P.O. Box 63 Lycoming, NY 13093



NMP-97991 September 9, 2004

Mr. Samuel J. Collins Regional Administrator USNRC Region I 475 Allendale Road King of Prussia, PA 19406 - 1415

ATTENTION: Mr. John G. Caruso, Senior Examiner/Inspector

SUBJECT: NINE MILE POINT UNIT 1 INITIAL OPERATOR EXAMINATION SUBMITTAL

Dear Mr. Collins:

In response to the NRC Letter of June 17, 2004 entitled SENIOR REACTOR AND REACTOR OPERATOR INITIAL EXAMINATIONS - NINE MILE POINT NUCLEAR STATION, UNIT 1, arrangements have been made for the administration of licensing examinations at Nine Mile Point, Unit 1 during the week of 1 November 2004. The examinations have been prepared based on the guidelines in Revision 9 of NUREG 1021, "Operator Licensing Examination Standards for Power Reactors." To meet the examination schedule, Nine Mile Point Nuclear Station was requested to furnish the examinations by September 10, 2004.

Enclosed are the written examinations, operating tests and supporting reference materials for the Reactor Operators and Senior Reactor Operators. The enclosed materials have been approved for use by NMP in accordance with 10CFR55.40(b)(3).

Please withhold this examination material from public disclosure until after the examinations have been completed.

If you have any questions regarding the submittal, please contact Gregg Pitts (General Supervisor Operations Training) at 315-349-1864, or Michael Jaquin (Initial Operations Training Supervisor) at 315-349-1508.

Sincerely Y. Evans Terrv/

Manager Nuclear Training

TAE/crr Enc. ES-301

Administrative Topics Outline

Form ES-301-1

Facility: NINE MILE POINT 1		Date of Examination: 11/1/2004
Examination Level (circle one): RO		Operating Test Number: NRC-01
Administrative Topic	Describe activity to	be performed:
Conduct of Operations	ACTIONS FOR DI DETERMINING AI Make entries for de log including postin 2.1.1 (3.7) Knowle 2.1.18 (2.9) Ability records / status bo GAP-OPS-01; 3.1	EFEATED ANNUNCIATORS TO INCLUDE ND APPLYING APPROPRIATE STICKERS. efeated annunciators into defeated annunciator ng the appropriate yellow and/or red stickers. dge of conduct of operations requirements. to make accurate / clear and concise logs / aards / and reports. 0.7 and Attachment 1
Equipment Control	VERIFICATION O Evaluate electronic personnel protectio for accuracy and th 2.2.13 (3.6) Knowl 2.1.24 (2.8) Ability mechanical drawin GAP-OPS-02; 3.1	<i>F ELECTRONIC CLEARANCE.</i> c clearance sheets for correctness and on requirements including verification of tags neir correct use. edge of tagging and clearance procedures. to obtain and interpret station electrical and ogs. 1
Radiation Control	RADIOLOGICAL INSPECTION OF Given conditions r conditions in the a applicable condition of the job are met 2.3.10 (2.9) Ability levels of radiation GAP-RPP-01: 3.5	REQUIREMENTS RELATED TO OPERATOR RAD AND HIGH RAD AREAS. elated to an area to be inspected, radiological rea as shown on a survey map, and other ons, ensure the appropriate radiological aspects prior to performance of the inspection. to perform procedures to reduce excessive and guard against personnel exposure. . 3.6. 3.7. GAP-RPP-02: 3.1. 3.3.
	GAP-RPP-08; 3.2	, 3.3, N1-PM-M5; 6.0, 8.0
Emergency Plan	ACTIONS FOR E. Given plant condit actions per SOP-3 10, Security Contin Contingency Even 2.4.12 (3.4) Known during emergency 2.4.39 (3.3) Known plan implementation	XTERNAL SECURITY THREATS. ions, respond to a security threat including 3, External Security Threats, and EPIP-EPP- ngency Event, including Attachment 2, Security t (CSO Checklist) ledge of general operating crew responsibilities operations. ledge of the RO responsibilities in emergency on.
	SOP-33 and EPIF	P-EPP-10; Attachment 2
NOTE: All items (5 total) a they are retaking only the	are required for SRO administrative topics	 s. RO applicants require only 4 items unless s, when 5 are required.

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ES-301

Administrative Topics Outline

Form ES-301-1

Facility: NINE MILE POINT 1		Date of Examination: 11/1/2004
Examination Level (circle	one): SRO	Operating Test Number: NRC-01
Administrative Topic	Describe activity to	be performed:
Conduct of Operations PERFORM PLANT IM SRO will be required to DER review including r 2.1.1 (3.8) Knowledge 2.4.30 (3.6) Knowledge operations/status should DER-NM-2004-1428, 1 From Service		<i>T IMPACT REVIEW FOR A DER.</i> ed to perform several actions in response to a ling recognition that the event is reportable. dge of conduct of operations requirements. ledge of which events related to system should be reported to outside agencies. 28, 11 Containment H2O2 System Removed
	NIP-ECA-01; 3.2,	and Attachment 2.
Conduct of Operations	EVALUATE PLAN Review plant daily identify and detern specification react 2.1.25 (3.1) Ability materials such as contain performan 2.1.34 (2.9) Ability chemistry within al	NT CHEMISTRY REPORT AND RESPOND. status report, which includes plant chemistry, nine required actions in response to out-of- or coolant chemistry parameters. to obtain and interpret station reference graphs / monographs / and tables which ce data. to maintain the primary and secondary plant llowable limits.
	Threshold for Su	lfates
	GAP-CHE-01; 3.2	; Enclosure 1
Equipment Control	DETERMINE POS FOR REFUELING Given conditions re during refueling (or required to determ implement those re used and the step operability. 2.2.21 (3.5) Knowl requirements. 2.2.26 (3.7) Knowl	ST MAINTENANCE TEST REQUIREMENTS elated to a failure of the refueling interlocks ver-core limit switch failure), the SRO will be ine post-maintenance test requirements and equirements by indicating the procedure to be s that must be performed to demonstrate ledge of pre and post maintenance operability ledge of refueling administrative requirements.
	GAP-SAT-02; 3.1,	Attachments 1 and 2
	LER 2002-002. L CIRCUIT BREAK maintenance test compliance with	OSS OF ONE CRD PUMP TRAIN DUE TO ER FAILURE. Cause was inadequate post ting. Contributing factors included lack of admin procedures.

ES-301

Administrative Topics Outline

Form ES-301-1

Facility: NINE MILE POINT 1 Examination Level (circle one): SRO		Date of Examination: 11/1/2004 Operating Test Number: NRC-01		
Administrative Topic	Describe activity to be	e performed:		
Radiation Control	DIRECT EXCLUSION AREA EVACUATION IN RESPONSE SITE AREA EMERGENCY WITH A RELEASE IN PROGRES Given plant conditions and a required exclusion area evacuati direct the appropriate actions per EPIP-EPP-05C. 2.3.10 (3.3) Ability to perform procedures to reduce excessive levels of radiation and guard against personnel exposure. 2.4.40 (4.0) Knowledge of the SRO's responsibilities in emergency plan implementation. EPIP-EPP-05C: Section 3.1 Attachment 1			
Emergency Plan	CLASSIFY EMERGENCY EVENTS FOR SCENARIO (EAL) AND COMPLETE NOTIFICATION FACT SHEET (PART 1). Classify emergency events based on plant conditions during th simulator scenario in which the candidate is the SRO and complete the notification fact sheet (Part 1 only) for transmittal within a specified period of time (TIME CRITICAL to ensure information can be transmitted within 15 minutes).			
	2.4.41 (4.1) Knowledge of the emergency action level thresho and classifications. 2.4.43 (3.5) Knowledge of emergency communication system and techniques. EPIP-EPP-01; EPIP-EPP-01-EAL; EPIP-EPP-20; 3.1 and Attachment 1A			
NOTE: All items (5 total) a they are retaking only the	ire required for SROs. administrative topics, w	RO applicants require only 4 items unless hen 5 are required.		

Constellation Energy Group OPERATOR JOB PERFORMANCE MEASURE

	led Alliunciators		Revision. NRC 200
Task Number: 2990090	0301		
Approvals:	Run 9klot	NA EXAMINATION S	SECURITY
General Supervisor	Date	General Supervisor	Date
Operations Training (Desig	gnee)	Operations (Designee)	
Configuration Control	Date		
Darformar	(PA)		
Performer:	(RO)		
Performer: Trainer/Evaluator:	(RO)		
Performer: Trainer/Evaluator: Evaluation Method: PERF	(RO)		
Performer: Trainer/Evaluator: Evaluation Method: PERF Evaluation Location: SIM	(RO) FORM ULATOR		
Performer: Trainer/Evaluator: Evaluation Method: PERF Evaluation Location: SIM Expected Completion Time	(RO) FORM ULATOR e: 10 minutes Time	Critical Task: NO	Alternate Path Task: NO
Performer: Trainer/Evaluator: Evaluation Method: PERF Evaluation Location: SIM Expected Completion Time Start Time:	(RO)	Critical Task: NO Comp	Alternate Path Task: NO letion Time:

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

Comments:

Evaluator Signature:_____

Date:_____

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

N/A

Simulator Set-up:

N/A

Directions to the Instructor/Evaluator: Simulator available for use to post defeated annunciator sticker(s)

Directions to Operators:

Read Before Every JPM Performance:

For the performance of this JPM, I will function as the SM, 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.

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 additional / concurrent verifier.

Notes to Instructor / Evaluator:

- 1. Critical steps are identified 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-01; 3.10.7, and Attachment 1
- 2. K/A 2.1.1 (3.7) Knowledge of conduct of operations requirements.
- 3. K/A 2.1.14 (2.5) Knowledge of system status criteria which require the notification of plant personnel.
- 4. K/A 2.1.18 (2.9) Ability to make accurate / clear and concise logs / records / status boards / and reports.
- 5. K/A 2.1.24 (2.8) Ability to obtain and interpret station electrical and mechanical drawings.

