Cat B JPMs	From Original Exam Submittal	To Final Version	Reason/Justification	Date
JPM #1 Transfer Torus Water		Added Initiating Cue statement to "Inform SSS when Torus level is lowering" (Also in Step 14) Changed Step 6 to Critical Step Changed Step 12 to Non- Critical step.		9/5/02
JPM #2 Shift Power Source for Power Board 101	No changes			
JPM #3 Switching CRD Pumps	No changes			
JPM #4 Shift Operating Reactor Building Supply and Exhaust Fans		Added additional cues for steps 12 and 14. Added acceptable fan configuration information to Terminating Cue statement		9/5/02
JPM#5 Secure TIP on Receipt of Containment Isolation		Created automatic Event Trigger to activate stuck detector malfunction		9/5/02
		Added steps to implement JPM		

		level is lowering" (Also in Step 14)		
		Changed Step 6 to Critical Step		
		Changed Step 12 to Non- Critical step.		
JPM #2 Shift Power Source for Power Board 101	No changes		· · · · · · · · · · · · · · · · · · ·	
JPM #3 Switching CRD Pumps	No changes			
JPM #4 Shift Operating Reactor Building Supply and Exhaust Fans		Added additional cues for steps 12 and 14. Added acceptable fan configuration information to Terminating Cue statement		9/5/02
JPM#5 Secure TIP on Receipt of Containment Isolation		Created automatic Event Trigger to activate stuck detector malfunction		9/5/02
		Added steps to implement JPM with procedure.		
JPM#6 Change Operating Motor Driven Feedwater Pumps		Added Initial Condition that MCPR is 1.62 and removed MCPR cue, to make step 3 less confusing		9/5/02
JPM #7 Turbine Trip		Added Cue for Lockout Relay actuation. Added additional detail.	Added validity to reason for determining a turbine trip should have occurred.	9/5/02
JPM #8 Perform Initiation of ECs from Remote Shutdown	No changes			
JPM #9 Lineup Raw Water to Core Spray		Replace with new JPM #9, Lineup for RPV Injection Using Liquid Poison Test Tank	Original JPM operated only one valve and was determined to be non- discriminating.	9/5/02
JPM #10 Diesel Fire Pump Start With No Control Power	No changes			

Facility: <u>Nine Mile Point # 1</u>

Date of Examination: 9/30/02

Exam Level (circle one): RO

Operating Test No.: RO

			<u></u>
	B.1 Control Room Systems	r	
	System / JPM Title	Type Code*	Safety Function
	JPM 1 Torus Cooling Mode/ Transfer Torus Water to the Waste Collector Tank. (01-OPS-SJE-200-1-04)		
	K/A 219000 A4.12 3.9/3.8;Task 2269090401/2000230501;	D/S	5
	N1-EOP-1 Attachment 15		
	JPM 2 A. C. Electrical Distribution / Shift source of power for PB101 from R1014 to R1011.	N/S	6
	K/A 262001 A4.01 3.4/3.7; Task 2620020101; N1-OP-30 Section H.10.0		
	JPM 3 Control Rod Drive Hydraulic System/ Switching CRD Pumps (Alternate Path).	N/A/S	1
	K/A 201001 A4.01 3.1/3.1; Task 2010020101; N1-OP-5 Section F.3.0		
	JPM 4 Plant Ventilation Systems/ Shift Reactor Building Operating Exhaust and Supply fans from # 11's to # 12's. (Alternate Path)	N/A/S	9
	K/A 288000 A4.01 3.1/2.9; Task 2880040101; N1-OP-10 Section F.1.0 and F.2.0	IV/A/S	,
	JPM 5 Traversing Incore Probe/ Secure TIP on receipt of Containment Isolation. (Alternate Path)	N/A/S	7
	K/A 215001 A4.03 3.0/3.1; Task 2159090401; N1-OP-39 Section H.1.0		
_	JPM 6 Reactor Feedwater System/ Change operating Motor Driven Feedwater Pumps at power.	N/S	2
	K/A 259001 A4.02 3.9/3.7; Task 2590040101; N1-OP-16 Section F.2.0		
	JPM 7 Main Turbine Generator and Auxiliary Systems/ Manual Turbine trip. (Alternate Path)	N/A/S/L	4
-	K/A 245000 A2.01 3.7/3.9; Task 2450070101; N1-SOP-4		
	B.2 Facility Walk-Through		
	JPM 8 Isolation (Emergency) Condenser/ Perform initiation of EC's from the Remote Shutdown Panel #11. (O1-OPS-PJE-200-1-64)		
	K/A 207000 A1.09 3.7/3.7; Task 2000140401/2079010201; N1-SOP-9.1	D/R	4
	JPM 9 Liquid Poison System/ Lineup for RPV Injection Using Liquid Poison Test Tank. (O1-OPS-PJE-200-1-21)	D/R	2
	K/A 295031 EA1.08 3.8/3.9; Task 2000310501; N1-EOP-1 Attachment 12		
	JPM 10 Emergency Plant Evolutions/ Diesel Fire Pump Start with No Control Power.		- las / m
	K/A 295031 EA1.08 3.8/3.9; Task 2009050501; N1-OP-21A Sect. H.4.4	N/R	8
	* Type Codes: (D)irect from bank, (M)odified from bank, (N)ew, (A)lternate (S)imulator, (L)ow-Power, (R)CA	e path, (C)ontrol	room,

Facility: <u>Nine Mile Point # 1</u>

Date of Examination: 9/30/02

Exam Level (circle one): SRO

Operating Test No.: SRO

	•	Si Conco
B.1 Control Room Systems	1	
System / JPM Title	Type Code*	Safety Function
JPM 1 Torus Cooling Mode / Transfer Torus Water to the Waste Collector Tank. (01-OPS-SJE-200-1-04)		
K/A 219000 A4.12 3.9/3.8;Task 2269090401/2000230501;	D/S	5
N1-EOP-1 Attachment 15		
JPM 2 A. C. Electrical Distribution / Shift source of power for PB101 from R1014 to R1011.	N/S	6
K/A 262001 A4.01 3.4/3.7; Task 2620020101; N1-OP-30 Section H.10.0		
JPM 3 Control Rod Drive Hydraulic System/ Switching CRD Pumps (Alternate Path).	N/A/S	1
K/A 201001 A4.01 3.1/3.1; Task 2010020101; N1-OP-5 Section F.3.0		
JPM 4 Plant Ventilation Systems/ Shift Reactor Building Operating Exhaust and Supply fans from # 11's to # 12's. (Alternate Path)	N/A/S	9
K/A 288000 A4.01 3.1/2.9; Task 2880040101; N1-OP-10 Section F.1.0 and F.2.0	N/A/S	3
JPM 5 Traversing Incore Probe/ Secure TIP on receipt of Containment Isolation. (Alternate Path)	N/A/S	7
K/A 215001 A4.03 3.0/3.1; Task 2159090401; N1-OP-39 Section H.1.0		
JPM 6 Reactor Feedwater System/ Change operating Motor Driven Feedwater Pumps at power.	N/S	2
K/A 259001 A4.02 3.9/3.7; Task 2590040101; N1-OP-16 Section F.2.0		
JPM 7 Main Turbine Generator and Auxiliary Systems/ Manual Turbine trip. (Alternate Path)	N/A/S/L	4
K/A 245000 A2.01 3.7/3.9; Task 2450070101; N1-SOP-4		
B.2 Facility Walk-Through		
JPM 8 Isolation (Emergency) Condenser/ Perform initiation of EC's from the Remote Shutdown Panel #11. (01-OPS-PJE-200-1-64)		
K/A 207000 A1.09 3.7/3.7; Task 2000140401/2079010201; N1-SOP-9.1	D/R	4
JPM 9 Liquid Poison System/ Lineup for RPV Injection Using Liquid Poison Test Tank. (O1-OPS-PJE-200-1-21)	D/R	2
K/A 295031 EA1.08 3.8/3.9; Task 2000310501; N1-EOP-1 Attachment 12		
JPM 10 Emergency Plant Evolutions/ Diesel Fire Pump Start with No Control Power.		
K/A 295031 EA1.08 3.8/3.9; Task 2009050501; N1-OP-21A Sect. H.4.4	N/R	8
* Type Codes: (D)irect from bank, (M)odified from bank, (N)ew, (A)lternat (S)imulator, (L)ow-Power, (R)CA	te path, (C)ontrol	room,

NINE MILE POINT NUCLEAR STATION

OPERATOR JOB PERFORMANCE MEASURE

Title: Transferring Torus Water to the WCT Using CNT SP Loop 111 Revision: 1

Task Number: 2269090401

Approvals:

/ 9/10/02 Date General Supervisor

Operations Training (Designee)

<u>NA EXAM SECUEITY</u> / General Supervisor Date Operations (Designee)

Alternate Path Task: No

NA EXAM SECURITY	(
Configuration Control	Date

Performer:(RO/SRO/AO)	
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Trainer/Evaluator:		

Evaluation Method:	Х	Perform		Simulate
			· · · · · · · · · · · · · · · · · · ·	

Evaluation Location: _____ Plant ____ X ___ Simulator

Expected Completion Time: 15 Minutes Time Critical 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:

 Evaluators Signature:

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JPM #1 - 1 - August 2002

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

Unit 1 Simulator.

