

Facility: Cooper Nuclear Station		Week of Examination: 12/4/00
Examination Level: RO		Operating Test Number: _____
Administrative Topic/Subject Description		Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions
A.1 Conduct of Operations	Regular Reactor Plant Review	JPM: Generate and review the Official Case following a power increase to 100%. (Will be used in system JPM B1-d (APRM gain adjustment).
	Plant Parameter Verification	JPM: Perform Jet Pump and Recirc Pump Flow Check
A.2 Equipment Control	Tagging and Clearances	JPM: Review the tagout for the Sparger Pump 1D K/A: 294001K102 IMPORTANCE: 3.9/4.5
A.3 Radiation Control	Knowledge of Significant Radiation Hazards	Question: Concerning the rad levels in containment while performing In-Plant JPM B2-c (Venting Scram air header)
		Question: Concerning the emergency exposure and controls
A.4 Emergency Plan		Question: Concerning general knowledge of the flowcharts K/A: 2.4.14 IMPORTANCE: 3.0 Accountability during Emergencies; Where to Report (RO) K/A: G2.4.29 IMPORTANCE: 2.6

Examiner: _____ **Chief Examiner:** _____

ADMINISTRATIVE JPM FOR OPERATIONS

Task Title: PERFORM JET PUMP OPERABILITY CHECK

Candidate: _____ Examiner: _____

Pass: _____ Fail: _____ Examiner Signature: _____ Date: _____

Additional Program Information:

****Performed NOT Faulted****

1. Appropriate Performance Locations: CR/SIM
2. Appropriate Trainee Level: RO/SRO
3. Evaluation Method: _____ Simulate _____ Perform
4. Performance Time: 18 minutes
5. Importance Rating: 3.25
6. NRC K/A 202001 K1.06 3.6/3.6

Directions to Examiner:

1. This JPM evaluates the trainee's ability to perform the daily Jet Pump and Recirc Pump Flow Check of the Daily Tech Specs Surveillance Log.
2. If this JPM is performed on the Simulator, only cues preceded by "#" should be given.
3. Observe the trainee during performance of the JPM for proper use of self-checking methods.
4. All blanks must be filled out with either initials or an "NP" for "not performed"; an explanation may also be written in the space if desired by the examiner.
5. Brief the trainee, place the simulator in run, and tell the trainee to begin.

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General Conditions:

1. The plant is operating at rated power with DEH in Mode 4.
2. Both Reactor Recirculation pumps are operating in individual manual control with pump flows balanced.

General References:

1. Procedure 6.LOG.601

General Tools and Equipment:

1. Calculator.
2. Jet pump operability curves.

ADMINISTRATIVE JPM FOR OPERATIONS

Task Title: PERFORM JET PUMP OPERABILITY CHECK

Special Conditions, References, Tools, Equipment:

1. Simulator Setup: See Attachment 1.
2. Critical checks denoted by "*".
3. Simulator cues denoted by "#".

Task Standards:

1. Accurately locate, identify, operate and/or manipulate all component controls required to be utilized to perform the daily Jet Pump and Recirc Pump Flow Check.
2. Accurately locate and identify all instrumentation required to be monitored to perform the daily Jet Pump and Recirc Pump Flow Check.
3. Correctly interpret instrument and system responses and their interrelationships when performing the daily Jet Pump and Recirc Pump Flow Check.

Initiating Cue(s):

The Control Room Supervisor directs you to perform the daily Jet Pump and Recirc Pump Flow Check as part of the routine shift activities. Notify the CRS when the task is complete.

NOTE: Place the Simulator in RUN and tell the trainee to begin..

ADMINISTRATIVE JPM FOR OPERATIONS

Task Title: PERFORM JET PUMP OPERABILITY CHECK

Performance Checklist	Standards	Initials
1. Record indicated core flow	Record Core flow from Recorder NBI-DPR/FR-95. CUE: Core Flow = 71.5.	_____*
2. Record RR pump flow	Record RR pump flow from RR-FR-163 for Pumps A & B. CUE: Pump A = 46.5; Pump B =46.	_____*
3. Record RRMG Set speed	Record RRMG Set speed from the following: a. RRFC-SIC-16A for RRMG A b. RRFC-SIC-16B for RRMG B CUE: RRMG A = 98; RRMG B = 97.	_____*
4. Record Jet Pump Flow	Record Jet Pump Flow from the following: a. NBI-FI-92A for LOOP A b. NBI-FI-92B for LOOP B CUE: LOOP A = 36; LOOP B = 35	_____*
5. Record Jet Pump Differential Pressure	Record differential pressures from individual jet pump instruments NBI-FI-78A through NBI-FI-78Z on Panel 9-38 in control room. CUE: 1 = 44 8 = 43 15 = 49 2 = 44 9 = 44 16 = 48 3 = 43 10 = 46 17 = 42 4 = 41 11 = 43 18 = 43 5 = 48 12 = 44 19 = 45 6 = 47 13 = 42 20 = 44 7 = 43 14 = 43	_____*
6. Record B and A Average	Add JP #1 through 10 and divide by 10 for LOOP B, then add JP #11 through 20 and divide by 10 for LOOP A. CUE: Average 44.3 for LOOP B and 44.3 for LOOP A.	_____*