Tools and Equipment:

- 1. YELLOW Defeated Annunciator stickers
- 2. RED Defeated Annunciator stickers.

Task Standard: Correctly labeled and correct color sticker for the clearance W0403 and correct entries made into the defeated annunciator log. Refer to Attachment 1 for properly completed defeated annunciator.



- 1. You are the CSO.
- 2. The clearance has been hung and includes the defeat of annuciator inputs.
- 3. There are currently no defeated annunciators.
- 4. Ask the operator for any questions.

Initiating cue:

"(Operator's name), perform the applicable actions for the defeated annunciator inputs."

Performa	nce Steps	Standard	Grade	Comments
1. Provi Evalu provi	de repeat back of initiating cue. aator Acknowledge repeat back ding correction if necessary	Proper communications used for repeat back (GAP-OPS-O1)	Sat/Unsat	

RECORD START TIME ____

- 2. •Obtain a copy of the reference procedure and review/utilize the correct section.
- GAP-OPS-01 obtained.
- Section 3.10.7 referenced.
- Attachment 1 referenced.



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Performance Steps	Standard	Grade	Comments
3. •Correctly identifies the defeated			
annunciators:			L
	NOTE: circle the work order evaluated.		
a. A transparent yellow sticker shall be used to indicate one or more multiple inputs have been defeated	Determines yellow sticker is appropriate and uses a yellow sticker (W0403).	Pass/Fail/NA	
Prompt: You have entered data on the appropriate sticker and the sticker has been applied to the annunciator.			
c. Document number authorizing the defeated annunciator and associated computer point(s) identified on the yellow sticker.	Enters the clearance number and defeated computer points on the yellow sticker (WO403).	Sat/Unsat	
 Ensure annunciators defeated by a clearance are entered in the Defeated Annunciator Log. 	Obtains a copy of GAP-OPS-01, Attachment 1, DEFEATED ANNUNCIATOR LOG.	Sat/Unsat	
	NOTE: Sample defeated annuciator log for each assignment provided at end of JPM.		
a. Complete Item 1 Unit Number. Enter affected unit (1 or 2).	Enters 1.	Pass/Fail	·

Perforn	nance Steps	Standard	Grade	Comments
b.	•Complete Item 2. Annunciator Window Number: Enter affected annunciator window designation and defeated computer points.	Enters defeated annunciator L1-1-1 and computer point B048.	Pass/Fail	
c.	•Complete Item 3. Controlling Document: Enter control document for defeating the annunciator.	Enters clearance number.	Pass/Fail	
d.	•Complete Item 4. Reason for Defeating: Enter brief description of why the annunciator is defeated.	Enters reason for defeat: PREVENT MASKING OF ALARM FOR 112 FAN.	Pass/Fail	
Pro	ompt: SM will complete item 5.			
e.	•Item 5. Compensatory Action(s) – SM Init/Date: The SM shall enter identified compensatory measures resulting from defeat of annunciators including a brief description of actions applied and shall initial the entry.	<i>Identified item 5 to be competed by the SM.</i> <i>See step 4 for recommended compensatory</i> <i>actions.</i>	Sat/Unsat	
f.	•Item 6. Defeated - CSO Init/Date: CSO initials and date indicate the annunciator has been temporarily defeated.	Enters initials and date.	Pass/Fail	

Perfor	mance Steps	Standard	Grade	Comments
Pr	compt: You have entered data on			
th	e appropriate sticker and the			
sti	cker has been applied to the			
an	nunciator.			· · · · · ·
g.	•Item 7. Sticker On - CSO Init/Date: CSO initials and date indicate the application of a sticker to the annunciator	Enters initials and date.	Sat/Unsat	
	window tile.			
h.	•Item 8. Restored - CSO Init/Date:	Determines not applicable until after annunciator is no longer defeated.	Sat/Unsat	
i.	•Item 9. Sticker Off - CSO Init/Date:	Determines not applicable until after annunciator is no longer defeated.	Sat/Unsat	
j.	•Item 10. Restored - SM Init/Date:	Determines not applicable until after annunciator is no longer defeated.	Sat/Unsat	

End of JPM

TERMINATING CUE: Defeated annunciator sticker posted and defeated annunciator log entries made.

RECORD STOP TIME_____

Initial Conditions for clearance W0403:

- 1. You are the CSO.
- 2. The clearance has been hung and includes the defeat of annuciator inputs.

Specifically: Relay 2H6 and Relay 2L7 are pulled for ANN L1-1-1.

- 3. There are currently no defeated annunciators.
- 4. Ask the operator for any questions.

Initiating cue:

"(Operator's name), perform the applicable actions for the defeated annunciator inputs."

ATTACHMENT 1: DEFEATED ANNUNCIATOR LOG

Page 1 of 2

NINE MILE P NUCLEAR ST	OINT ATION	Ű	DEFEATED A	NNUNCIATO	DR LOG		1. Unit No	^{».} 1
2 Annunciator Window Number	3 Controlling Decument	4 Reason For Defeating	5 Compensatory Action- SSS-Initials	6 Defeated CSO Initials/Date	7 Sticker On CSO Initials/Date	8 Restored CSO Initials/Date	9 Sticker Off CSO Initiais/Date	10 Restored- SSS Initials/Date
L1-1-1	W0403	Prevent Masking 112 fan	blank	Initial date	Initial date	blank	blank	blank
	NINE MILE P NUCLEAR ST. 2 Annunciator Window Number	NINE MILE POINT NUCLEAR STATION 2 3 Annunciator Window Number L1-1-1 W0403	NINE MILE POINT NUCLEAR STATION I 2 3 4 Annunciator Window Number Controlling Decument Number Reason For Defeating L1-1-1 W0403 Prevent Masking 112 fan	NINE MILE POINT NUCLEAR STATION DEFEATED A 2 3 4 5 Annunciator Window Number Controlling Document Reason For Deleating Compensatory Action- SSS-initials L1-1-1 W0403 Prevent Masking 112 fan blank Image: Control ing Document Image: Control ing Document Image: Control ing Document	NINE MILE POINT NUCLEAR STATION DEFEATED ANNUNCIATO 2 3 4 5 6 Annunciator Window Number Controlling Decument Reason For Defeating Compensatory Action- SSS-Initials Defeated CSO Initials/Date L1-1-1 W0403 Prevent Masking 112 fan blank Initial date	NINE MILE POINT NUCLEAR STATION DEFEATED ANNUNCIATOR LOG 2 3 4 5 6 7 Annunciator Window Number Controlling Document Reason For Defeating Compensatory Action- SSS-initials Defeated CSO Initials/Date 7 L1-1-1 W0403 Prevent Masking 112 fan blank Initial date Initial date	NINE MILE POINT NUCLEAR STATION DEFEATED ANNUNCIATOR LOG 2 Annunciator Window Number 3 Controlling Decument 4 Reason For Deleating 5 Compensatory Action- SSS-Initials 6 Defeated CSO Initials/Date 7 Sticker On CSO Initials/Date 8 Restored CSO Initials/Date L1-1-1 W0403 Prevent Masking 112 fan blank Initial date Initial date blank	NINE MILE POINT NUCLEAR STATION DEFEATED ANNUNCIATOR LOG 1. Unit Net Number 2 Annunciator Window Number 3 Controlling Decument 4 Reason For Defeating 5 Compensatory Action- SSS-Initials 6 Defeated CSO Initials/Date 7 Sticker On CSO Initials/Date 8 Restored CSO Initials/Date 9 Sticker Off CSO Initials/Date L1-1-1 W0403 Prevent Masking 112 fan blank Initial date Initial date blank blank I Unitials/Date Initial Initial date Initial Initial blank Initial I I Initial Initial Initial Initial Initial I I Initial Initial Initial Initial Initial I I I Initial Initial Initial Initial I I I I I I I

Constellation Energy Group OPERATOR JOB PERFORMANCE MEASURE

Task Number: 299902030:	5		
Approvals: General Supervisor Operations Training (Designe	Date 9/8/09	✔ <u>NA EXAMINAT</u> General Superviso Operations (Desig	TION SECURITY or Date nee)
NA EXAMINATION SECU Configuration Control	JRITY Date		
Performer:	(R	0)	
Trainer/Evaluator:	<u> </u>		
Evaluation Method: Perform			
Evaluation Location: Admin	JPM can be perfor	med in Simulator or othe	er designated location.
Expected Completion Time:	10 minutes Ti	me Critical Task: NO	Alternate Path Task: NO
Start Time:	Stop Time:		Completion Time:
	Pass	Fail	

Comments:

Evaluator Signature:_____

Date:_____

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

Simulator or other designated area with required references available.

Simulator Set-up:

N/A

Directions to the Instructor/Evaluator: None.

Directions to Operators:

Read Before Every JPM Performance:

For the performance of this JPM, I will function as the SM, 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.

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 additional / concurrent verifier.

Notes to Instructor / Evaluator:

- 1. Critical steps are identified 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; 3.11.
- 2. N1-ST-M4A; 8.1.3.a.
- 3. C-18026-C SH 1; F3, G3.
- 4. K/A 2.2.13 (3.6).
- 5. K/A 2.1.24 (2.8).

Tools and Equipment:

1. None

Task Standard:

Clearance boundary points for "EDG 102 – PREVENT START FOR HAND CRANKING" verified and identifies starting air needs to be isolated and starting air pressure downstream of the isolation point needs to be removed.

