level, if any and identify if a DER is required to be written due to this event."

Performance Steps	Standard	Grade
1. Provide repeat back of initiating cue. *Evaluator Acknowledge repeat back providing correction if necessary.*	Proper communications used for repeat back (GAP-OPS-O1/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
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".	**Pass/Fail**
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.	**Pass/Fail**

Terminating Cue: Severity Level 3 and DER required identified.

RECORD STOP TIME _____

Initial Conditions:

- The plant is at 100% 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.

Initiating Cues:

"(Operator's name), determine the Reactivity Event Severity Level, if any and identify if a DER is required to be written due to this event."

NINE MILE POINT NUCLEAR STATION

OPERATOR JOB PERFORMANCE MEASURE

Title: SRO actions for exceeding CDI Conductivity – Action Level 1 Revision: 0

Task Number:

Approvals:

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

NA General Supervisor Operations (Designee) / Date

NA EXAM SECURITY / Configuration Control Date

Performer:_____(SRO)

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)
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. *Evaluator Acknowledge repeat back providing correction if necessary*	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 1 is exceeded	Using the supplied Chemistry Analysis information and Enclosure 1; • Determines that Action Level 1 **HAS** been exceeded under Section III. • Determines that Action Level 3 **HAS NOT** been exceeded using the same section.	 **Pass/Fail** **Pass/Fail**
	Enters Section 3.2.1 of GAP-CHE-01.	Sat/Unsat
4. Performs appropriate Notifications.	Notifies the following personnel that CDI has exceeded **ACTION LEVEL 1**; • SSS • Chemistry Manager • Operations Manager • Plant Manager, **AND** • Engineering Services Branch Manager.	Sat/Unsat

Performance Steps	Standard	Grade
CUE: Role playing as the SSS and all the called Managers, acknowledge the Candidate's report of the CDI Conductivity exceeding Action Level 1.		
CUE: As the SSS, tell the Candidate that troubleshooting will begin to determine the cause.		

Terminating Cue: **An Action Level has been chosen and the appropriate notification for that level have been made.**

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."

ATTACHMENT 2
STATION WATER CHEMISTRY/SUMMARY SHEET

	CONDUCTIVITY µmhos/cm				Dissolved Oxygen ppb			Turbidity
			FLOW THRU					
	CR	SP	Uncorrected Cond./Temp	Corrected	CR	SP	Grab	JTU
CDI	0.090	0.125	0.271/31.7	0.155	40	20	25	0.100
CDO	0.057	0.060	0.0738/30.8	0.055			25	
MS	0.088	0.060						
FW	0.085	0.057	0.0978/36.3	0.060	38	25	—	0.089
CDI Acid			0.1455/45.1	0.00				
CDM 11			0.1687/49.8	0.057				
CDM 12			0.1698/49.9	0.060				
CDM 13			0.1681/49.7	0.056				
CDM 14			0.1666/48.7	0.055				
CDM 15			0.1666/49.5	0.060				
CDM 16			0.1627/48.9	0.056				
CST			0.0908/45.5	0.055				

COMMENTS

TECHNICIAN	DATE TODAY
SUPERVISOR	DATE TODAY

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

NA /
General Supervisor Operations (Designee) Date

NA EXAM SECURITY /
Configuration Control Date

Performer:_____(SRO)

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 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. 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. *Evaluator Acknowledge repeat back providing correction if necessary.*	Proper communications used for repeat back (GAP-OPS-O1/Operations Manual)	Sat/Unsat
RECORD START TIME _____		
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	(_) 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	(_) Unsat box checked.	**Pass/Fail**
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	(_) Sat box checked.	Sat/Unsat
8. Review in Step 10.2 data recorded in section 10.1 and check Unsatisfactory	(_) Unsatisfactory.	**Pass/Fail**

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.	**Pass/Fail**
CUE: 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: • Enter it in the ESL • Enter TS 3.1.2.a. • Make entry into SSS log • Place a yellow hold out on pump • Write a PID • Notify Manager Operations or designee	Actions identified	Sat/Unsat
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."

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:	Control Of Releases
Question Number:	1

Question:

Given the following:

- The plant is operating at rated power.
- Wind gusts of up to 90 mph have been reported.
- Reactor Building differential pressure is positive.

a. What are the required actions for these conditions?

SAT **UNSAT**

Answer:

a. The following actions are required:
   - Enter N1-EOP-5 and monitor Reactor Building differential pressure.
   - Verify ventilation system lineup.
   - Start RBEVS per N1-OP-10.

Technical Reference(s):

N1-EOP-5
N1-ARP-L1, window 3-4
N1-OP-10

K/A #:	Importance:
2.3.11	3.2

Comments:

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:

The plant has experienced an emergency, with the following:

- Access to the RWCU Heat Exchanger Room is required to respond to the emergency.
- A Radiation Work Permit is currently not available for the area.
- RP Supervision is not available (back-shift).

What are the requirement(s) for initial emergency entry into this area in lieu of an RWP?

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.

NINE MILE POINT NUCLEAR STATION

OPERATOR JOB PERFORMANCE MEASURE

Title: Emergency Classification With PARs Revision: 0

Task Number:

Approvals:

[signature] / 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: 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 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-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.

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
1. Provide repeat back of initiating cue. *Evaluator Acknowledge repeat back providing correction if necessary.*	Proper communications used for repeat back (GAP-OPS-O1/Operations Manual)	Sat/Unsat
RECORD START TIME _____		
2. Obtain a copy of the reference procedure and review/utilize the correct section of the procedure.	EAL Matrix obtained. Section 6.0 referenced. EPIP-EPP-08 Att. 1 referenced EPIP-EPP-20 Att. 1A referenced	Sat/Unsat
3. Review and complete EPIP-EPP-08 Attachment 1 Table 1.1 and Table 1.2 data for existing plant conditions.	Using given plant data, determine that a General Emergency exists based upon calculated total release (ground release + elevated release).	**Pass/Fail**
4. Review and complete EPIP-EPP-20 Attachment 1A, Part 1 – Notification Fact sheet.	Using the given plant data, complete the Part 1 – Notification Fact sheet with PARs to evacuate ERPAs 1, 2, 3, 26, and 27 and shelter remaining ERPAs	**Pass/Fail**

Terminating Cue: **Part 1 – Notification Fact sheet is completed for the General Emergency classification 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: Nine Mile Point # 1		Date of Examination: 09/30/2002
Examination Level (circle one): **SRO**		Operating Test Number: Cat A Test B
Administrative Topic/Subject Description		Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions
A.1	System Operability	2.1.12 JPM -- Given a failed LPRM determine the effect on APRM operability including any required actions. References: Tech Specs, N1-OP-38C
	Thermal Limits Evaluation	2.1.10,2.1.25 JPM -- Calculate core thermal limits with a backup pressure regulator failed. Reference: N1-OP-31, COLR
A.2	Equipment Control	2.1.13, 2.1.24 JPM - Review/approve a Clearance boundary for CRD Pump 11 Oil Coolers Cooling Water Relief Valve. References: GAP-OPS-02; N1-OP-5; C-18016-C
A.3	Radiation Work Permit	2.3.10 Q.1 The plant is at rated power, with the following: • TIP traces are in progress for LPRM calibration • 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 • The SSS has directed that the detector be withdrawn to the chamber shield using the manual handcrank, if possible • 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. • Inner TIP Room Area Radiation Monitors are in an alarmed condition **a.** What individual(s) is(are) responsible for approving entry into the TIP Room? b. Identify locations where the operator can get a key that will grant access to the TIP Room, during emergency and non-emergency conditions? References: GAP-RPP-08,GAP-RPP-02 Section 3.2