Note: Curves are contained in the binder labeled "Cooper Nuclear Station Jet Pump Operability Graphs and Instability Noise Level Data" in the Control Room.

ADMINISTRATIVE JPM FOR OPERATIONS

Task Title: PERFORM JET PUMP OPERABILITY CHECK

Performance Checklist	Standards	Initials
7. Verify RR pump flow and RRMG set speed within limits.	Determine that the values recorded in Items B and C are within the limits of the curve for Check 1.	_____*
8. Verify JP flow and RRMG set speed within limits.	Determine that the values recorded in Items C and D are within the limits of the curve for Check 2.	_____*
9. Jet Pump Δp differs by $\leq 20\%$ from established patterns.	Determine that Jet Pump Δp differs by $\leq 20\%$ from established patterns. (Check 3).	_____*
10. Verify check 1 and 2 SAT or check 3 SAT.	Verify check 1 and 2 SAT or check 3 SAT.	_____*
11. Inform the CRS that the task is complete.	Inform Control Room Supervisor that the daily Jet Pump and Recirc Pump Flow Check is Complete. #CUE: The CRS Acknowledges the report. This JPM is complete.	_____

ADMINISTRATIVE JPM FOR OPERATIONS

Task Title: PERFORM JET PUMP OPERABILITY CHECK

ATTACHMENT 1

SIMULATOR SET-UP

A. Materials Required

None

B. Initialize the Simulator in IC-18.

Batch File Name - none.

C. Change the simulator conditions as follows:

1. Triggers

None

2. Malfunctions

None

3. Remotes

None

4. Overrides

◆ ZAONBIF192B to 31

5. Panel Setup

None

D. Place the Simulator in RUN to allow conditions to stabilize.

Note: If this JPM is to be performed more than once, snap the simulator into IC-0 after the panel setup is complete.

ADMINISTRATIVE JPM FOR OPERATIONS

Task Title: PERFORM JET PUMP OPERABILITY CHECK

ATTACHMENT 2

Directions to Candidate:

When I tell you to begin, you are to perform the daily Jet Pump and Recirc Pump Flow Check. Before you start, I will state the general plant conditions, the initiating cues and answer any questions you may have.

When simulating, physically point to any meters, gauges, recorders and controls you would be using. State the position of controls as you would have manipulated them to perform the daily Jet Pump and Recirc Pump Flow Check. During performance, state the actions you are taking, e.g.: repositioning controls and observing instrumentation.

General Conditions:

1. The plant is operating at rated power with DEH in Mode 4.
2. Both Reactor Recirculation pumps are operating in individual manual control with pump flows balanced.

Initiating Cues:

The Control Room Supervisor directs you to perform the daily Jet Pump and Recirc Pump Flow Check as part of the routine shift activities. Notify the CRS when the task is complete.

JOB PERFORMANCE MEASURE FOR OPERATIONS

Task Title: PERFORM JET PUMP OPERABILITY CHECK

ATTACHMENT 3

This Page May Be Given To The Candidate

Directions to Candidate:

When I tell you to begin, you are to perform the daily Jet Pump and Recirc Pump Flow Check. Before you start, I will state the general plant conditions, the initiating cues and answer any questions you may have.

When simulating, physically point to any meters, gauges, recorders and controls you would be using. State the position of controls as you would have manipulated them to perform the daily Jet Pump and Recirc Pump Flow Check. During performance, state the actions you are taking, e.g.: repositioning controls and observing instrumentation.

General Conditions:

1. The plant is operating at rated power with DEH in Mode 4.
2. Both Reactor Recirculation pumps are operating in individual manual control with pump flows balanced.

Initiating Cues:

The Control Room Supervisor directs you to perform the daily Jet Pump and Recirc Pump Flow Check as part of the routine shift activities. Notify the CRS when the task is complete.