Initial Conditions:

- 1. Unit 1 is at 100% power.
- 2. N1-ST-M4A, Emergency Diesel Generator 102 and PB 102 Operability Test, is scheduled for performance tomorrow.
- 3. EDG 102 will be marked up for personnel protection during hand jacking.
- 4. The EDG 102 PREVENT START FOR HAND CRANKING clearance has been developed and a copy will be provided to you.
- 5. You have been assigned as the clearance section reviewer for verification of the clearance development.
- 6. Ask the operator for any questions. Then provide EDG 102 PREVENT START FOR HAND CRANKING clearance to performer.

Initiating cue:

"(Operator's name), review and verify the adequacy of the EDG 102 - PREVENT START FOR HAND CRANKING clearance section."

Po	formance Stens	Standard	Grade	Comments
1.	Provide repeat back of initiating cue. Evaluator Acknowledge repeat back providing correction if necessary	Proper communications used for repeat back (GAP-OPS-O1)	Sat/Unsat	
RE	CORD START TIME			
2.	•Obtain a copy of the reference procedure and review/utilize the correct section.	GAP-OPS-02; section 3.11 referenced. N1-ST-M4A; section 8.1.3 referenced. C-18026-C SH 1; F3, G3.	Sat/Unsat/NA Sat/Unsat/NA Sat/Unsat/NA	le
3.	•Identify boundary points to ensure electrical energy is removed.	Confirm electrical boundary adequate.	Sat/Unsat	phane sept
4.	•Identify boundary points to ensure mechanical energy is removed.	 Determine mechanical boundary inadequate: Air starting pressure must be isolated: 96-82 (DGA-30) BV- DG 102 STARTING AIR BEFORE FLEX CONNECTION, is to be tagged closed. Air start pressure downstream of the isolation point must be removed: 96-83 (DGA-708) DRAIN – DG 102 AIR 	Pass/Fail Sat/Unsat Pass/Fail Sat/Unsat	NOTE: The critical steps are to identify that starting air must be isolated and starting air pressure downstream of the isolation point must be removed. Identifying the specific isolation point and how to remove the starting air pressure is not critical and therefore is measured as Sat/Unsat.
		START STRAINER 96-76, to be tagged open.		

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Performance Steps Standard	Grade	Comments
End of JPM		

TERMINATING CUE: Clearance boundary points for "EDG 102 – PREVENT START FOR HAND CRANKING" verified and identifies starting air needs to be isolated and starting air pressure downstream of the isolation point needs to be removed.

RECORD STOP TIME_____

- 1. Unit 1 is at 100% power.
- 2. N1-ST-M4A, Emergency Diesel Generator 102 and PB 102 Operability Test, is scheduled for performance tomorrow.
- 3. EDG 102 will be marked up for personnel protection during hand jacking.
- 4. The EDG 102 PREVENT START FOR HAND CRANKING clearance has been developed and a copy will be provided to you.
- 5. You have been assigned as the clearance section reviewer for verification of the clearance development.
- 6. Ask the operator for any questions.

Initiating cue:

"(Operator's name), review and verify the adequacy of the EDG 102 – PREVENT START FOR HAND CRANKING clearance section."

Constellation Energy Group OPERATOR JOB PERFORMANCE MEASURE

Title: Radiological Requirements Related to Operator Inspection Of High Radiation Areas Revision: NRC 2004

Task Number: N/A

Approvals: 104 Date General Supervisor

Operations Training (Designee)

NA EXAMINATION SECURITY
General Supervisor

Operations (Designee)

Date

NA EXAMINATION	SECURITY
Configuration Control	Date

Performer:_____(RO)

Trainer/Evaluator:_____

Evaluation Method: PERFORM

Evaluation Location: SIMULATOR OR OTHER DESIGNATED LOCATION

Expected Completion Time: 10 min	nutes Time C	ritical 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 <u>any</u> critical step is graded as fail. Any grade of unsat or individual competency area unsat requires a comment.

Comments:

Evaluator Signature:_____

Date:_____

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

Simulator or other designated location.

Simulator Set-up:

N/A

Directions to the Instructor/Evaluator:

Several RWPs and survey maps are to be provided. The performer must select the RWP and survey maps applicable to the work.

Directions to Operators:

Read Before Every JPM Performance:

For the performance of this JPM, I will function as the SM, 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.

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 additional / concurrent verifier.

Notes to Instructor / Evaluator:

- 1. Critical steps are identified 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-PM-M5; 6.0, 8.0.
- 2. GAP-RPP-01; 3.5.
- 3. GAP-RPP-02; 3.3.
- 4. GAP-RPP-08; 3.2.
- 5. GAP-RPP-07; 3.2.5
- 6. K/A 2.3.10 (2.9) Ability to perform procedures to reduce excessive levels of radiation and guard against personnel exposure.

Tools and Equipment:

1. None.

Task Standard: Radiological requirements related to the performance of N1-PM-M5 are met prior to and during the performance of the inspection.

Initial Conditions:

- 1. Unit 1 is operating at 100% power.
- 2. N1-PM-M5, OPERATOR INSPECTION OF RAD AND HIGH RAD AREAS, is scheduled for this shift.
- 3. You will be conducting an inspection of the SHUTDOWN COOLING ROOM.

- Brell Aut

- 4. An RWP and survey map are provided.
- 5. A WCMOSSE steam leak list has been referenced and there are no steam leaks.
- 6. Your current exposure is 1800 mrem TEDE.
- 7. Ask the operator for any questions.

Initiating cue:

"(Operator's name), you will be performing N1-PM-M5, OPERATOR INSPECTION OF RAD AND HIGH RAD AREAS, for the SHUTDOWN COOLING ROOM. An RWP and survey amp are provided. Address the radiological aspects of performing this inspection."

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Per	formance Steps	Standard	Grade	Comments
1.	Provide repeat back of initiating cue. Evaluator Acknowledge repeat back providing correction if necessary	Proper communications used for repeat back (GAP-OPS-O1)	Sat/Unsat	
RE	CORD START TIME	NOTE: A score card is attached to this JPM identifying the items for the performer to identify.		
<u>2.</u>	•Obtain a copy of the reference procedure and review/utilize the correct section.	N1-PM-M5 obtained;6.0 and 8.0 referenced. GAP-RPP-01; 3.5 referenced. GAP-RPP-02; 3.3 referenced. GAP-RPP-08; 3.2 referenced. GAP-RPP-07; 3.2.5 referenced.	Sat/Unsat	

Performance Steps	Standard	Grade	Comments
 Addresses radiological aspects of N1-PM-05 precautions/limitations: 			
a. •Applicable radiological precautions shall be observed. Rad Protection shall be contacted for guidance as required.	 Reviews RWP / Survey Map: Determine radiological controls: HIGH RADIATION AREA Area dose rates up to 180 mrem/hour. Notes up to 45000 dpm/100cm2 on floor 	Pass/Fail*	* Can also be identified when evaluating the survey map for the area and be considered pass.
	- Determine protective clothing: Recognizes no PC requirements outlined and must consult RP for guidancE.	Pass/Fail	
۱.	- Determine respiratory protection: None required.	Sat/Unsat	
Put in	- Determine job coverage: None required	Sat/Unsat	
Sala	- Determine entry requirements dosimetry: TLD and ED	Sat/Unsat	
astrail	 Determine within deta exposure of 300 mrem and additional approvals required prior performing the inspection. 	Pass/Fail	
Questfort	1800+300 = 2100 mrem (Administrative limit is 2000 mrem).		
Arl we have	heid 300 Corres from	o y 20	200 lenut?
Perful our.	NRC RO ADMIN JPM 3	4 09/(08/04

Performance Steps	Standard	Grade	Comments
4. Addresses radiological aspects of steps 8.1 through 8.3:			
a. •Check the Radiation/High Radiation Entry Record Sheet (Attachment 2) for the areas which require inspection.	Reviews N1-PM-M5 attachment 2. References note (*) for SDC ROOM. * Areas where contamination may be > 40,000 dpm/100 cm2 and familiarizes himself/herself with the contamination levels on the survey map. Notes area S and S have the highest contamination levels.		
	Area $oldsymbol{ heta}$ is above this threshold so a specific RWP is required.	Pass/Fail	
NOTE: X-R key is for LOCKED HIGH RAD AREAS and is controlled solely by RP. X-R keys are different than keys for HIGH RAD AREAS, which we keep locked. Needs H1R-3 key (indicated on survey map) which can be issued	PROMPT: If determines X-R key, inform the performer that RP is not authorized to issue X-R keys to operators. DIL RP L	HAVE to	gen Area) - Explaitatio mal
 c. •Obtain associated key(s) from radiation protection. 	Determine H1R-3 key is needed from radiation protection (indicated on survey map)	Sat/Unsat	RP would not issue an X-R key if requested so not critical.
End of JPM TERMINATING CUE: Radiological as INSPECTION OF RAD AND HIGH RAI RECORD STOP TIME	pects are addressed prior to performing N1-PM-N D AREAS, in the C/U Valve and Heat Exchanger	15, OPERATION Area.	Make least que tim on questionne

- 1. Unit 1 is operating at 100% power.
- 2. N1-PM-M5, OPERATOR INSPECTION OF RAD AND HIGH RAD AREAS, is scheduled for this shift.
- 3. You will be conducting an inspection of the SHUTDOWN COOLING ROOM.
- 4. An RWP and survey map are provided.
- 5. A WCMOSSE steam leak list has been referenced and there are no steam leaks.
- 6. Your current exposure is 1800 mrem TEDE.
- 7. Ask the operator for any questions.

Initiating cue:

"(Operator's name), you will be performing N1-PM-M5, OPERATOR INSPECTION OF RAD AND HIGH RAD AREAS, for the SHUTDOWN COOLING ROOM. An RWP and survey map is provided. Address the radiological aspects of performing this inspection."