Same as RO

A.3	Control of Releases	2.3.6 Q.2. Given the following: • An emergency has been declared. • The Offsite Release has exceeded the Site Area Emergency levels. • Turbine Building ventilation has tripped. a. What actions are required to mitigate the Offsite Release? b. Why? References: EOP-6 Radioactive Release Control, EOP Bases.
A.4	Emergency Action Levels and Classifications	2.4.29, 2.4.41 JPM - Emergency Plan Classification. with PARs References: Emergency Plan

NINE MILE POINT NUCLEAR STATION

OPERATOR JOB PERFORMANCE MEASURE

Title: LPRM Failure / APRM Operability Determination Revision: 0

Task Number: 341-017-03-03-1

Approvals:

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

NA /
General Supervisor Operations (Designee) Date

NA EXAM SECURITY
Configuration Control Date

Performer:_____(SRO)

Trainer/Evaluator:_____

Evaluation Method: _____ Perform _____ Simulate

Evaluation Location: _____ Plant _____ Simulator

Expected Completion Time: 15 min Time Critical Task: Alternate Path Task:

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)
N/A

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. N1-OP-38C
2. TECH SPEC 3.6.2.a(9)(b) and 3.6.2.g(3)
3. NUREG-1123 General Knowledge and Abilities 2.1.12 (4.0)

Tools and Equipment:

1. None

Task Standard: Determines APRM 13 is inoperable.

Initial Conditions:

1. The reactor is operating at 100% power.
2. LPRM detector 12-17C has failed downscale.
3. The Equipment Status Log indicates the following LPRMs are inoperable and bypassed: 28-33A, 28-33B, 04-25C, 20-33D, 20-09C, 20-09D, 20-25A.
4. Instructor to ask operator for any questions.

Initiating Cues:

"(Operator's name), what are the required actions for this condition?

Performance Steps	Standard	Grade
1. Provide repeat back of initiating cue. *Evaluator Acknowledge repeat back providing correction if necessary.*	Proper communications used for repeat back (GAP-OPS-O1/Operations Manual)	Sat/Unsat
RECORD START TIME _____		
2. Obtain a copy of the reference procedure and review/utilize the correct section of the procedure.	N1-OP-38C obtained. Precautions & limitations reviewed & section H.3.0 referenced.	Sat/Unsat
3. Confirm LPRM can be bypassed per Technical Specifications, using Attachment 5.	• Completes Attachment 5 by placing an X for each inoperable detector in Block 1. • Complete Block 2 by placing a check mark in the NO block for each APRM. • Complete Block 3 by checking YES for APRM 13 and NO for all other APRMs. • Complete Block 4 by placing a check mark in the NO block for each APRM.	Sat/Unsat
4. Determines APRM 13 is inoperable.	Complete Block 5 as YES for > than 2 C level detectors marked for APRM 13	**Pass/Fail**
5. Evaluates Technical Specifications for inoperable APRM 13.	• Refers to Technical Specification 3.6.2a and Table 3.6.2a(9)(b) APRM and note (e). • Determines minimum number of operable instrument channels per Operable Trip System is met. • No LCO entry is required.	**Pass/Fail**

Terminating Cue: **APRM 13 is declared inoperable and technical specification impact is evaluated.**

RECORD STOP TIME _____

Work Practices Competencies

a. Communications	Per GAP-OPS-01.	Sat/Unsat
b. Verification of Actions	Per Operations Manual.	Sat/Unsat
c. Procedural Compliance/Placekeeping	Per Operations Manual. Per NIP-PRO-01.	Sat/Unsat
d. Safety Compliance	Per NIP-OSH-01.	Sat/Unsat
e. Radiation Protection Compliance	Per GAP-RPP-01. Per GAP-RPP-02. Per NDD-ALA.	Sat/Unsat

NOTE: UNSAT in any competency area requires oral remediation of unsat area and / or reevaluation of work practices using the Work Practices JPM (O1-REQ-SJE-WPJ-1-00).

Initial Conditions:

1. The reactor is operating at 100% power.
2. LPRM detector 12-17C has failed downscale.
3. The Equipment Status Log indicates the following LPRMs are inoperable and bypassed: 28-33A, 28-33B, 04-25C, 20-33D, 20-09C, 20-09D, 20-25A.

Initiating Cues:

"(Operator's name), what are the required actions for this condition?

NINE MILE POINT NUCLEAR STATION

OPERATOR JOB PERFORMANCE MEASURE

Title: Thermal Limit Calculation with Backup Pressure Regulator failed. Revision: 0

Task Number:

Approvals:

Initial Cue lacking? Revise task to contain Cue asking the right question?

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

NA
General Supervisor Operations (Designee) Date

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: Alternate Path Task:

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)
N/A

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. N1-OP-31
2. COLR
3. NUREG 1123 Generic Knowledge and Abilities 2.1.10 (3.9)&2.1.25(3.1)

Tools and Equipment:

None

Task Standard:

Calculates core thermal limits with backup pressure regulator failed.

Initial Conditions:

1. The reactor is operating at 85% power.
2. Core flow is 54 Mlb/hr.
3. The Backup Pressure Regulator has been declared Inoperable.
4. Instructor to ask operator for any questions.

Cue leader?

Initiating Cues:

"(Operator's name), determine any required core operating restrictions for this condition?

Performance Steps	Standard	Grade
1. Provide repeat back of initiating cue. *Evaluator Acknowledge repeat back providing correction if necessary.*	Proper communications used for repeat back (GAP-OPS-O1/Operations Manual)	Sat/Unsat
RECORD START TIME _____		
2. Obtain a copy of the reference procedure and review/utilize the correct section of the procedure.	N1-OP-31 obtained. Precautions & limitations reviewed & section H.3.0 referenced.	Sat/Unsat
3. Determine that COLR thermal limit restrictions are applicable.	• Refers to N1-OP-31 Step 3.1 and reviews COLR section for operation without a backup pressure regulator for applicable MFLPD and MFLCPR thermal limit restrictions.	Sat/Unsat
4. Determines MFLPD thermal limit is .85.	• Refers to COLR Section 3.1 and Figure 27 to determine that MFLPD limit = FRTP for these conditions.	**Pass/Fail**
5. Determines MCPR thermal limit is 1.706.	• Refers to COLR Section 2.1.2 and Figure 26 to determine MCPR limit is 1.45/FRTP = 1.706 (+/- .01)	**Pass/Fail**

?

