

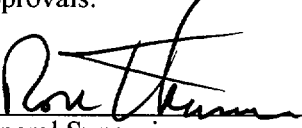
Facility: <u>Nine Mile Point # 2</u>		Date of Examination: <u>July 29, 2002</u>
Examination Level (circle one): RO		Operating Test Number: <u>1</u>
Administrative Topic/Subject Description	Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions	
A.1	Plant Parameter Verification	<p>JPM - Line up the Containment Monitoring system to determine Containment water level above the 224 foot elevation. (EOP-6, Attachment 23)</p> <p>K/A's 2.1.7 (3.7) 2.1.20 (4.3) 2.1.31 (4.2) Task J223-959-04-01-2</p>
	Refueling	<p>Question 1 - Given N2-OSP-LOG-S004/5 Mode 5 Shift Checks and plant specific out of specification data, determine the required actions</p> <p>K/A's 2.1.23 (3.9)</p>
		<p>Question 2 - Given plant conditions related to Offsite Power and Emergency Diesel Generator availability, determine if Shutdown Safety Criteria is met for the Power Availability Safety Function.</p> <p>K/A 2.1.23 (3.9) Reference, NIP-OUT-01, Attachment 4</p>
A.2	Tagging and Clearances	<p>JPM - Given a completed "Clearance Request Form", blank "Clearance Sheet" and "Tag List" and access to the appropriate reference material, develop a clearance boundary.</p> <p>K/A 2.2.13 (3.6) Task J299-902-03-50-3</p>
A.3	Radiation Work Permit	<p>Question - Given a specified survey map, identify radiological hazards.</p> <p>K/A 2.3.10 (2.9)</p>
		<p>Question - While walking through the Plant next to a high radiation area you see a leak that can be isolated by reaching over the barrier rope and closing the valve. What are the requirements for doing this?</p> <p>K/A's 2.3.4 (2.5) 2.3.10 (2.9)</p>
A.4	Emergency Protective Action Recommendations	<p>JPM - Perform the actions required when notified of an injured and contaminated person in the Plant. (EPIP-EPP-04)</p> <p>K/A's 2.4.12 (3.4) 2.4.39 (3.3) Task J200-921-05-01-2</p>


NINE MILE POINT NUCLEAR STATION
OPERATOR JOB PERFORMANCE MEASURE

Title: Determine Containment Water Level above the 224 foot elevation. Revision: 0

Task Number: 223-959-04-01-2 – Lineup the Containment Monitoring system to determine Containment level above 224 feet.

Approvals:


General Supervisor
Operations Training (Designee) 16/6/02
Date


General Supervisor
Operations (Designee) 16/3/02
Date

N/A EXAM SECURITY
Configuration Control Date

Performer: _____ (RO)

Trainer/Evaluator: _____

Evaluation Method: X Perform _____ Simulate

Evaluation Location: X 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 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. N2-EOP-6, Attachment 23
2. NUREG K/A General Knowledges and Abilities 2.1.7 (3.7), 2.1.20 (4.3), 2.1.31...(4.2)

Tools and Equipment:

1. None

Task Standard:

Determine Containment Water Level using N2-EOP-6, attachment 23.

Initial Conditions:

1. The Plant is scrambled.
2. Containment flooding is in progress.
3. Current conditions dictate that Containment Level can **NOT** be determined due to level being greater than the upper range of the level instrument.
4. N2-EOP-6, Attachment 23 has been completed up to Step 3.7.

Initiating Cues:

“(Operator’s name), the SSS has directed you to complete Step 3.7 of N2-EOP-6, Attachment 23 and report current Containment Water Level.”

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

RECORD START TIME _____

2. Obtain a copy of the reference procedure and review/utilize the correct section of the procedure.	N2-EOP-6, Attachment 23 is obtained.	Sat/Unsat
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CUE: Acting as the SSS, provide the Candidate with the copy of Attachment 23 completed up to Step 3.7.

3. Review of Attachment 23.	Reviews ATTACHMENT 23 , to ensure that the Steps up to Step 3.7 are complete.	Sat/Unsat
4. Performs Containment Level determination.	Uses the appropriate Figure 23.1a or b to determine Containment Water Level as follows;	Sat/Unsat

CUE: When asked, indicated injection temperatures are approximately 72°F.

- Determines with the current injection temperatures that Figure 23.b is the appropriate figure for use.
- Pass/Fail**

CUE: When asked, indicate that 2CMS*PI7A on Panel 601 is reading 48psig. And that 2CPS-PI127 on Panel 873 is reading 33 psig.

- Determines appropriate ΔP by;
 - Determining the S-D pressure.
 - “S” pressure is **SUPPRESSION CHAMBER PRESSURE** as indicated on 2CMS*PI7A on Panel 601.
 - “D” pressure is **PRIMARY CONTAINMENT INLET NITROGEN PRESSURE** as indicated on 2CPS-PI127 on Panel 873.

Sat/Unsat

- Using a ΔP of 15 psi and the “D” pressure from above, determines and reports that **CONTAINMENT WATER LEVEL** is approximately 264 feet.

Pass/Fail

CUE: As the SSS, acknowledge the Candidates report of Containment Water Level.

Terminating Cue: A Containment Water level has been determined.

RECORD STOP TIME _____

Initial Conditions:

1. The Plant is scrammed.
2. Containment flooding is in progress.
3. Current conditions dictate that Containment Level can **NOT** be determined due to level being greater than the upper range of the level instrument.
4. N2-EOP-6, Attachment 23 has been completed up to Step 3.7.

Initiating Cues:

“(Operator’s name), the SSS has directed you to complete Step 3.7 of N2-EOP-6, Attachment 23 and report current Containment Water Level.”

Nine Mile Point 2 Category "A" - Examination Outline Cross Reference	
Operating Test Number	Cat "A" Test: 1
Examination Level	RO
Administrative Topic	A.1
Subject Description:	Fuel Handling/Shift Checks
Question Number:	1

Question:	
<p>The plant is in Mode 5, with the following:</p> <ul style="list-style-type: none"> Recently Irradiated fuel is being moved in the Spent Fuel Pool You are the Reactor Operator performing Mode 5 Shift Checks. <p>Review the ECCS Equipment Room temperature data provided and determine the required actions, if any?</p>	
SAT	UNSAT

Answer:
<p>Notify the SSS of the out of spec reading. Action must be initiated to restore Low Pressure Core Spray and RHS "A" Pump Room temperatures to at least 70°F as soon as practicable. (N2-OP-52, Precaution & Limitation D.26.0)</p> <p>Explanation: N2-OSP-LOG-S004/5, Item 93, Note [ba] requires action if any ECCS Equipment Room temperature is < 70°F.</p>

Technical Reference(s):
<p>N2-OSP-LOG-S004/5, Item 93, Note [ba], Precaution and Limitation 6.2 N2-OP-52, Precaution & Limitation D.26.0</p>

K/A #:	Importance:
2.1.23	3.9

Comments:
<p>Evaluator is to provide candidate with marked up copy of appropriate pages of N2-OSP-LOG-S004/5.</p>

Candidate Copy

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

Question:
<p>The plant is in Mode 5, with the following:</p> <ul style="list-style-type: none">• Recently Irradiated fuel is being moved in the Spent Fuel Pool• You are the Reactor Operator performing Mode 5 Shift Checks. <p>Review the ECCS Equipment Room temperature data provided and determine the required actions, if any?</p>

Nine Mile Point 2 Category "A" - Examination Outline Cross Reference	
Operating Test Number	Cat "A" Test: 1
Examination Level	RO
Administrative Topic	A.1
Subject Description:	Fuel Handling/Shutdown Safety
Question Number:	2