Answer the following when performing this task:			
1.			
Classify the area (check one):	Radiation Area		
] High Radiation Area		
	Locked High Radiation Area		
2			
Designate the key to be obtained:			
3.			
Designate the highest dose rate in the area	and the location:		
4. Designate the two (2) highest contamination	on levels in the room and the location:		
5.			
Designate the RWP required to be used (cl	neck one): \Box Current Standing RWP is acceptable		
6	Specific RWP should be requested		
0. Designate whether or not protective clothing	ag is required (check one):		
Designate whether of not protective cloum			
7.			
Designate required dosimetry to enter the a	area:		
8. Evoluate data emperand (abadit engl)			
Evaluate delta exposure (check one):	Additional approval(s) required		

-

NOTE: THIS IS THE EXAMINER SCORECARD. DO NOT PROVIDE TO THE CANDIDATE.

Answer the following when performing this task:			
1. Pass/Fail			
Classify the area (check one):	 Radiation Area <i>✓</i> High Radiation Area Locked High Radiation Area Very High Radiation Area 		
2. Sat/Unsat			
Designate the key to be obtained: <i>H1R-3</i>			
3. Pass/Fail			
Designate the highest dose rate in the an	rea and the location:		
180 mrem/hr, no	orth of (or adjacent to) 39-04 drain taps		
4. Pass/Fail			
Designate the two (2) highest contamination levels in the room, the level, and location: Area 6 at 45,000 dpm/100cm2 at 12 SDC Pump base Area 6 at 5,000 dpm/100cm2 on floor between 11 and 12 SDC Pumps			
5. Sat/Unsat			
Designate the RWP required to be used	(check one):□Current Standing RWP is acceptable✓ Specific RWP should be requested		
6. Pass/Fail			
Designate whether or not protective clo	othing is required (check one): \checkmark Yes \Box No		
7. Sat/Unsat			
Designate required dosimetry to enter the area: <i>TLD and ED (Electronic Dosimeter)</i>			
8. Pass/Fail			
Evaluate delta exposure (check one):	□ Acceptable ✓ Additional approval(s) required		



9/1/2004 7:10:23AM

Radiation Work Permit: 1041002

Operations Personnel Standing RWP HRA

	Survey Data:				
	Radiation Levels: Turbine Building HRA's Reactor Building HRA's Rad Waste Buiding HRA Off Gas Building HRA's Contamination Levels: Airborne Levels: Specific areas as per R	2 - 200mRer 2 - 250mRen As 2 - 600mRen 2 - 120mRer <400 - 10,00 <0.3 DAC P briefing and / or	m/hr n/hr n/hr m/hr 00 dpm/100cm2 survey maps.		
TACK	Other Ops Activitie	es			
IASK:	3 High Rau ****	**************************************	lisk Activity *********		
	Dose Alarm Backoff Dose	50 mRem 40 mRem	Dose Rate Alarm Elapsed Time Alarm	500 mRem/Hr 780 minutes	
	Protective Clothing Re	equirements:	PC Set Name - not designated		
~	TLD, Electronic	Dosimeter			

Instructions:

- 1) Notify RP prior to venting/draining evolutions or other system breach.
- 2) No entry above arms reach unless specifically approved by RP.

ALARA Review Number: N/A

Constellation Energy Group OPERATOR JOB PERFORMANCE MEASURE

Title	Plant	Imnact	Review	for a	DER
I IUC.	1 Iam	mpace		TOT a	

Task Number: 3420160303

Approvals:

General Supe Date visor

Operations Training (Designee)

NA	EXAMINATION SECURITY	

General Supervisor Operations (Designee)

Date

Revision: NRC 2004

NA EXAMINATION S	SECURITY
Configuration Control	Date

Performer:_____(SRO)

Trainer/Evaluator:_____

Evaluation Method: PERFORM

Evaluation Location: SIMULATOR OR OTHER DESIGNATED LOCATION

Expected Completion Time: 15 min	nutes Time Critical Task: NO	Alternate Path Task: NO
Start Time:	Stop Time:	Completion Time:

Fail

JPM Overall Rating: Pass

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

Comments:

Evaluator Signature:_____

Date:_____

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

N/A

Simulator Set-up:

N/A

Directions to the Instructor/Evaluator: None

Directions to Operators:

Read Before Every JPM Performance:

For the performance of this JPM, I will function as the SM, 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.

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 additional / concurrent verifier.

Notes to Instructor / Evaluator:

- 1. Critical steps are identified 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. NIP-ECA-01; 3.2, and Attachment 2
- 2. DER-NM-2004-1428
- 3. K/A 2.1.1 (3.8) Knowledge of conduct of operations requirements.
- 4. K/A 2.4.30 (3.6) Knowledge of which events related to system operation/status should be reported to outside agencies

Tools and Equipment:

1. Access to ESL Log to obtain the next sequential number (for this JPM prompt is added to provide an ESL# (04-0320) verbally when requested by the performer).

Task Standard: NIP-ECA-01 Attachment 2 parts 1, 2, 3, and 4 completed and applicable actions have been identified in response to the DER operability and reportability review.

- 1. You are the SM.
- 2. You are being provided DER-NM-2004-1498 for SM plant impact review.
- 3. Current plant conditions are unchanged from those identified in the DER.
- 4. Ask the operator for any questions.

Initiating cue:

"(Operator's name), perform the applicable plant impact review for DER-NM-2004-1498, and complete the applicable form."

Per	formance Steps	Standard	Grade	Comments
1.	Provide repeat back of initiating cue. Evaluator Acknowledge repeat back providing correction if necessary	Proper communications used for repeat back (GAP-OPS-O1)	Sat/Unsat	
RE	CORD START TIME			
2.	•Obtain a copy of the reference procedure and review/utilize the correct section.	NIP-ECA-01 obtained. - Section 3.2 referenced. - Attachment 2 referenced.	Sat/Unsat	
3.	•If the DER description does not contain sufficient information to determine whether additional review is necessary, then designate the DER as Not Approved for Screening.	Determines sufficient information available for screening at this time.	Sat/Unsat	
4.	•If the condition described in DER does not involve an Operability Concern and is not reportable, then, indicate approved for screening, indicate no operability/ reportability concern, enter initials and date, then save. No further action is required.	Recognizes operability concern and goes to NIP-ECA-01, Attachment 2, Operability and Reportability Review Form.	Sat/Unsat	

Performance Steps	Standard	Grade	Comments
5. •If the condition described in the DER represents an operability concern or is reportable, complete	Obtains copy of NIP-ECA-01, Attachment 2, Operability and Reportability Review Form, Page 2.	Sat/Unsat	
NIP-ECA-01, Attachment 2, Operability and Reportability Review Form, Page 2 as follows:	Enters DER No. NM-2004-1498	Sat/Unsat	
a. •PART 1A: SSCs shall be declared either operable or inoperable and marked on form.	Determines SSC is inoperable. Part 1A: checks Equipment Operable as NO.	Pass/Fail	
b. •PART 1A: If SSC was inoperable at time of discovery, but at time of review is operable, the SSC shall be reported operable with comments explaining the previous inoperable condition in Block 4C, Evaluation comments.	Determines SSC remains inoperable.	Sat/Unsat	
c. • PART 1A: Enter mode(s) which require SSC to be operable.	Part 1A: enters Required Mode as Power Operating Condition.	Sat/Unsat	
d. •PART 1A: Indicate an operability determination is not required.	Part 1A: checks Operability Determination as NO. Part 4C: checks Basis for Operability Determination as N/A.	Sat/Unsat	
e. •PART 1B: Determine if entry into a LCO is required.	Determine TS LC0 3.6.11.a, Table 3.6.11-1, Parameter 6, and Table 3.6.11-2, Action 4.a apply. Specifically: "prepare and submit a Special Report to the Commission within 14 days following the event outlining the action taken, the cause of the inoperability and the plans and schedule for restoring the system to OPERABLE status."	Pass/Fail	