Terminating Cue: **New MCPR and MFLPD thermal limits are calculated.**

RECORD STOP TIME _____

Work Practices Competencies

a.	Communications	Per GAP-OPS-01.	Sat/Unsat
b.	Verification of Actions	Per Operations Manual.	Sat/Unsat
c.	Procedural Compliance/Placekeeping	Per Operations Manual. Per NIP-PRO-01.	Sat/Unsat
d.	Safety Compliance	Per NIP-OSH-01.	Sat/Unsat
e.	Radiation Protection Compliance	Per GAP-RPP-01. Per GAP-RPP-02. Per NDD-ALA.	Sat/Unsat

NOTE: UNSAT in any competency area requires oral remediation of unsat area and / or reevaluation of work practices using the Work Practices JPM (O1-REQ-SJE-WPJ-1-00).

Initial Conditions:

1. The reactor is operating at 85% power.
2. Core flow is 54 Mlb/hr.
3. The Backup Pressure Regulator has been declared Inoperable.

Initiating Cues:

"(Operator's name), determine any required core operating restrictions for this condition?

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

Question:

The plant is at rated power, with the following:

- TIP traces are in progress for LPRM calibration
- 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
- The SSS has directed that the detector be withdrawn to the chamber shield using the manual handcrank, if possible
- 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.
- Inner TIP Room Area Radiation Monitors are in an alarmed condition

a. What individual(s) is(are) responsible for approving entry into the TIP Room?

b. Identify locations where the operator can get a key that will grant access to the TIP Room, during emergency and non-emergency conditions?

SAT **UNSAT**

Answer:

a. For the conditions given, the SSS and RP Supervision 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.

Technical Reference(s):

GAP-RPP-08 Sections 3.2, 3.4, and 3.5; GAP-RPP-02 Section 3.7

K/A #:	Importance:
2.3.10	3.3

Comments:

Nine Mile Point 1 Category "A" - Examination Outline Cross Reference	
Operating Test Number	Cat "A" Test: B
Examination Level	SRO
Administrative Topic	A.3
Subject Description:	Control Of Releases
Question Number:	2

Question:

Given the following:

- An emergency has been declared.
- The Offsite Release has exceeded the Site Area Emergency levels.

a. What actions are required to mitigate the Offsite Release?

b. Why?

Give a report of offsite release levels?

SAT **UNSAT**

Answer:

a. Take the following actions:

- Activate the Emergency Plan if required.
- Operate Turbine Building ventilation.
- Isolate primary systems discharging outside primary and secondary containment not needed for EOP's.

b. Turbine Building ventilation elevates and monitors the release from the Turbine Building and controls temperature and radiation levels in the Turbine Building. Isolating primary systems discharging is an attempt to stop the leakage.

Technical Reference(s):

N1-EOP-6, Radioactive Release Control, EOP Bases

K/A #:	Importance:
2.3.11	3.2

Comments:

NINE MILE POINT NUCLEAR STATION

OPERATOR JOB PERFORMANCE MEASURE

Title: Emergency Classification with PARs Revision: 0

Task Number: 344-902-05-03-2 – Make Protective Action Recommendations as necessary per EPPs

Approvals:

[signature]	/ 8/21/02	NA	/
General Supervisor Operations Training (Designee)	Date	General Supervisor Operations (Designee)	Date

NA EXAM SECURITY

Configuration Control Date

Performer:_____(SRO)

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

Tools and Equipment:

1. Marked up copy of Part I - Notification Fact Sheet which lists wind speed, wind direction and stability class.

Task Standard:

Given a set of plant conditions, determine Protective Action Recommendations (PAR's) and complete Part I - Notification Fact Sheet.

Initial Conditions:

1. The plant has experienced a transient.
2. Drywell radiation levels have just been reported as 4.2 E6 R/hr.

Initiating Cues:

"(Operator's name), Take the required actions as the Emergency Director."

Performance Steps	Standard	Grade
1. Provide repeat back of initiating cue. *Evaluator Acknowledge repeat back providing correction if necessary.*	Proper communications used for repeat back (GAP-OPS-O1/Operations Manual)	Sat/Unsat
RECORD START TIME _____		
2. Review EALs.	Refer to EAL 1.3.3 for the elevated drywell radiation levels.	Sat/Unsat
3. Declare a General Emergency per EAL 1.3.3. Cue: As the Control Room Communicator provide the candidate with the attached Part I – Notification Fact sheet containing wind speed, direction and stability data.	General Emergency declared	**Pass/Fail**
4. Complete the Part 1 – Notification Fact Sheet blocks 2 – 6	Blocks 2 – 6 contain NOT an exercise, NMP1, General Emergency, current time/date, and No Release in progress	Sat/Unsat
5. Review EPIP-EPP-08 Attachment 1 Table 1.2 data for existing plant/weather conditions to determine ERPA's to be evacuated and sheltered.	Evacuate ERPAs 1, 2, 3, 6, 11, 26, and 27 and shelter the remaining ERPAs .	**Pass/Fail**

Performance Steps		Standard	Grade
6.	Complete Part 1 – Notification Fact Sheet blocks 8 - 10	Part 1 - Notification Fact Sheet is completed	**Pass/Fail**
7.	Indicates approval of Part I - Notification Fact Sheet PAR's by signing the "Approved By (SSS/ED or ED/RM)" line on the bottom of the form.	Signs the "Approved By (SSS/ED or ED/RM)" line on the bottom of the Part I - Notification Fact Sheet..	Sat/Unsat

Terminating Cue: **PARs corrected for given plant conditions and Part I - Notification Fact Sheet approved.**

RECORD STOP TIME _____

Initial Conditions:

1. The plant has experienced a transient.
2. Drywell radiation levels have just been reported as 4.2 E6 R/hr.

Initiating Cues:

"(Operator's name), Take the required actions as the Emergency Director."