ADMINISTRATIVE JPM FOR OPERATIONS

Task Title: GENERATE AND REVIEW THE OFFICIAL CASE FOLLOWING POWER INCREASE

Candidate: _____ Examiner: _____

Pass: _____ Fail: _____ Examiner Signature: _____ Date: _____

Additional Program Information:

****Ensure that two of the three AGAFs are out of Spec. (APRM B, and APRM F)****

1. Appropriate Performance Locations: CR/SIM
2. Appropriate Trainee level: RO/SRO
3. Evaluation Method: __ Simulate __ Perform
4. Performance Time: 15 minutes
5. Importance Rating:
6. NRC K/A:

Directions to Examiner:

1. This JPM evaluates the trainee's ability to generate and review an Official Case (AGAF)
2. If this JPM is performed on the Simulator, only the cues preceded by "#" should be given.
3. Observe the trainee during performance of the JPM for proper use of self-checking methods.
4. All blanks must be filled out with either initials or an "NP" for "not performed"; an explanation may also be written in the space if desired by the examiner.
5. Brief the trainee, place the simulator in run, and tell the trainee to begin.

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General Conditions:

1. Reactor power just increased from 90% to 100%.

General References:

General Tools and Equipment:

1. None

Special Conditions, References, Tools, Equipment:

1. Simulator Setup: See Attachment 1.
2. Critical checks denoted by "*".
3. Simulator cues denoted by "#".

Task Standards:

1. Accurately locate, identify, operate and/or manipulate all component controls required to be utilized to generate and review an Official Case.
2. Accurately locate and identify all instrumentation required to be monitored to generate and review an Official Case.

ADMINISTRATIVE JPM FOR OPERATIONS

Task Title: GENERATE AND REVIEW THE OFFICIAL CASE FOLLOWING POWER INCREASE

3. Correctly interpret instrument and system responses and their interrelationships when generating and reviewing an Official Case.

Initiating Cue(s):

The Control Room Supervisor has directed you to generate an Official Case (OD-3) following a 10% power increase to the new reactor power of 100%. Report on any discrepancies.

ADMINISTRATIVE JPM FOR OPERATIONS

Task Title: GENERATE AND REVIEW THE OFFICIAL CASE FOLLOWING POWER INCREASE

Performance Checklist	Standards	Initials
1. Locate CR Computer and Generate the Official Case	<input type="checkbox"/> Locate an appropriate control room computer and <input type="checkbox"/> Generate Official Case by pressing the F3 button	_____*
2. Review the Official Case	<input type="checkbox"/> Review the Official Case and determine that two of the three AGAFs are not within $\pm 2\%$ of the reactor power of 100%	_____*

Comments:

ADMINISTRATIVE JPM FOR OPERATIONS

Task Title: GENERATE AND REVIEW THE OFFICIAL CASE FOLLOWING POWER INCREASE

ATTACHMENT 1

SIMULATOR SET-UP

A. Materials Required

None

B. Initialize the Simulator in IC_____

Ensure that two of the three AGAFs are out of Spec. (APRM B, and APRM F)

C. Change the simulator conditions as follows:

1. Triggers

None

2. Malfunctions

None

3. Remotes

None

4. Overrides

None

5. Panel Setup

Note: If this JPM is to be performed more than once, snap the simulator into IC-0 after the panel setup is complete.

ADMINISTRATIVE JPM FOR OPERATIONS

Task Title: GENERATE AND REVIEW THE OFFICIAL CASE FOLLOWING POWER INCREASE

ATTACHMENT 2

Directions to Candidate:

When I tell you to begin, you are to generate and review an Official Case. Before you start, I will state the general plant conditions, the Initiating Cues and answer any questions you may have.

When simulating, physically point to any meters, gauges, recorders and controls you would be using. State the position of controls as you would have manipulated them to generate and review an Official Case.. During performance, state the actions you are taking, e.g.: repositioning controls and observing instrumentation.

General Conditions:

1. Reactor power just increased from 90% to 100%.

Initiating Cues:

The Control Room Supervisor has directed you to generate an Official Case (OD-3) following a 10% power increase to the new reactor power of 100%. Report on any discrepancies.

ADMINISTRATIVE JPM FOR OPERATIONS

Task Title: GENERATE AND REVIEW THE OFFICIAL CASE FOLLOWING POWER INCREASE

ATTACHMENT 3

This Page May Be Given To The Candidate

Directions to Candidate:

When I tell you to begin, you are to generate and review an Official Case. Before you start, I will state the general plant conditions, the Initiating Cues and answer any questions you may have.

When simulating, physically point to any meters, gauges, recorders and controls you would be using. State the position of controls as you would have manipulated them to generate and review an Official Case. During performance, state the actions you are taking, e.g.: repositioning controls and observing instrumentation.

