

Facility: WNP-2 Date of examination: 10/23/00 Examination level: SRO		
Administrative Topic/Subject Description		Describe the method of evaluation: 1. ONE admin JPM, OR 2. TWO Administrative questions
A.1	Mode Changes	2.1.12 – Ability to apply Tech Specs for a system. JPM – Determination of Mode Change – Given a set of plant conditions with equipment out of service, determine if Mode change is allowed. Browns Ferry OE 11029
	Shift Staffing requirements	2.1.4 – Knowledge of Shift Staffing requirements. 1 st question – Given plant conditions and a list of personnel, can the oncoming shift relieve the outgoing shift and justifications for the decision. 2 nd question – Who is allowed to operate controls in the control room during power operations.
	2 questions	
A.2	Use of P+IDs	2.1.24 – Ability to obtain and interpret station electrical and mechanical drawings. JPM - Given a scenario with SM-7 powered from the Startup Transformer, using EWDs explain why LPCS-P-1 will not start by arm and depress WNP-2 PER 298-1094
A.3	Control of Radiation Release	2.3.11 – Ability to control Radiation Release. JPM – Determination of Shelter or Evacuation including the CNF form for a changing PAR – Conditions will be given for an emergency condition with a release underway. The decision to evacuate or shelter will have to be made.
A.4	Emergency Action Levels and Classifications.	2.4.40 – Knowledge of SRO responsibilities in emergency plan implementation. JPM – Turn over the Emergency Director duties to oncoming Emergency Director – This JPM will be performed in conjunction with one of the Dynamic Scenarios.
	JPM	

Facility: WNP-2	Task No: SRO-0225-P-PLA
Task Title: Determination of Mode Change	Job Performance Measure No: SA.1JPM Rev 1
K/A Reference: 2.4.40 2.3/4.0	
Examinee:	NRC Examiner:
Facility Evaluator:	Date:

Method of testing:

Perform – Simulator/Control Room

JPM SETUP INFORMATION

Initial Conditions:	<p>The plant is in Mode 4. A startup is underway following a short maintenance outage. The following conditions exist:</p> <ul style="list-style-type: none">• SRMs have normal indications• All IRM indications are normal on Range 1, except IRM-A which has an upscale trip and is bypassed• The ECP has been calculated and entered on the control rod sequence pull sheet in the control room.• RPS is reset.• The Barrier Impairment Log has no Mode change limiting conditions• The Surveillance in Progress Log shows no mode change limiting conditions• RCC-V-5 has just gone out of service in the open position due to a failed motor-operator• A search of the LCO/INOP/RFO log shows no limiting conditions for a mode change• All surveillances are complete and up to date• A panel walkdown has been completed• RHR is secured in the LPCI standby lineup with all valves positioned as required• RRC is in operation at 15 hz• Containment was not opened or ventilated
Task Standard:	<p>Evaluate plant conditions and evaluate all variances for applicability prior to placing the MODE Switch to RUN. The Change to MODE 2 is not allowed due to the failed RCC-V-5.</p>
Required Materials:	N/A
General References:	PPM 3.1.2 rev 51, pages 17-20, LCS 1.6.1.3 rev 20, TS 3.6.1.3
Initiating Cue:	<p>The plant is ready to enter MODE 2 from MODE 4. Complete the given PPM 3.1.2 from step 5.1.21 through 5.1.44 to evaluate plant conditions and determine if the change to MODE 2 is allowed. Notify the Shift Manager with your determination and justifications.</p>
Time Critical Task:	NO

Validation Time: 20 minutes

Simulator ICs: N/A

Malfunctions/Remote Triggers: N/A

Overrides: N/A

Special Setup Instructions: N/A

PERFORMANCE INFORMATION

START TIME:

Critical Step: YES *	
Performance Step: 1	<p>Complete PPM 3.1.2 steps 5.1.21 through 5.1.44. The following determinations should be made:</p> <ol style="list-style-type: none"> 1. IRM-A upscale does not prevent placing the MODE Switch in the RUN position. Only 3 per channel are required in MODE 2. 2. *RCC-V-5 is a containment isolation valve and cannot remain open with the motor operator inoperable. RCC-V-5 or the other isolation valve inline has to be closed. This Tech Spec does not allow the dependence on an action statement when changing MODES.
Standard:	Information is evaluated correctly and the fact that the MODE change is not allowed due to RCC-V-5 inoperable in the open position.
Comment: SAT / UNSAT	

THE EXAMINEE SHOULD ANNOUNCE THE TERMINATION POINT OF THE JPM AT THIS POINT.

JPM TERMINATION

TIME:

JPM START TIME: - _____

JPM COMPLETION TIME: _____

VERIFICATION OF COMPLETION

JPM Number: SA.1JPM rev 1

Examinee's Name:

Examiner's Name:

Date Performed:

Facility Evaluator:

Number of Attempts:

Time to Complete:

JPM INFORMATION CARD

HAND THE STUDENT INFORMATION CARD TO THE EXAMINEE

READ TO THE EXAMINEE:

I will explain the initial conditions, which steps to simulate or discuss, and provide initiation cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

Task Standard:	Evaluate plant conditions and evaluate all variances for applicability prior to placing the MODE Switch to RUN. The Change to MODE 2 is not allowed due to the failed RCC-V-5.
Required Materials:	N/A
Safety Equipment:	N/A
General References:	PPM 3.1.2 rev 51, pages 17-20, LCS 1.6.1.3 rev 20, TS 3.6.1.3
Time Critical Task:	NO
Initial Conditions:	The plant is in Mode 4. A startup is underway following a short maintenance outage. The following conditions exist:

- SRMs have normal indications
- All IRM indications are normal except IRM-A which has an upscale trip and is bypassed
- The ECP has been calculated and entered on the control rod sequence pull sheet in the control room.
- RPS is reset.
- The Barrier Impairment Log has no Mode change limiting conditions
- The Surveillance in Progress Log shows no mode change limiting conditions
- RCC-V-5 has just gone out of service in the open position due to a failed motor-operator
- A search of the LCO/INOP/RFO log shows no limiting conditions for a mode change
- All surveillances are complete and up to date
- RHR is secured in the LPCI standby lineup with all valves positioned as required
- RRC is in operation at 15 hz
- Containment was not opened or ventilated

INITIATING CUE

The plant is ready to enter MODE 2 from MODE 4. Complete the given PPM 3.1.2 from step 5.1.21 through 5.1.44 to evaluate plant conditions and determine if the change to MODE 2 is allowed. Notify the Shift Manager with your determination and justifications.

INFORMATION BELOW THIS LINE NOT SHARED WITH EXAMINEE

Task Number: SRO-0225-P-PLA
NUREG 1123 Reference: 2.4.40 2.3/4.0
Location: Simulator/Control Room
Prepared/Revised by: S Hutchison

Validation Time: 20 minutes
Time Critical: No
Performance Method: Perform
Revision Date: 7/31/00

ADMINISTRATIVE TOPICS SECTION A1

WNP-2

SRO

October 23, 200

Question No. SA.1-1	The plant is operating at rated power. Control Room staffing is as follows:		
	Shift Manager	Out of the control room, on a plant tour.	
	CRS	Control room	
	CRO1	Control room	
	CRO2	Control room	
	STA – Non licensed	Control room	
	At 0300, the CRS suddenly passes out and cannot be revived.		
	What action is required concerning control room staffing and when does the action have to be taken?		
	CLOSED REFERENCE		
	ANSWER:	The Shift Manager must be called to return to the control room immediately.	
Response:			
SAT / UNSAT			
2.1.4 2.3/3.4	6933	TS 5.1.2, 5.2.2.B	

ADMINISTRATIVE TOPICS SECTION A1

WNP-2

SRO

October 23, 200

Question No. SA.1-2	The plant is operating at 80% power for economic dispatch. The following conditions exist: The Shift Manager is out of the control room. An inactive licensed SRO is under instruction as the CRS. The CRS is in the restroom. BPA has called and asked that power be increased to 1100 MWe. The CRS under instruction has directed the CRO to increase power to 1100 MWe. Is the CRS under instruction allowed to direct this power increase? Justify your answer. CLOSED REFERENCE ANSWER: No. The CRS under instruction has an inactive SRO license and cannot direct manipulation of reactor controls without the direct supervision of and actively licensed SRO.		
Response:			
SAT / UNSAT			
2.1.1 3.7/3.8	6076	PPM 1.3.1 rev 46, page 25.	

ADMINISTRATIVE TOPICS SECTION A1

WNP-2

SRO

October 23, 200

Question No. SA.1-1	The plant is operating at rated power. Control Room staffing is as follows:	
	Shift Manager	Out of the control room, on a plant tour.
	CRS	Control room
	CRO1	Control room
	CRO2	Control room
	STA – Non licensed	Control room
	At 0300, the CRS suddenly passes out and cannot be revived.	
	What action is required concerning control room staffing and when does the action have to be taken?	
	CLOSED REFERENCE	

ADMINISTRATIVE TOPICS SECTION A1

WNP-2

SRO

October 23, 200

Question No. SA.1-2	<p>The plant is operating at 80% power for economic dispatch. The following conditions exist:</p> <p style="text-align: center;">The Shift Manager is out of the control room. An inactive licensed SRO is under instruction as the CRS. The CRS is in the restroom.</p> <p>BPA has called and asked that power be increased to 1100 MWe. The CRS under instruction has directed the CRO to increase power to 1100 MWe.</p> <p>Is the CRS under instruction allowed to direct this power increase? Justify your answer.</p> <p>CLOSED REFERENCE</p>
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STUDENT INFORMATION

Initial Conditions: The plant is in Mode 4. A startup is underway following a short maintenance outage. The following conditions exist:

- SRMs have normal indications
- All IRM indications are normal on Range 1, except IRM-A which has an upscale trip and is bypassed
- The ECP has been calculated and entered on the control rod sequence pull sheet in the control room.
- RPS is reset.
- The Barrier Impairment Log has no Mode change limiting conditions
- The Surveillance in Progress Log shows no mode change limiting conditions
- RCC-V-5 has just gone out of service in the open position due to a failed motor-operator
- A search of the LCO/INOP/RFO log shows no limiting conditions for a mode change
- All surveillances are complete and up to date
- A panel walkdown has been completed
- RHR is secured in the LPCI standby lineup with all valves positioned as required
- RRC is in operation at 15 hz
- Containment was not opened or ventilated

INITIATING CUE

The plant is ready to enter MODE 2 from MODE 4. Complete the given PPM 3.1.2 from step 5.1.21 through 5.1.44 to evaluate plant conditions and determine if the change to MODE 2 is allowed. Notify the Shift Manager with your determination and justifications.