Question:	
<p>The plant is in Mode 5, with the following:</p> <ul style="list-style-type: none"> • Line 5 is operable. • Line 6 is operable. • Division I Emergency Diesel Generator is operable. • Division II Emergency Diesel Generator is inoperable and removed from service under a Red Clearance. • THEN, A plant worker inadvertently removes the "Close" circuit control power fuses for Division I Emergency Diesel Generator Output Breaker and breaks the fuse holder. <p>Is the minimum Shutdown Safety Criteria being met? Justify your answer.</p>	
SAT	UNSAT

Answer:
<p>Minimum Shutdown Safety Criteria for Power Availability is NOT being met.</p> <p>Explanation: From NIP-OUT-01 Attachment 4: Power Availability, the Shutdown Safety Criteria during Mode 5 is met when available power sources = $N+1=3$. With both offsite lines available (2 sources) and no EDGs available, then the plant is below the required value of 3. Additionally, none of the available sources is an EDG.</p>

Technical Reference(s):
NIP-OUT-01, Attachment 4

K/A #:	Importance:
2.1.23	3.9

Comments:

Candidate Copy

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

Question:

The plant is in Mode 5, with the following:

- Line 5 is operable.
- Line 6 is operable.
- Division I Emergency Diesel Generator is operable.
- Division II Emergency Diesel Generator is **inoperable** and removed from service under a Red Clearance.
- THEN, A plant worker inadvertently removes the "Close" circuit control power fuses for Division I Emergency Diesel Generator Output Breaker and breaks the fuse holder.

Is the minimum Shutdown Safety Criteria being met? Justify your answer.

NINE MILE POINT NUCLEAR STATION
OPERATOR JOB PERFORMANCE MEASURE

Title: Develop a Clearance Boundary for Spent Fuel Pool Cooling Pump 2SFC*P1A Revision: 0

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

Approvals:

General Supervisor
Operations Training (Designee) /
Date

General Supervisor
Operations (Designee) /
Date

Configuration Control /
Date

Performer: _____ (RO)

Trainer/Evaluator: _____

Evaluation Method: X Perform _____ Simulate

Evaluation Location: X 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. PID-38B-10
3. EE-1Q
4. N2-OP-38
5. NUREG K/A General Knowledges and Abilities 2.2.13 (3.6)

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 2SFC*P1A.
3. The SSS has just handed you the Clearance Request Form for this job.
4. 2SFC*P1A is shut down and 2SFC*P1B is operating.

Initiating Cues:

1. Provide candidate with Attachment 5, Clearance Request Form and Blank Tag List, Attachment 7
2. "(Operator's name), Develop a Clearance boundary for the requested Clearance. 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. <i>Evaluator Acknowledge repeat back providing correction if necessary</i>	Proper communications used for repeat back (GAP-OPS-O1/Operations Manual)	Sat/Unsat

RECORD START TIME _____

2. Obtain a copy of the reference procedure and review/utilize the correct section of the procedure.	GAP-OPS-02 is obtained.	Sat/Unsat
	PID-38 is referenced	Sat/Unsat
	N2-OP-38, Attachment 4 or EE-1Q is referenced.	Sat/Unsat
3. Indicate power supplies needed for Clearance boundary.	<ul style="list-style-type: none"> • Includes 2SFC*P1A control switch in pull-to-lock. 	Pass/Fail
	<ul style="list-style-type: none"> • Includes 2ENS*SWG101-5 breaker open and racked-out. 	Pass/Fail
4. Indicate valves needed for Clearance boundary.	<ul style="list-style-type: none"> • Includes 2SFC*V21A (pump discharge isol valve) closed. 	Pass/Fail
	<ul style="list-style-type: none"> • Includes 2SFC*V13A (pump suction isol valve) closed. 	Pass/Fail
	<ul style="list-style-type: none"> • Includes 2SFC*V16A (vent) AND/OR 2SFC*V111A (drain) open. 	Pass/Fail
5. Return the Tag List Attachment 7 to the SSS.	Returns Attachment 7 to the SSS.	Sat/Unsat

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

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

RECORD STOP TIME _____

Initial Conditions:

1. The Plant is operating at 100%.
2. Maintenance has requested a Clearance be placed on 2SFC*P1A.
3. The SSS has just handed you the Clearance Request Form for this job.
4. 2SFC*P1A is shut down and 2SFC*P1B is operating.

Initiating Cues:

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

ATTACHMENT 5: CLEARANCE REQUEST FORM

CLEARANCE REQUEST FORM			
Unit <u>2</u>			
Date of Request <u>TODAY</u>			
Type of Clearance	<input checked="" type="checkbox"/> Danger <input type="checkbox"/> Operating Permit <input type="checkbox"/> Caution		
Equipment and System to be Cleared: <u>SFC *P1A - Spent Fuel Pool Cooling System</u>			
Work Controlling Document No./Description of Work: <u>Clearance is required to repair the pump. This is scheduled corrective maintenance. Breach of pump pressure boundary is required. Pump must be de-coupled from the motor.</u>			
Suggested Clearance Tagging Points (Not Required): _____ _____			
Hazards Associated with the Work to be Performed: _____			
Potential Adverse Effects: _____ _____			
Other Systems Affected: _____ _____			
Grounds Required: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>			
Starting Time	<u>08:00</u>	Date	<u>TOMORROW</u>
Duration	<u>24 hours</u>		
Reference Drawings(s) _____			
Clearance to be held by:	<u>Jay Lawrence</u>	<u>1234</u>	
	Name(s)	Phone(s)	
Requester/Planner:	<u>Jay Lawrence</u>	<u>1234</u>	
	Name	Phone	
Recommended Clearance Boundary: _____			
Operations Review: _____			
	Name	Date	
Clearance No.	_____	Assigned by	_____
		Initial	Date

ATTACHMENT 7: TAG LIST

CLEARANCE SHEET		CLEARANCE NO. _____						Page _____ of _____			
Component to be Worked:											
Equipment ID	Tag Serial No	Tag Type	Place Seq.	Place. Config.	Place 1 st Verifier	Place 2 nd Verifier	Rest. Seq.	Rest. Config.	Rest. 1 st Verifier	Rest. 2 nd Verifier	Tag Notes

ATTACHMENT 7: TAG LIST

CLEARANCE SHEET

CLEARANCE NO.

Page 1 of 1

Component to be Worked: 2SFC*P1A												
Equipment ID	Tag Serial No	Tag Type	Place. Seq.	Place. Config.	Place. 1st Verifier	Place. 2nd Verifier	Rest. Seq.	Rest. Config.	Rest. 1st Verifier	Rest. 2nd Verifier	Tag Notes	
2SFC*P1A Control Switch		Danger		PULL-TO-LOCK								
2ENS*SWG101-5 (2SFC*P1A Power Supply Breaker)		Danger		BREAKER OPEN AND RACKED-OUT								
2SFC*V21A, Pump Discharge Isolation Valve		Danger		CLOSED								
2SFC*V13A, Pump Suction Isolation Valve		Danger		CLOSED								
2SFC*V16A (vent) AND / OR 2SFC*V111A (drain)		Danger		OPEN								

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

Question:	
Using the attached Survey 68 for Turbine Building 277' Condensate Demin Valve Aisle, identify the radiological posting(s) required at the entrance to the area, if any.	
SAT	UNSAT

Answer:
<p>a. Contaminated Area Contaminated areas identified by dashed lines on the east side of the room with contamination levels of 24K dpm/100cm², 3100 dpm/100cm², and 420 dpm/100cm².</p> <p>b. High Radiation Area High radiation levels in the central west side of the Valve aisle near the 4" Resin Transfer Pipe with radiation levels of 110mr/hr and 900 mr/hr @ 30 cm.</p>

Technical Reference(s):
S-RAP-RPP-0103, Sect. 4.0

K/A #:	Importance:
2.3.10	2.9

Comments:

Candidate Copy

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

Question:

Using the attached Survey 68 for Turbine Building 277' Condensate Demin Valve Aisle, identify the radiological posting(s) required at the entrance to the area, if any.