General Conditions:

1. Reactor power just increased from 90% to 100%.

Initiating Cues:

The Control Room Supervisor has directed you to generate an Official Case (OD-3) following a 10% power increase to the new reactor power of 100%. Report on any discrepancies.

ADMINISTRATIVE JPM FOR OPERATIONS

Task Title: REVIEW TAGOUT OF SPARGER PUMP 1D

Candidate: _____ Examiner: _____

Pass: _____ Fail: _____ Examiner Signature: _____ Date: _____

Additional Program Information:

1. Appropriate Performance Locations: CR/SIM
2. Appropriate Trainee Level: RO/SRO
3. Evaluation Method: _____ Simulate _____ Perform
4. Performance Time: 20 minutes
5. Importance Rating:
6. NRC K/A:

Directions to Examiner:

1. This JPM evaluates the trainee's ability to review tagout of sparger pump 1D.
2. If this JPM is performed on the Simulator, only cues preceded by "#" should be given.
3. Observe the trainee during performance of the JPM for proper use of self-checking methods.
4. All blanks must be filled out with either initials or an "NP" for "not performed"; an explanation may also be written in the space if desired by the examiner.
5. Brief the trainee, place the simulator in run, and tell the trainee to begin.

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General Conditions:

1. The plant is operating at 100% power

General References:

1. Administrative Procedure 0.9 Tagout

General Tools and Equipment:

1. Facility Drawings

Special Conditions, References, Tools, Equipment:

1. Simulator Setup: See Attachment 1.
2. Critical checks denoted by "*".
3. Simulator cues denoted by "#".

Task Standards:

ADMINISTRATIVE JPM FOR OPERATIONS

Task Title: REVIEW TAGOUT OF SPARGER PUMP 1D

1. Accurately locate, identify, and interpret facility drawings in order to properly review the tagout of the sparger pump 1D.
2. Demonstrate the ability to review and interpret information located on the system tagout for the sparger pump 1D.

Initiating Cue(s):

The Control Room Supervisor directs you to be the verifier for the tagout of the Sparger Pump 1D as per admin procedure 0.9 Tagout. Notify the CRS when the task is complete.

ADMINISTRATIVE JPM FOR OPERATIONS

Task Title: REVIEW TAGOUT OF SPARGER PUMP 1D

Performance Checklist	Standards	Initials
1. Obtain Correct Drawings <input type="checkbox"/>	Obtain the correct facility drawings for the Sparger Pump 1D	_____*
2. Locate Discrepancy <input type="checkbox"/>	Discover that "Screen Wash for pump D Outboard Seal Shutoff" is improperly labeled as CW-V-738 . Should be labeled as CW-V-756 .	_____*
3. Notify CRS <input type="checkbox"/>	Notify CRS of the discrepancy and comment as to the correct valve.	_____*

Comments:

ADMINISTRATIVE JPM FOR OPERATIONS

Task Title: REVIEW TAGOUT OF SPARGER PUMP 1D

ATTACHMENT 1

SIMULATOR SET-UP

A. Materials Required

None

B. Initialize the Simulator .

Batch File Name - none.

C. Change the simulator conditions as follows:

1. Triggers

None

2. Malfunctions

None

3. Remotes

None

4. Overrides

5. Panel Setup

None

D. Place the Simulator in RUN to allow conditions to stabilize.

Note: If this JPM is to be performed more than once, snap the simulator into IC-0 after the panel setup is complete.

ADMINISTRATIVE JPM FOR OPERATIONS

Task Title: REVIEW TAGOUT OF SPARGER PUMP 1D

ATTACHMENT 2

Directions to Candidate:

When I tell you to begin, you are to review the tagout for the Sparger Pump 1D. Before you start, I will state the general plant conditions, the initiating cues and answer any questions you may have.

General Conditions:

1. The plant is operating at 100% power

Initiating Cues:

The Control Room Supervisor directs you to be the verifier for the tagout of the Sparger Pump 1D as per admin procedure 0.9 Tagout (See Attachment #4). Notify the CRS when the task is complete.

JOB PERFORMANCE MEASURE FOR OPERATIONS

Task Title: REVIEW TAGOUT OF SPARGER PUMP 1D

ATTACHMENT 3

This Page May Be Given To The Candidate

Directions to Candidate:

When I tell you to begin, you are to review the tagout of the Sparger Pump 1D. Before you start, I will state the general plant conditions, the initiating cues and answer any questions you may have.

General Conditions:

1. The plant is operating at 100% power

Initiating Cues:

The Control Room Supervisor directs you to be the verifier for the tagout of the Sparger Pump 1D as per admin procedure 0.9 Tagout (See Attachment #4). Notify the CRS when the task is complete.