Facility: WNP-2	Task No:
Task Title: Calculate Projected dose and make Protective action recommendations	Job Performance Measure No: SA.3JPRM rev 1
K/A Reference: 2.3.11 2.7/3.2	
Examinee:	NRC Examiner:
Facility Evaluator:	Date:

Method of testing:

Perform - Simulator

JPM SETUP INFORMATION

Initial Conditions: The plant was operating at 100% power when a transient occurred. The reactor scrammed 30 minutes ago. The following conditions exist:

- Wind Speed – 2 mph
- Wind Direction – from 300°
- A release is underway from the turbine building with TB HVAC flow rate of 360000 cfm
- The Turbine Building Intermediate Range Monitor indicates 7 pmu.
- The release is expected to last 3 hours.

Task Standard: Projected dose is calculated to correctly identify the minimum PARs for a General Emergency and the correct section is evacuated.

Required Materials: A computer terminal with QEDPS

General References: PPM 1.3.8 rev, 19 page 6 and 7

Initiating Cue: The plant was operating at 100% power when a transient occurred. The reactor scrammed 30 minutes ago. The following conditions exist:

- Wind Speed – 2 mph
- Wind Direction – from 300°
- A release is underway from the turbine building with TB HVAC flow rate of 360000 cfm
- The Turbine Building Intermediate Range Monitor indicates 7 pmu.
- The release is expected to last 3 hours.
- Stability class = E

You are directed to calculate a projected dose using QEDPS and complete the CNF Form section 5 with the correct PARs. Notify me when you have completed the CNF Form section 5.

Time Critical Task: NO

Validation Time: 15 minutes

Simulator ICs: N/A

Malfunctions/Remote Triggers: N/A

Overrides: N/A

Special Setup Instructions: N/A

PERFORMANCE INFORMATION

START TIME:

Critical Step: Yes	
Performance Step: 1	Turn on computer equipment as needed.
Standard:	Equipment is on and ready for software start.
Comment: SAT / UNSAT	

Critical Step: Yes	
Performance Step: 2	Start QEDPS by double clicking on QEDPS Icon.
Standard:	Double click on the icon.
Comment: SAT / UNSAT	

Critical Step: Yes	
Performance Step: 3	Select Turbine Building Intermediate Monitor.
Standard:	Turbine Building Intermediate Monitor selected.
Comment: SAT / UNSAT	

Critical Step: Yes	
Performance Step: 4	Enter 7 for the monitor reading.
Standard:	Enter 7 for the monitor reading.
Comment: SAT / UNSAT	

Critical Step: Yes	
Performance Step: 5	Enter 3 hours for the release duration.
Standard:	Enter 3 hours for the release duration.
Comment: SAT / UNSAT	

Critical Step: Yes	
Performance Step: 6	Enter 30 min for time since reactor shutdown.
Standard:	Enter 30 min for time since reactor shutdown.
Comment: SAT / UNSAT	

Critical Step: Yes	
Performance Step: 7	Enter meteorological data: Wind Speed – 2 mph Wind Direction – 300° Stability Class - E
Standard:	Enters correctly as above.
Comment: SAT / UNSAT	

Critical Step: No	
Performance Step: 8	Print data.
Standard:	Data printed.
Comment: SAT / UNSAT	

Critical Step: No	
Performance Step: 9	Click on MAP to display map of plume.
Standard:	Click on MAP
Comment: SAT / UNSAT	

Critical Step: No	
Performance Step: 10	Print Map.
Standard:	Map printed.
Comment: SAT / UNSAT	

Critical Step: Yes-	
Performance Step: 11	Compare data with 13.1.1 to classify the event.
Standard:	
Comment: SAT / UNSAT	

Critical Step: Yes	
Performance Step: 12 Complete the CNF form section 5.	
Standard:	CNF section 5 completed correctly per the attached CNF Form.
Comment: SAT / UNSAT	

THE EXAMINEE SHOULD ANNOUNCE THE TERMINATION POINT OF THE JPM AT THIS POINT.

JPM TERMINATION TIME: JPM START TIME: - _____ JPM COMPLETION TIME:

VERIFICATION OF COMPLETION

JPM Number: SA.3JPM rev 1

Examinee's Name:

Examiner's Name:

Date Performed:

Facility Evaluator:

Number of Attempts:

Time to Complete:

JPM INFORMATION CARD

HAND THE STUDENT INFORMATION CARD TO THE EXAMINEE

READ TO THE EXAMINEE:

I will explain the initial conditions, which steps to simulate or discuss, and provide initiation cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

Task Standard:	Projected dose is calculated to correctly identify the minimum PARs for a General Emergency and the correct section is evacuated.
Required Materials:	A computer terminal with QEDPS
Safety Equipment:	N/A
General References:	PPM 13.8.1 rev, 20 pages 5-7, PPM 13.1.1 rev 27 page 19
Time Critical Task:	No
Initial Conditions:	<p>The plant was operating at 100% power when a transient occurred. The reactor scrammed 30 minutes ago. The following conditions exist:</p> <ul style="list-style-type: none">• Wind Speed – 2 mph• Wind Direction – from 300°• A release is underway from the turbine building with TB HVAC flow rate of 360000 cfm• The Turbine Building Intermediate Range Monitor indicates 7 pmu.• The release is expected to last 3 hours.