Turbine Building 277' Condensate Demin Valve Aisle

Survey #: 2TB-17439

Date : 7/10/2002

Page : 1 of 1

- mRem/hr general area
 mRad/hr general area

30cm - dose rate @ 30cm from component

cont - dose rate @ contact with component

#

-contamination in dpm/100cm²

#

-contamination on component in dpm/100cm²

#

- location of LAW

boundary

No β detected unless otherwise noted.

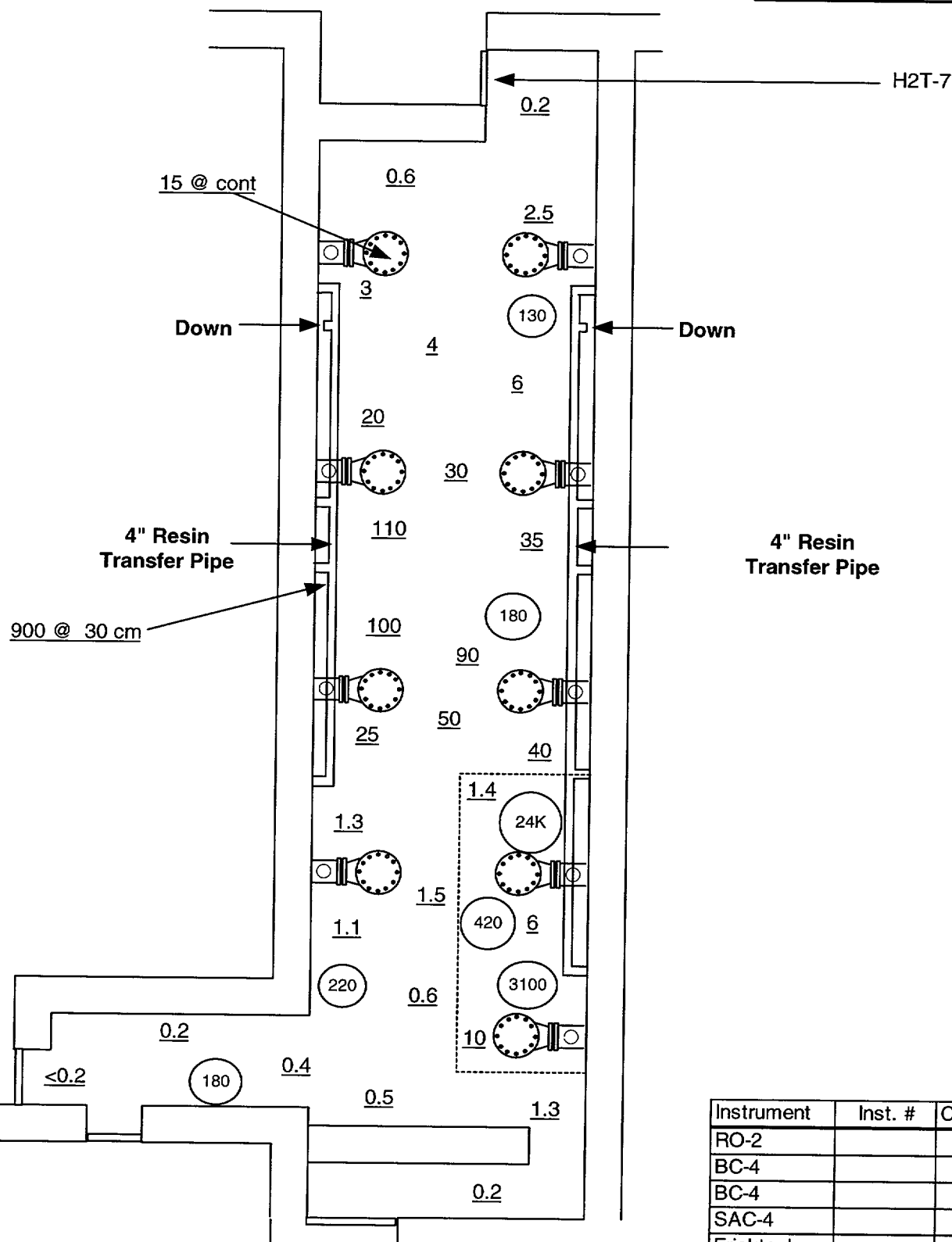
10 % of all smears >100dpm/100cm²
 were counted for α with results <10dpm/
 100cm² unless otherwise noted



Rx power level: 100 %

Surveyed by: R.Magnant

Exposure: mRem



Instrument	Inst. #	Cal Due date
RO-2		
BC-4		
BC-4		
SAC-4		
Frisktech		

Category “A” - Examination Outline Cross Reference

Question:

What, if any, are the requirements for performing this type of activity?

- To isolate the leak, obtain permission from Radiation Protection and sign in on the appropriate RWP is required.

SAT

UNSAT

GAP-RPP-08, Section 3.2, Rev. 8

Comments:

CANDIDATE'S COPY

Question:

While performing rounds in the Reactor Building, you notice a small leak has developed on a line inside of a High Radiation area. You know you can stop the leak immediately by reaching over the radiation rope boundary and tightening the isolation valve.

What, if any, are the requirements for performing this type of activity?

NINE MILE POINT NUCLEAR STATION
OPERATOR JOB PERFORMANCE MEASURE

Title: Perform required CSO actions for an injured AND contaminated person. Revision: 0

Task Number: 200-921-05-01-2 – Perform the actions required when notified of an injured and contaminated person in the plant.

Approvals:

_____/_____
General Supervisor Date
Operations Training (Designee)

_____/_____
General Supervisor Date
Operations (Designee)

_____/_____
Configuration Control Date

Performer: _____ (RO)

Trainer/Evaluator: _____

Evaluation Method: X Perform _____ Simulate

Evaluation Location: X 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. EPIP-EPP-04 and Attachment 1
2. NUREG K/A General Knowledges and Abilities 2.4.12 (3.4), 2.4.39 (3.3)

Tools and Equipment:

1. None

Task Standard:

Under the direction of the SSS, complete Attachment 1 of EPIP-EPP-04 when notified of an injured and contaminated person in the Plant.

Initial Conditions:

1. The Plant is operating at 100%.
2. You have just received a report that a Plant Mechanic has passed out in between the "B" & "C" Condensate Pumps.
3. The Mechanic is bleeding from the left arm and respiration is shallow.

Initiating Cues:

"(Operator's name), Perform the required actions, as the CSO."

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

RECORD START TIME _____

2. Obtain a copy of the reference procedure and review/utilize the correct section of the procedure.	Obtains a copy of EPIP-EPP-04. References Section 3.1 and Attachment 1.	Sat/Unsat
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3. Place the GAItronic in the "Merge" Mode.	Places the GAItronic in the " MERGE " mode, IF USED , by placing the switch on the Communications Console in the Control Room to the " MERGE " position.	Sat/Unsat/NA
NOTE: <u>If the Candidate chooses to use the GAItronic it should be placed in the "MERGE mode. Its OK if the Candidate chooses to NOT use the GAItronic, just mark this step NA.</u>		

4. Notify the Fire Brigade.	Notifies the FIRE BRIGADE AND requests response via the,	Pass/Fail
NOTE: <u>Any of the listed notification methods is acceptable.</u>		
	<ul style="list-style-type: none"> • GAItronic • Phone • Radio 	

	Dispatch the Fire Brigade to the scene to evaluate the situation.	Pass/Fail
CUE: <u>As the Fire Brigade Leader reply that, "the Brigade is on the way to the Condensate Pump Bay and I will report on the situation as soon as I arrive on the scene."</u>		