Simulator Set-up (if required):

1. IC-85 or equivalent.

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:

- Critical steps are identified in grading areas Pass/Fail. All steps are sequenced critical unless denoted by a "•".
- 2. During Evaluated JPM:
 - Self verification shall be demonstrated.
- 3. During Training JPM:
 - Self verification shall be demonstrated.
 - Peer verification shall be demonstrated.

References:

1. N1-EOP-1, Attachment 15

Tools and Equipment:

1. None

NM Log # 1-02-050 9/9/02 Final

JPM #1 - 2 - August 2002

Task Standard:

Torus Water Level is being lowered via the Containment Spray System.

Initial Conditions:

- 1. Torus Water Level is rising slowly due to a small leak inside the Drywell.
- 2. Level is 11.34 feet and EOP-4 has been entered.
- 3. Containment Spray pumps have been placed in "Pull to Lock".
- 4. Instructor to ask operator for any questions.

Initiating Cues:

"(Operator's name), lower Torus level by discharging water to the waste collector tank using Containment Spray Loop 111 per EOP-1, Attachment 15. Inform the SSS when Torus level begins to lower."

Perf	ormance Steps	Standard	Grade
1.	Provide repeat back of initiating cue. Evaluator Acknowledge repeat back providing correction if necessary.	Proper communications used for repeat back (GAP-OPS-O1/Operations Manual)	Sat/Unsat
REC	CORD START TIME		
2.	Obtain a copy of reference procedure and review/utilize the correct section of the procedure.	N1-EOP-1, Attachment 15 obtained and reviewed & section 1 and 2 referenced.	Sat/Unsat
3.	Notify Radwaste of intent to pump down Torus to Waste Collector Tank.	Radwaste notified.	Sat/Unsat
Cue:	Acknowledge as Radwaste operator		
4.	Close valve 80-45, Cont. Spray Bypass BV 122.	80-45 control switch positioned CCW to close and/or observing green light on, red light off.	Pass/Fail
5.	Open valve 80-118 Cont. Spray Test to Torus FCV.	80-118 control switch positioned CW to open and verifying red light on, green light off.	Pass/Fail
6.	Verify 80-16, Cont. Spray Disch. Vlv. closed.	80-16 control switch positioned CCW to close and/or observing green light on, red light off.	Pass/Fail
7.	Verify 80-40, Cont. Spray Bypass BV111 Open.	80-40 control switch positioned CW to open and/or observing red light on, green light off.	Sat/Unsat

Perfo	ormance Steps	Standard	Grade	
8.	Start Containment Spray Raw Water Pump 111.	Raw Water Pump 111 control switch positioned CW to start and observing red light on, green light off	Pass/Fail	
9.	Start Containment Spray Pump 111.	Containment Spray Pump 111 control switch CW positioned to start and observing red light on, green light off	Pass/Fail	
10.	Open valve 80-115, Cont. Spray to Radwaste IV 12.	80-115 control switch positioned CW to open and observing red light on, green light off.	Pass/Fail	
11.	Open valve 80-114 Cont. Spray to Radwaste IV 11.	80-114 control switch positioned CW to open and observing red light on, green light off.	Pass/Fail	
12.	Throttle valve 80-118 Containment Spray Test to Torus FCV as required to ensure flow to Waste Collector Tank.	80-118 control switch jogged CCW to closed and observing dual indication red and green lights on.	Sat/Unsat/ NA	
Cue:	If necessary, Radwaste has indication of sufficient flow.			
13.	Monitor 58-05A and 58-06A TORUS H_2O level indicators for level response.	TORUS H ₂ O LEVEL indicators 58-05A and 58-06A monitored for level response.	Sat/Unsat	
14.	Inform SSS that flow to the Waste Collector Tank has been established using Containment Spray Loop 111 and Torus level is lowering.	Proper communications used.	Sat/Unsat	
Cue:	Acknowledge report.			

Terminating Cue: Torus water level being lowered via the Containment Spray system

RECORD STOP TIME

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Initial Conditions:

- 1. Torus Water Level is rising slowly due to a small leak inside the Drywell.
 - 2. Level is 11.34 feet and EOP-4 has been entered.
 - 3. Containment Spray pumps have been placed in "Pull to Lock".
 - 4. Instructor to ask operator for any questions.

Initiating Cues:

"(Operator's name), lower Torus level by discharging water to the waste collector tank using Containment Spray Loop 111 per EOP-1, Attachment 15. Inform the SSS when Torus level begins to lower."

NINE MILE POINT NUCLEAR STATION

OPERATOR JOB PERFORMANCE MEASURE

Title: Shift Source of Power for PB101 from R1014 to R1011.

Task Number: 2620020101

Approvals:

/ **8/22/se** Date General Supervisor

Operations Training (Designee)

Evaluation Location:

NA Exam Security / General Supervisor Date Operations (Designee)

Revision: 1

NA EXAM SECULZ.	N /
Configuration Control	Date

Performer:	(RO/SRO/AO)	
Trainer/Evaluator:		

Evaluation Method:	X	Perform	Simulate

Plant

Expected Completion Time: 10 Minutes Time Critical Task: No Alternate Path Task: No

 Start Time:
 Stop Time:
 Completion Time:

Fail

- JPM Overall Rating: Pass
- **<u>NOTE</u>:** 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.

Х

Simulator

Comments:

Evaluators Signature:

Date:

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

Unit 1 Simulator

Simulator Set-up (if required):

Power for PB101 from R1014.

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:

- Critical steps are identified in grading areas **Pass/Fail**. All steps are sequenced critical unless denoted by a "."
- 2. During Evaluated JPM:
 - Self verification shall be demonstrated.
- 3. During Training JPM:
 - Self verification shall be demonstrated.
 - Peer verification shall be demonstrated.

References:

1. N1-OP-30

Tools and Equipment:

1. None

Task Standard:

Power for PB101 shifted from R1014 to R1011.

Initial Conditions:

- 1. Electrical Maintenance has a work package to do surveillance work on R1014.
- 2. Potential Transformers J1017, J1016, and J1015 are racked in.
- 3. Instructor to ask operator for any questions.

Initiating Cues:

"(Operator's name), shift the source of power for PB101 from R1014 to R1011, IAW N1-OP-30, Section H.10.0."

Per	formance Steps	Standard	Grade
1.	Provide repeat back of initiating cue. Evaluator Acknowledge repeat back providing correction if necessary.	Proper communications used for repeat back (GAP-OPS-O1/Operations Manual)	Sat/Unsat
RE	CORD START TIME		
2.	Obtain a copy of the reference procedure and review/utilize the correct section of the procedure.	N1-OP-30 obtained. Precautions & limitations reviewed & section H.10.0 referenced.	Sat/Unsat
3.	Place PB101 Supply BKR INTERLOCK BY-PASS SWITCH in Bypass	Control switch rotated to the Bypass position. Annunciator A5-2-1, Power Bd. 101 Bkr.	Pass/Fail
		Bypass Switch is received	
4.	Turn Sync Key on.	Sync Key inserted into Breaker R1011 and rotated clockwise to the ON position.	Pass/Fail
5.	Confirm incoming and running voltage normal.	Observe incoming and running voltages matched.	Sat/Unsat
6.	Close Breaker R1011.	Control switch rotated clockwise to the close position. Red light above switch illuminates, green light above switch extinguishes.	Pass/Fail
7.	Turn Sync Key off.	Sync Key rotated to the off position.	Pass/Fail

8.	Remove Sync Key.	Sync Key removed from Breaker R1011.	Sat/Unsat		
9.	Open Breaker R1014.	Control switch rotated counter-clockwise to the open position. Green light above switch illuminates, red light above switch extinguishes	Pass/Fail		
10.	Place PB101 Supply BKR INTERLOCK BY-PASS SWITCH in Normal	Control switch rotated to the Normal position. Annunciator A5-2-1, Power Bd. 101 Bkr. Bypass Switch clears	Pass/Fail		
1.	Notify ASSS/SSS that power is shifted from R1014 to R1011.	Proper communications used.	Sat/Unsat		
	Cue: Acknowledge report.				
Terr	Terminating Cue: Power for PB101 shifted from R1014 to R1011.				