INITIATING CUE

The plant was operating at 100% power when a transient occurred. The reactor scrammed 30 minutes ago. The following conditions exist:

- Wind Speed – 2 mph
- Wind Direction – from 300°
- A release is underway from the turbine building with TB HVAC flow rate of 360000 cfm
- The Turbine Building Intermediate Range Monitor indicates 7 pmu.
- The release is expected to last 3 hours.
- Stability class = E

You are directed to calculate a projected dose using QEDPS and complete the CNF Form section 5 with the correct PARs. Notify me when you have completed the CNF Form section 5.

INFORMATION BELOW THIS LINE NOT SHARED WITH EXAMINEE

Task Number:

NUREG 1123 Reference: 2.3.11 2.7/3.2

Location: Simulator

Prepared/Revised by: S Hutchison

Validation Time: 15 minutes

Time Critical: No

Performance Method: Perform

Revision Date: 7/25/00

STUDENT INFORMATION

Initial Conditions: The plant was operating at 100% power when a transient occurred. The reactor scrammed 30 minutes ago. The following conditions exist:

- Wind Speed – 2 mph
- Wind Direction – from 300°
- A release is underway from the turbine building with TB HVAC flow rate of 360000 cfm
- The Turbine Building Intermediate Range Monitor indicates 7 pmu.
- The release is expected to last 3 hours.

INITIATING CUE

The plant was operating at 100% power when a transient occurred. The reactor scrammed 30 minutes ago. The following conditions exist:

- Wind Speed – 2 mph
- Wind Direction – from 300°
- A release is underway from the turbine building with TB HVAC flow rate of 360000 cfm
- The Turbine Building Intermediate Range Monitor indicates 7 pmu.
- The release is expected to last 3 hours.
- Stability class = E

You are directed to calculate a projected dose using QEDPS and complete the CNF Form section 5 with the correct PARs. Notify me when you have completed the CNF Form section 5.

Facility: WNP-2	Task No:
Task Title: Complete the Emergency Director Turnover Sheet	Job Performance Measure No: Sa.4JPM Rev 2
K/A Reference: 2.4.40 2.3/4.0	
Examinee:	NRC Examiner:
Facility Evaluator:	Date:

Method of testing:

Perform - Simulator

JPM SETUP INFORMATION

Initial Conditions:	The plant simulator has been frozen following the scenario you have just completed.
Task Standard:	<p>The Emergency Director Turnover Sheet is completed and the values recorded are within 10% of the attached marked up copy. A score of 80% is required for passing the JPM.</p> <p>For Op Test 1 Scenario 2, there are 17 correct responses. 3 can be missed and pass the JPM.</p> <p>For Op Test 2 Scenario 1, there are 20 correct responses. 4 can be missed and pass the JPM.</p>
Required Materials:	Emergency Director Turnover Sheet
General References:	Emergency Director Turnover Sheet, PPM 13.1.1 rev 27, pages 14 and 21.
Initiating Cue:	<p>The plant simulator has been frozen following the scenario you have just completed. Complete the given Emergency Director Turnover Sheet.</p> <ul style="list-style-type: none"> • Include all out of service equipment and actions being taken for recovery. • There have been no CNF forms released yet. The oncoming ED will release the first one. • All forms and procedures are available for use in completing the Emergency Director Turnover sheet. <p>Notify me when you have completed the Emergency Director Turnover Sheet.</p>
Time Critical Task:	NO
Validation Time:	15 minutes
Simulator ICs:	N/A
Malfunctions/Remote	N/A
Triggers:	
Overrides:	N/A
Special Setup	
Instructions:	The simulator will be frozen following the completion of either OP Test 1 Scen #2 or OP Test 2 Scen #1. Ensure these scenarios have notes in the setup not to reset the simulator until this JPM is completed.

PERFORMANCE INFORMATION

START TIME:

Critical Step: Yes*	
Performance Step: 1	The Emergency Director Turnover Sheet will be completed with data from the frozen simulator following either OP Test 1 Scen. #2 or OP Test 2 Scen. #1.
CUE: Inform the examinee the time for the emergency declaration (space 1b on the ED Turnover Sheet) is the actual time he determines the classification.	
Standard:	The Emergency Director Turnover Sheet is completed and the values recorded are within 10% of the attached marked up copy. A score of 80% is required for passing the JPM. For Op Test 1 Scenario 2, there are 17 correct responses. 3 can be missed and pass the JPM. For Op Test 2 Scenario 1, there are 20 correct responses. 4 can be missed and pass the JPM.
Comment: SAT / UNSAT	

THE EXAMINEE SHOULD ANNOUNCE THE TERMINATION POINT OF THE JPM AT THIS POINT.

JPM TERMINATION

TIME:

JPM START TIME: - _____

JPM COMPLETION TIME: _____

VERIFICATION OF COMPLETION

JPM Number: SA.4JPMrev 2

Examinee's Name:

Examiner's Name:

Date Performed:

Facility Evaluator:

Number of Attempts:

Time to Complete:

JPM INFORMATION CARD

HAND THE STUDENT INFORMATION CARD TO THE EXAMINEE

READ TO THE EXAMINEE:

I will explain the initial conditions, which steps to simulate or discuss, and provide initiation cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

Task Standard:	The Emergency Director Turnover Sheet is completed and the values recorded are within 10% of the attached marked up copy. A score of 80% is required for passing the JPM. For Op Test 1 Scenario 2, there are 17 correct responses. 3 can be missed and pass the JPM. For Op Test 2 Scenario 1, there are 20 correct responses. 4 can be missed and pass the JPM.
Required Materials:	Emergency Director Turnover Sheet
Safety Equipment:	N/A
General References:	Emergency Director Turnover Sheet, PPM 13.1.1 rev 27, pages 14 and 21.
Time Critical Task:	No
Initial Conditions:	The plant simulator has been frozen following the scenario you have just completed.