Performance Steps	Standard	Grade
5. Notify the SSS.	Notifies the SSS of the reported situation.	Pass/Fail
CUE: <u>As the SSS, acknowledge the Candidates report.</u>		
CUE: <u>As the Fire Brigade Leader, request Radiation Protection and Medical Department assistance. Also requests an ambulance as the Mechanic is still unconscious.</u>		
6. Contact Radiation Protection.	Contacts Radiation Protection AND request that they report to the scene of the medical emergency via,	Pass/Fail
NOTE: <u>Any of the listed notification methods is acceptable.</u>	<ul style="list-style-type: none"> • GAItronics • Phone • Radio 	
CUE: <u>As the Radiation Protection Tech state that, "Radiation Protection assistance is on the way to the Condensate Pump Bay and they will report on any radiation concerns as soon as they evaluate the scene."</u>		
7. Contact the Medical Department.	Contacts the Medical Department AND request that they report to the scene of the medical emergency via,	Pass/Fail
CUE: <u>As the Medical Department Representative acknowledge the report of the situation.</u>	<ul style="list-style-type: none"> • GAItronics • Phone • Radio 	
CUE: <u>As the Fire Brigade Leader at the scene report to the Candidate that, "Radiation Protection Technicians have determined that the injured Mechanic IS CONTAMINATED." Also request that an ambulance is required at this time.</u>		

Performance Steps	Standard	Grade
8. Contact Oswego County 911 Center.	<p>Contact OSWEGO COUNTY 911 CENTER and request an ambulance be sent to the NINE MILE POINT UNIT 2 SECURITY ACCESS.</p> <ul style="list-style-type: none"> • Via land telephone line at 343-1313. • Inform the 911 Center that the person for transport <u>IS</u> CONTAMINATED. 	<p>Sat/Unsat</p> <p>Pass/Fail</p>
<p>CUE: <u>As the 911 Center Operator acknowledge the request and that the person for transport is contaminated. State that an ambulance will be on the way shortly.</u></p>		
9. Contact Site Security Supervisor.	<p>Contacts the SITE SECURITY SUPERVISOR and request a security force member be sent to the Condensate Pump Bay <u>AND</u> informs them of the impending ambulance arrival.</p>	<p>Sat/Unsat</p>
<p>CUE: <u>As the Site Security Supervisor acknowledge the request.</u></p>		
10. Contact the Oswego Hospital.	<p>Contacts the OSWEGO HOSPITAL.</p> <ul style="list-style-type: none"> • Via land telephone line at 349-5522. • Informs them that ONE contaminated injured person will be transported to them. • Request that setup the RADIATION EMERGENCY AREA (REA). 	<p>Sat/Unsat</p> <p>Sat/Unsat</p> <p>Pass/Fail</p>
<p>CUE: <u>As the Oswego Hospital Representative acknowledge the report of the situation and state that the REA will be setup.</u></p>		
11. Request that Radiation Protection supervision and a Radiation Protection Tech report to the Oswego Hospital.	<p>Request the SSS to contact on-call Radiation Protection.</p> <p>State that Radiation Protection supervision and a Tech need to report to Oswego Hospital.</p> <p>State that a Radiation Protection Tech will accompany the contaminated injured person in the ambulance.</p>	<p>Sat/Unsat</p> <p>Sat/Unsat</p> <p>Sat/Unsat</p>
<p>CUE: <u>As the SSS, acknowledge that you will contact on-call Radiation Protection Supervisor.</u></p>		

Performance Steps	Standard	Grade
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12. Contact Site Security Supervisor.

Direct the **SITE SECURITY SUPERVISOR** to contact the **MANAGER, NUCLEAR COMMUNICATIONS AND PUBLIC AFFAIRS** AND provide details of the incident.

Sat/Unsat

CUE: As the Site Security Supervisor acknowledge the request.

CUE: As the Fire Brigade Leader, inform the Candidate that the contaminated injured person has left the site and is proceeding to Oswego Hospital in the ambulance.

13. Inform the SSS of the termination of the emergency.

Informs the SSS that the contaminated injured person has left the site in an ambulance and is being transported to Oswego Hospital.

Sat/Unsat

Indicates to the SSS that the emergency can be terminated.

Sat/Unsat

CUE: As the SSS, acknowledge the Candidates report.

Terminating Cue: The SSS has received and acknowledged the report that indicates the contaminated injured person has left the Site in an ambulance and that the Emergency can be terminated.

RECORD STOP TIME _____

Initial Conditions:

1. The Plant is operating at 100%.
2. You have just received a report that a Plant Mechanic has passed out in between the "B" & "C" Condensate Pumps.
3. The Mechanic is bleeding from the left arm and respiration is shallow.

Initiating Cues:

"(Operator's name), Perform the required actions, as the CSO."

Facility: Nine Mile Point # 2
 Examination Level (circle one): **SRO**

Date of Examination: July 29, 2002
 Operating Test Number: 1

Administrative Topic/Subject Description		Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions
A.1	Reactor Plant Startup Requirements	JPM - Given GAP-CHE-01 BWR Water Chemistry Limits and "Action Level 1" values exceeded for CDI conductivity, determine and make the appropriate notifications. K/A 2.1.34 (2.9) Task J341-022-03-03-2
	Plant Parameter Verification	JPM - Determination of Technical Specification Actions When in Single Loop Operation and APLHGR is Exceeded. K/A 2.1.7 (4.4) Task J341-032-03-03-2
A.2	Surveillance Testing	JPM - Given a completed surveillance test and appropriate results ensure test and results comply with specifications and requirements. K/A's 2.2.12 (3.4) 2.2.24 (3.8) Task J341-012-01-03-2
A.3	Control of Radiation Release	JPM - Direct Reactor Building Evacuation due to a Radiation Emergency K/A's 2.3.11 (3.2) 2.3.6 (3.1) Task J344-906-05-03-2
A.4	Emergency Classification	JPM - Emergency Plan Classification And Protective Action Recommendation Approval. K/A's 2.4.29 (4.0) 2.4.41 (4.1)

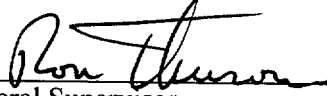
NINE MILE POINT NUCLEAR STATION
OPERATOR JOB PERFORMANCE MEASURE


Title: Notifications due to exceeding CDI Conductivity – Action Level 1

Revision: 0

Task Number: 341-022-03-03-2 Monitor Plant Chemistry Parameters to ensure conformance to requires Units.

Approvals:

 16/6/02
General Supervisor Date
Operations Training (Designee)

 16/3/02
General Supervisor Date
Operations (Designee)

N/A EXAM SECURITY
Configuration Control Date

Performer: _____ (SRO)

Trainer/Evaluator: _____

Evaluation Method: ☒ Perform ☐ Simulate

Evaluation Location: ☐ Plant ☒ Simulator

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

Start Time: _____ Stop Time: _____ Completion Time: _____

JPM Overall Rating: Pass Fail

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

Comments:

Evaluators Signature: _____ Date: _____

Recommended Start Location: (Completion time based on the start location)
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 #2

Task Standard:

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

Initial Conditions:

1. The Reactor is operating at 20% power.
2. You have just been handed a Chemistry Report that indicates Condensate (CDI) Conductivity ($\mu\text{S/cm}$) @ 25°C is reading 0.246.

Initiating Cues:

“(Operator’s name), determine if a Chemistry Action Level has been exceeded and if necessary, identify Station personnel that are required to be notified.”