f. •PART IB: Mark the appropriate LCO ENTRY Yes / No option. Part 1B: checks LCO Entry as YES. Sat/Unsat g. •PART IB: Enter the Tech Spec LCO number. Part 1B: enters LCO number as TS 3.6.11-2. Sat/Unsat h. •PART IC: Determine if entry into ESL Log is required. References GAP-OPS-01, 3.10.5.b.1. Sat/Unsat Determine entry into ESL Log is required. References GAP-OPS-01, 3.10.5.b.1. Sat/Unsat j. •PART IC: Determine if entry into ESL Log is required. Part 1C: checks ESL Entry as YES. Sat/Unsat j. •PART IC: Enter the ESL number. Part 1C: checks ESL Entry as YES. Sat/Unsat j. •PART IC: Enter the ESL number. Part 1C: checks ESL Entry as YES. Sat/Unsat k. •PART ID: Nuclear ESA may be requested to support an operability determination. Determine Notech Spec violation. Sat/Unsat No. Part 1C: checks ESA Requested Action Details as N/A. Determines NO Tech Spec violation. Sat/Unsat 1. •PART IE: Determine if event constitutes a Tech Spec violation. Part IC: checks TS Violation as NO. Sat/Unsat m. •PART IE: Mark appropriate TS VIOLATION Yes / No option. Part IC: checks TS Violation as NO. Sat/Unsat	Performance Steps	Standard	Grade	Comments
g. •PART 1B: Enter the Tech Spec LCO number. Part 1B: enters LCO number as TS 3.6.11-2. Sat/Unsat h. •PART 1C: Determine if entry into ESL Log is required. References GAP-OPS-01, 3.10.5.b.1. Sat/Unsat j. •PART 1C: Mark the appropriate ESL ENTRY Yes / No option. Part 1C: checks ESL Entry as YES. Sat/Unsat j. •PART 1C: Enter the ESL number. Part 1C: checks ESL Entry as YES. Sat/Unsat j. •PART 1D: Nuclear ESA may be requested to support an operability determination. Determine Nuclear ESA not required. Sat/Unsat l. •PART 1E: Determine if event constitutes a Tech Spec violation. Determines NO Tech Spec violation. Sat/Unsat l. •PART 1E: Mark appropriate TS VIOLATION Yes / No option. Determines NO Tech Spec violation. Sat/Unsat	f. •PART 1B: Mark the appropriate LCO ENTRY Yes / No option.	Part 1B: checks LCO Entry as YES.	Sat/Unsat	
h. •PART 1C: Determine if entry into ESL Log is required. References GAP-OPS-01, 3.10.5.b.1. Sat/Unsat Determine entry-into ESL Log is required based on station equipment determined to be inoperable which impact Tech Specs. Sat/Unsat i. •PART 1C: Mark the appropriate ESL ENTRY Yes / No option. Part 1C: checks ESL Entry as YES. Sat/Unsat j. •PART 1C: Enter the ESL number. PROMPT: Provide ESL 404-0320 if asked. Obtains the next sequential ESL Log number. Sat/Unsat k. •PART 1D: Nuclear ESA may be requested to support an operability determination. Determine Nuclear ESA not required. Sat/Unsat Sat/Unsat l. •PART 1E: Determine if event constitutes a Tech Spec violation. Determines NO Tech Spec violation. Sat/Unsat n. •PART 1E: Mark appropriate TS VIOLATION Yes / No option. Determines NO. Sat/Unsat	g. •PART 1B: Enter the Tech Spec LCO number.	Part 1B: enters LCO number as TS 3.6.11-2.	Sat/Unsat	
Determine entry into ESL Log is required based on station equipment determined to be inoperable which impact Tech Specs. i. •PART 1C: Mark the appropriate ESL ENTRY Yes / No option. Part 1C: checks ESL Entry as YES. j. •PART 1C: Enter the ESL PROMPT: Provide ESL# 04-0320 if asked. Obtains the next sequential ESL Log number from the ESL Log. part 1C: enters the ESL Log. Part 1C: enters the ESL Log. Part 1D: Nuclear ESA may be requested to support an operability determination. Determine Nuclear ESA not required. Sat/Unsat Part 1D: checks Nuclear ESA Nuclear ESA Requested as NO. Part 4C: checks ESA / Requested Action Details as N/A. I. •PART 1E: Determine if event constitutes a Tech Spec violation. Determines NO Tech Spec violation. Sat/Unsat m. •PART 1E: Mark appropriate TS VIOLATION Yes / No option. Part 1C: checks TS Violation as NO. Sat/Unsat	h. •PART 1C: Determine if entry into ESL Log is required.	References GAP-OPS-01, 3.10.5.b.1.	Sat/Unsat	
i. •PART 1C: Mark the appropriate ESL ENTRY Yes / No option. Part 1C: checks ESL Entry as YES. Sat/Unsat j. •PART 1C: Enter the ESL number. PROMPT: Provide ESL# 04-0320 if asked. Obtains the next sequential ESL Log number from the ESL Log. Sat/Unsat k. •PART 1D: Nuclear ESA may be requested to support an operability determination. Determine Nuclear ESA not required. Sat/Unsat l. •PART 1E: Determine if event constitutes a Tech Spec violation. Determines NO Tech Spec violation. Sat/Unsat m. •PART 1E: Mark appropriate TS VIOLATION Yes / No option. Part 1C: checks TS Violation as NO. Sat/Unsat		Determine entry into ESL Log is required based on station equipment determined to be inoperable which impact Tech Specs.		
j. •PART IC: Enter the ESL PROMPT: Provide ESL# 04-0320 if asked. Obtains the next sequential ESL Log number Sat/Unsat number. Part IC: enters the ESL Log. Part IC: enters the ESL Log number. k. •PART ID: Nuclear ESA may be requested to support an operability determination. Determine Nuclear ESA not required. Sat/Unsat Part ID: checks Nuclear ESA not requested as NO. Determine Nuclear ESA Requested as NO. Part 4C: checks ESA / Requested Action Details as N/A. h. •PART IE: Determine if event constitutes a Tech Spec violation. Determines NO Tech Spec violation. Sat/Unsat m. •PART IE: Mark appropriate TS VIOLATION Yes / No option. Part 1C: checks TS Violation as NO. Sat/Unsat	i. •PART 1C: Mark the appropriate ESL ENTRY Yes / No option.	Part 1C: checks ESL Entry as YES.	Sat/Unsat	
j. •PART 1C: Enter the ESL number. Obtains the next sequential ESL Log number from the ESL Log. Sat/Unsat k. •PART 1D: Nuclear ESA may be requested to support an operability determination. Determine Nuclear ESA not required. Sat/Unsat Part 1D: checks Nuclear ESA not required. Sat/Unsat Part 1D: checks Nuclear ESA not required. Sat/Unsat Part 1D: checks Nuclear ESA Requested as NO. Part 1D: checks SA (Requested Action Details as N/A. 1. •PART 1E: Determine if event constitutes a Tech Spec violation. Determines NO Tech Spec violation. Sat/Unsat m. •PART 1E: Mark appropriate TS VIOLATION Yes / No option. Part 1C: checks TS Violation as NO. Sat/Unsat		PROMPT: Provide ESL# 04-0320 if asked.		
k. •PART 1D: Nuclear ESA may be requested to support an operability determination. Determine Nuclear ESA not required. Sat/Unsat Part 1D: checks Nuclear ESA Requested as NO. Part 4C: checks ESA / Requested Action Details as N/A. Sat/Unsat I. •PART 1E: Determine if event constitutes a Tech Spec violation. Determines NO Tech Spec violation. Sat/Unsat m. •PART 1E: Mark appropriate TS VIOLATION Yes / No option. Part 1C: checks TS Violation as NO. Sat/Unsat	j. •PART 1C: Enter the ESL number.	Obtains the next sequential ESL Log number from the ESL Log.	Sat/Unsat	
k. •PART 1D: Nuclear ESA may be requested to support an operability determination. Determine Nuclear ESA not required. Sat/Unsat Part 1D: checks Nuclear ESA Requested as NO. Part 1D: checks Nuclear ESA Requested as NO. Sat/Unsat I. •PART 1E: Determine if event constitutes a Tech Spec violation. Determines NO Tech Spec violation. Sat/Unsat m. •PART 1E: Mark appropriate TS VIOLATION Yes / No option. Part 1C: checks TS Violation as NO. Sat/Unsat		Part 1C: enters the ESL Log number.		
determination. Part 1D: checks Nuclear ESA Requested as NO. Part 4C: checks ESA / Requested Action Details as N/A. 1. •PART 1E: Determine if event constitutes a Tech Spec violation. Determines NO Tech Spec violation. Sat/Unsat m. •PART 1E: Mark appropriate TS Violation as NO. Sat/Unsat	k. • PART 1D: Nuclear ESA may be requested to support an operability	Determine Nuclear ESA not required.	Sat/Unsat	
Part 4C: checks ESA / Requested Action Details as N/A. I. •PART 1E: Determine if event constitutes a Tech Spec violation. Determines NO Tech Spec violation. Sat/Unsat m. •PART 1E: Mark appropriate TS Part 1C: checks TS Violation as NO. Sat/Unsat	determination.	Part 1D: checks Nuclear ESA Requested as NO.		
I. •PART 1E: Determine if event constitutes a Tech Spec violation. Determines NO Tech Spec violation. Sat/Unsat m. •PART 1E: Mark appropriate TS Violation. Part 1C: checks TS Violation as NO. Sat/Unsat VIOLATION Yes / No option. Part 1C: checks TS Violation as NO. Sat/Unsat		Part 4C: checks ESA / Requested Action Details as N/A.		
1. •PART 1E: Determine if event constitutes a Tech Spec violation. Determines NO Tech Spec violation. Sat/Unsat m. •PART 1E: Mark appropriate TS Violation as NO. VIOLATION Yes / No option. Sat/Unsat				
m. •PART 1E: Mark appropriate TS Part 1C: checks TS Violation as NO. Sat/Unsat VIOLATION Yes / No option.	 PART 1E: Determine if event constitutes a Tech Spec violation. 	Determines NO Tech Spec violation.	Sat/Unsat	
	m. •PART 1E: Mark appropriate TS VIOLATION Yes / No option.	Part 1C: checks TS Violation as NO.	Sat/Unsat	

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Performance Steps	Standard	Grade	Comments
n. •PART 1E: Document the determination in PART 4C, Evaluation Comments.	Determines no comments are required in Part 4C, Evaluation Comments. Part 4C: checks Tech Spec Violation Description as N/A.	Sat/Unsat	
o. •PART 2A: Determine if event is reportable to NRC per NIP-IRG-	References NIP-IRG-01 as applicable.	Sat/Unsat	
01 or to other outside agencies per NIP-IRG-02.	Determines reportable per TS Table 3.6.11- 2, Action Statement 4a, which requires a Special Report to the commission within 14 days.	Pass/Fail	
p. •PART 2A: Document the reportability in space provided.	Part 2A: checks Deviation/Event Reportable as YES.	Sat/Unsat	
	Part 2A: checks Other (Per NIP-IRG-01/02) block.	Sat/Unsat	
	Part 4C: Under Other Comments, indicates a Special Report must be prepared and submitted to the Commission within 14 days per TS 3.6.11-2, Action Statement 4a.	Sat/Unsat	
q. •PART 3A: Notify NRC Resident Inspector and document the person and date/time contacted.	PROMPT: Provide acknowledgement of notification. Part 3A: checks NRC Resident Inspector Contacted as YES.	Sat/Unsat	
	<i>Records name of person contacted and date/time contacted.</i>		
r.• PART 3A: Notify the NRC/NRR (red phone) and document the person and date/time contacted.	Part 3A: checks NRC Region/NRR Notified as NO.	Sat/Unsat	
Omerwise leave blank.	contacted blank.		