INITIATING CUE

The plant simulator has been frozen following the scenario you have just completed. Complete the given Emergency Director Turnover Sheet.

- Include all out of service equipment and actions being taken for recovery.
- There have been no CNF forms released yet. The oncoming ED will release the first one.
- All forms and procedures are available for use in completing the Emergency Director Turnover sheet.

Notify me when you have completed the Emergency Director Turnover Sheet.

INFORMATION BELOW THIS LINE NOT SHARED WITH EXAMINEE

Task Number:

NUREG 1123 Reference: 2.4.40 2.3/4.0

Location: Simulator

Prepared/Revised by: S Hutchison

Validation Time: 15 minutes

Time Critical: No

Performance Method: Perform

Revision Date: 7/23/00

STUDENT INFORMATION

Initial Conditions: The plant simulator has been frozen following the scenario you have just completed.

INITIATING CUE

The plant simulator has been frozen following the scenario you have just completed. Complete the given Emergency Director Turnover Sheet.

- Include all out of service equipment and actions being taken for recovery.
- There have been no CNF forms released yet. The oncoming ED will release the first one.
- All forms and procedures are available for use in completing the Emergency Director Turnover sheet.

Notify me when you have completed the Emergency Director Turnover Sheet.

Facility: WNP-2 Date of examination: 10/23/00 Examination level: RO		
Administrative Topic/Subject Description		Describe the method of evaluation: 1. ONE admin JPM, OR 2. TWO Administrative questions
A.1	Use of Procedures	2.1.1 – Knowledge of Conduct of Operations The question concerns what actions are required by PPM 1.3.1 for an unexpected power increase on IRM R5-6. Closed Reference WNP-2 LER 86-004 2.1.21 – Ability to obtain and verify controlled procedures The question will deal with how to verify the correct procedure is used for a surveillance procedure. Closed Reference
	2 Questions	
	Plant Parameter Verification JPM	2.1.18 – Ability to make accurate, clear and concise logs, records, status boards, and reports. JPM – Complete reactor scram Post Event Report – Following one of the evaluated dynamic scenarios, the ROs will complete a scram Post Event Report Form.
A.2	Use of P+IDs JPM	2.1.24 – Ability to obtain and interpret station electrical and mechanical drawings. JPM - Given a scenario with SM-7 powered from the Startup Transformer, using EWDs explain why LPCS-P-1 will not start by arm and depress WNP-2 PER 298-1094
A.3	Radiation Work Permits JPM	2.3.1 – Knowledge of 10CFR20 and related facility radiation control requirements. JPM – Process into the RCA using the TES system.
A.4	Emergency Action Levels and Classifications 2 Questions	2.4.39 – Knowledge of responsibilities in Emergency Plan Implementation. The question concerns classification of a SJAE Outlet High High radiation Alarm. 2.4.43 – Knowledge of Emergency Communications System and Techniques. The question concerns notification of Offsite Agencies during an Emergency.

NOTE: The question RA.1-1 was changed to add 1 more open reference question to the RO Admin Exam. This change was driven by form ES301-3. This requires the Admin portion of the exam be predominately open reference questions. The modification of this question to an open reference question gives a 50% open reference versus closed reference on both the SRO and the RO admin exam. This is acceptable per telephone conversation with Tom McKernon. The KA for RA.1-1 was not changed, so the outline has not change. The following is the text of the new question:

A maintenance test has been performed on RHR-V-24A, Test Return, (MOV type SMB-3) that required the valve to be stroked from closed to full open and back to closed 5 times, with no time between change of direction. The valve takes an average of 3 minutes to stroke full open and back closed. The work order has allowed no deviation in duty cycle requirements.

What is the required cooldown time prior to the next allowable operation of RHR-V-24A?

OPEN REFERENCE

Facility: WNP-2	Task No: RO-0573-N-ADMIN
Task Title: Evaluate LPCS-P-1 failure to start with EWDs	Job Performance Measure No: Ba.2JPM Rev 1
K/A Reference: 2.1.24 2.8/3.1	
Examinee:	NRC Examiner:
Facility Evaluator:	Date:

Method of testing:

Perform – Use of EWDs –
Simulator/Control Room

JPM SETUP INFORMATION

Initial Conditions:	The plant is in MODE 4 with reactor level at –40 inches and the drywell is open for personnel access. All electrical busses are aligned normally for MODE 4.
Task Standard:	Using the EWDs, correctly determine the cause of the failure to start.
Required Materials:	N/A
General References:	EWD 8E010 and 8E001
Initiating Cue:	<p>The plant is in MODE 4 with reactor level at -40 inches and the drywell is open for personnel access. All electrical busses are aligned normally for MODE 4.</p> <p>You have been directed to start LPCS-P-1 by the use of the ARM and DEPRESS pushbutton. All LPCS valves realign as required but LPCS-P-1 does not start.</p> <p>Using the EWDs, explain why the pump did not start.</p>
Time Critical Task:	NO
Validation Time:	10 minutes
Simulator ICs:	N/A
Malfunctions/Remote Triggers:	N/A
Overrides:	N/A
Special Setup Instructions:	N/A