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

RECORD START TIME _____

2. Obtain a copy of the reference procedure and review/utilize the correct section of the procedure.	GAP-CHE-01 obtained. Enclosure 2 is referenced.	Sat/Unsat
3. Determines Action Level 1 is exceeded	Using the supplied Chemistry Analysis information and Enclosure 2; <ul style="list-style-type: none"> • Determines that Action Level 1 <u>HAS</u> been exceeded under Section III.b. • Determines that Action Level 2 <u>HAS</u> <u>NOT</u> 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 of the parameter that has exceeded ACTION LEVEL 1 ; <ul style="list-style-type: none"> • SSS • Chemistry Manager • Operations Manager • Plant Manager, AND • Engineering Services Branch Manager. 	Sat/Unsat

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 20% power.
2. You have just been handed a Chemistry Report that indicates Condensate (CDI) Conductivity ($\mu\text{S}/\text{cm}$) @ 25°C is reading 0.246.

Initiating Cues:

“(Operator’s name), determine if a Chemistry Action Level has been exceeded and if necessary, identify Station personnel that are required to be notified.”

ENCLOSURE 2: WATER CHEMISTRY GUIDELINES - UNIT 2

Operating Condition/Parameter		Action Level			Prior to Startup			
		1	2	3				
I. Cold Shutdown (Mode 4,5)								
a. Reactor Water and Fuel Storage Pool								
Conductivity (μS/cm) @ 25°C		>2.0*	>5.0*	>10.0 ⁽¹⁾ *	≤1.0			
Chloride (ppb)		>100*	>200*	>500 ⁽¹⁾ *	≤100			
Sulfate (ppb)		>100	-	-	≤100			
pH at 25°C (Low)		<5.3*(1)	<4.9*	<4.6*				
(High)		>8.6*(1)	>9.3*	>9.6*				
II. Startup/Hot Standby (Mode 2,3)								
a. Reactor Water								
Conductivity (μS/cm) @ 25°C. ⁵		-	>1.0	>5.0	≤1.0			
			>2.0 ⁽¹⁾					
Chloride (ppb)		-	>100 ⁽¹⁾	>200	≤20			
Sulfate (ppb)		-	>100	>200	≤20			
Dissolved Oxygen (ppb) above 284°F (140°C)		>300						
pH @ 25°C (Low)		<5.6*(1)	<4.9*	<4.6*				
(High)		>8.6*(1)	>9.3*	>9.6*				
b. Feedwater/Condensate								
Feedwater and CDE Conductivity (μS/cm) @ 25°C		>0.15**	-	-				
Feedwater Suspended Corrosion Products (ppb)		>100	-	-				
Condensate (CDI) Conductivity (μS/cm) @ 25°C		>0.10*** ⁽⁴⁾	>0.5***	>1.0*** ⁽²⁾				
Feedwater Dissolved Oxygen (ppb)		>200**	-	-	<200**			
III. Power Operation (Mode 1) (>10% Power)		Normal Water Chemistry (NWC)			HWC/NMCA			
a. Reactor Water (>25% Power For Fuel Warranty Parameters)		Action Levels			Action Levels			
		1	2	3		1	2	3
Conductivity (μS/cm) @ 25°C		>0.30	>1.0 ⁽¹⁾	>5.0		0.30 ⁽⁶⁾	1.0	5.0
Chloride (ppb)		>5	>20	>100		>5	>50	>200
Sulfate (ppb)		>5	>20	>100		>5	>50	>200
pH at 25°C (Low)		<5.6*(1)	<4.9*	<4.6*				
(High)		>8.6*(1)	>9.3*	>9.6*				
b. Feedwater/Condensate								
Feedwater and CDE Conductivity (μS/cm) @ 25°C		>0.065*	>0.1*	>0.2*				
Individual Condensate Demineralizer Outlet conductivity (μS/cm) @ 25°C		>0.2****	>0.5****					
Condensate (CDI) Conductivity/(μS/cm) @ 25°C		>0.10	>0.5***	>1.0*** ⁽²⁾				
Feedwater Total Metals (ppb) Fe,Cu,Ni,Zn Sol and Insol		>15*	>30*	>60*				
Feedwater Total Iron (ppb) Total		>5 ⁽³⁾	>20*	>40*				
(Insol)		>10*						
(Sol)		>1.0*	>2.0*	>4.0*				
Feedwater Total Copper (ppb)		>0.2 ^{(3)(7)*}	>2.0*	>4.0*				
Feedwater and CDE Dissolved Oxygen (ppb) (low)		<20*	<10*	<5*				
(High)		>50*	>200*	>550*				
c. Control Rod Drive Water								
Conductivity (μS/cm) @ 25°C		>0.15	-	-				
Dissolved Oxygen(ppb)		>200	-	-				

(1) Technical Requirements Manual Actions are controlling.

(2) Limit of 10μS/cm applies with no chemical addition to circulating water system.

(3) EPRI Guidelines weekly integrated value.

(4) Limit applies during Chemical Additions

(5) During NMCA the Conductivity will intentionally exceed AL2 for over 48 hours. No further actions are required.

(6) Conductivity excludes contribution from Iron during and post noble metals chemical addition.

(7) Feedwater total copper Fuel Warranty action level 1 limit equals 0.5 ppb.

* Fuel Warranty Limits

** After establishing condenser vacuum with steam air ejector

*** SER 89-069 and SER 90-142

**** RG 1.56

NINE MILE POINT NUCLEAR STATION
OPERATOR JOB PERFORMANCE MEASURE

Title: Determination of Technical Specification Actions when in Single Loop Operation and APLHGR is exceeded. Revision: 0

Task Number: 341-032-03-03-2 – Evaluate Plant System's performance and coordinate appropriate actions per Technical Specifications, as required..

Approvals:

_____/_____
General Supervisor Date
Operations Training (Designee)

_____/_____
General Supervisor Date
Operations (Designee)

_____/_____
Configuration Control Date

Performer: _____ (SRO)

Trainer/Evaluator: _____

Evaluation Method: X Perform _____ Simulate

Evaluation Location: X 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)

Any appropriate location with the required Reference Material.

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. Plant Technical Specifications
2. NUREG K/A General Knowledges and Abilities 2.1.12(4.0)

Tools and Equipment:

1. 3D Monicore Periodic Log indicating MAPRAT is above 1.0

Task Standard:

Given current plant status and Thermal Limit information, determine the actions required by Technical Specifications.

Initial Conditions:

1. The Reactor was operating at 100% power when **ONE** RCS pump tripped due to an unknown cause.
2. N2-SOP-29 has been completed through step 4.3.3.g.
3. Maintenance is investigating the cause of the RCS Pump trip.

Initiating Cues:

“(Operator’s name), determine the actions required by Technical Specification.”

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

RECORD START TIME _____

2. Obtain a copy of the reference procedure and review/utilize the correct section of the procedure.	Obtains a copy of Technical Specifications. Refers to Reactor Coolant System (RCS) Section.	Sat/Unsat
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3. Enters T.S. - 3.4.1, Recirculation Loops Operating.	Enters T.S. – 3.4.1 and determines “ Single Loops ” operation is allowable as long as the specified LCO’s are met.	Pass/Fail
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NOTE: The Steps listed as c. and d. were accomplished by I&C in step 4.3.3.d of N2-SOP-29.

- a. LCO 3.2.1, Average Planar Linear Heat Generation Rate.
- b. LCO 3.2.2, Minimum Critical Power Ratio.
- c. LCO 3.3.1.1, Reactor Protection System (RPS) Instrumentation.
 - o Reset APRM Biased Thermal Power-Upscale for Single Loop.
- d. LCO 3.3.2.1, Control Rod Block Instrumentation.
 - o Reset RBM – Upscale for Single Loop.

CUE: <u>As the Reactor Engineer, provide the candidate with a copy of 3D Monicore Periodic Log.</u>	Review 3D Monicore Periodic Log and determine MAPRAT is above 1.0	Pass/Fail
	Determines APLHGR limit is being exceeded	Pass/Fail

Performance Steps	Standard	Grade
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4. Determines Technical Specification LCO requirements.