Per	formance Steps	Standard	Grade	Comments
PR	OMPT: If asked, electronic ECAP			
syst	tem is available.			
	s. •PART 4A: Document results by	Checks approved for screening block.	Sat/Unsat	
	Not Approved for Screening			
	Not Approved for Screening			
	t. •PART 4D: Document Unit,	Checks Unit 1 block.	Sat/Unsat	
	name, and date of review.		~ ~-	
		Prints name, initials, and enters date.	Sat/Unsat	
		Checks Other Unit SM Concurrence block as	Sat/Unsat	
		NA.		
	PROMPT: You are not required to			
	of vour review.			
6.	•Document required entry into ESL	On the DER form:		
	Log and record ESL number in the	Enters ESL Log number in the Operations	Sat/Unsat	
	Comments Section of the DER	Comments block.		
	Identification rage.	Signs for Operations Approval	Sat/Unsat	
		Signa for operational reprioration	Saconsac	
Enc	l of JPM			

TERMINATING CUE: NIP-ECA-01, Attachment 2 completed, and DER approved for screening.

RECORD STOP TIME_____

- 1. You are the SM.
- 2. You are being provided DER-NM-2004-1498 for SM plant impact review.
- 3. Current plant conditions are unchanged from those identified in the DER.
- 4. Ask the operator for any questions.

Initiating cue:

"(Operator's name), perform the applicable plant impact review for DER-NM-2004-1498 an complete the applicable form."

Constellation Energy Group OPERATOR JOB PERFORMANCE MEASURE

Title: Evaluate Plant Cher	mistry Report and Re	espond	Revision: NRC 2004
Task Number: 34102203	03		
Approvals: General Supervisor Operations Training (Design	<u>Z</u> <u>14</u> Date Date	<u>NA EXAMINATIO</u> General Supervisor Operations (Designee	N SECURITY Date)
NA EXAMINATION SEC	CURITY Date		
Performer:	(SR	O)	
Trainer/Evaluator:			
Evaluation Method: PERFC	DRM		
Evaluation Location: SIMU	LATOR OR OTHE	R DESIGNATED AREA	
Expected Completion Time:	10 minutes Tim	e Critical Task: NO	Alternate Path Task: NO
Expected Completion Time: Start Time:	10 minutes Tim Stop Time:	e Critical Task: NO	Alternate Path Task: NO
Expected Completion Time: Start Time: JPM Overall Rating:	: 10 minutes Tim Stop Time: Pass	e Critical Task: NO	Alternate Path Task: NO
Expected Completion Time: Start Time: JPM Overall Rating: NOTE: A JPM overa individual competen	10 minutes Tim Stop Time: Pass all rating of fail shall acy area unsat require	e Critical Task: NO Cor Fail be given if <u>any</u> critical step s a comment.	Alternate Path Task: NO mpletion Time: p is graded as fail. Any grade of unsat
Expected Completion Time: Start Time: JPM Overall Rating: NOTE: A JPM overa individual competen	: 10 minutes Tim Stop Time: Pass all rating of fail shall acy area unsat require	e Critical Task: NO Cor Fail be given if <u>any</u> critical step s a comment.	Alternate Path Task: NO mpletion Time: p is graded as fail. Any grade of unsat
Expected Completion Time: Start Time: JPM Overall Rating: NOTE: A JPM overa individual competen	10 minutes Tim Stop Time: Pass all rating of fail shall acy area unsat require	e Critical Task: NO Cor Fail be given if <u>any</u> critical step is a comment.	Alternate Path Task: NO mpletion Time: p is graded as fail. Any grade of unsat
Expected Completion Time: Start Time: JPM Overall Rating: NOTE: A JPM overa individual competen	: 10 minutes Tim Stop Time: Pass all rating of fail shall acy area unsat require	e Critical Task: NO Cor Fail be given if <u>any</u> critical step is a comment.	Alternate Path Task: NO mpletion Time: p is graded as fail. Any grade of unsat
Expected Completion Time: Start Time: JPM Overall Rating: NOTE: A JPM overa individual competen Comments:	: 10 minutes Tim Stop Time: Pass all rating of fail shall acy area unsat require	Fail be given if <u>any</u> critical step s a comment.	Alternate Path Task: NO mpletion Time: p is graded as fail. Any grade of unsat
Expected Completion Time: Start Time: JPM Overall Rating: NOTE: A JPM overa individual competen Comments:	: 10 minutes Tim Stop Time: Pass all rating of fail shall acy area unsat require	e Critical Task: NO Cor Fail be given if <u>any</u> critical step is a comment.	Alternate Path Task: NO mpletion Time: p is graded as fail. Any grade of unsat
Expected Completion Time: Start Time: JPM Overall Rating: NOTE: A JPM overa individual competen Comments:	: 10 minutes Tim Stop Time: Pass all rating of fail shall acy area unsat require	e Critical Task: NO Cor Fail be given if <u>any</u> critical step is a comment.	Alternate Path Task: NO mpletion Time: p is graded as fail. Any grade of unsat

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

N/A

Simulator Set-up:

N/A

Directions to the Instructor/Evaluator: **To be performed as an administrative JPM.**

Directions to Operators:

Read Before Every JPM Performance:

For the performance of this JPM, I will function as the SM, 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.

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 additional / concurrent verifier.

Notes to Instructor / Evaluator:

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

References:

3.

- 1. GAP-CHE-01; 3.2; Enclosure 1.
- 2. DER-NM-2004-958, Exceeded GAP-CHE-01 Action Level 1 threshold for sulfates during RWCU maintenance.
- 3. K/A 2.1.25 (3.1) Ability to obtain and interpret station reference materials such as graphs / monographs / and tables which contain performance data.
- 4. K/A 2.1.34 (2.9) Ability to maintain the primary and secondary plant chemistry within allowable limits.

Tools and Equipment:

1. None.

Task Standard: Determine GAP-CHE-01 Action Level 1 exceeded for reactor water sulfates due to RWCU maintenance outage, and that a plant shutdown is required if not corrected in 96 hours.

- 1. Unit 1 is at 100% power.
- 2. You are the Unit 1 CRS.
- 3. At 02:30 on 3/10/2004 RWCU was removed from service for maintenance with an expected duration of three (3) days. Conductivity recorder was aligned to the recirculation system.
- 4. Chemistry is taking reactor water samples twice per shift for conductivity and sulfates.
- 5. At 05:00 on 3/12/2004 Chemistry reports the following reactor water samples:
 - Conductivity = 0.147 vS/cm at 25°C.
 - Sulfates = 5.05 ppb
- 6. Nobel Metal Chemical Application (NMCA) is not in service.
- 7. Ask the operator for any questions.

Initiating cue:

"(Operator's name), evaluate the 3/12/2004 05:00 chemistry and respond as necessary."

Per	formance Steps	Standard	Grade	Comments
1.	Provide repeat back of initiating cue. Evaluator Acknowledge repeat back.	Proper communications used for repeat back (GAP-OPS-O1)	Sat/Unsat	
RE	CORD START TIME			
2.	•Obtain a copy of the reference procedure and review/utilize the correct section.	GAP-CHE-01 obtained. - Enclosure 1 referenced. - Section 3.2.1 referenced.	Sat/Unsat	
3.	•Evaluate GAP-CHE-01 Enclosure 1, Part I (TECH SPECS) for applicability.	Compares sample results to GAP-CHE-01 Enclosure 1, Part I (TECH SPECS), for REACTOR CONDITION 3.		
		Determines conductivity <u>below</u> ACTION LEVEL 1 limit of 0.19.	Sat/Unsat	
		Determines sulfates <u>above</u> ACTION LEVEL 1 value of 5 and below ACTION 2 LEVEL value of 20.	Pass/Fail	

|--|



Performance Steps	Standard	Grade	Comments
c. Determine corrective actions be taken to return chemistry to within limits.	PROMPT: If asked, RWCU will be returned to service within six (6) hours. Determines the chemistry parameter (sulfates) must be below the ACTION LEVEL I value within 96 hours of time of discovery.	Pass/Fail	
	Determines that returning RWCU to service will restore the sulfate parameter to within ACTION LEVEL 1 value if returned within the predicted time of three (3) days.	Sat/Unsat	

End of JPM

1

TERMINATING CUE: ENCLOSURE 1, Part I, Part II, and Part III evaluated and it is determined that the TECH SPEC and EPRI ACTION LEVEL 1 thresholds are exceeded for sulfates.

RECORD STOP TIME

- 1. Unit 1 is at 100% power.
- 2. You are the Unit 1 CRS.
- 3. At 02:30 on 3/10/2004 RWCU was removed from service for maintenance with an expected duration of three (3) days. Conductivity recorder was aligned to the recirculation system.
- 4. Chemistry is taking reactor water samples twice per shift for conductivity and sulfates.
- 5. At 05:00 on 3/12/2004 Chemistry reports the following reactor water samples:
 - Conductivity = 0.147 vS/cm at 25°C.
 - Sulfates = 5.05 ppb
- 6. Nobel Metal Chemical Application (NMCA) is not in service.
- 7. Ask the operator for any questions.

Initiating cue:

"(Operator's name), evaluate the 3/12/2004 05:00 chemistry and respond as necessary."

ENCLOSURE 1: WATER CHEMISTRY GUIDELINES - UNIT 1

- **<u>NOTES</u>:** 1. This enclosure has three sections; Technical Specifications, Fuel Warranty, and EPRI Guidelines. **Each section needs to be evaluated for applicability.**
 - 2. Water chemistry limits at specific Reactor Conditions are based on **BULK REACTOR WATER TEMPERATURE AND <u>NOT</u> MODE SWITCH POSITION.**

I. <u>TECHNICAL SPECIFICATIONS</u>

NOTE: Action level 2 limits may be exceeded for a maximum of 24 hours, OR a shutdown shall be initiated within one hour and reactor coolant temperature be reduced to <200°F within 10 hours.