PERFORMANCE INFORMATION

START TIME:

Critical Step: Yes	
Performance Step: 1	
Standard:	<p>The applicant should note the following:</p> <ol style="list-style-type: none"> 1. LPCS-RLY-K12 closes when the ARM and DEPRESS pushbutton is pushed. 2. LPCS/62/1 closes after UV or an FA signal and a 10 second time delay, so it remains open. 3. LPCS/RHRA/1 energizes and opens when power is from TR-S which prevents a manual initiation of LPCS-P-1 with the ARM and DEPRESS pushbutton while powered from the Startup Transformer. <p>FOR FULL CREDIT: LPCS-P-1 cannot be manually initiated with the ARM and DEPRESS pushbutton while powered from the Startup (TR-S) Transformer.</p>
Comment: SAT / UNSAT	

THE EXAMINEE SHOULD ANNOUNCE THE TERMINATION POINT OF THE JPM AT THIS POINT.

JPM TERMINATION

TIME:

JPM START TIME: - _____

JPM COMPLETION TIME: _____

VERIFICATION OF COMPLETION

JPM Number: Ba.2JPM rev 1

Examinee's Name:

Examiner's Name:

Date Performed:

Facility Evaluator:

Number of Attempts:

Time to Complete:

JPM INFORMATION CARD

HAND THE STUDENT INFORMATION CARD TO THE EXAMINEE

READ TO THE EXAMINEE:

I will explain the initial conditions, which steps to simulate or discuss, and provide initiation cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

Task Standard: Using the EWDs, correctly determine the cause of the failure to start.

Required Materials: N/A

Safety Equipment: N/A

General References: EWD 8E010 and 8E001

Time Critical Task: NO

Initial Conditions: The plant is in MODE 4 with reactor level at –40 inches and the drywell is open for personnel access. All electrical busses are aligned normally for MODE 4.

INITIATING CUE

The plant is in MODE 4 with reactor level at -40 inches and the drywell is open for personnel access. All electrical busses are aligned normally for MODE 4. You have been directed to start LPCS-P-1 by the use of the ARM and DEPRESS pushbutton. All LPCS valves realign as required but LPCS-P-1 does not start.

Using the EWDs, explain why the pump did not start.

INFORMATION BELOW THIS LINE NOT SHARED WITH EXAMINEE

Task Number: RO-0573-N-ADMIN
NUREG 1123 Reference: 2.1.24 2.8/3.1
Location: Simulator/Control room
Prepared/Revised by: S Hutchison

Validation Time: 10 minutes
Time Critical: NO
Performance Method: Perform
Revision Date: 7/23/99

STUDENT INFORMATION

Initial Conditions: The plant is in MODE 4 with reactor level at –40 inches and the drywell is open for personnel access. All electrical busses are aligned normally for MODE 4.

INITIATING CUE

The plant is in MODE 4 with reactor level at -40 inches and the drywell is open for personnel access. All electrical busses are aligned normally for MODE 4. You have been directed to start LPCS-P-1 by the use of the ARM and DEPRESS pushbutton. All LPCS valves realign as required but LPCS-P-1 does not start.

Using the EWDs, explain why the pump did not start.

Facility: WNP-2	Task No:
Task Title: Complete Post Scram Report	Job Performance Measure No: Ra.1JPM Rev 2
K/A Reference: 2.1.18 2.9/3.0	
Examinee:	NRC Examiner:
Facility Evaluator:	Date:

Method of testing:

Perform - Simulator

JPM SETUP INFORMATION

Initial Conditions:	The plant simulator has been frozen following the scenario you have just completed.
Task Standard:	<p>The Post Scram Reports are completed in accordance with PPM 1.3.5 and the values recorded are within 10% of panel indications. A score of 80% is required for passing the JPM.</p> <p>NOTE: The attached turnover forms are based on panel indications following scenario validation. Actual values may vary depending on variables due to operation during the scenario and the stopping point of the scenario. The values given as reference will have to be verified prior to grading of this JPM.</p>
Required Materials:	PPM 1.3.5 rev 15, att 5.3
General References:	PPM 1.3.5 rev 15
Initiating Cue:	<p>The plant simulator has been frozen following the scenario you have just completed. Complete the given Post Scram Report. All ROs are to complete the CRO1 Post Scram Report.</p> <p>Notify me when you have completed the Post Scram Report</p>
Time Critical Task:	NO
Validation Time:	10 minutes
Simulator ICs:	N/A
Malfunctions/Remote Triggers:	N/A
Overrides:	N/A
Special Setup Instructions:	The simulator will be frozen following the completion of either OP Test 1 Scen #2 or OP Test 2 Scen #1. Ensure these scenarios have notes in the setup not to reset the simulator until this JPM is completed.

PERFORMANCE INFORMATION

START TIME:

Critical Step: Yes*	
Performance Step: 1	The CRO1 Post Scram reports will be completed with data from the frozen simulator following either OP Test 1 Scen. #2 or OP Test 2 Scen. #1.
Standard:	<p>The Post Scram Reports are completed in accordance with PPM 1.3.5 and the values recorded are within 10% of panel indications. A score of 80% is required for passing the JPM.</p> <p>NOTE: The attached turnover forms are based on panel indications following scenario validation. Actual values may vary depending on variables due to operation during the scenario and the stopping point of the scenario. The values given as reference will have to be verified prior to grading of this JPM.</p>
Comment: SAT / UNSAT	

THE EXAMINEE SHOULD ANNOUNCE THE TERMINATION POINT OF THE JPM AT THIS POINT.