ATTACHMENT 4 CLEARANCE ORDER FORMS AND WORKSHEETS

SECTION 1 - CLEARANCE ORDER SECTION

STATION: Cooper

EQUIPMENT: CW-P-SCWP 1D (Sparger Pump 1D)

PURPOSE: Isolate and Drain pump due to a gross packing leak

REQUESTED BY: Shift Supervisor

REFERENCES:

REMARKS:

PREPARED BY: Extra Licensed Operator

VERIFIED BY:

CLEARANCE GRANTED

BY: _____ DATE: _____ TIME: _____

SECTION HOLDER: _____ DATE: _____ TIME: _____

<u>COMPONENT ID</u>	<u>DESCRIPTION</u>	<u>TAG POS</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>PLACED BY</u>	<u>VERIFIED BY</u>
CW-SW-SCWP1D (SC)	Screen Wash Pump 1D Control Switch (Start-Stop)	Pull-To-Lock	C&D Screen Wash Pump Area	Danger		
CW-SW-SCWP1D (SS)	Screen Wash Pump 1D Select Switch (Standby-Manual)	Manual	C&D Screen Wash Pump Area	Danger		
EE-CB-4160 (SCWP1D)	Sparger Pump D	Racked-Out	Non-Critical Switch	Danger		

ATTACHMENT 4 CLEARANCE ORDER FORMS AND WORKSHEETS

<u>COMPONENT ID</u>	<u>DESCRIPTION</u>	<u>TAG POS</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>PLACED BY</u>	<u>VERIFIED BY</u>
CW-V-237	Screen Wash Pump D Discharge	Closed	C&D Screen Wash Pump Area	Danger		
CW-V-753	Screen Wash Pump D Inboard Seal Shutoff	Closed	Above D Sparger Pump	Danger		
CW-V-738	Screen Wash Pump D Outboard Seal Shutoff	Closed	Above D Sparger Pump	Danger		
CW-V-236	Screen Wash Pump D Suction	Closed	C&D Screen Wash Pump Area	Danger		
CW-V-750	Screen Wash Pump D Drain	Open	C&D Screen Wash Pump Area	Danger		
CW-V-242	Screen Wash Pump D Vent	Open	C&D Screen Wash Pump Area	Danger		
CW-V-754	Screen Wash Pump D Inboard Seal Strainer Drain	Open	Above D Sparger Pump	Danger		
CW-V-757	Screen Wash Pump D Outboard Seal Strainer Drain	Open	Above D Sparger Pump	Danger		

ADMINISTRATIVE QUESTION FOR OPERATIONS

Task Title: DISPATCHING PERSONNEL FOR EOP ACTION

Candidate: _____ Examiner: _____

Pass: _____ Fail: _____ Examiner Signature: _____ Date: _____

Additional Program Information:

1. Appropriate Performance Locations: CR/SIM
2. Appropriate Trainee level: RO/SRO
3. Evaluation Method: __ Simulate __ Perform
4. Performance Time: 15 minutes
5. Importance Rating:
6. NRC K/A:

Directions to Examiner:

1. This JPM evaluates the trainee's ability to perform _____
2. The examiner is to obtain the "JPM Comment Form" (Attachment C of ODG 206) prior to administering the JPM.
3. If this JPM is performed on the Simulator, only the cues preceded by "#" should be given.
4. Observe the trainee during performance of the JPM for proper use of self-checking methods.
5. All blanks must be filled out with either initials or an "NP" for "not performed"; an explanation may also be written in the space if desired by the examiner.
6. Brief the trainee, place the simulator in run, and tell the trainee to begin.

=====

General Conditions:

1. A failure of RPS and ARI to insert the control rods has occurred.
2. The Control Room operator has placed all keylock RPS test trip switches to TRIP.
3. All CRD HCU scram valves remain closed.
4. TSC is not yet operational.
5. No ARMs are alarming.
6. The In-Containment Rad Monitors are reading 100 REM/HR.

General References:

1. Procedure 5.8.3 Alternate Rod Insertion Methods

General Tools and Equipment:

1. None

ADMINISTRATIVE QUESTION FOR OPERATIONS

Task Title: DISPATCHING PERSONNEL FOR EOP ACTION

Special Conditions, References, Tools, Equipment:

1. Simulator Setup: See Attachment 1.
2. Critical checks denoted by "*".
3. Simulator cues denoted by "#".

Task Standards:

1. Accurately locate, identify, the procedure and controls utilized during a dispatching personnel for EOP actions.

Initiating Cue(s):

Given the specific conditions stated above, and the CRS directs you to vent the Scram Air Header, what are the guidelines for dispatching personnel for EOP actions. Please write your response below.