Facility: Nine Mile Point # 1		Date of Examination: 09/30/2002
Examination Level (circle one): **RO**		Operating Test Number: Cat A Test A
Administrative Topic/Subject Description		Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions
A.1	Plant Parameter Verification	2.1.2, 2.1.9 Q.1. The plant is at rated power when you are made aware of the following: Cue: give the candidate yesterday's and today's OD-7 printouts. • The only evolution completed between these OD-7 edits was weekly control rod exercises. a. What are the Reactor Operator's required actions for these conditions? References: GAP-OPS-05 Section 4.8 and N1-OP-5
		2.1.2, 2.1.23 Q.2. The plant is shutdown, with the following: • A maintenance evolution requires both SFP loops to be secured. • Condensate Transfer is available • Spent fuel pool temperature is currently 80F. • "Time to 140F" from N1-ODP-OPS-0108 is 6 hours. a. What is the maximum time allowed for this maintenance evolution? References: N1-OP-6 Precautions and Limitation 8.0, and Section H.10.0
A.1	OATC Duties	2.1.1, 2.1.2 Q.3. The plant has experienced a hydraulic Anticipated Transient Without Scram (ATWS), with the following: • The CSO has left the Control Room to supervise alternate control rod insertion activities • An unexpected annunciator alarms on a Main Control Room back panel a. Is the ATC RO permitted to acknowledge this alarm? b. What are the responsibilities of the person responding to this alarm? References: Operations Manual Sections 3.3.5 and 4.1
		2.1.1, 2.1.9 Q.4. The plant is at rated power, with the following: • I&C reports that transmitter XS-LVA-1 has failed • The SSS directs I&C to defeat the XS-LVA-1 input signal to Annunciator A1-3-4 a. What actions are required in the Control Room once I&C reports the input signal from XS-LVA-1 has been defeated? References: GAP-OPS-01 Section 3.10.7; N1-ARP-A1 Window 3-4

A.2	Surveillance Testing	2.2.12 JPM - Verify acceptance criteria for N1-ST-C13 References: N1-ST-C13
A.3	Control of Releases	2.3.11 Q.1. Given the following: • The plant is operating at rated power. • Wind gusts of up to 90 mph have been reported. • Reactor Building differential pressure is positive. a. What are the required actions for these conditions? References: N1-EOP-5; N1-ARP-L1, window 3-4; N1-OP-10
	Radiation Work Permit	2.3.10 Q.2. The plant has experienced an emergency, with the following: • Access to the RWCU Heat Exchanger Room s required to respond to the emergency. • A Radiation Work Permit is currently not available for the room. • RP Supervision is not available (back-shift) a. What are the requirement(s) for initial emergency entry into this area in lieu of an RWP? 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 Plan	2.4.39 JPM - Search and Rescue, for a reported missing person References: EPIP-EPP-03 ATTACHMENT 1

Nine Mile Point 1 Category "A" - Examination Outline Cross Reference	
Operating Test Number	Cat "A" Test: A
Examination Level	RO
Administrative Topic	A.1
Subject Description:	Plant Parameter Verification
Question Number:	1

Question:

The plant is at rated power when you are made aware of the following:

Cue: hand the candidate yesterday's and today's OD-7 printouts

- The only evolution completed between these OD-7 edits was weekly control rod exercising.

  a. What are the Reactor Operator's required actions for these conditions?

SAT **UNSAT**

Answer:

a. Control rod 22-27 is "mispositioned." The required actions include:

- Notify the SSS, the Reactor Engineer and the General Supervisor Operations.
- Confirm all other control rods are at their desired position.
- Determine how long the control rod has been mispositioned.

Technical Reference(s):

GAP-OPS-05, Sections 4.8 and N1-OP-5 Section H.4.0

K/A #:	Importance:
2.1.2	3.0
2.1.9	2.5

Comments:

Nine Mile Point 1 Category "A" - Examination Outline Cross Reference	
Operating Test Number	Cat "A" Test: 1
Examination Level	RO
Administrative Topic	A.1
Subject Description:	Plant Parameter Verification
Question Number:	2

Question:

The plant is shutdown, with the following:

- A maintenance evolution requires both Spent Fuel Pool Cooling loops to be secured.
- Condensate Transfer is available
- Spent Fuel Pool temperature is currently 80F.
- "Time to 140F" from N1-ODP-OPS-0108 is 6 hours.

a. What is the maximum time this maintenance evolution can be planned for?

SAT **UNSAT**

Answer:

a. 4.5 hours

Based on the equation $\frac{140F - 80F}{6 \text{ hours}}$

The maximum temperature allowed by P&L 8.0 is 125F.
Therefore, $\frac{125F - 80F}{10F/hr} = 4.5$ hours

Technical Reference(s):

N1-OP-6 Precaution and Limitation 8.0, and Section H.10.0

K/A #:	Importance:
2.1.2	3.0
2.1.23	3.9

Comments:

Nine Mile Point 1 Category "A" - Examination Outline Cross Reference	
Operating Test Number	Cat "A" Test: A
Examination Level	RO
Administrative Topic	A.1
Subject Description:	OATC Duties
Question Number:	3

Question:

The plant has experienced an Anticipated Transient Without Scram (ATWS), with the following:

- The CSO has left the Control Room to supervise control rod insertion activities.
- An unexpected annunciator alarms on a Main Control Room back panel.
- You (as the ATC RO) and the SRO are the only operators in the Control Room.

a. Is the ATC RO permitted to respond to this annunciator?

b. What are the responsibilities of any person responding to this alarm?

SAT **UNSAT**

Answer:

a. The ATC RO is permitted to acknowledge back-panel alarms during non routine responses or emergencies (i.e. ATWS).

b. The responsibilities of the responding operator would include:
   - Identify the alarm by scanning the annunciator panel.
   - Acknowledge the alarm by depressing the ACKNOWLEDGE pushbutton.
   - Report the alarm to the CRS.
   - Perform associated applicable ARP actions.
   - Brief the CRS on the ARP actions taken OR planned.
   - WHEN the alarm condition clears, reset the alarm by depressing the ACKNOWLEDGE pushbutton.

Technical Reference(s):

Operations Manual Sections 3.3.5 and 4.1

K/A #:	Importance:
2.1.1	3.7
2.1.2	3.0

Comments:

Nine Mile Point 1 Category "A" - Examination Outline Cross Reference	
Operating Test Number	Cat "A" Test: A
Examination Level	RO
Administrative Topic	A.1
Subject Description:	OATC Duties
Question Number:	4

Question:

The plant is at rated power, with the following:

- I&C reports that transmitter XS-LVA-1 has failed
- The SSS directs I&C to defeat the XS-LVA-1 input signal to Annunciator A1-3-4

a. What actions are required in the Control Room once I&C reports the input signal from XS-LVA-1 has been defeated?

SAT **UNSAT**

Answer:

a. Make an entry in the Defeated Annunciator Log and identify the condition by placing a transparent yellow sticker on annunciator window 3-4.

Technical Reference(s):

GAP-OPS-01 Section 3.10.7, N1-ARP-A1 Window 3-4

K/A #:	Importance:
2.1.1	3.7
2.1.9	2.5

Comments:

NINE MILE POINT NUCLEAR STATION

OPERATOR JOB PERFORMANCE MEASURE

Title: Verify Acceptance Criteria for N1-ST-C13. Revision: 0

Task Number:

Approvals:

[signature]	8/21/02	NA	/
General Supervisor Operations Training (Designee)	Date	General Supervisor Operations (Designee)	Date

NA EXAM SECURITY

Configuration Control Date

Performer: _____ (RO/SRO)

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 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. N1-ST-C13
2. Technical Specifications 3.1.2.a.
3. NUREG 1123 Knowledge & Abilities 2.2.12

Tools and Equipment:

1. Marked up copy of N1-ST-C13 with total leakage out of tolerance at 20.2 gpm.

Task Standard:
Identifies that total leakage is through Reactor Shutdown Cooling system valves exceeds the Acceptance Criteria.