RECORD STOP TIME

Initial Conditions:

- 1. Electrical Maintenance has a work package to do surveillance work on R1014.
- 2. Potential Transformers J1017, J1016, and J1015 are racked in.
- 3. Instructor to ask operator for any questions.

Initiating Cues:

"(Operator's name), shift the source of power for PB101 from R1014 to R1011, IAW N1-OP-30, Section H.10.0."

NINE MILE POINT NUCLEAR STATION

OPERATOR JOB PERFORMANCE MEASURE

Title: Switch CRD Pumps fro	om #12 to 11 (A	lternate Path)		Revision: 1
Task Number: 2010020101				
Approvals:				
General Supervisor Operations Training (Designee	/ 8/2 Date)	2/02	NA EXAM General Super Operations (D	SECULATY / visor Date esignee)
NA EXAM SECULIN Configuration Control	/ Date			
Performer:		(RO/S	RO/AO)	
Trainer/Evaluator:				
Evaluation Method: X	Perform		Simulate	
Evaluation Location:	_ Plant	X	Simulator	
Expected Completion Time:	10 Minutes	Time Critical	Task: No	Alternate Path Task: Yes
Start Time:	Stop T	ime:	Compl	etion 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:

 Evaluators Signature:
 Date:

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

Unit 1 Simulator

Simulator Set-up (if required):

- 1. Place CRD Pump #12 in service.
- I/O Override 05M181-AO-056, (F5 Panel, switch, page 19 of 21), V= 400 (high pump amps on CRD Pump 11) assigned to a Function key.
- 3. I/O Override 05M181-AO-056, (F5 Panel, switch, page 19 of 21) removed when CRD Pump is shutdown.
- 4. Crywolf annunciator F3-02 assigned to same Function key as #2 above.

Directions to the Instructor/Evaluator:

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

Directions to Operators:

Read Before Every JPM Performance:

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

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

Read Before Each Evaluated JPM Performance:

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

Read Before Each Training JPM Performance:

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

Notes to Instructor / Evaluator:

- 1. Critical steps are identified in grading areas **Pass/Fail**. All steps are sequenced critical unless denoted by a "•".
- 2. During Evaluated JPM:
 - Self verification shall be demonstrated.
- 3. During Training JPM:
 - Self verification shall be demonstrated.
 - Peer verification shall be demonstrated.

References:

- 1. N1-OP-5
- 2. F3-1-2 Annunciator

Tools and Equipment:

1. None

Task Standard:

Identify high operating amps on CRD Pump 11, and place CRD Pump 12 back in service.

Initial Conditions:

- 1. CRD Pump 11 is in standby.
- 2. Pre-start checks for CRD Pump 11 are SAT.
- 3. Instructor to ask operator for any questions.

Initiating Cues:

"(Operator's name), Place CRD Pump 11 in service IAW N1-OP-5, Section F.3.0, Step 3.1"

Perf	ormance Steps	Standard	Grade
1.	Provide repeat back of initiating cue. Evaluator Acknowledge repeat back providing correction if necessary.	Proper communications used for repeat back (GAP-OPS-O1/Operations Manual)	Sat/Unsat
REC	CORD START TIME		
2.	Obtain a copy of the reference procedure and review/utilize the correct section of the procedure.	N1-OP-5 obtained. Precautions & limitations reviewed & section F.3.0 referenced.	Sat/Unsat
3.	Place CRD Pump 11 control switch to START.	Control switch rotated to the start position and observe red indicating light on, green indicating light off. Annunciator A3-1-2, RPS UPS 162 Trouble may alarm on voltage transient	Pass/Fail
4.	Verify Backfill System shifted.	Contact AO to verify Backfill shifted.	Sat/Unsat
Cue:	As AO, inform candidate backfill has been shifted.		
5.	Place CRD Pump 12 control switch to STOP.	Control switch rotated to the stop position and observe green indicating light on, red indicating light off.	Pass/Fail
	<u>Note</u>: Insert I/O for high CRD pump amps and Vibration Annunciator F3-1-2		
6.	Acknowledge and report annunciator F3-1- 2, "CRD Pump #11 Trip - Vibration"	Proper communications used.	Sat/Unsat
	JPM #3	-3- August 2002	

Perfo	ormance Steps	Standard	Grade
7.	Enter Annunciator Procedure N1-ARP-F3 and verify pump running current between 200 - 240 amps, flow between 28 - 32 X 10^3 lbm/hr, and filter DP normal	 Visually verify the following: pump motor current 400 amps flow between 28 - 32 X 10³ lbm/hr CRD FILTER DIFF PRESS not alarming 	Pass/Fai
8.	Inform ASSS of high amps on CRD Pump 11.	Proper communications used	Sat/Unsa
9.	Recommend switching to CRD Pump 12 and securing CRD Pump 11	ASSS acknowledges recommendation.	Pass/Fail
Cue:	As ASSS, direct candidate to switch from CRD Pump 11 to CRD Pump 12 in accordance with Step 3.2.		
10.	Place CRD Pump 12 control switch to START.	Control switch rotated to the start position and observe red indicating light on, green indicating light off. Annunciator A3-1-3, RPS UPS 172 Trouble may alarm on voltage transient	Pass/Fail
11.	Verify Backfill System shifted.	Contact AO to verify Backfill shifted	Sat/Unsat
	Cue: As AO, inform candidate backfill has been shifted.		
Rem	Place CRD Pump 11 control switch to Stop. ove I/O override for high CRD pump s when pump is stopped.	Control switch rotated to the stop position and observe green indicating light on, red indicating light off.	Pass/Fail
13.	Confirm system flow on FIC 44-146B, CRD FLOW CONTROL.	Visually observe flow between 64 and 66 gpm $(32-33 \times 10^3 \text{ LB/HR})$	Sat/Unsat
	Notify ASSS/SSS that CRD Pump 12 has been returned to service and flow is normal.	Proper communications used.	Sat/Unsat
	Cue: Acknowledge report.		

Terminating Cue:

High operating amps identified on CRD Pump 11, and CRD Pump 12 placed back in service.

RECORD STOP TIME

Initial Conditions:

- 1. CRD Pump 11 is in standby.
- 2. Pre-start checks for CRD Pump 11 are SAT.
- 3. Instructor to ask operator for any questions.

Initiating Cues:

"(Operator's name), Place CRD Pump 11 in service IAW N1-OP-5, Section F.3.0, Step 3.1"

NINE MILE POINT NUCLEAR STATION

OPERATOR JOB PERFORMANCE MEASURE

Title: Shift Reactor Building Operating Exhaust and Supply Fans From #11 to #12. (Alternate path)

Task Number: 2880040101

Approvals:

/ **9/10/02** Date General Supervisor

Operations Training (Designee)

NA EXAM SECUENTY / General Supervisor

Operations (Designee)

Revision: 1

Date

NA EXAM SELLENY / Configuration Control Date

Performer:	(RO/SRO/AO)

Trainer/Evaluator:	

Evaluation Method: X Perform Simulate

Evaluation Location: _____ Plant ____ X ___ Simulator

Expected Completion Time: 15 Minutes Time Critical Task: No Alternate Path Task: Yes

 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:

Evaluators Signature:

Date:

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

Unit 1 Simulator

Simulator Set-up (if required):

- 1. RX Building Supply and Exhaust Fans #11 in service.
- 2. RB VENT JPM SETUP
 - Event trigger set ET02 to algorythm variable ZDHVF02T with equation A EQ FALSE
 - Overrides (Delete overrides when Supply Fan 12 switch is taken to STOP.)
 - 11S068-DI-049-12, RB Supply Fan 12 & Inlet Damper, POS_1 ET02
 - 11M004-AO-003, React Bldg supply Fan 12 AMP, 5 ET02
 - 11DS229-LO-B-062-04, Reactor Bldg Supply Fan 12 OFF-G OFF ET02
 - 11DS230-LO-B-062-05, Reactor Bldg Supply Fan 12 SLOW-R ON ET02
 - 11DS216-LO-B-061-07, Reactor Bldg Supply Fan 12 Inlet Damper, Clos1 OFF ET02 TUA=15sec
 - 11DS217-LO-B-061-08, Reactor Bldg Supply Fan 12 Inlet Damper, OPENL ON ET02

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:

Critical steps are identified in grading areas Pass/Fail. All steps are sequenced critical unless denoted by a "•".

- 2. During Evaluated JPM:
 - Self verification shall be demonstrated.
- 3. During Training JPM:
 - Self verification shall be demonstrated.
 - Peer verification shall be demonstrated.