<u>REACTOR CONDITION 2:</u> Reactor water bulk temperature \geq 200°F AND reactor thermal power \leq 10 %

Control Parameter	Actio	n Levels	
	<u>1</u>	<u>2</u>	<u>3</u>
Reactor Water			
Conductivity (µS/cm) at 25°C		> 1.0**	> 5.0****
Chloride (ppb)		> 100	> 200
Sulfate (ppb)		> 100	> 200

REACTOR CONDITION 3: Reactor thermal power > 10%

Control Parameter	Actio	Action Levels		
	1	<u>2</u>	<u>3</u>	
(C1,C2)Reactor Water				
Conductivity (µS/cm) at 25°C	>0.19'	` > 1.0***	> 5.0	
Chloride (ppb)	>5*	> 20	> 100	
Sulfate (ppb)	>5*	> 20	> 100	

* Technical Specification 3.2.3 bases value NOT a Limiting Condition of Operation

** During Noble Metal Chemical Application (NMCA) the limit is 20 μ S/cm. The limit is 2 μ S/cm for up to 5 months at power operation following NMCA.

*** Post NMCA the limit is 2 μ S/cm for up to a 5 month period at power operations.

**** During NMCA, the limit is 20 μ S/cm.

II. FUEL WARRANTY REQUIREMENTS

REACTOR CONDITION 1: Reactor water bulk temperature < 212 °F

System and Control Parameter	Action Levels					
		<u>1</u>	<u>2</u>	<u>3</u>		
pH at 25° C(applied only when reactor water >1.0	0µS/cm) (Low) (High)	<5.3	<4.9	<4.6		
Conductivity (µs/cm @25°C) Chloride, sulfate (ppb)	(rigr)	>2.0 >100	>5.0 >200	>10.0 >10.0 >500		
REACTOR CONDITION 2: Reactor water bulk	temperature >2	12°F				
System and Control Parameter		Action Lev	els			
Reactor Water		<u>1</u>	<u>2</u>	<u>3</u>		
pH at 25° C(applied only when reactor water >1.0	0µS/cm) (Low) (High)	<5.6 >8.6	<4.9	<4.6		
Conductivity (µs/cm @ 25°C) Chloride, sulfate (ppb)	(1191)	>1.0 >100	>5.0 >200	>10.0 >10.0 >500		
REACTOR CONDITION 3: Reactor thermal power > 25%						
System and Control Parameter		Action Lev	els	0		
Reactor Water		<u> </u>	<u> </u>	2		
pH at 25° C(applied only when reactor water >1.0	0µS/cm) (Low)	<5.6	<4.9	<4.6		
Conductivity (µs/cm @ 25°C)	>1.0	>5.0	>10.0			
Chloride, sulfate (ppb)		>100.	>200	>500		
Condensate Effluent and Feedwater						
Conductivity at 25°C		>0.065	>0.1	>0.2		
Dissolved Oxygen (ppb)	(Low) (High)	<30 >200		<10 >500		
Feedwater	(, ,,9,,)	200		2000		
l otal Copper (ppb) ^(a) Iron (ppb)	insoluble	0.5 >10	>2.0 >20	>4.0 >40		
	Soluble	1.0	>2.0	>4.0		
i otal metals (ppb) Fe,Cu,Ni,Zn (soluble & insoluble)		>15	>30	>60		
Total Zinc (ppb)		>1.3		>2		

^(a) High feedwater copper is known to play a role in fuel cladding corrosion. See DER 2001-5276 for details

GAP-CHE-01 Rev 09

ENCLOSURE 1

(Cont)

III. EPRI BWR WATER CHEMISTRY GUIDELINE

<u>REACTOR CONDITION 1</u>: Reactor water bulk temperature < 200°F

System and Control Parameter	Action Levels			Value Prior to Startup	
	1	2	3		
Reactor Water Conductivity (μS/cm @ 25°C)(2)(3) Chloride (ppb) Sulfate (ppb)	>2.0 >100 >100			≤1.0 ≤100 <u>≤</u> 100	
REACTOR CONDITION 2: Reactor water bulk >200°	F AND	reactor tl	hermal	power <u><</u> 10%	
System and Control Parameter	Action I	Levels 2	3	Value Prior to Power Operation	
Reactor Water Dissolved Oxygen (ppb) Conductivity (μS/cm @ 25°C)(2)(3) Chloride, Sulfate (ppb)	>300(1)	- >1.0 >100	>5.0 >200	< <u><</u> 1.0 ≤20	
Condensate Influent (CDI) conductivity @ 25°C		_	>10		
Feedwater Conductivity @ 25°C Dissolved Oxygen (ppb) (4) Suspended Corrosion Products (ppb)	>0.15 >200 >100			< <u>20</u> 0	
REACTOR CONDITION 3: Reactor thermal power >	10%				
System and Control Parameter	Action	Levels	2		
Control Rod Drive Conductivity @ 25°C Dissolved Oxygen (ppb)	>0.15 >200	۲ 			
Feedwater (*EPRI Guidelines for weekly integrated *Total Copper (ppb) ^(a) *Total Iron (ppb) Conductivity @ 25°C	! value) >0.2 >5 >.065				
Condensate Influent (CDI) conductivity @ 25°C	>0.10		>10		
Reactor Water	NWC /	Action Le	evels	HWC/NMCA Action Levels	
Conductivity (µS/cm @ 25°C) Chloride, Sulfate (ppb)	י >0.30 >5	∠ >1.0 >20	3 >5.0 >100	>0.30 ⁽³⁾ >1.0 >5.0 >5 >50 >200	

⁽¹⁾ When Reactor water temperature is >284 degrees F (140°C)
 ⁽²⁾ During NMCA, the conductivity will intentionally exceed AL2 for over 48 hours. No additional Corrective action required.
 ⁽³⁾ Conductivity excludes contribution from Iron during and post noble metals chemical addition.

⁽⁴⁾ After establishing condenser vacuum with steam jet air ejectors.

^(a)High feedwater copper is known to play a role in fuel cladding corrosion. See DER 2001-5276 for details

Constellation Energy Group OPERATOR JOB PERFORMANCE MEASURE

Title: Determine Post Maintenance Test (PMT) Following Corrective Maintenance (Refueling Bridge Over-Core Limit Switch Replacement)

Task Number: 3420130303

Approvals:

General Supervisor Date

Operations Training (Designee)

NA EXAMINATION SECURITY General Supervisor Operations (Designee)

Date

Revision: NRC 2004

NA EXAMINATION SECURITY Configuration Control Date

Performer:_____(SRO)

Trainer/Evaluator:_____

Evaluation Method: PERFORM

Evaluation Location: SIMULATOR OR OTHER DESIGNATED AREA

 Expected Completion Time: 12 minutes
 Time Critical Task: NO
 Alternate Path Task: NO

 Start Time: ______
 Stop Time: ______
 Completion Time: ______

Fail

JPM Overall Rating: Pass

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

Comments:

Evaluator Signature:_____

Date:_____

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

Simulator or other designated location.

Simulator Set-up:

N/A

Directions to the Instructor/Evaluator: To be performed as an administrative JPM.

Directions to Operators:

Read Before Every JPM Performance:

For the performance of this JPM, I will function as the SM, 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.

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 additional / concurrent verifier.

Notes to Instructor / Evaluator:

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

References:

3.

- 1. GAP-SAT-02; 3.1, Attachment 2.
- 2. LER 2002-002. LOSS OF ONE CRD PUMP TRAIN DUE TO CIRCUIT BREAKER FAILURE. Cause was inadequate post maintenance testing.
- 3. K/A 2.2.21 (3.5)
- 4. N1-ST-W3, Refueling Platform Interlock Test

Tools and Equipment:

1. None.

Task Standard: Indicate N1-ST-W3 steps to be performed at a MINIMUM to demonstrate operability are identified. Indicates NOT REQUIRED for steps that do not have to be performed.

- 1. Unit 1 Refueling Outage is in progress.
- 2. The first fuel shuffle is in progress. After releasing a fuel assembly in the reactor core and moving the refueling bridge to the spent fuel pool to grapple the fuel assembly specified in the next step, ROD BLOCK INTERLOCK #1 did not clear as expected when the refueling bridge was no longer over the reactor core. The SRO on the refueling bridge contacted the control room and refueling operations have been halted. The refueling bridge in the spent fuel pool with the main hoist normal up and unloaded.

on

- 3. I&C has determined that the refueling bridge over core limit switch broke and remained actuated.⁷
- 4. A clearance has been hung, the limit switch has been replaced, and the clearance has been removed. WO # 2004-1465.
- 5. Annunciator F3-4-4, ROD BLOCK, is clear.
- 6. The refueling bridge is jut the spent fuel pool with the main hoist normal up and unloaded.
- 7. N1-PM-SO is current.
- 8. Ask the operator for any questions.

Initiating cue:

"(Operator's name), determine the Post Maintenance Test requirements including specific steps to be performed at a MINIMUM to demonstrate operability in N1-ST-W3. Indicate Not Required (N/R) for steps that do not have to be performed.