ADMINISTRATIVE QUESTION FOR OPERATIONS

Task Title: DISPATCHING PERSONNEL FOR EOP ACTION

Performance Checklist	Standards	Initials
1.	<input type="checkbox"/> If no Station Area Radiation Monitor (Panel 9-11) alarms exist, dispatched personnel should follow standard CNS Radiological Protection practices and procedures.	_____*
2.	<input type="checkbox"/> If Station Area Radiation Monitors in travel path and work location of dispatched personnel are alarming, but on-scale, dispatched personnel shall carry a survey instrument capable of monitoring radiation dose rates in travel path and work areas. Dispatched personnel accompanied by a Radiological Protection Technician or Chemistry/Radiological Protection On-Site Availability Technician also satisfies this criteria.	_____*
3.	<input type="checkbox"/> If dispatched personnel must travel through or work in vicinity of an off-scale Station Area Radiation Monitor, they shall be accompanied by a Radiological Protection Technician or Chemistry/Radiological Protection On-Site Availability Technician.	_____*
4.	<input type="checkbox"/> If DRYWELL RAD MONITOR RMA-RM-40A or DRYWELL RAD MONITOR RMA-RM-40B (PNL 9-02) is reading $\geq 10^4$ rem/hour, entry into Secondary Containment is prohibited until TSC is operational and personnel can be dispatched per Procedure 5.7.15.	_____*

Comments:

ADMINISTRATIVE QUESTION FOR OPERATIONS

Task Title: DISPATCHING PERSONNEL FOR EOP ACTION

ATTACHMENT 1

SIMULATOR SET-UP

A. Materials Required

None

B. Initialize the Simulator in IC_____

Batch File Name - none.

C. Change the simulator conditions as follows:

1. Triggers

None

2. Malfunctions

None

3. Remotes

None

4. Overrides

None

5. Panel Setup

Note: If this JPM is to be performed more than once, snap the simulator into IC-0 after the panel setup is complete.

ADMINISTRATIVE QUESTION FOR OPERATIONS

Task Title: DISPATCHING PERSONNEL FOR EOP ACTION

ATTACHMENT 2

General Conditions:

1. A failure of RPS and ARI to insert the control rods has occurred.
2. The Control Room operator has placed all keylock RPS test trip switches to TRIP.
3. All CRD HCU scram valves remain closed.
4. TSC is not yet operational.
5. No ARMs are alarming.
6. The In-Containment Rad Monitors are reading 100 REM/HR.

Initiating Cues:

Given the specific conditions stated above, and the CRS directs you to vent the Scram Air Header, what are the guidelines for dispatching personnel for EOP actions. Please write your response below.

ADMINISTRATIVE QUESTION FOR OPERATIONS

Task Title: DISPATCHING PERSONNEL FOR EOP ACTION

ATTACHMENT 3

This Page May Be Given To The Candidate

OPEN REFERENCE

OPEN REFERENCE

OPEN REFERENCE

OPEN REFERENCE

General Conditions:

1. A failure of RPS and ARI to insert the control rods has occurred.
2. The Control Room operator has placed all keylock RPS test trip switches to TRIP.
3. All CRD HCU scram valves remain closed.
4. TSC is not yet operational.
5. No ARMs are alarming.
6. The In-Containment Rad Monitors are reading 100 REM/HR.

Initiating Cues:

Given the specific conditions stated above, and the CRS directs you to vent the Scram Air Header, what are the guidelines for dispatching personnel for EOP actions. Please write your response below.

ADMINISTRATIVE QUESTION FOR OPERATIONS

Task Title: RADIATION EXPOSURE AND CONTROLS

Candidate: _____ Examiner: _____

Pass: _____ Fail: _____ Examiner Signature: _____ Date: _____

Additional Program Information:

1. Appropriate Performance Locations: CR/SIM
2. Appropriate Trainee level: RO/SRO
3. Evaluation Method: Simulate Perform
4. Performance Time: 15 minutes
5. Importance Rating:
6. NRC K/A:

Directions to Examiner:

1. This JPM evaluates the trainee's ability to perform _____
2. The examiner is to obtain the "JPM Comment Form" (Attachment C of ODG 206) prior to administering the JPM.
3. If this JPM is performed on the Simulator, only the cues preceded by "#" should be given.
4. Observe the trainee during performance of the JPM for proper use of self-checking methods.
5. All blanks must be filled out with either initials or an "NP" for "not performed"; an explanation may also be written in the space if desired by the examiner.
6. Brief the trainee, place the simulator in run, and tell the trainee to begin.