References:

1. N1-OP-10

Tools and Equipment:

1. None

Task Standard:

Identify low flow on Supply Fan #12, and place Supply Fan #11 back in service.

Initial Conditions:

- 1. Reactor Building Exhaust Fan #11, and Reactor Building Supply Fan # 11 are in service.
- 2. Instructor to ask operator for any questions.

Initiating Cues:

"(Operator's name), Place Reactor Building Exhaust and Supply Fans #12 in service IAW N1-OP-10 Section F.1.0 and F.2.0.

Perf	formance Steps	Standard	Grade
1.	Provide repeat back of initiating cue. Evaluator Acknowledge repeat back providing correction if necessary.	Proper communications used for repeat back (GAP-OPS-O1/Operations Manual)	Sat/Unsat
RE	CORD START TIME		
2.	Obtain a copy of the reference procedure and review/utilize the correct section of the procedure.	N1-OP-10 obtained. Precautions & limitations reviewed & section F.1.0 and F.2.0 referenced.	Sat/Unsat
3.	Verify operating RX Building supply and exhaust fans in SLOW.	Visually observe REACTOR BLDG SUPPLY FAN 11 and REACTOR BLDG EXHAUST FAN 11 fans in SLOW red slow light illuminated.	Sat/Unsat
4.	Start REACTOR BLDG EXHAUST FAN 12 on SLOW	Rotate REACTOR BLDG EXHAUST FAN 12 control switch CW to the slow position observe red slow light illuminated, green light off.	Pass/Fail
5.	Confirm damper 202-07, REACTOR BLDG EXHAUST FAN 12 OUTLET DAMPER open.	Observe 202-07 open red light on, green light off.	Sat/Unsat
6.	Stop REACTOR BLDG EXHAUST FAN 11.	Rotate REACTOR BLDG EXHAUST FAN 11 control switch CCW to the Off position.	Pass/Fail
7.	Confirm damper 202-08, REACTOR BLDG EXHAUST FAN 11 OUTLET DAMPER closed.	Observe REACTOR BLDG EXHAUST FAN 11 OUTLET DAMPER closed green light on, red light off.	Sat/Unsat
8.	Confirm normal system flow.	Observe annunciator L1-2-5 RB VENT EXH FLOW LOW is clear.	Sat/Unsat

	ormance Steps	Standard	Grade
9.	Start REACTOR BLDG SUPPLY FAN 12 on SLOW.	Rotate REACTOR BLDG SUPPLY FAN 12 control switch CW to the Slow position observe red slow light illuminated, green light off.	Pass/Fail
10.	Confirm damper FCV 202-04, REACTOR BLDG SUPPLY FAN 12 INLET DAMPER open.	Observe 202-04 open red light on, green light off	Sat/Unsat
Note	: Candidate may not notice amps low and continue in procedure to secure Fan 11. There are 2 success paths.		
	 Low amps identified after Supply Fan 12 start. Candidate performs steps 11,12,13 and 18, with step 13 a critical step. Low amps not identified after Supply Fan 12 start. Candidate performs steps 14,15,16,17,18, with step 16 a critical step. 		
	Identify low amps on REACTOR BLDG SUPPLY FAN 12.	Observe low amps on Fan 12 (5-10 amps) with Fan 11 amps remaining at normal (~30 amps).	Sat/Unsat/ NA
	Inform ASSS of low amps on REACTOR BLDG SUPPLY FAN 12.	Recommend Fan 11 remains in service and Fan 12 be shutdown.	Sat/Unsat/ NA
	As SSS, concur and allow Fan 11 to remain in service.		
13.	Secure REACTOR BLDG SUPPLY FAN 12.	Rotate REACTOR BLDG SUPPLY FAN 12 control switch CCW to the Off position.	Pass/Fail/ NA
	Secure REACTOR BLDG SUPPLY FAN	Rotate REACTOR BLDG SUPPLY FAN 11 control switch CCW to the Off position and observe red slow light off, green light illuminated.	Pass/Fail/ NA
Cue: `ollow	If directed from L1-2-4 report the ving:	Observe annunciator L1-3-4 and L1-2-4 alarm	
	leating Unit is tripped	Observe RB dp indication rises indicating	

Perf	ormance Steps	Standard	Grade
	Report abnormal indication to ASSS : As SSS, concur and allow Fan 11 to be rned to service and Fan 12 to be shutdown.	Recommend returning Fan 11 to service and securing Fan 12	Sat/Unsat/ NA
16.	Start REACTOR BLDG SUPPLY FAN 11 on SLOW.	Rotate REACTOR BLDG SUPPLY FAN 11 control switch CW to the Slow position observe red slow light illuminated, green light off.	Pass/Fail/ NA
17.	Secure REACTOR BLDG SUPPLY FAN 12	Rotate REACTOR BLDG SUPPLY FAN 12 control switch CCW to the Off position and observe red slow light off, green light illuminated.	Pass/Fail/ NA
		Observe annunciator L1-3-4 and L1-2-4 alarm clear	
		Observe RB dp indication returns to normal	
18.	Notify ASSS/SSS that REACTOR BLDG SUPPLY FAN 11 has been returned to service with normal dp and REACTOR BLDG supply FAN 12 is secured.	Proper communications used.	Sat/Unsat

Cue: Acknowledge report.

Terminating Cue: Misoperation identified on Supply Fan 12. Supply Fan 11 is running with either Exhaust Fan 11 or 12 running.

RECORD STOP TIME _____

Initial Conditions:

- 1. Reactor Building Exhaust Fan #11, and Reactor Building Supply Fan # 11 are in service.
 - 2. Instructor to ask operator for any questions.

Initiating Cues:

"(Operator's name), Place Reactor Building Exhaust and Supply Fans #12 in service IAW N1-OP-10 Section F.1.0 and F.2.0.

NINE MILE POINT NUCLEAR STATION

OPERATOR JOB PERFORMANCE MEASURE

Title: Secure TIP on receipt of Containment Isolation (Alternate Path)

Revision: 1

Task Number: 2159090401

Approvals:

/ **9/10/02** Date General Supervisor

Operations Training (Designee)

<u>HA</u> ExAM <u>SEcurity</u> / General Supervisor Date Operations (Designee)

NA EXAMSELLETY	/
Configuration Control	Date

D	
Performer:	(RO/SRO/AO)
	(10) 210)

Trainer/Evaluator:		

Evaluation Method:	Х	Perform	Simulate

Evaluation Location: Plant X Simulator

Expected Completion Time:	15 Minutes	Time Critical Task: No
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Alternate Path Task: Yes

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:

Evaluators Signature:

Date	:

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

Unit 1 Simulator

Simulator Set-up (if required):

- 1. Initialize the simulator to any IC
- 2. Create Event Trigger on ZDNMREVM(2) EQ TRUE
- 3. Select and drive TIP Machine #1 into core location 12-09 at the Core Top position
- 4. Place TIP control switches in the following positions:
 - Mode switch in MAN
 - Channel 12-09 selected
 - Low switch in ON
 - Manual switch in OFF
 - MAN Valve Control in CLOSED
 - Core Limit in BOTTOM
- 5. Set Malfunction NM33, TIP DETECTOR STUCK IN CORE, TRUE, TUA 1 minute on created Event Trigger.

Directions to the Instructor/Evaluator:

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

Directions to Operators:

Read Before Every JPM Performance:

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

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

Read Before Each Evaluated JPM Performance:

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

Read Before Each Training JPM Performance:

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

Notes to Instructor / Evaluator:

- 1. Critical steps are identified in grading areas **Pass/Fail**. All steps are sequenced critical unless denoted by a "•".
- 2. During Evaluated JPM:
 - Self verification shall be demonstrated.
- 3. During Training JPM:
 - Self verification shall be demonstrated.
 - Peer verification shall be demonstrated.

References:

1. N1-OP-39

Tools and Equipment:

1. None

Task Standard:

Squib fired, SQUIB MONITOR and SHEAR VALVE MONITOR lights lit.

Initial Conditions:

- 1. A TIP trace has been completed in core location 12-09 using TIP Machine #1.
- 2. The TIP trace was completed in the MANUAL mode.
- 3. The TIP detector is located at the core top location in channel 12-09 and needs to be withdrawn to the inshield position.
- 4. Instructor to ask operator for any questions.

Initiating Cues:

"(Operator's name), withdraw the TIP detector in the Manual Mode to its in-shield position in accordance with Step F.3.6 of N1-OP-39."