Initial Conditions:

1. N1-ST-C13 has been completed and requires operations review.
2. Surveillance Test N1-ST-C13 has been completed through step 9.6.
3. The person performing the test is ill and you have been asked to complete the Operations review.
4. Instructor to ask operator for any questions.

Initiating Cues:

"(Operator's name), review the Surveillance Test for satisfactory completion. "

Performance Steps	Standard	Grade
1. Provide repeat back of initiating cue. *Evaluator Acknowledge repeat back providing correction if necessary.*	Proper communications used for repeat back (GAP-OPS-O1/Operations Manual)	Sat/Unsat
RECORD START TIME _____		
2. Obtain a copy of the reference procedure and review/utilize the correct section of the procedure.	Provided N1-ST-C13 obtained. Section 10.1 referenced.	Sat/Unsat
3. Transcribe data from steps 8.1, 8.2 and 8.3 into step 10.1.1	Step 10.1.1 completed.	Sat/Unsat
4. Review data in step 10.1.1 and check Sat for corrected leakage rates.	(_) Sat boxes checked.	**Pass/Fail**
5. Transcribe data from steps 8.1, 8.2 and 8.3 into step 10.1.2	Step 10.1.2 completed.	Sat/Unsat
6. Review data in step 10.1.2.	Identify total leakage for the shutdown cooling valves is greater than 20.0 gpm.	**Pass/Fail**
7. Reports the unsatisfactory results	Notifies the SSS	Sat/Unsat
Cue: As the SSS, acknowledge the report		

Terminating Cue: Identifies unsatisfactory completion of the Surveillance test to the SSS.

RECORD STOP TIME _____

Initial Conditions:

1. N1-ST-C13 has been completed and requires operations review.
2. Surveillance Test N1-ST-C13 has been completed through step 9.6.
3. The person performing the test is ill and you have been asked to complete the Operations review.
4. Instructor to ask operator for any questions.

Initiating Cues:

"(Operator's name), review the Surveillance Test for satisfactory completion. "

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

Question:

Given the following:

- The plant is operating at rated power.
- Wind gusts of up to 90 mph have been reported.
- Reactor Building differential pressure is positive.

a. What are the required actions for these conditions?

SAT **UNSAT**

Answer:

a. The following actions are required:
   - Enter N1-EOP-5 and monitor Reactor Building differential pressure.
   - Verify ventilation system lineup.
   - Start RBEVS per N1-OP-10.

Technical Reference(s):

N1-EOP-5
N1-ARP-L1, window 3-4
N1-OP-10

K/A #:	Importance:
2.3.11	2.7

Comments:

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	RO
Administrative Topic	A.3
Subject Description:	Control Of Releases
Question Number:	1

Question:

Given the following:

- The plant is operating at rated power.
- Wind gusts of up to 90 mph have been reported.
- Reactor Building differential pressure is positive.

a. What are the required actions for these conditions?

SAT **UNSAT**

Answer:

a. The following actions are required:
   - Enter N1-EOP-5 and monitor Reactor Building differential pressure.
   - Verify ventilation system lineup.
   - Start RBEVS per N1-OP-10.

Technical Reference(s):

N1-EOP-5
N1-ARP-L1, window 3-4
N1-OP-10

K/A #:	Importance:
2.3.11	2.7

Comments:

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	RO
Administrative Topic	A.3
Subject Description:	Radiation Work Permit
Question Number:	2

Question:

The plant has experienced an emergency, with the following:

- Access to the RWCU Heat Exchanger Room is required to respond to the emergency.
- A Radiation Work Permit is currently not available for the area.
- RP Supervision is not available (back-shift).

What are the requirement(s) for initial emergency entry into this area in lieu of an RWP?

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	2.9

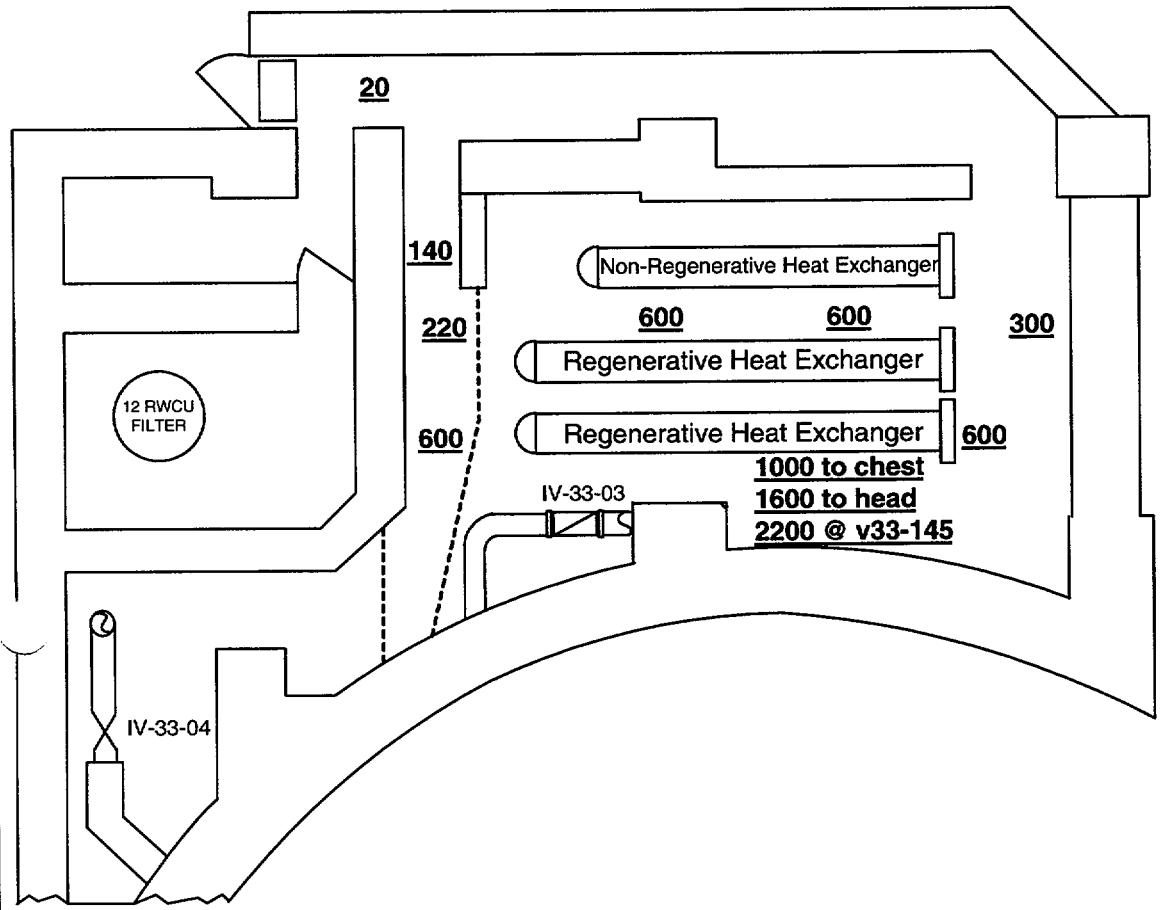
Comments:

The survey map indicates this area is a Locked High Radiation 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_2 Inj. Rate	**4** scfm



#	Item	$\beta\gamma$ dpm/100cm2	α dpm/100cm2
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
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31			

Survey Instruments:
RO-2 #6074 (9.13.1)

1. — = Rope/Area Boundary
2. (#) = Smear Location
3. # = General Area Unless Noted
4. *# / # = γ β / γ β 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

γ = Readings in mRem/hr. β = 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: Search and Rescue of a Missing Individual Revision: 0

Task Number:

Approvals:

Ron Thurman / 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: X 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 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-03, Search And Rescue

Tools and Equipment:

None

Task Standard:
Search and Rescue Team has been dispatched, all required notifications have been made, and Chief Shift Operator (CSO) Search/Rescue Operations Checklist has been completed.

Initial Conditions:

1. You are the CSO.
2. The plant is operating at rated power with all systems operating normally.
3. A Maintenance worker contacts the Control Room to report that one of his co-workers is missing.

Initiating Cues:

"(Operator's name), Perform appropriate actions for the CSO in response to the report of the missing person."

Performance Steps	Standard	Grade
1. Provide repeat back of initiating cue. *Evaluator Acknowledge repeat back providing correction if necessary.*	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-03. References Section 3.2 and Attachment 1, Chief Shift Operator (CSO) Search/Rescue Operations Checklist.	Sat/Unsat
NOTE: During the performance of this JPM, if the candidate requests individual's names which must be input into the CSO Search/Rescue Operations Checklist, inform the candidate that names are not required, just the name of the respective department.		
3. Fills out top section of CSO Search/Rescue Operations Checklist.	Enters "NAME", "DATE", and checks the "UNIT 1" block.	Sat/Unsat
4. Performs Step 1 of CSO Search/Rescue Operations Checklist.	Circles the term "is not", and checks the "COMPLETE" block.	Sat/Unsat
5. Performs Step 2 of CSO Search/Rescue Operations Checklist.	Enters "Maintenance" in the blank space provided, and checks the "COMPLETE" block. John Brown of	Sat/Unsat
6. Performs Step 3 of CSO Search/Rescue Operations Checklist.	Enters "Maintenance" in the blank space provided, and checks the "COMPLETE" block. "Fred Missing" of	Sat/Unsat

Performance Steps	Standard	Grade
NOTE: If asked by the candidate, indicate that the last known location of the missing individual was Elevation 250' of the Turbine Building.		
7. Performs Step 4 of CSO Search/Rescue Operations Checklist.	• Enters "Elevation 250' of the Turbine Building" in the blank space provided. • Checks the "COMPLETE" block.	Sat/Unsat
8. Performs Step 5 of CSO Search/Rescue Operations Checklist.	Because the individual has not been located yet, checks the "N/A" block OR skips the step until the individual is located.	Sat/Unsat
9. Performs Step 6 of CSO Search/Rescue Operations Checklist.	Enters "NONE" in the blank space provided OR checks the "N/A" block.	Sat/Unsat
10. Performs Step 7 of CSO Search/Rescue Operations Checklist. Cue: As the SSS, acknowledge report of a missing individual.	• Notifies SSS of missing individual. • Checks the "COMPLETE" block.	**Pass/Fail**
11. Performs Step 8 of CSO Search/Rescue Operations Checklist. Cue: As the Maintenance Supervisor, acknowledge report of missing individual.	• Notifies Maintenance Supervisor of missing individual • Enters "Maintenance" in the blank space provided • Checks the "COMPLETE" block. "Bill Supervisor" of	**Pass/Fail**
12. Performs Step 9 of CSO Search/Rescue Operations Checklist. Cue: As security, acknowledge report of missing individual and ACAD run request. Cue: As security, inform the candidate that the results of the ACAD run indicate that the individual is still on-site.	• Notifies Security of missing individual, requests that an ACAD be run. • Checks the "COMPLETE" block.	**Pass/Fail**
13. Performs Steps 9.a and 9.b of CSO Search/Rescue Operations Checklist.	• Checks the "N/A" block of Step 9.a. • Checks the "COMPLETE" block.	Sat/Unsat
14. Performs Step 10 of CSO Search/Rescue Operations Checklist. Cue: If asked, inform the candidate that the missing individual did NOT respond.	• Pages missing individual using the Merge Mode to have them contact the Unit 1 Control Room. • Checks the "COMPLETE" block. "Fred Missing" contact U1 control Room"	**Pass/Fail**

Performance Steps	Standard	Grade
15. Performs Step 11 of CSO Search/Rescue Operations Checklist.	• Waits 2 minutes. • Checks the "COMPLETE" block.	Sat/Unsat
16. Performs Step 12 of CSO Search/Rescue Operations Checklist. Cue: If asked, inform the candidate that the missing individual did NOT respond.	• Re-pages missing individual using Merge Mode to have them contact the Unit 1 Control Room. "Fred Missing contact the U1 control Room" • Checks the "COMPLETE" block.	**Pass/Fail**
17. Performs Step 13 of CSO Search/Rescue Operations Checklist.	Waits an additional 2 minutes, then performs the following: • Sounds the Unit 1 station alarm. • Checks the "COMPLETE" block. • Makes the following announcement using the Merge Mode: *"Attention, Attention all personnel, This is not a Drill, if anyone know the present location of "Maintenance", please contact the Unit 1 Control Room. I repeat this is not a drill"* "Fred Missing" from maintenance" • Checks the "COMPLETE" block. • Repeats the sounding of the station alarm and the announcement, • Checks the "COMPLETE" block. • Leaves Gaitronics in Merge Mode. • Checks the "COMPLETE" block.	**Pass/Fail**
18. Performs Step 14 of CSO Search/Rescue Operations Checklist.	Performs the following: • Sounds the Unit 1 station alarm. • Checks the "COMPLETE" block. • Makes the following announcement using the Merge Mode: *"Attention, Attention all personnel, This is not a Drill, The Fire Brigade shall report to the Control Room for Search and Rescue Operations" I repeat this is not a drill"* • Checks the "COMPLETE" block. • Repeats the sounding of the station alarm and the announcement. • Checks the "COMPLETE" block. • Leaves Gaitronics in Merge Mode. • Checks the "COMPLETE" block.	**Pass/Fail**
19. Performs Step 14.a of CSO Search/ Rescue Operations Checklist.	Checks all "N/A" blocks in Step 14.a.	Sat/Unsat