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General Conditions:

The plant has just experienced a severe accident with an uncontrolled radiological release in progress. To mitigate this event and to terminate the radiological release an isolation valve located in the RCA in a very high radiation area needs to be manually secured. You are thirty years old, your current annual dose is 2 rem, and your accumulated life time exposure is 55 rem.

General References:

- 1.

Task Standards:

1. Accurately locate, identify, the procedure and controls utilized during a dispatching personnel for EOP actions.

Initiating Cue(s):

Given the specific conditions stated above, who can authorize you to receive an exposure in excess of the 10CFR20 exposure limits and what is the maximum emergency exposure limit allowed for preventing major damage to equipment and preventing release of radioactive materials? Please write your response below.

ADMINISTRATIVE QUESTION FOR OPERATIONS

Task Title: RADIATION EXPOSURE AND CONTROLS

Performance Checklist	Standards	Initials
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1.	Emergency Director can give authorization of exposure in excess of 10CFR20 exposure limits	
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2.	25 rem	
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Comments:

Reference: Procedure 5.7.12 Emergency Exposure Limits

ADMINISTRATIVE QUESTION FOR OPERATIONS

Task Title: RADIATION EXPOSURE AND CONTROLS

ATTACHMENT 1

CLOSED REFERENCE

CLOSED REFERENCE

CLOSED REFERENCE

General Conditions:

The plant has just experienced a severe accident with an uncontrolled radiological release to the environment is in progress. To mitigate this event and to terminate the radiological release an isolation valve located in the RCA in a very high radiation area needs to be manually secured. You are thirty years old, your current annual dose is 2 rem, and your accumulated life time exposure is 55 rem.

Initiating Cues:

Given the specific conditions stated above, who can authorize you to receive an exposure in excess of the 10CFR20 exposure limits and what is the maximum emergency exposure limit allowed for preventing major damage to equipment and preventing release of radioactive materials? Please write your response below.

ADMINISTRATIVE QUESTION FOR OPERATIONS

Task Title: RADIATION EXPOSURE AND CONTROLS

ATTACHMENT 2

This Page May Be Given To The Candidate

CLOSED REFERENCE

CLOSED REFERENCE

CLOSED REFERENCE

General Conditions:

The plant has just experienced a severe accident with an uncontrolled radiological release to the environment is in progress. To mitigate this event and to terminate the radiological release an isolation valve located in the RCA in a very high radiation area needs to be manually secured. You are thirty years old, your current annual dose is 2 rem, and your accumulated life time exposure is 55 rem.

Initiating Cues:

Given the specific conditions stated above, who can authorize you to receive an exposure in excess of the 10CFR20 exposure limits and what is the maximum emergency exposure limit allowed for preventing major damage to equipment and preventing release of radioactive materials? Please write your response below.

ADMINISTRATIVE QUESTION FOR OPERATIONS

Task Title: KNOWLEDGE OF GENERAL GUIDELINES FOR EOP FLOWCHART USAGE

Candidate: _____ Examiner: _____

Pass: _____ Fail: _____ Examiner Signature: _____ Date: _____

Additional Program Information:

1. Appropriate Performance Locations: CR/SIM
2. Appropriate Trainee level: RO/SRO
3. Evaluation Method: Simulate Perform
4. Performance Time: 15 minutes
5. Importance Rating:
6. NRC K/A: 2.4.14 3.0/3.9

General Conditions:

The plant is operating at 98% reactor power with several SRVs leaking. Average Torus Pool temperature increases to 95 °F and EOP-3A is entered.

Initiating Cues:

When is it permitted to exit the EOP flowcharts?

General References:

1. EOP 5.8

Task Standards:

1. To demonstrate knowledge concerning the EOP flowcharts.

ADMINISTRATIVE QUESTION FOR OPERATIONS

Task Title: KNOWLEDGE OF GENERAL GUIDELINES FOR EOP FLOWCHART USAGE

Performance Checklist	Standards	Initials
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2.	EOP flowcharts may be exited when it is determined that an emergency requiring guidance provided by EOP flowcharts no longer exists.	

Comments:

Reference: EOP 5.8

ADMINISTRATIVE QUESTION FOR OPERATIONS

Task Title: KNOWLEDGE OF GENERAL GUIDELINES FOR EOP FLOWCHART USAGE

ATTACHMENT 1

CLOSED REFERENCE

CLOSED REFERENCE

CLOSED REFERENCE

General Conditions:

The plant is operating at 98% reactor power with several SRVs leaking. Average Torus Pool temperature increases to 95 °F and EOP-3A is entered.

Initiating Cues:

When is it permitted to exit the EOP flowcharts?