Performance Steps		Standard	Grade
1.	Provide repeat back of initiating cue. Evaluator Acknowledge repeat back providing correction if necessary.	Proper communications used for repeat back (GAP-OPS-O1/Operations Manual)	Sat/Unsat
RE	CORD START TIME		
2.	Obtain a copy of the reference procedure and review/utilize the correct section of the procedure.	N1-OP-39 obtained. Precautions & limitations reviewed & section F.3.6 is referenced.	Sat/Unsat
3.	Set MODE Switch to MAN	Verify MODE switch is in the MAN position.	Sat/Unsat
4.	Set MANUAL Switch to REV and verify TIP Detector is withdrawn to Chamber Shield (IN-SHIELD light is lit.)	Rotate MANUAL switch to REV, TIP detector starts moving out of the core.	Pass/Fail

Perfo	ormance Steps	Standard	Grade
Note	When the detector has moved for 1 minute, verify malfunction NM-33 activates from Event Trigger.	When NM-33 is inserted, the detector will be stuck where it is in the core. All actions to move the detector will be unsuccessful.	
• 5	Notifies SSS of Stuck TIP Detector	Notifies SSS of Stuck TIP Detector and the remainder of step F.3.6 cannot be completed.	Sat/Unsat
Cue:	Acknowledge detector is stuck. THEN inform the candidate that drywell pressure has suddenly exceeded 3.5 psig due to a coolant leak in the drywell.		
6.	When the containment isolation setpoint (3.5 psig) is reached, refer to N1-OP-39, section H.1.0, "Securing TIP on receipt of Containment Isolation."	Section H.1.0 of N1-OP-39 is referenced.	Sat/Unsat
7.	Confirm TIP Machine #1 Detector withdraws and Ball Valve closes.	Determines detector is stuck, ball valve remains open and step H.1.1 cannot be performed.	Pass/Fail
8.	Verify Ball Valve MAN. VALVE CONTROL switch in CLOSE	Determines placing Ball Valve MAN. VALVE CONTROL switch in CLOSE is not required.	Sat/Unsat
9.	Determine if detector is stuck.	Visually observe position of detector on position display for TIP Machine #1 and	Sat/Unsat/ NA
Note	: This should have been previously determined.	recognize it is not changing.	
10.	Attempt to free the detector using FWD and REV positions on the MANUAL Selector Switch.	Position the MANUAL Selector Switch for TIP Machine #1 alternately from the FWD to REV positions.	Pass/Fail
		Visually observe position of detector on position display for TIP Machine #1 and recognize it is not changing. (Detector remains in the core)	Sat/Unsat
11.	Consult with SSS and determine if squib valve should be fired.	Proper communications used.	Sat/Unsat
Cue:	As SSS, direct candidate to continue procedure steps.		
12.	Select associated keylock squib fire switch to FIRE.	Rotate the squib fire keylock switch to the FIRE position for 36-151.	Pass/Fail

Perf	ormance Steps	Standard	Grade
13.	Confirm SQUIB MONITOR Light for 36- 151 is lit.	Visually observe SQUIB MONITOR amber Light is lit	Sat/Unsat
14.	Confirm SHEAR VALVE MONITOR Light for 36-151 is lit.	Visually observe SHEAR VALVE MONITOR amber Light is lit.	Sat/Unsat
15.	Notify SSS Squib valve has been fired.	Proper communications used.	Sat/Unsat

Terminating Cue: Squib fired, SQUIB MONITOR and SHEAR VALVE MONITOR Lights lit for 36-151.

RECORD STOP TIME _____

Initial Conditions:

- 1. A TIP trace has been completed in core location 12-09 using TIP Machine #1.
- 2. The TIP trace was completed in the MANUAL mode.
- 3. The TIP detector is located at the core top location in channel 12-09 and needs to be withdrawn to the in-shield position.
- 4. Instructor to ask operator for any questions.

Initiating Cues:

"(Operator's name), withdraw the TIP detector in the Manual Mode to its in-shield position in accordance with Step F.3.6 of N1-OP-39."

NINE MILE POINT NUCLEAR STATION

OPERATOR JOB PERFORMANCE MEASURE

Title: Changing Motor-driven Feedwater Pumps at Power (From #12 to #11) Revision: 1

Task Number: 2590040101

Approvals:

1 9/10/02 Date General Supervisor

Operations Training (Designee)

NA EXAM SEarch Configuration Control

NA EXAM SECURITY / General Supervisor

Operations (Designee)

Date

Performer:		(RO/SRO/AO)
Trainer/Evaluator:		
Evaluation Method: X	Perform	Simulate
Evaluation Location:	Plant	X Simulator
Expected Completion Time:	15 Minutes	Time Critical Task: NO Alternate Path Task: NO
Start Time:	Stop Time:	Completion Time:
JPM Overall Rating:	Pass	Fail

Date

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:

Evaluators Signature:

Date	

NM Log # 1-02-053 9/9/02 Final

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

Unit 1 Simulator

Simulator Set-up (if required):

- 1. Initialize simulator to IC-24 or equivalent
- 2. RFP 13 and 12 are in service.
- 3. RFP 11 is in standby.

Directions to the Instructor/Evaluator:

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

Directions to Operators:

Read Before Every JPM Performance:

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

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

Read Before Each Evaluated JPM Performance:

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

Read Before Each Training JPM Performance:

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

Notes to Instructor / Evaluator:

- 1. Critical steps are identified in grading areas **Pass/Fail**. All steps are sequenced critical unless denoted by a "•".
- 2. During Evaluated JPM:
 - Self verification shall be demonstrated.
- 3. During Training JPM:
 - Self verification shall be demonstrated.
 - Peer verification shall be demonstrated.

References:

1. N1-OP-16

Tools and Equipment:

1. None

Task Standard:

RFP 11 online feeding the RPV with RFP 12 secured.

Initial Conditions:

- 1. Plant is at 100% power.
- 2. MCPR is 1.62
- 3. RFP 13 and 12 are in service.
- 4. RFP 11 is in standby
- 5. RFP 11 oil levels are in the normal range
- 6. RFP 11 Lubrication and cooling water flows are normal
- 7. Instructor to ask operator for any questions.

Initiating Cues:

"(Operator's name), Shift operating feedwater pumps from RFP 12 to RFP 11 per N1-OP-16, Section F.2.0."

Performance Steps		Standard	Grade
1.	Provide repeat back of initiating cue. Evaluator Acknowledge repeat back providing correction if necessary.	Proper communications used for repeat back (GAP-OPS-O1/Operations Manual)	Sat/Unsat
RE	CORD START TIME		
2.	Obtain a copy of the reference procedure and review/utilize the correct section of the procedure.	N1-OP-16 obtained. Precautions & limitations reviewed & section F.2.0 referenced.	Sat/Unsat
3.	Verify one of the following:		
	• RFP13 VALVE CONTROL M/A station in AUTO and the combined flow for RFP 11 and 12 is less than or equal to 1.5 x 10 ⁶ lbm/hr	Verifies FWP 13 Controller mode switch in AUTO or BAL position AND RFP 12 flow is less than or equal to 1.5×10^6 lbm/hr. Places check mark in step 2.1	Sat/Unsat/ NA
	OR	OR	
	• MCPR greater than 1.59	Places check mark in "MCPR greater than 1.59" step (since MCPR is 1.62)	Sat/Unsat/ NA

Performance Steps	Standard	Grade
 Verify the following for the oncoming feedwater pump (FWP 11); 		
• Flow Control M/A station in MANUAL and demand output of zero	FWP 11 Flow Control M/A station in MAN and output meter indicates 0.	Sat/Unsat
• BYPASS Valve M/A station in MANUAL and demand output of zero	FWP 11 BYPASS Valve M/A station MANUAL PB "MAN" light illuminated and output meter indicates 0.	Sat/Unsat
. Using local indication, verify FWP 11 FLOW Control Valves FCV 29-141 and 29- 49 are closed	Dispatches operator to locally verify FWP 11 FLOW Control Valves FCV 29-141 and 29- 49 are closed	Sat/Unsat
Cue: As operator dispatched, report FCV 29-41 and 29-49 are closed	Acknowledges report	
. Using local indication, verify open 6 inch recirc blocking for 11 and 12 FWP:	Dispatches operator to locally verify	
• 29-55, BV-FW PUMP 11 6" RECIRC	• 29-55, BV-FW PUMP 11 6" RECIRC	Sat/Unsat
• 29-57, BV-FW PUMP 12 6" RECIRC	 valve open 29-57, BV-FW PUMP 12 6" RECIRC valve open 	Sat/Unsat
ue: As operator dispatched, report 29-55, BV- W PUMP 11 6" RECIRC valve, and 29-57, BV- W PUMP 12 6" RECIRC valve are open	Acknowledges the report	
Verify operating motor-driven feedwater pump VALVE CONTROL M/A station in MANUAL	FWP 12 VALVE CONTROL M/A station observed in MAN position	Sat/Unsat
Monitor vessel level AND response of 13 FWP VALVE CONTROL controller while changing motor-driven feedwater pumps	Observes vessel level and 13 FWP VALVE CONTROL controller	Sat/Unsat
(Continuous action while performing subsequent steps)		
Start selected feedwater pump AND confirm the following for the pump started:	RFP 11 control switch rotated CW to Start position and observe red light energized and green light extinguished	Pass/Fail
• FCV 29-23 and 29-51, 11 FWP recirc valves open	Observe dual indication on FCV 29-23 and 29-51, 11 FWP recirc valves	Sat/Unsat