Refers to **T.S. 3.4.1, Condition "C"** and determines;

- The **APLHGR** must be returned to within its **LCO** limit within **four (4)** hours, and

Pass/Fail

Refers to **T.S. 3.2.1, Condition "A"** and determines;

- The **APLHGR(s)** must be restored to within limits within **two (2)** hours
- IF Required Action A.1 is not met, power must be below 25% RTP in four (4) hours per Required Action B.1

Pass/Fail

CUE: If asked as the Reactor Engineer, tell the Candidate that you are investigating Rod patterns that will lower the affected APLHGR.

Terminating Cue: **Appropriate Technical Specifications have been entered and LCO's referenced.**

RECORD STOP TIME _____

Initial Conditions:

1. The Reactor was operating at 100% power when ONE RCS pump tripped due to an unknown cause.
2. N2-SOP-29 has been completed through step 4.3.3.g.
3. Maintenance is investigating the cause of the RCS Pump trip.

Initiating Cues:

“(Operator’s name), determine the actions required by Technical Specification.”

CORE PARAMETERS

3D MONITORING
 10-JUL-2002 11:40 CALCULATED
 10-JUL-2002 11:40 PRINTED
 CASE ID FMD1020710114048
 RESTART FMD1020701041503
 LPRM SHAPE - FULL CORE
 LOAD LINE SUMMARY
 CORE POWER 68.3%
 CORE FLOW 50.5%
 LOAD LINE 106.0%
 CORRECTION FACTOR: MFLCPR= 1.133 MFLPD= 1.000 MAPRAP= 0.780
 OPTION: PRE-ARTS SINGLE LOOP MANUAL FLOW MCPRLTM= 1.330
 MOST LIMITING LOCATIONS (NON-SYMMETRIC)
 MFLCPR LOC MFLPD LOC MAPRAP LOC PGRAT LOC
 0.824 1.-17 0.775 54-25-42 1.032 4-25-42 0.667 4-25-42
 0.824 4-1 0.775 43-54-35 1.032 42-4-35 0.667 42-4-35
 0.824 42-4 0.775 1.-43-8 1.032 35-20-4 0.665 35-20-4
 0.824 35-20 0.775 4-1.-17 0.885 8-25-20 0.665 4-25-20
 0.824 4-25 0.685 20-4-1 0.885 17-52-21 0.665 38-4-21
 0.824 38-4 0.685 21-38-4 0.885 1.-43-52 0.665 39-38-4
 0.824 39-38 0.685 4-39-38 0.885 4-1.-43 0.460 10-39-24
 0.824 4-39 0.685 24-4-39 0.812 24-4-1 0.460 17-10-21
 0.824 24-4 0.685 21-24-4 0.812 21-24-4 0.460 1.-15-54
 0.824 25-38 0.685 4-25-38 0.812 4-25-38 0.460 4-1.-45

CORRECTION FACTOR: MFLCPR= 1.133 MFLPD= 1.000 MAPRAP= 0.780

OPTION: PRE-ARTS SINGLE LOOP MANUAL FLOW MCPRLTM= 1.330
 MOST LIMITING LOCATIONS (NON-SYMMETRIC)

MFLCPR LOC MFLPD LOC MAPRAP LOC PGRAT LOC
 0.824 1.-17 0.775 54-25-42 1.032 4-25-42 0.667 4-25-42
 0.824 4-1 0.775 43-54-35 1.032 42-4-35 0.667 42-4-35
 0.824 42-4 0.775 1.-43-8 1.032 35-20-4 0.665 35-20-4
 0.824 35-20 0.775 4-1.-17 0.885 8-25-20 0.665 4-25-20
 0.824 4-25 0.685 20-4-1 0.885 17-52-21 0.665 38-4-21
 0.824 38-4 0.685 21-38-4 0.885 1.-43-52 0.665 39-38-4
 0.824 39-38 0.685 4-39-38 0.885 4-1.-43 0.460 10-39-24
 0.824 4-39 0.685 24-4-39 0.812 24-4-1 0.460 17-10-21
 0.824 24-4 0.685 21-24-4 0.812 21-24-4 0.460 1.-15-54
 0.824 25-38 0.685 4-25-38 0.812 4-25-38 0.460 4-1.-45

SEQ. ADDN

C=MFLCPR D=MFLPD M=MAPRAP P=PGRAT *=MULTIPLE
 CORE AVE AXIAL NOTCH REL PM LOC

59	T.	38	4	35	38	4	35	38	00	35	02	04	06	08	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	VVV				
55	T.											0.069	0.482	4	0.02	0.04	0.06	0.08	0.10	0.12	0.14	0.16	0.18	0.20	0.22	0.24	0.26	0.28	0.30	0.32	0.34	0.36	0.38	0.40	0.42	0.44	0.46	VVV
51	T.																																			1.619	VVV	
47	T.																																			VVV		
43	16																																			VVV		
39	T.																																			VVV		
35	12																																			VVV		
31	T.																																			VVV		
27	16																																			VVV		
23	T.																																			VVV		
19	12																																			VVV		
15	T.																																			VVV		
11	16																																			VVV		
07	T.																																			VVV		
03	1																																			VVV		
02	T.																																			VVV		
01	T.																																			VVV		

CORE AVERAGE RADIAL POWER DISTRIBUTION

RING # 1 2 3 4 5 6 7 8
 REL PM 1.558 VVV VVV VVV VVV VVV VVV VVV

NINE MILE PT2 CY08 INSTRUMENT READINGS/STATUS
CALIBRATED LPRM READINGS

PAGE 2

SEQUENCE NO 11
10-JUL-2002 11:40 CALCULATED
10-JUL-2002 11:40 PRINTED
CASE ID FMLD1020710114048
LPRM SHAPE - FULL CORE

57D		1.3	0.3	1.1	1.1		
C		1.2	1.2	1.1	1.1		
R		1.0*	0.8	13.0	16.5		
A		17.3	15.1	26.2	33.2		
49D	34.6	30.3	29.9	37.8	39.4	34.5	
C	40.4	51.0	53.3	46.6	14.4	19.9	
R	20.3	20.5	20.1	18.0	28.9	39.9	
A	36.9	41.1	36.5	36.2	32.9	45.4	
41D	40.0	46.7	39.5	41.2	44.5	61.4	52.5
C	63.1	52.0	55.6	19.6	20.6	21.8	21.8
R	21.2	20.1	15.1	39.3	37.4	43.9	37.8
A	42.6	36.5	30.3	44.7	40.5	49.9	42.8
33D	48.5	39.5	34.5	60.4	53.2	67.4	56.3
C	65.5	52.0	46.6	20.0	21.2	21.6	21.4
R	21.8	20.5	17.3	40.1	42.6	37.5	43.0
A	37.8	41.1	34.7	45.6	48.5	42.5	48.9
25D	42.9	46.7	39.4	61.6	65.5	55.9	66.1
C	56.4	63.1	53.3	19.9	21.0	21.7	21.6
R	21.9	20.3	16.5	39.9	38.1	43.6	37.5
A	43.9	36.9	33.2	45.4	41.2	49.7	42.5
17D	49.9	40.0	37.8	61.4	54.2	67.1	55.9
C	67.5	52.6	51.0	17.3	20.2	21.0	21.2
R	20.6	19.9	13.1	34.7	40.6	38.1	42.6
A	37.4	39.9	26.3	39.4	46.2	41.2	48.5
09D		40.5	45.4	29.9	53.3	62.4	
C		54.2	65.5	53.3	61.4	40.4	
R		17.3	19.9	20.0	19.6	14.4	
A		34.7	39.9	40.1	39.3	28.9	

FAILED SENSORS:
LPRM (0 SIGNAL FAILED)
LPRM (0 PANACEA REJECTED)
OTHER SENSORS (0 TOTAL)

SUB RODS
NONE

T = TIP RUN RECOMMENDED
C = MFLCPR LOCATION
M = MAPRAT LOCATION
D = MFLPD LOCATION
P = PCRAT LOCATION
* = MULTIPLE LOCATION

08 16 24 32 40 48 56

CORE SUMMARY

CORE POWER	39.4%	CALC SUB FLOW	45.4%	DP MEAS PST	45.60
CORE FLOW	44.7%	OPER SUB FLOW	-0.9%	DP CALC PST	32.93
LOAD LINE	53.3%	FLOW BASTS	MEAS	FEEDWTR FLOW MLR/HR	61.39

APRM CALIBRATION

READING	1	2	3	4
AGAF	61.6	60.4	44.5	68.3
	54.904	4.956	50.527	4.814
APRM - %CTP	105.9	9.7	70.9	70.9

TIP RUNS RECOMMENDED
STRINGS: NONE

NINE MILE POINT NUCLEAR STATION
OPERATOR JOB PERFORMANCE MEASURE

Title: Review and Approval of Completed Surveillance Test N2-OSP-DER-Q001, Revision: 0
Drywell Equipment Drains Valve Operability Test.