Per	formance Steps	Standard	Grade	Comments
1.	Provide repeat back of initiating cue. Evaluator Acknowledge repeat back providing correction if necessary	Proper communications used for repeat back (GAP-OPS-O1)	Sat/Unsat	
RE	CORD START TIME			
2.	•Obtain a copy of the reference procedure and review/utilize the correct section.	GAP-SAT-02 obtained. - Section 3.1 referenced. - Attachment 2 referenced.	Sat/Unsat	
3.	•References GAP-SAT-02, Attachment 2, Electrical PMT Guidelines, for limit switches.	Determine replacement of limit switches requires verifying actuation of controlled device including any interlock(s).	Sat/Unsat	
4.	•Determines N1-ST-W3 is the applicable procedure to be used for post maintenance testing.	N1-ST-W3 obtained.	Sat/Unsat	
5.	•Determines N1-ST-W3 steps to be performed.		Antara An	
	a. Per step 4.3: When used for PMT, perform sections 1.0 through 6.0.	Determine Sections 1.0 through 6.0 are required (cannot be N/A or N/R).	Sat/Unsat	

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Performance Steps	Standard	Grade	Comments
b. Per step 4.3: When used for PMT, perform applicable subsections /	Step 7.1: checks post-maintenance testing and enters work order number.	Sat/Unsat	NOTE: Although testing in Section 8.1 and Section 8.2 are not required for PMT, Section 8.1 steps 8.1.4 and
steps of sections 7.0 unough 10.0.	Step 7.7.1 and 7.7.2 N/R	Sat/Unsat	interlock checks require that the dummy fuel assembly be grappled and this is performed in steps 8.14 and 8.1.5.
	Steps 8.1. 4 and 8.1.5 are required.	Pass/Fail**	Section 8.2 is not required.
	Steps 8.1.6 through 8.1.9 are NOT required.	Sat/Unsat	**Because of the organization of the section
	Steps 8.2.1 through 8.2.3 are NOT required	Sat/Unsat	determine all of sections 8.1 and 8.3 are
	Steps 8.3.1 through 8.3.16 are required.	Pass/Fail**	required to be performed. If this determination is made, the minimum required steps will have
	Steps 8.4.1 through 8.4.2 are NOT required.	Sat/Unsat	been identified and these steps are graded as
	Section 9.0 steps are required.	Pass/Fail	1 /155.
	Step 10.1.1.a is NOT required.	Sat/Unsat	
	Steps 10.1.1.b through 10.1.1.d are required.	Pass/Fail	
	Steps 10.1.2 and 10.1.3 are required.	Sat/Unsat	
	Step 10.2 is required.	Sat/Unsat	
	For steps indicated N/A or N/R document the reason in section 10.1 remarks.	Sat/Unsat	
	Ensure that if steps not performed, then the surveillance frequency is not altered.	Sat/Unsat	

End of JPM **TERMINATING CUE:** Indicate N1-ST-W3 steps to be performed at a minimum to demonstrate operability. Indicates NOT REQUIRED for steps that do not have to be performed.

RECORD STOP TIME_____

- 1. Unit 1 Refueling Outage is in progress.
- 2. The first fuel shuffle is in progress. After releasing a fuel assembly in the reactor core and moving the refueling bridge to the spent fuel pool to grapple the fuel assembly specified in the next step, ROD BLOCK INTERLOCK #1 did not clear as expected when the refueling bridge was no longer over the reactor core. The SRO on the refueling bridge contacted the control room and refueling operations have been halted. The refueling bridge is in the spent fuel pool with the main hoist normal up and unloaded.
- 3. I&C has determined that the refueling bridge over core limit switch broke and remained actuated.
- 4. A clearance has been hung, the limit switch has been replaced, and the clearance has been removed. WO # 2004-1465.
- 5. Annunciator F3-4-4, ROD BLOCK, is clear.
- 6. The refueling bridge is in the spent fuel pool with the main hoist normal up and unloaded.
- 7. N1-PM-SO is current.
- 8. Ask the operator for any questions.

Initiating cue:

"(Operator's name), determine the Post Maintenance Test requirements including specific steps to be performed at a MINIMUM to demonstrate operability in N1-ST-W3. Indicate Not Required (N/R) for steps that do not have to be performed."

Constellation Energy Group OPERATOR JOB PERFORMANCE MEASURE

Title: Direct An Exclusion Area Evacuation Revision: NRC 2004

Task Number: 3440240303

Approvals: General Su visor Date

Operations Training (Designee)

NA EXAMINATION SECURITY General Supervisor **Operations** (Designee)

Date

NA EXAMINATION SECURITY **Configuration Control** Date

Performer:_____(SRO)

Trainer/Evaluator:_____

Evaluation Method: PERFORM

Evaluation Location: SIMULATOR OR OTHER DESIGNATED AREA

Expected Completion Time: 15 minutes		Time Critical Task: NO	Alternate Path Task: NO	
Start Time:	Stop T	ime:	Completion Time:	
JPM Overall Rating:	Pass	Fail		

JPM Overall Rating: Pass

> 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:

Evaluator Signature:_____

Date:

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

N/A

Simulator Set-up:

N/A

Directions to the Instructor/Evaluator: **To be performed as an administrative JPM.**

Directions to Operators:

Read Before Every JPM Performance:

For the performance of this JPM, I will function as the SM, 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.

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 additional / concurrent verifier.

Notes to Instructor / Evaluator:

- 1. Critical steps are identified 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-05C; Section 3.1, and Attachment 1.
- 2. EPIP-EPP-18; Attachment 1 Figure 1, and Attachment 2.
- 3. EPIP-EPP-08; Attachment 1 Figure 1.5.
- 4. K/A 2.3.10 (3.3) Ability to perform procedures to reduce excessive levels of radiation and guard against personnel exposure.
- 5. K/A 2.4.40 (4.0) Knowledge of the SRO's responsibilities in emergency plan implementation.

Tools and Equipment:

1. None.

Task Standard: Directs Exclusion Area Evacuation using the following route(s): Lake Road (w), to Lakeview Road (s), to Rte. 1 (w), to Creamery Road (s), to 104 (w) to Rte. 53 (S) to Howard Road <u>OR</u> continue (s) on Clocks Corner Road to Rte. 4 to Rte. 4 (w) to Rte. 53 (s) to Howard Road <u>OR</u> to Rte. 4 (e) to NYS Rte. 178 (s) to Howard Road or any combination of these routes and roads that connect between them.

- 1. A Site Area Emergency has been declared on Unit 1 due to release rates.
- 2. A release is in progress.
- 3. An Exclusion Area Evacuation is required because of the release. It is safe to perform the evacuation.
- 4. Wind direction is from 278 degrees with no lake breeze.
- 5. Ask the operator for any questions.

Initiating cue:

"(Operator's name), direct the required EXCLUSION AREA EVACUATION including specific evacuation routes to the offsite assembly area and completion of the applicable emergency announcement form."

Per	formance Steps	Standard	Grade	Comments
1.	Provide repeat back of initiating cue. Evaluator Acknowledge repeat back providing correction if necessary	Proper communications used for repeat back (GAP-OPS-O1)	Sat/Unsat	
RE	CORD START TIME			
2.	•Obtain a copy of the reference procedure and review/utilize the correct section.	Obtains EPIP-EPP-05C. - Section 3.1 referenced - Attachment 2 referenced.	Sat/Unsat	
		May reference EPIP-EPP-18 Attachment 1 Figure 1, to determine type of evacuation.		
3.	•Determines plume direction.	Determines plume direction from 278 degrees (based on wind direction) and that ERPAs 1,2,3,4,7,9,26,27 could be affected.	Pass/Fail	
4.	•Determines evacuation is safe.	Determines evacuation is safe.	Sat/Unsat	

Per	formance Steps	Standard	Grade	Comments
<i>Per</i> 5.	•Determine route of travel information to the Offsite Assembly Area based on plume direction.	Standard NOTE: Travel routes are highlighted and are provided as an attachment to this JPM. References EPIP-EPP-05C, Attachment 2, and determines the evacuation route(s) as: Lake Road (w), to Lakeview Road (s), to Rte. 1 (w), to Creamery Road (s), to 104 (w) to Rte. 53 (S) to Howard Road.	Grade Pass/Fail	Comments
		<u>OR</u>		
		Lake Road (w), to Lakeview Road (s), to Rte. 1 (w), to Creamery Road (s), continue (s) on Klocks Corner Road to Rte. 4 to Rte. 4 (w) to Rte. 53 (s) to Howard Road.		
		<u>OR</u>		
		Lake Road (w), to Lakeview Road (s), to Rte. 1 (w), to Creamery Road (s), continue (s) on Klocks Corner Road to Rte. 4 to Rte. 4 (e) to NYS Rte. 178 (s) to Howard Road.		
		<u>OR</u>		
		Any combination of these routes and roads that connect between them.		

Pei	formance Steps	Standard	Grade	Comments
		PROMPT: Direct the performer to complete EPIP-EPP-18, Attachment 2, part 2 and Part 8 (at a minimum)		
6.	•Direct an announcement per EPIP- EPP-18 ensuring route of travel information included as appropriate.	 Direct announcement per EPIP-EPP-18 Attachment 2, specifically: Part 2 checks sound evacuation alarm Part 8 checks "a" and "1" Part 8 checks "b" and "personnel are to leave the area heading west towards Oswego then turn south" and provides additional guidance on the route(s) to be taken OR which route(s) not to take. 	Sat/Unsat	

End of JPM **TERMINATING CUE:** Direst actions for EXCLUSION AREA EVACUATION including determining the appropriate evacuation route(s) to the offsite assembly area and emergency announcement requirements.

RECORD STOP TIME_____

- 1. A Site Area Emergency has been declared on Unit 1 due to release rates.
- 2. A release is in progress.
- 3. An Exclusion Area Evacuation is required because of the release. It is safe to perform the evacuation.
- 4. Wind direction is from 278 degrees with no lake breeze.
- 5. Ask the operator for any questions.

Initiating cue:

"(Operator's name), direct the required EXCLUSION AREA EVACUATION including specific evacuation routes to the offsite assembly area and completion of the applicable emergency announcement form."