~

erformance Steps	Standard	Grade
• Annunciator H3-1-7 and H3-1-8, clear	Annunciators H3-1-7 and H3-1-8 clear	Sat/Unsat
0. Transfer load between FWP 11 and 12 by performing the following concurrently:	Concurrently:	
• Slowly open oncoming FWP VALVE CONTROL manually	Rotate manual control knob on 11 FWP VALVE CONTROL CW to open valve AND	
• Slowly close offgoing FWP VALVE CONTROL manually	Rotate manual control knob on 12 FWP VALVE CONTROL CCW to close valve	
	Such that turbine control valves do not oscillate, and RPV water level hi and low annunciators DO <u>NOT</u> alarm.	Pass/Fail
 WHEN offgoing FWP VALVE CONTROL M/A station indicates valve is closed, stop feedwater pump: 	When 12 FWP VALVE CONTROL indicates 0 position rotate 12 FWP control switch CCW to the STOP position	Pass/Fail
 Confirm Aux Oil Pump running by observing red light lit 	Observing 12 FWP Aux Oil Pump (center) red light lit	Sat/Unsat
 Confirm pump shaft is <u>NOT</u> rotating backwards 	Contacts AO to confirm shaft is <u>NOT</u> rotating backwards	Sat/Unsat
Cue: As the operator dispatched, report that the FWP 12 shaft is <u>NOT</u> rotating backwards	Acknowledges report	
 Report that RFP 11 is running feeding the RPV and RFP 12 is secured 	Proper communications used	Sat/Unsat
ie: Acknowledge report		

Terminating Cue: RFP 11 running and feeding the RPV with RFP 12 secured

RECORD STOP TIME

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- 1. Plant is at 100% power.
 - 2. MCPR is 1.62
 - 3. RFP 13 and 12 are in service.
 - 4. RFP 11 is in standby
 - 5. RFP 11 oil levels are in the normal range
 - 6. RFP 11 Lubrication and cooling water flows are normal
 - 7. Instructor to ask operator for any questions.

Initiating Cues:

"(Operator's name), Shift operating feedwater pumps from RFP 12 to RFP 11 per N1-OP-16, Section F.2.0."

NINE MILE POINT NUCLEAR STATION

OPERATOR JOB PERFORMANCE MEASURE

Title: Manual Turbine Trip (Alternate Path)

Task Number: 2450070101

Approvals:

/ **9/10/07** Date General Supervisor

Operations Training (Designee)

Revision: 2

<u>NA</u> <u>EXAM</u> <u>SECURITY</u> / General Supervisor Operations (Designee)

Date

NA EXAM SECURI	TY /		
Configuration Control	Date		
Performer:		(RO/SRO/AO)	
Trainer/Evaluator:			
Evaluation Method: X	Perform	Simulate	
Evaluation Location:	Plant	X Simulator	
Expected Completion Time: 1	5 Minutes	Time Critical Task: No	Alternate Path Task: Yes
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:

Evaluators Signature:_____

Date:____

NM Log # 1-02-054 9/9/02 Final

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

Unit 1 Simulator

Simulator Set-up (if required):

- 1. IC-84
- 2. Main Turbine startup in progress, Generator ready to be synchronized, Sync switch is in R915 and turned ON, incoming and running voltages are matched.
- 3. Complete N1-OP-32 through Step E.3.3. Candidate will start JPM with Step E.3.4.
- 4. Annunciator A7-27 crywolf for A7-4-3, "Main Generator Lockout 86G2" on a pre-determined function key (F3).
- 5. Malfunction EG01, Main Generator Trip set on event trigger (ET01) "86G1 TRIPPED" (ET01 = ZDEGRST1(1) EQ TRUE)

Directions to the Instructor/Evaluator:

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

Directions to Operators:

Read Before Every JPM Performance:

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

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

Read Before Each Evaluated JPM Performance:

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

Read Before Each Training JPM Performance:

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

Notes to Instructor / Evaluator:

- 1. Critical steps are identified in grading areas **Pass/Fail**. All steps are sequenced critical unless denoted by a "•".
- 2. During Evaluated JPM:
 - Self verification shall be demonstrated.
- 3. During Training JPM:
 - Self verification shall be demonstrated.
 - Peer verification shall be demonstrated.

References:

- 1. Alarm Response N1-ARP-A7
 - A7-1-3, A7-1-4, A7-1-5
 - A7-3-3, A7-3-6
 - A7-4-2, A7-4-3, A7-4-5
 - 2. N1-SOP-4
 - 3. N1-OP-31
 - 4. N1-OP-32

Tools and Equipment:

1. A copy of N1-OP-32 marked up through Step 3.4, with the synch key for R915 turned ON.

Task Standard:

Main Turbine tripped, TCV's, TSV's and Combined Reheat Valves closed.

Initial Conditions:

- 1. A plant startup is in progress.
- 2. Reactor power is approximately 20%.
- 3. N1-OP-43A Step E.5.7 is in progress to synchronize and load the turbine and generator.
- 4. The Main Generator is ready to be synchronized to the grid.
- 5. N1-OP-32 is completed through Step E.3.3.
- 6. Instructor to ask operator for any questions.

Initiating Cues:

"(Operator's name), complete synchronizing the Main Generator to the grid by starting at Step E.3.5 of N1-OP-32, load the generator until all turbine bypass valves are closed."

Per	formance Steps	Standard	Grade
1.	Provide repeat back of initiating cue. Evaluator Acknowledge repeat back providing correction if necessary.	Proper communications used for repeat back (GAP-OPS-O1/Operations Manual)	Sat/Unsat
RE	CORD START TIME		
2.	Obtain a copy of the reference procedure and review/utilize the correct section of the procedure.	N1-OP-32 obtained.	Sat/Unsat
3.	Adjust GOVERNOR switch UNTIL synchroscope is rotating slowly in the FAST direction.	Governor control switch adjusted CCW (RAISE) and/or CW (LOWER) to attain slow rotation of the synchroscope in the FAST direction.	Sat/Unsat

	ormance Steps	Standard	Grade
4.	When INCOMING and RUNNING voltages are matched, AND synchroscope is indicating 3 to 5 degrees lead time, close	Verifies INCOMING and RUNNING voltages are matched.	Sat/Unsa
	R915 (R925).	When synchroscope indicates 3 to 5 degrees lead time, places control switch for R915 (R925) in the CLOSE position. Red light above the switch illuminates and the green light above the switch extinguishes.	Pass/Fai
5.	Immediately load until all Turbine Bypass Valves close.	Places governor control switch in the RAISE position until all turbine bypass valves are closed (as observed on panel A1, all Turbine BV indicating lights "green").	Pass/Fai
<u>Boot</u>	<u>h Operator</u> : When all bypass valves are closed, insert annunciator CRYWOLF for A7-4-3	Annunciator A7-4-3 GENERATOR LOCKOUT 86G2 annunciates.	
6.	Reports and acknowledges annunciator A7-4-3, "GENERATOR LOCKOUT 86G2"	Proper communications used.	Sat/Unsa
that t	When A7-4-3 alarms, inform examinee the Lockout Relay 86G2 switch has sitioned to the "TRIP" position.		
7.	Executes alarm response procedure for A7-4-3	Confirm alarm on computer	Sat/Unsa Sat/Unsa
	Confirm alarm on computer Verify turbine trip	Determine turbine and generator is not tripped by observing the following:	Savonsa
	• Enter N1-SOP-4	• R915 closed	
		• Turbine stop valves open	
		 Combined reheat stop valves open Control valves open 	
		 Combined reheat stop valves open Control valves open Bypass valves closed 	
	If plant computer display is checked by examinee then provide cue:	Control valves open	
Cue:		Control valves open	
Cue: 8.	examinee then provide cue: W032, "GEN LOCKOUT TRIP RELAY	Control valves open	Sat/Unsa