Performance Steps	Standard	Grade
20. Performs Step 15 of CSO Search/Rescue Operations Checklist. Cue: As the Search and Rescue team leader, acknowledge direction to coordinate search and rescue activities with Security until individual is located. Cue: As Search and Rescue Team Leader, Inform the candidate that offsite assistance is required.	Directs Search and Rescue Team Leader to coordinate search and rescue activities with Security until individual is located.	**Pass/Fail**
21. Performs Step 16 of CSO Search/Rescue Operations Checklist. Cue: As Oswego County 911 Center, acknowledge request for rescue assistance. Cue: As Security, acknowledge report of request for offsite assistance. Cue: Wait 2 minutes, and as the Search and Rescue Team Leader, inform the candidate that the missing individual has been located and is fine.	Performs the following: • Contacts Oswego County 911 Center using phone at 343-1313 OR by radio. • Checks the "COMPLETE" block. • Notifies Security of request for offsite assistance. • Checks the "COMPLETE" block.	**Pass/Fail**
22. If the candidate previously skipped Step 5 of the CSO Search/Rescue Operations Checklist, they should return to Step 5 and complete it at this time.	• Enters "fine" (or similar) in the blank space provided. • Checks the "COMPLETE" block.	Sat/Unsat
23. Performs Step 17 of CSO Search/Rescue Operations Checklist. Cue: As the Unit 2 CSO, acknowledge the report that the missing individual has been located.	• Notifies the Unit 2 CSO that the missing individual has been located. • Checks the "COMPLETE" block.	**Pass/Fail**

Performance Steps	Standard	Grade
24. Performs Step 18 of CSO Search/Rescue Operations Checklist. Cue: As the SSS, inform the candidate to terminate from Search and Rescue operations.	Performs the following: • Sounds the Unit 1 station alarm. • Makes the following announcement using the Merge Mode and checks the "COMPLETE" block: *"Attention, attention all personnel, This is not a drill, Search and Rescue operations are completed. I repeat Search and Rescue operations are completed."* • Checks the "COMPLETE" block. • Removes Gaitronics from Merge Mode. • Checks the "COMPLETE" block	**Pass/Fail**
26. Performs Step 20 of CSO Search/Rescue Operations Checklist. Cue: Acknowledge routing of CSO Search/Rescue Operations Checklist to EP Department.	Checks the "COMPLETE" block and routes CSO Search/Rescue Operations Checklist to EP Department.	Sat/Unsat

Terminating Cue: **Identifies routing of CSO Search/Rescue Operations Checklist to EP Department.**

RECORD STOP TIME _____

Initial Conditions:

1. You are the CSO
2. The plant is operating at rated power with all systems operating normally
3. A Maintenance worker contacts the Control Room to report that one of his co-workers is missing

Initiating Cues:

"(Operator's name), Perform appropriate actions for the CSO in response to the report of the missing person."

Facility: Nine Mile Point # 1		Date of Examination: 09/30/2002
Examination Level (circle one): **RO**		Operating Test Number: Cat A Test B
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: • This is Day 2 of your 4-Day rotation (12-hour days). • During your shift, a complex evolution is started but can not be completed. • As the ATC RO you are requested to stay over two hours to complete the evolution. 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	2.3.2 Q.1. Given the following: • A Cleanup System Pump seal failure has resulted in isolation of the system. • A RWP has been developed to allow inspection and local isolation of the pump. • The ALARA review indicates an estimated exposure of 1.5 REM. • The required ALARA reviews and pre-job briefing are completed prior to entry. • Upon completion of the local isolation, the total job exposure is 2.5 REM due to difficulty closing an isolation valve. What additional ALARA actions, if any, are required for this situation? References: S-RAP-ALA-0102
A.3	Radiation Work Permit	2.3.10 Q.2 The plant is at rated power, with the following: • TIP traces are in progress for LPRM calibration • 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 • The SSS has directed that the detector be withdrawn to the chamber shield using the manual handcrank, if possible • 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. • Inner TIP Room Area Radiation Monitors are in an alarmed condition a. What individual(s) is(are) responsible for approving entry into the TIP Room? b. Identify locations where the operator can get a key that will grant access to the TIP Room, during emergency and non-emergency conditions? References: GAP-RPP-08 Sections 3.2, 3.3, and 3.5; GAP-RPP-02 Section 3.7
A.4	Emergency Plan	2.4.29 JPM - Contaminated Injured Worker requiring transport to Oswego Hospital. References: EPIP-EPP-04

NINE MILE POINT NUCLEAR STATION

OPERATOR JOB PERFORMANCE MEASURE

Title: RPV Level Verification Revision: 0

Task Number:

Approvals:

Ron Thurow / 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: X 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. *Evaluator Acknowledge repeat back providing correction if necessary*	Proper communications used for repeat back (GAP-OPS-O1/Operations Manual)	Sat/Unsat
RECORD START TIME _____		
2. Obtain a copy of the reference procedure and review/utilize the correct section of the procedure.	**N1-OP-43A** is obtained.	Sat/Unsat
	Step 1.31 and Attachment 10 are identified as correct steps.	Sat/Unsat
3. Determines that Attachment 10 requires completion.	• Reviews Step 1.31 and executes step 1.31.3 to complete Attachment 10.	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.	**Pass/Fail**
	• Determines Mismatch between original deviation and current deviation as 5 inches.	**Pass/Fail**
	• Determines Mismatch is > 4 inches and UNSAT.	**Pass/Fail**

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.	**Pass/Fail**
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."

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:	Conduct of Operations
Question Number:	1

Question:

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.

What requirements must be met before you may assume the shift as the CSO?

SAT **UNSAT**

Answer:

Step 3.9, Inactive License Holders, of the S-ODP-TQS-0101 **Administrative Controls for Maintaining Active License Status at Nine Mile Point**, 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"

- Qualification and status of the license of licensee are current:
  - Meet requalification-training requirements per NTP-TQS-102.
  - Be currently trained on use SCBA.
  - Have a current SCBA fit test on file.
  - Have a current Scott Full Face fit test on file.
  - Have a current NRC-396 on file (NRC Medical examination)
  - Have a current respiratory physical examination on file.
  - Have corrective lenses available for use in Scott Air Paks.
  - Logged in SSS log.
- 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.

Technical Reference(s):

S-ODP-TQS-0101

K/A #:	Importance:
2.1.1	3.7
2.1.3	3.0

Comments:

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:

Given the following:

- This is Day 2 of your 4-Day rotation (12-hour days).
- During your shift, a complex evolution is started but can not be completed.
- As the ATC RO you are requested to stay over two hours to complete the evolution.

What are the administrative requirement(s) to allow you to complete this evolution?

SAT **UNSAT**

Answer:

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.

Step 3.2.1 of GAP-FFD-02, Control of Working Hours, states "Individuals identified in Section 1.1 should not be permitted to work, excluding shift turnover time and non-working lunch breaks, more than:

- 16 hours straight
- 16 hours in any 24 hour period
- 24 hours in any 48 hour period
- 72 hours in any 7 day period.