Task Number: 341-012-01-03-2 Review surveillance test results to ensure compliance with specifications.

Approvals:

Ron Thurman 16/6/02
General Supervisor Date
Operations Training (Designee)

John 6/3/02
General Supervisor Date
Operations (Designee)

N/A EXAM SECURITY
Configuration Control Date

Performer: _____ (SRO)

Trainer/Evaluator: _____

Evaluation Method: ☒ Perform ☐ Simulate

Evaluation Location: ☐ Plant ☒ Simulator

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

Start Time: _____ Stop Time: _____ Completion Time: _____

JPM Overall Rating: Pass Fail

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

Comments:

Evaluators Signature: _____ Date: _____

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

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. N2-OSP-DER-Q001, Drywell Equipment Drains Valve Operability Test
2. NUREG K/A General Knowledges and Abilities 2.2.12 (3.4), 2.2.24 (3.8)

Tools and Equipment:

1. Copy of N2-OSP-DER-Q001, Drywell Equipment Drains Valve Operability Test, completed through Step 9.4.

Task Standard:

Given a copy of N2-OSP-DER-Q001, Drywell Equipment Drains Valve Operability Test, completed through Section 9.4. Complete Section 10.0, Acceptance Criteria and determine if the valves meet the proper specifications.

Initial Conditions:

1. The Plant is operating at 100% power.
2. N2-OSP-DER-Q001, Drywell Equipment Drains Valve Operability Test, has just been completed through Section 9.4.

Initiating Cues:

“(Operator’s name), this is a copy of N2-OSP-DER-Q001, Drywell Equipment Drains Valve Operability Test, just completed through Section 9.4, as the Station Shift Supervisor, review the test results and complete Sections 10.1 and 10.2.”

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

RECORD START TIME _____

2. Review/utilize the correct section of the procedure.	Reviews General Test Methods, References/Commitments and the Precaution and Limitation Sections.	Sat/Unsat
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Evaluator is to provide the marked up copy of N2-OSP-DER-Q001, DRYWELL EQUIPMENT DRAINS VALVE OPERABILITY TEST, to the candidate.

3. Determines Status of the completed Surveillance.	Review of the completed sections of N2-OSP-DER-Q001, DRYWELL EQUIPMENT DRAINS VALVE OPERABILITY TEST.	Sat/Unsat
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CUE: As the Assistant Station Shift Supervisor, tell the Candidate that you are entering the Tech. Specs. and will advise him on the LCO requirements.

Determines that 2DER*MOV131, **EQUIPMENT DRAIN TANK VENT OUTBOARD ISOLATION VALVE**, is **NOT OPERABLE**, due to;

- Step 8.7, stroke time, greater than Tech. Spec. limit [≤ 18 sec.].
- Surveillance is **UNSATISFACTORY.**

Pass/Fail

4. Notify appropriate Plant Management.	Completes Sections 10.1 and 10.2 of N2-OSP-DER-Q001, DRYWELL EQUIPMENT DRAINS VALVE OPERABILITY TEST.	Sat/Unsat
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CUE: As the Manager of Operations acknowledge the status presented.

Notifies **MANAGER OF OPERATIONS** or designee.

Sat/Unsat

Terminating Cue: Determination of the status of this surveillance has been made and the proper notifications have been performed.

RECORD STOP TIME _____

Initial Conditions:

1. The Plant is operating at 100% power.
2. N2-OSP-DER-Q001, Drywell Equipment Drains Valve Operability Test, has just been completed through Section 9.4.

Initiating Cues:

“(Operator’s name), this is a copy of N2-OSP-DER-Q001, Drywell Equipment Drains Valve Operability Test, just completed through Section 9.4, as the Station Shift Supervisor, review the test results and complete Sections 10.1 and 10.2.”

NINE MILE POINT NUCLEAR STATION
OPERATOR JOB PERFORMANCE MEASURE

Title: Direct Reactor Building Evacuation due to a Radiation Emergency. Revision: 0

Task Number: 344-906-05-03-2 – Direct Actions required for a Radiation Emergency.

Approvals:

General Supervisor /
Operations Training (Designee) Date

General Supervisor /
Operations (Designee) Date

Configuration Control /
Date

Performer: _____ (SRO)

Trainer/Evaluator: _____

Evaluation Method: X Perform _____ Simulate

Evaluation Location: _____ Plant X 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 appropriate location with the required Reference Material.

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. EPIP-EPP-5A and Attachment 1
2. NUREG K/A General Knowledges and Abilities 2.3.10(3.3), 2.4.29(4.0) 2.4.38(4.0)

Tools and Equipment:

1. None

Task Standard:

Given a set of Plant conditions, direct actions to evacuate a local area without an Emergency Classification being declared.

Initial Conditions:

- The Reactor is operating at 100% power.
- It is Day Shift on a Tuesday morning and normal work is being carried out in the Reactor Building.
- I&C is working in the TIP Room.
- A problem with one of the TIP probes has caused a high radiation condition in that area
- Several area Rad Monitors on Reactor Building 240 and 261 are alarming.
- Current radiation readings in the TIP Room area are 600 mr/hr.
- **NO** emergency has been declared.

Initiating Cues:

“(Operator’s name), Take necessary action to ensure safety of plant personnel.”

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

RECORD START TIME _____

1. Obtain a copy of the reference procedure and review/utilize the correct section of the procedure.	EPIP-EPP-5A is obtained and Attachment 1 is referenced.	Sat/Unsat
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Evaluator is to provide a blank copy of EPIP-EPP-05A, Attachment 1 to the candidate.

2. Inserts information into Attachment 1 of EPIP-EPP-5A.	Inserts the following information into ATTACHMENT 1 ;	
	• (Block 3a): “This is NOT a Drill.	Pass/Fail
	• (Block 3b): Nine Mile Point, Unit 2 is evacuating the Reactor Building (minimum acceptable area is RB 240 and 261 elevations)	Pass/Fail
	• (Block 3c): Due to high radiation conditions	Pass/Fail
	• (Block 3d): ALL personnel should leave the Unit 2 Reactor Building (minimum acceptable area is RB 240 and 261 elevations).	Pass/Fail

Performance Steps	Standard	Grade
	<ul style="list-style-type: none"> Personnel should NOT leave the area via any North or West accesses. Staying clear of the TIP Room. Personnel should report to their normal work locations. 	Sat/Unsat Pass/Fail
CUE: (Block 3e) <u>When asked by the Candidate, state that “ACCOUNTABILITY” is NOT being performed.</u>	<ul style="list-style-type: none"> (Block 3e): Should be left blank, based on the Cue 	
NOTE: (Block 3f) <u>The Candidate may check either of these boxes as this is up to his/her opinion.</u>	<ul style="list-style-type: none"> (Block 3f): Checks either block 1 or 2 	Sat/Unsat
	<ul style="list-style-type: none"> (Block 3g): Circles “is not a drill”. 	Sat/Unsat
6. Provide completed Attachment 1 to the CSO.	Provides the CSO with the completed ATTACHMENT 1.	Sat/Unsat
Cue: When the Candidate completes ATTACHMENT 1 , inform candidate that the CSO will make the announcement.		
Terminating Cue: When the Candidate has completed Attachment 1 and given it to the CSO for announcement.		