Perf	formance Steps	Standard	Grade
9.	Trip the Main Turbine. Booth Operator: Verify that malfunction EG01 activates when 86G1 repositions to	Depress the UNIT EMERGENCY TRIP pushbutton on Panel A1 or E. On Panel A1 observe:	Pass/Fail
	TRIP. This will cause a generator fault to be indicated. When turbine has tripped and EG01 is active, delete annunciator CRYWOLF for A7-27.)	 TSV, CV, CRSV close (GREEN) BV open (RED) as required to control pressure Annunciators A1-3-5, A1-4-5 and A1-4-6 alarm 	Sat/Unsat
		On panel A7 observe:	Sat/Unsat
		 86G1 tripped R915 breaker tripped (GREEN light) Annunciators A7-4-2, A7-4-3, A7-3-3 and A7-3-6 alarm 	
8	. Obtain a copy of the reference procedure and review/utilize the correct section of the procedure.	N1-SOP-4 obtained. SOP-4 flow chart referenced.	Sat/Unsat
11.	Verify Main Turbine tripped.	Visually observe the following:	Sat/Unsat
		 Turbine Stop Valves closed (Green light on) Turbine Control Valves closed (Green light on) Combined Reheat Valves closed (Green light on) Turbine Bypass Valves open to control reactor pressure (Red lights on for several valves) 	
12.	Verify Electrical Distribution status.	 Visually observe: 345Kv Breakers R915, R925 TRIPPED (Green light on) MOD 18 OPEN (Green light on) PB 11, PB12 supplied from Reserve Power (R123 and R112 CLOSED (Red lights on) 	Sat /Unsa
13.	Restore and maintain RPV level between 53 and 95 in. using one or more of the following:	RPV water level is stable at the pre-trip value (reactor did not scram due to the turbine trip scram bypassed below 45%)	

Performance Steps	Standard	Grade
 Maintain RPV pressure below 1080 psig using one or more of the following: Main Turbine Bypass valves Emergency Condensers ERVs 	Observes Reactor pressure is stable and is being maintained with the bypass valves.	Sat /Uns
 RWCU Main Steam Line drains 15. If ATS Gross Failure lights ON: determine cause of ATS lights notify SSS with SSS permission, reset ATS Gross 	Observes Red ATS Gross Failure lights (2) are NOT lit on Panel F	Sat /Uns
Failure lights16. Perform the following:Verify ON, Aux. Oil pumps	Observe Aux. Oil Pumps running (Red lights on)	Sat /Uns
 Reset Generator 86 relays Recognize that A7-3-3 prohibits reset of the 86G1/86G2 relays 	Does NOT attempt to reset 86 relays due to fault	Pass / F
• Restart Stator Water Cooling	Stator cooling cannot be restarted due to tripped 86 relays	Sat/Unsa
• Start bearing lift pumps	Bearing lift pump switches rotated clockwise to start the pumps. Red lights illuminate, green lights extinguish	Pass/Fai
7. Shutdown turbine per N1-OP-31.		Sat /Uns
Cue: Inform candidate that another operator will be tasked with turbine shutdown.		
	Proper communications used	Sat/Unsa

RECORD STOP TIME

- 1. A plant startup is in progress.
 - 2. Reactor power is approximately 20%.
 - 3. N1-OP-43A Step E.5.7 is in progress to synchronize and load the turbine and generator.
 - 4. The Main Generator is ready to be synchronized to the grid.
 - 5. N1-OP-32 is completed through Step E.3.4.
 - 6. Instructor to ask operator for any questions.

Initiating Cues:

"(Operator's name), complete synchronizing the Main Generator to the grid by starting at Step E.3.5 of N1-OP-32, load the generator until all turbine bypass valves are closed."

NINE MILE POINT NUCLEAR STATION

OPERATOR JOB PERFORMANCE MEASURE

Title: Perform Initiation of ECs from Remote Shutdown Panel 11 Revision: 1

Task Number: 2000140401

Approvals:

/ 8/22/02 Date

General Supervisor Operations Training (Designee)

Evaluation Location: X

EXAM SECURITY! NA General Supervisor Operations (Designee)

Simulator

Date

	NA	ENAM	SECULITY	1	
Confi	guration	Control	·	Date	

Performer:	(RO/SRO/AO)

Trainer/Evaluator:	
rainer/Evaluator:	

Plant

Evaluation Method:	Perform	X	Simulate

Expected Completion Time: 10 Minutes Time Critical Task: No Alternate Path Task: No

Start Time:	Stop Time:	Completion Time:
otart Time.	biop mine.	completion time.

- JPM Overall Rating: Fail 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:

Evaluators Signature:	Date:
U I	

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

Turbine Building

Simulator Set-up (if required):

None

Directions to the Instructor/Evaluator:

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

Directions to Operators:

Read Before Every JPM Performance:

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

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

Read Before Each Evaluated JPM Performance:

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

Read Before Each Training JPM Performance:

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

Notes to Instructor / Evaluator:

- 1. Critical steps are identified in grading areas **Pass/Fail**. All steps are sequenced critical unless denoted by a "•".
- 2. During Evaluated JPM:
 - Self verification shall be demonstrated.
- 3. During Training JPM:
 - Self verification shall be demonstrated.
 - Peer verification shall be demonstrated.

References:

1. N1-SOP-9.1, Control Room Evacuation

Tools and Equipment:

1. VA-1 Key

Task Standard:

Emergency Cooling Loop 11 in service.

Initial Conditions:

- 1. You are the Control Room E.
- 2. Control Room evacuation has occurred due to a fire.
- 3. The reactor has been scrammed and all control rods have been verified full in.
- 4. Time did not permit initiating ECs from the Control Room.
- 5. Reactor Pressure is 900#
- 6. Cooldown and depressurization of the Reactor is required using the Emergency Condensers.
- 7. Instructor to ask operator for any questions.

Initiating Cues:

"(Operator's name), "Place Emergency Cooling Loop 11 in service and establish a cooldown rate below 100 °F/hr. from Remote Shutdown Panel 11."

Peri	formance Steps	Standard	Grade
1.	Provide repeat back of initiating cue. Evaluator Acknowledge repeat back providing correction if necessary.	Proper communications used for repeat back (GAP-OPS-O1/Operations Manual)	Sat/Unsat
RE	CORD START TIME		
2.	Obtain a copy of the reference procedure and review/utilize the correct section of the procedure.	N1-SOP-9.1 obtained. Control Room E actions referenced.	Sat/Unsat
3.	Go to Remote Shutdown Panel #11.	Proceed to RSP 11.TB 250'.	Pass/Fail
	<u>NOTE</u> : Instructor to provide VA-1 Key. All other keys are simulated		
Cue	: "CONTROL RODS IN" white light is lit.		
Cue	: ASSS directs EC 11 placed in service.		
4.	Place the Channel 11 CONTROL TRANSFER keylock switch in EMER.	Rotate control switch clockwise to the emergency position.	Pass/Fail
5.	Verify Open EC Steam Supply Valves 39- 07R and 39-09R.	Verify Red lights energized and Green lights extinguished.	Sat/Unsat
Cue	: 39-07R and 39-09R are open.		

Performance Steps		Standard	Grade	
6.	Open 39-05, EMERGENCY CONDENSER COND. RTN IV 11.	Rotate control switch for valve 39-05 clockwise to the Open position and verified by Red light energized, Green light extinguished.	Pass/Fail	
Cue:	39-05 is Open, Rx pressure is now 780# and lowering.			
7.	Place EC 111-112 Level Control Transfer Switch to Local.	Rotates EC 111-112 Level Control Transfer Switch to Local.	Pass/Fail	
Cue:	EC 111/112 Level Control Transfer Switch in Local.			
8.	Verify Auto Control functions.	Observe "A" is illuminated in Status Display Panel.	Sat/Unsat	
Cue:	"A" Status Light lit, EC Lvl = 6.5'.			
9. Cue:	Inform ASSS that EC loop 11 is in service. Acknowledge report.	Proper communication used.	Sat/Unsat	

Terminating Cue: Emergency Cooling Loop 11 in service.

RECORD STOP TIME

- 1. You are the Control Room E.
- 2. Control Room evacuation has occurred due to a fire.
- 3. The reactor has been scrammed and all control rods have been verified full in.
- 4. Time did not permit initiating ECs from the Control Room.
- 5. Reactor Pressure is 900#
- 6. Cooldown and depressurization of the Reactor is required using the Emergency Condensers.
- 7. Instructor to ask operator for any questions.

Initiating Cues:

"(Operator's name), "Place Emergency Cooling Loop 11 in service and establish a cooldown rate below 100 °F/hr. from Remote Shutdown Panel 11."