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

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

NA /
General Supervisor Operations (Designee) Date

NA EXAM SECURITY /
Configuration Control Date

Performer:_____(RO)

Trainer/Evaluator:_____

Evaluation Method: X 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.

Not regarding I agree too much info

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. ~~Indicate the appropriate boundaries, vents/drains, power supplies, and required positions for a safe clearance on a Tag List.~~ Return the completed Tag List to the SSS for review."

Performance Steps	Standard	Grade
1. Provide repeat back of initiating cue. *Evaluator Acknowledge repeat back providing correction if necessary*	Proper communications used for repeat back (GAP-OPS-O1/Operations Manual)	Sat/Unsat
RECORD START TIME _____		
2. Obtain a copy of the reference procedure and review/utilize the correct section of the procedure.	**GAP-OPS-02** is obtained.	Sat/Unsat
	C-18016-C 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.	**Pass/Fail**
	• 28-15 MTR BKR –11 CRD PMP breaker in DISCONNECT.	**Pass/Fail**
	• 28-15 TRIP FUSE installed in OFF position.	**Pass/Fail**

Performance Steps	Standard	Grade
•4. Indicate valves needed for Clearance boundary.	• Includes 53-17 CRD-27 BV-11 CRD Pump Suction closed.	**Pass/Fail**
	• Includes 28-31 CRD-1 STOP CK – 11 CRD PUMP DISCHARGE TO CRD SYS closed.	**Pass/Fail**
	• Includes 28.1-38 CRD-45 BV-GEMAC REF LEG FILL FROM 11 CRD PMP closed.	**Pass/Fail**
	• 53-26 CRD-3 STOP CK-11 CRD PUMP MIN FLOW RECIRC TO CST closed.	**Pass/Fail**
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.	• 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) closed? open?	**Pass/Fail**
	• Includes 28-06 VENT 11 CRD PUMP open, 28-07 VENT 11 CRD PUMP open.	**Pass/Fail**
	• CRD Pump 11 Casing Drain removed.	Sat/Unsat
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: <u>As the SSS acknowledge the receipt of the Tag List.</u>		

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. Indicate the appropriate boundaries, vents/drains, power supplies, and required positions for a safe clearance on a Tag List. Return the completed Tag List to the SSS for review."

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

Question:

Given the following:

- A Cleanup System Pump Seal failure has resulted in isolating the system.
- A RWP has been developed to allow inspection and local isolation of the pump.
- The ALARA review indicates an estimated exposure of 1.5 REM.
- The required ALARA reviews and pre-job briefing are completed prior to entry.
- Upon completion of the local isolation, the total job exposure is 2.5 REM due to difficulty closing an isolation valve.

What additional ALARA actions, if any, are required for this situation?

SAT **UNSAT**

Answer:

Step 3.5.1.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 (1.5x 1.5 = 2.25) and a post job ALARA review is required.

Technical Reference(s):

S-RAP-ALA-0102

K/A #:	Importance:
2.3.2	2.5

Comments:

Referring to Attachment 10, a DER is not necessary since total exposure is < 5REM.

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

Question:

The plant is at rated power, with the following:

- TIP traces are in progress for LPRM calibration
- 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
- The SSS has directed that the detector be withdrawn to the chamber shield using the manual handcrank, if possible
- 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
- Inner TIP Room Area Radiation Monitors are in an alarmed condition

a. What individual(s) is(are) responsible for approving entry into the TIP Room?

b. Identify locations where the operator can get a key that will grant access to the TIP Room, during emergency and non-emergency conditions?

SAT **UNSAT**

Answer:

a. For the conditions given, the SSS and RP Supervision 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.

Technical Reference(s):

GAP-RPP-08 Sections 3.2, 3.3, and 3.5; GAP-RPP-02 Section 3.7

K/A #:	Importance:
2.3.10	2.9

Comments:

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:

Ron Thurson / 8/01/02
General Supervisor Operations Training (Designee) — Date

NA /
General Supervisor Operations (Designee) — Date

NA EXAM SECURITY /
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. *Evaluator Acknowledge repeat back providing correction if necessary.*	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.	• Enters "NAME", "DATE", checks the "UNIT 1" block, "TIME OF NOTIFICATION" and "LOCATION OF MEDICAL EMERGENCY" (Refuel Floor).	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.	• Notifies Fire Brigade by phone, radio, OR GAItronics to request response. • Checks the "COMPLETE" block.	**Pass/Fail**
5. Performs Step 2 of CSO Medical Emergency Checklist.	• Notifies SSS of medical emergency. • Checks the "COMPLETE" block.	**Pass/Fail**

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.	• Contacts RP and directs them to report to the Refuel Floor • Checks the "COMPLETE" block	**Pass/Fail**
Cue: As Radiation Protection, acknowledge direction to report to Refuel Floor.		
7. Performs Step 3.B.1 of CSO Medical Emergency Checklist.	• 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 • Notifies Oswego County 911 Center that injured person is potentially contaminated • Checks the "COMPLETE" block	**Pass/Fail**
Cue: As Oswego County 911 Center acknowledge the request/report		
8. Performs Step 3.B.2 of CSO Medical Emergency Checklist.	• 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. • Checks the "COMPLETE" block.	**Pass/Fail**
Cue: As Site Security Supervisor, acknowledge request/report.		
9. Performs Step 3.B.3 of CSO Medical Emergency Checklist.	• Contacts Oswego Hospital using phone at 349-5522. • Checks the "COMPLETE" block. • Informs Oswego Hospital that there is one patient. • Checks the "COMPLETE" block. • Requests Oswego Hospital setup an REA • Checks the "COMPLETE" block.	**Pass/Fail**
Cue: Role-play as Oswego Hospital and request status of patient. Cue: Role-play as Oswego Hospital and request that RP accompany patient to the hospital.	• When requested, informs Oswego Hospital that patient is currently unconscious, has a compound fracture of leg right leg, and is bleeding from the head. • Acknowledges Oswego Hospital request for RP to accompany patient to hospital.	Sat/Unsat
10. Performs Step 3.C of CSO Medical Emergency Checklist.	• Contacts Medical Department by phone, radio, OR GAItronics. • Checks the "COMPLETE" block.	**Pass/Fail**

Performance Steps	Standard	Grade
Cue: As Medical Department, acknowledge request.		
11. Performs Step 3.D of CSO Medical Emergency Checklist.	• Determines NMPC vehicle will NOT be needed (ambulance is on the way). • Checks the "N/A" block.	**Pass/Fail**
12. Performs Step 3.E of CSO Medical Emergency Checklist.	• Requests the SSS contact the RP on-call supervisor and request that RP supervision and an RP Technician report to the hospital. • Checks the "COMPLETE" block.	**Pass/Fail**
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.	• Directs Site Security Supervisor to contact Manager, Nuclear Communications and Public Affairs and provide details of the incident. • Checks the "COMPLETE" block.	**Pass/Fail**
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.	• Informs the SSS that the medical emergency has been terminated, • Checks the "COMPLETE" block.	**Pass/Fail**
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."