RECORD STOP TIME _____

Initial Conditions:

- The Reactor is operating at 100% power.
- It is Day Shift on a Tuesday morning and normal work is being carried out in the Reactor Building.
- I&C is working in the TIP Room
- A problem with one of the TIP probes has caused a high radiation condition in that area
- Several area Rad Monitors on Reactor Building 240 and 261 are alarming.
- Current radiation readings in the TIP Room area are 600 mr/hr.
- NO emergency has been declared.

Initiating Cues:

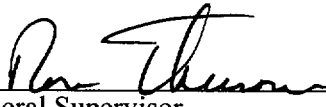
“(Operator’s name), Take necessary action to ensure safety of plant personnel.”


NINE MILE POINT NUCLEAR STATION
OPERATOR JOB PERFORMANCE MEASURE

Title: Emergency Classification and Protective Action Recommendations (PAR'S) Revision: 0

Task Number: 344-019-03-03-2 – Classify Emergency Events requiring Emergency Plan Implementation.
344-902-05-03-2 – Make Protective Action Recommendations as necessary per EPP's.

Approvals:


General Supervisor
Operations Training (Designee) 16/6/02
Date


General Supervisor
Operations (Designee) 16/3/02
Date

N/A 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: 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 the 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 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. EPIP-EPP-02, Classification of Emergency Conditions at Unit 2
2. EPIP-EPP-18, Activation and Direction of Emergency Plans
3. EPIP-EPP-08, Off-Site Dose Assessment and Protective Action Recommendation
4. Unit 2 EOP Flow Charts, N2-EOP-C2, N2-EOP-C5, and N2-EOP-PC
5. NUREG 1123, 2.4.16(4.0), 2.4.29(4.0), 2.4.40(4.0), 2.4.41(4.1), 2.4.44(4.0)

Tools and Equipment:

1. N2-EOP Flowcharts, EAL Matrix and marked up copy of Part I Notification Fact Sheet

Task Standard:

Given a set of Plant conditions, classify the Emergency and make Protective Action Recommendations (PAR's) as required.

Initial Conditions:

- A LOCA is in progress, Drywell pressure is 10 psig rising slowly and N2-EOP-PC has been entered.
- Not all Control Rods were fully inserted on the Scram, N2-EOP-C5, Failure to Scram, has been entered.
- All attempts to insert the Control Rods have failed to this point.
- Indicated Reactor Vessel Water level was -85 inches and remaining fairly constant.
- Reactor Power is 12% as indicated on SPDS.
- N2-EOP-C2, RPV Blowdown, has been entered.
- All 7 ADS Valves are open
- Reactor Pressure is 100 psig and lowering slowly.
- Indicated Reactor Vessel Water level is -90 inches and slowly lowering, following the blowdown.
- ALL available "Preferred ATWS Injection Systems" and "Alternate ATWS Injections Systems" are injecting into the Reactor Vessel.

Initiating Cues:

"(Operator's name), using the Emergency Operating Procedures (EOP's) and Emergency Action Level Matrix, determine the required Emergency Classification for this event."

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

RECORD START TIME _____

Part A

1. Obtain a copy of the reference procedure and review/utilize the correct section of the procedure.	N2-EOP-C5 is referenced and reviewed against current conditions. EPIP-EPP-02 Attachment 1 (EAL Matrix) referenced.	Sat/Unsat
2. Determines and declares a "General Emergency".	Determines that with the provided conditions, N2-EOP-C5 must be exited and all SAP's entered from Step L-18 (or Step L-8).	Sat/Unsat
	GENERAL EMERGENCY is declared based on Primary Containment Flooding IS REQUIRED (EAL GE 2.1.3 <u>OR</u> 2.2.3)	Pass/Fail

Part B

NOTE: If the candidate declares an event below the General Emergency level, the critical step is unsatisfactory. The JPM shall be stopped.

EVALUATOR: When the candidate declares a General Emergency, provide the candidate with attached Part B Initial Conditions and Initiating Cue Information Sheet.

Cue: As the Control Room Communicator , provide the candidate with the attached Part I- Notification Fact Sheet for SSS/ED review.

- | | | |
|---|--|------------------|
| 3. Review Part I- Notification Fact Sheet. | Refers to EPIP-EPP-08, Step 3.1.2 to review and approve Part I- Notification Fact Sheet | Sat/Unsat |
| NOTE: If necessary, inform the candidate that verification of data other than Block #7 on the notification sheet is not required. Only the verification of PARs is required. | | |
| 4. Determines ERPAs to be evacuated and sheltered. | Refers to EPIP-EPP-08, Attachment 1 Uses TABLE 1.2 to determine affected ERPA's , based on wind direction of 280°, identified in Block #12 of the Part I. | Sat/Unsat |
| 5. Confirms ERPAs identified on Part I are correctly identified. | <p>Confirms the following ERPAs are identified in Block #7</p> <ul style="list-style-type: none"> • Block #7 B: EVACUATES two (2) miles around and five (5) miles downwind of the following ERPA's: <ul style="list-style-type: none"> ○ 1, 2, 3, 4, 5, 7, 9, 26, 27. <li style="text-align: center;">AND ○ SHELTERS all remaining ERPA's. | Pass/Fail |
| 6. Indicates approval of the Part I- Notification Fact Sheet PARs by signing the "Approved By (SSS/ED or ED/RM)" line on the bottom of the form OR for this JPM, verbally indicates to the Evaluator that the PARs are correct. | Signs "Approved By (SSS/ED or ED/RM)" line on the bottom of the form OR verbally indicates to the Evaluator that the PARs indicated on the sheet are correct. | Pass/Fail |

Terminating Cue: Determination of an Event Classification and Protective Action Recommendations (PAR's) for the given situation.

RECORD STOP TIME _____

Part A

Initial Conditions:

- A LOCA is in progress, Drywell pressure is 10 psig rising slowly and N2-EOP-PC has been entered.
- Not all Control Rods were fully inserted on the Scram, N2-EOP-C5, Failure to Scram, has been entered.
- All attempts to insert the Control Rods have failed to this point.
- Indicated Reactor Vessel Water level was -85 inches and remaining fairly constant.
- Reactor Power is 12% as indicated on SPDS.
- N2-EOP-C2, RPV Blowdown, has been entered.
- All 7 ADS Valves are open
- Reactor Pressure is 100 psig and lowering slowly.
- Indicated Reactor Vessel Water level is -90 inches and slowly lowering, following the blowdown.
- **ALL** available “Preferred ATWS Injection Systems” and “Alternate ATWS Injections Systems” are injecting into the Reactor Vessel.

Initiating Cues:

“(Operator’s name), using the Emergency Operating Procedures (EOP’s) and Emergency Action Level Matrix, determine the required Emergency Classification for this event.”

Part B Initial Conditions and Initiating Cue Information Sheet

Initial Conditions:

1. A General Emergency has been declared, based on the previous plant conditions
2. You have assumed the role as SSS/ED in the Control Room.

Initiating Cue:

“(Operator’s Name), Prior to transmitting the Part I- Notification Fact Sheet to offsite agencies, review and approve the Protective Action Recommendations that are identified on the Part I- Notification Fact Sheet, that has been provided to you by the Control Room Communicator”.