NINE MILE POINT NUCLEAR STATION

OPERATOR JOB PERFORMANCE MEASURE

Title: Lineup for RPV Injecti	on using the Lic	quid Poisc	on Test '	Tank		Revision:	1	
Task Number: 2009180504								
Approvals:								
General Supervisor Operations Training (Designee		10/02		<u>NA</u> Gene Opera	ExAM ral Super ations (D	<u>SEcul 177</u> visor esignee)	/	Date
NA EXAM SECURITY Configuration Control	/ Date		-					
Performer:			(RO/SF	RO/AC))			
Trainer/Evaluator:			-					
Evaluation Method:	Perform		X	Simu	ılate			
Evaluation Location: X	_ Plant			Simu	llator			
Expected Completion Time: 12	2 Minutes	Time Ci	ritical T	ask:	NO	Alternate Pa	th Task	k: NO
Start Time:	Stop Time:			Comp	oletion Ti	me:		
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:

Evaluators Signature:_____

Date:

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

Reactor Building (RB Elec. 298') LP System pumps

Simulator Set-up (if required):

None

Directions to the Instructor/Evaluator:

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

Directions to Operators:

Read Before Every JPM Performance:

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

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

Read Before Each Evaluated JPM Performance:

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

Read Before Each Training JPM Performance:

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

Notes to Instructor / Evaluator:

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

References:

- 1. NUREG 1123, 295031, EA1.08, 3.8/3.9
- 2. NMP Unit One Task Analysis 2000310501, K/A 4.0 (RO)
- 3. N1-EOP-1, Rev. 5
- 4. NMP Unit One Task Analysis, 2009030503, K/A 4.57 (SRO)

NM Log 1-02-055 JPM #9 - 2 - September 2002 O1-OPS-PJE-200-1-21 5. NMP Unit One Task Analysis, 2009180504, 0.00 (NAO)

Tools and Equipment:

None Required

Task Standard:

The Liquid Poison System is lined up for RPV injection utilizing the test tank.

Initial Conditions:

- 1. EOP-2 has been entered.
- 2. Instructor to ask operator for any questions.

Initiating Cues:

"(Operator's name), lineup the Liquid Poison System for RPV injection from the Test Tank in accordance with N1-EOP-1, Attachment 12."

Perf	ormance Steps	Standard	Grade
1.	Provide repeat back of initiating cue. Evaluator Acknowledge repeat back providing correction if necessary.	Proper communications used for repeat back (GAP-OPS-O1/Operations Manual)	Sat/Unsat
RE	CORD START TIME		
•2.	Obtain a copy of the reference procedure and review/utilize the correct section of the procedure.	N1-EOP-1, Attachment 12 obtained.	Sat/Unsat
3.	Unlock and close 41-05. BV-Liquid Poison Tank Outlet.	41-05 unlocked and shut (fully clockwise). Located in RB Elec 298'.	Pass/Fail
Cue	41-05 is shut.		
4.	Open 41-03, BV Demin Water to LP Test Tank and fill test tank with Demin Water.	The test tank is approximately full and 41-03 is shut (full clockwise).	Pass/Fail
Cue:	Test Tank is full.		
5.	 Unlock and open the following valves: 41-06, BV-LP, Pump 11, Suction from Test Tank 41-18, BV-LP, Pump 12, Suction from Test Tank 	41-06 and 41-18 unlocked and opened (fully counterclockwise).	Pass/Fail
Cue:	41-06 and 41-18 open.		

	Standard	Grade
Control Room informed that LPS is lined up for RPV injection using test tank.	Control Room notified.	Sat/Unsat
Role play for communication, notify Operator that LP pump 12 has been started.		
Throttle 41-03, BV Demin Water to LP Test Tank to maintain tank approximately ½ full.	Test tank level maintained at approximately ½ full by throttling 41-03.	Pass/Fail
1 	up for RPV injection using test tank. Role play for communication, notify Operator that LP pump 12 has been started. Throttle 41-03, BV Demin Water to LP Test Tank to maintain tank approximately	 Ip for RPV injection using test tank. Role play for communication, notify Operator that LP pump 12 has been started. Throttle 41-03, BV Demin Water to LP Test tank level maintained at approximately ½ full by throttling 41-03.

Terminating Cue: Liquid poison system is lined up for injection to the RPV utilizing the test tank.

RECORD STOP TIME _____

- 3. EOP-2 has been entered.
- 4. Instructor to ask operator for any questions.

Initiating Cues:

"(Operator's name), lineup the Liquid Poison System for RPV injection from the Test Tank in accordance with N1-EOP-1, Attachment 12."

NINE MILE POINT NUCLEAR STATION

OPERATOR JOB PERFORMANCE MEASURE

Title: Diesel Fire Pump Start with No Control Power

Revision: 1

Task Number: 2009050501

Approvals:

/ 8/37/02 Date **General Supervisor**

Operations Training (Designee)

NA EXAM SELLENTY General Supervisor Date Operations (Designee)

NA EXAM SEC Configuration Control	MLIT / Date			
C				
Performer:		(RO/SRO/AG	C)	
Trainer/Evaluator:				
Evaluation Method:	Perform	X Sim	ulate	
Evaluation Location: X	Plant	Sim	ulator	
Expected Completion Time:	15 Minutes	Time Critical Task:	NO	Alternate Path Task: NO
Start Time:	Stop Time:	Com	pletion T	ime:
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)

Turbine Building

Simulator Set-up (if required):

N/A

Directions to the Instructor/Evaluator:

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

Directions to Operators:

Read Before Every JPM Performance:

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

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

Read Before Each Evaluated JPM Performance:

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

Read Before Each Training JPM Performance:

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

Notes to Instructor / Evaluator:

- Critical steps are identified in grading areas pass/Fail. All steps are sequenced critical unless denoted by a
 "•".
- 2. During Evaluated JPM:
 - Self verification shall be demonstrated.
- 3. During Training JPM:
 - Self verification shall be demonstrated.
 - Peer verification shall be demonstrated.

References:

1. N1-OP-21A, H.4.4

Tools and Equipment:

1. None

Task Standard:

Diesel Fire Pump running

Initial Conditions:

- 1. A LOCA is in progress.
- 2. Alternate systems are being lined up to augment RPV level control
- 3. DC control power is unavailable to the diesel fire pumps
- 4. Instructor to ask operator for any questions.

Initiating Cues:

"(Operator's name), Start the Diesel Fire pump per N1-OP-21A section H.4.4."

Perf	ormance Steps	Standard	Grade
1.	Provide repeat back of initiating cue. Evaluator Acknowledge repeat back providing correction if necessary.	Proper communications used for repeat back (GAP-OPS-O1/Operations Manual)	Sat/Unsat
REC	CORD START TIME		
2.	Obtain a copy of the reference procedure and review/utilize the correct section of the procedure.	N1-OP-21A obtained. Precautions & limitations reviewed & section H.4.4 referenced.	Sat/Unsat
3.	Request a qualified person be stationed at the Diesel Fire Pump to monitor engine condition	Individual requested	Sat/Unsat
Cue:	Another operator is standing by at the pump		
4.	Place Diesel Fire Pump control switch to Off.	Rotate switch CW to Off position.	Pass/Fail
Cue:	control switch is in Off position		
5.	Manually open 100-1211, Solenoid Operated Inlet Valve, to the Woodward Governor	100-1211 opened	Pass/Fail
Cue:	Valve open		

Perfo	ormance Steps	Standard	Grade
6.	Manually close 100-1212, Outlet Blocking Valve, from Woodward Governor	100-1212 closed	Pass/Fail
Cue:	Valve closed		
7.	Manually open 100-1213, Pump Lubrication Solenoid Valve.	100-1213 opened	Pass/Fail
Cue:	Valve open		
8.	Open 100.4-04 (IA-222) OR 100.4-03 (IA- 223), Starting Air Bypass valves to provide starting air supply	Selected valve 100.4-04 (IA-222) OR 100.4- 03 (IA-223) opened	Pass/Fail
Cue:	Valve Opened engine starts and continues to run		
9.	Close 100.4-04 (IA-222) OR 100.4-03 (IA-223), Starting Air Bypass valves to provide starting air supply	Selected valve 100.4-04 (IA-222) OR 100.4- 03 (IA-223) opened	Pass/Fail
Cue:	Valve closed.		
10.	Report to control room that Diesel fire Pump is running	Control Room notified	Sat/Unsat
Cue:	Acknowledge report		

Terminating Cue: Diesel fire Pump Running

RECORD STOP TIME _____

- 1. A LOCA is in progress.
- 2. Alternate systems are being lined up to augment RPV level control
- 3. DC control power is unavailable to the diesel fire pumps
- 4. Instructor to ask operator for any questions.

Initiating Cues:

"(Operator's name), Start the Diesel Fire pump per N1-OP-21A section H.4.4."