JPM TERMINATION

TIME:

JPM START TIME: - _____

JPM COMPLETION TIME: _____

VERIFICATION OF COMPLETION

JPM Number: RA.1JPM rev 2

Examinee's Name:

Examiner's Name:

Date Performed:

Facility Evaluator:

Number of Attempts:

Time to Complete:

JPM INFORMATION CARD

HAND THE STUDENT INFORMATION CARD TO THE EXAMINEE

READ TO THE EXAMINEE:

I will explain the initial conditions, which steps to simulate or discuss, and provide initiation cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

Task Standard: The Post Scram Reports are completed in accordance with PPM 1.3.5 and the values recorded are within 10% of panel indications. A score of 80% is required for passing the JPM.

NOTE: The attached turnover forms are based on panel indications following scenario validation. Actual values may vary depending on variables due to operation during the scenario and the stopping point of the scenario. The values given as reference will have to be verified prior to grading of this JPM.

Required Materials: PPM 1.3.5 rev 15, att 5.3

Safety Equipment: N/A

General References: PPM 1.3.5 rev 15

Time Critical Task: No

Initial Conditions: The plant simulator has been frozen following the scenario you have just completed.

INITIATING CUE

The plant simulator has been frozen following the scenario you have just completed. Complete the given Post Scram Report. All ROs are to complete the CRO1 Post Scram Report.

Notify me when you have completed the Post Scram Report

INFORMATION BELOW THIS LINE NOT SHARED WITH EXAMINEE

Task Number:

NUREG 1123 Reference: 2.1.18 2.9/3.0

Location: Simulator

Prepared/Revised by: S Hutchison

Validation Time: 10 minutes

Time Critical: No

Performance Method: Perform

Revision Date: 7/23/00

STUDENT INFORMATION

Initial Conditions: The plant simulator has been frozen following the scenario you have just completed.

INITIATING CUE

The plant simulator has been frozen following the scenario you have just completed. Complete the given Post Scram Report. All ROs are to complete the CRO1 Post Scram Report.

Notify me when you have completed the Post Scram Report

ADMINISTRATIVE TOPICS SECTION A2

WNP-2

RA.3-1 and RA.3-2

OCTOBER 23, 00

Question No. RA.3-1:	A co-worker has been injured and is unconscious in a High High Radiation area. You have decided to enter the area and carry the worker to safety.	
	What is the WNP-2 administrative maximum allowable dose in a lifesaving situation?	
	CLOSED REFERENCE	
	ANSWER: 25 rem TEDE	
Response:		
SAT / UNSAT		
2.3.1 (2.6/3.1)	6016	GEN-RPP-07 rev 3, page 8

ADMINISTRATIVE TOPICS SECTION A2

WNP-2

RA.3-1 and RA.3-2

OCTOBER 23, 00

Question No. RA.3-2	You have been directed to enter a radiation area with a general area dose rate of 245 mrem/hr. What are the dosimetry requirements for entering this area? CLOSED REFERENCE ANSWER: Any ONE of the following is correct; <ul style="list-style-type: none">• A radiation monitoring device that continuously indicates the radiation dose rate in the area (e.g., survey instrument)• A radiation monitoring device that continuously integrates the radiation dose rate in the area and alarms when a preset integrated dose is received (e.g., an alarming electronic dosimeter), with an appropriate alarm setpoint.• A radiation monitoring device that continuously transmits dose rate and cumulative dose to a remote receiver monitored by Health Physics personnel responsible for controlling personnel radiation exposure within the area (e.g., an electronic dosimeter used in conjunction with a remote monitoring system)• A self-reading dosimeter and,<ul style="list-style-type: none">- Be under the surveillance (as specified in the RWP), while in the area of and individual at the work site who is qualified in radiation protection procedures and who is equipped with a radiation dose rate monitoring and indicating device and is responsible for controlling personnel radiation exposure within the area- Be under the surveillance (as specified in the RWP), by means of close circuit television, of an individual qualified in radiation protection procedures who is responsible for controlling personnel radiation exposure in the area.	
Response:		
SAT / UNSAT		
2.3.1 (2.6/3.1)	6036	PPM 11.2.7.3 rev 18, pages 4 and 5

ADMINISTRATIVE TOPICS SECTION A2

WNP-2

RA.3-1 and RA.3-2

OCTOBER 23, 00

Question No. A co-worker has been injured and is unconscious in a High High Radiation area.
RA.3-1: You have decided to enter the area and carry the worker to safety.

What is the WNP-2 administrative maximum allowable dose in a lifesaving situation?

CLOSED REFERENCE

ADMINISTRATIVE TOPICS SECTION A2

WNP-2

RA.3-1 and RA.3-2

OCTOBER 23, 00

Question No. RA.3-2	You have been directed to enter a radiation area with a general area dose rate of 245 mrem/hr.
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What are the dosimetry requirements for entering this area?