ADMINISTRATIVE QUESTION FOR OPERATIONS

Task Title: KNOWLEDGE OF GENERAL GUIDELINES FOR EOP FLOWCHART USAGE

ATTACHMENT 2

This Page May Be Given To The Candidate

CLOSED REFERENCE

CLOSED REFERENCE

CLOSED REFERENCE

General Conditions:

The plant is operating at 98% reactor power with several SRVs leaking. Average Torus Pool temperature increases to 95 °F and EOP-3A is entered.

Initiating Cues:

When is it permitted to exit the EOP flowcharts?

ADMINISTRATIVE QUESTION FOR OPERATIONS

Task Title: PERSONNEL ASSEMBLY AND ACCOUNTABILITY

Candidate: _____ Examiner: _____

Pass: _____ Fail: _____ Examiner Signature: _____ Date: _____

Additional Program Information:

****Closed Question****

1. Appropriate Performance Locations: CR/SIM
2. Appropriate Trainee level: RO/SRO
3. Evaluation Method: __ Simulate __ Perform
4. Performance Time: 15 minutes
5. Importance Rating:
6. NRC K/A:

Directions to Examiner:

1. This JPM evaluates the trainee's knowledge as to where to report during a notification of unusual event or greater.

General Conditions:

1. Notification of Unusual Events has been declared. The Emergency Director requires personnel assembly and accountability.

General References:

1. Procedure 5.7.10 Personnel Assembly and Accountability (page 2)

General Tools and Equipment:

1. None

Special Conditions, References, Tools, Equipment:

1. Simulator Setup: See Attachment 1.
2. Critical checks denoted by "*".
3. Simulator cues denoted by "#".

Task Standards:

1. Accurately identify where visitors and on-duty personnel are to report during a Notification of Unusual Event when the Emergency Director directs personnel assembly and accountability..

ADMINISTRATIVE QUESTION FOR OPERATIONS

Task Title: PERSONNEL ASSEMBLY AND ACCOUNTABILITY

Initiating Cue(s):

You are an on-duty reactor operator who has been tasked by the CRS to escort/tour a potential new contractor (classified as a visitor) through the plant. You both are outside of containment when you hear the Emergency Director declare a Notification of Unusual Event and request personnel assembly and accountability. Where do you and your visitor report in this event?

ADMINISTRATIVE QUESTION FOR OPERATIONS

Task Title: PERSONNEL ASSEMBLY AND ACCOUNTABILITY

Performance Checklist	Standards	Initials
1.	<input type="checkbox"/> Personnel escorting visitors or tours shall take them immediately to the exit turnstile and direct them to report to the Training Building Classrooms "J", "H", or "T" for assembly	_____*
2.	<input type="checkbox"/> Escort shall then report to the Control Room	_____*

Comments:

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ADMINISTRATIVE QUESTION FOR OPERATIONS

Task Title: PERSONNEL ASSEMBLY AND ACCOUNTABILITY

ATTACHMENT 1

SIMULATOR SET-UP

A. Materials Required

None

B. Initialize the Simulator in IC_____

Batch File Name - none.

C. Change the simulator conditions as follows:

1. Triggers

None

2. Malfunctions

None

3. Remotes

None

4. Overrides

None

5. Panel Setup

Note: If this JPM is to be performed more than once, snap the simulator into IC-0 after the panel setup is complete.

ADMINISTRATIVE QUESTION FOR OPERATIONS

Task Title: PERSONNEL ASSEMBLY AND ACCOUNTABILITY

ATTACHMENT 2

General Conditions:

1. Notification of Unusual Events has been declared. The Emergency Director requires personnel assembly and accountability.

Initiating Cue(s):

You are an on-duty reactor operator who has been tasked by the CRS to escort/tour a potential new contractor (classified as a visitor) through the plant. You both are outside of containment when you hear the Emergency Director declare a Notification of Unusual Event and request personnel assembly and accountability. Where do you and you visitor report in this event? Please write your answer below

ADMINISTRATIVE QUESTION FOR OPERATIONS

Task Title: PERSONNEL ASSEMBLY AND ACCOUNTABILITY

ATTACHMENT 3

This Page May Be Given To The Candidate

General Conditions:

1. Notification of Unusual Events has been declared. The Emergency Director requires personnel assembly and accountability.

Initiating Cue(s):

You are an on-duty reactor operator who has been tasked by the CRS to escort/tour a potential new contractor (classified as a visitor) through the plant. You both are outside of containment when you hear the Emergency Director declare a Notification of Unusual Event and request personnel assembly and accountability. Where do you and you visitor report in this event? Please write you answer below.