CLOSED REFERENCE

ADMINISTRATIVE TOPICS SECTION A2

WNP-2

REACTOR OPERATOR

MARCH 99

Question No. RA.4-1	The plant is operating at reduced power following a trip of RRC-P-1A. Off Gas activity has increased and a valid annunciator for SJAE CONDENSER OUTLET RAD HI-HI, P602 A5 drop 3-3 illuminates. What is the classification of this event and who is the CRO required to notify? OPEN REFERENCE ANSWER: 1. Unusual Event 2. The Shift Manager		
Response:			
SAT / UNSAT			
2.4.39 3.3/3.1	6130	PPM 4.602.A5.3-3 rev 12, page 25, PPM 13.1.1, rev 26, pages 4 and 11	

Question No. RA.4-2	The plant has experienced a LOCA and the Shift Manager has declared an emergency. The FAX machine is not working. Which one of the phone systems is the preferred system for notification of local authorities? CLOSED REFERENCE ANSWER: The CRASH Phone		
Response:			
SAT / UNSAT			
2.4.43 2.8/3.5	8907	PPM 13.4.1 rev 25, page 5	

ADMINISTRATIVE TOPICS SECTION A2

WNP-2

REACTOR OPERATOR

MARCH 99

Question No.
RA.4-1

The plant is operating at reduced power following a trip of RRC-P-1A. Off Gas activity has increased and a valid annunciator for SJAE CONDENSER OUTLET RAD HI-HI, P602 A5 drop 3-3 illuminates.

What is the classification of this event and who is the CRO required to notify?

OPEN REFERENCE

Question No. RA.4-2	<p>The plant has experienced a LOCA and the Shift Manager has declared an emergency. The FAX machine is not working.</p> <p>Which one of the phone systems is the preferred system for notification of local authorities?</p> <p>CLOSED REFERENCE</p>
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Facility: WP-2		Date of examination: October 23, 2000	
Exam level: RO		SRO-I	

B1 Control Room Systems			
	System / JPM Title	Type Code*	Safety Function
a.	Reactor Feedwater / Reactor Feed Pump Quick Start LR000131 Simulator	M	2
b.	Main Generator / Generator Capability Curve LR001153 Simulator	M A	4
c.	Reactor Closed Cooling / Change RCC Pump Simulator	N A Abnormal	8
d.	RSCS / Bypass Control Rods in RSCS LR000196 Simulator	D	7
e.	AC Dist. / Transfer 480V Bus from Normal to Alternate supply. Simulator	N A	6
f.	RMS / Operate CRD to make the Reactor Critical LR000228 Simulator	M A L	1
g.	NS ⁴ / Override RCU Isolation Interlocks LR000160 Control Room	D Emergency, RCA, ESF	5

B2. Facility Walkthrough			
a.	Remote Shut down / Establish Suppression Pool Cooling from the Alternate Remote Shut down Panel LR000144 Plant	D Emergency, RCA, ESF	5
b.	Containment Nitrogen / Open CN-V-65 with N ₂ Bottle, local Actions LR000317 Plant	D Emergency, RCA, ESF	3
c.	Control Rod Drive / Insert Control Rod by venting the Scram Air Header LR000249 Plant	D Emergency, RCA	1

Facility: WP-2		Date of examination: October 23, 2000	
Exam level: RO		SRO-I	
Spare JPMs			
System / JPM Title		Type Code*	Safety Function
1	Main Steam Leakage Control / Start Main Steam Leakage Control LRO00197 Simulator	D, Emergency	9
2	Diesel Generator / Slow Start DG1 from the Local Panel LRO00198 Plant	D	6
* Type Codes: (D)irect from bank, (M)odified from bank, (N)ew, (A)lternate path, (L)ow power			
Indicates spare JPMs			

Facility: WP-2	Date of examination: October 23, 2000
Exam level:	SRO-U

B1 Control Room Systems				
	System / JPM Title / Type Codes *	Type Code	Safety Function	
a.	Reactor Closed Cooling / Change RCC Pump Simulator	N A Abnormal	8	
b.	Main Generator / Generator Capability Curve LR00153 Simulator	M A	4	
c.	RSCS / Bypass Control Rods in RSCS LR00196 Simulator	D	7	
d.	NS ⁴ / Override RWU Isolation Interlocks LR00160 Control Room	D, Emergency, RCA, ESF	5	

B2 Facility Walkthrough				
a.	Control Rod Drive / Insert Control Rod by venting the Scram Air Header LR00249 Plant	D, Emergency, RCA	1	

Spare JPMs				
	System / JPM Title / Type Codes *	Type Code	Safety Function	
1.	Main Steam Leakage Control / Start Main Steam Leakage Control LR00197 Simulator	D, Emergency	9	
2.	Diesel Generator / Slow Start DG1 from the Local Panel LR00198 Plant	D	6	

* Type Codes: (D)irect from bank, (M)odified from bank, (N)ew, (A)lternate path, (L)ow power
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Indicates spare JPMs

Facility: WNP-2	Task No: RO-0371-N-RFW
Task Title: REACTOR FEED PUMP QUICK RESTART	Job Performance Measure No: B.1.a 00JPM1R2
K/A Reference: 259001A4.02 (3.9/3.7)	
Examinee:	NRC Examiner:
Facility Evaluator:	Date:

Method of testing:

Actual Performance - Simulator

JPM SETUP INFORMATION

Initial Conditions:	A manual reactor scram has been inserted as part of a normal shutdown early in core life. RPV level increased to greater than +54.5 inches and both feed pumps have tripped.
Task Standard:	One feed pump started and maintaining reactor level in the normal operating band.
Required Materials:	PPM 2.2.4A and 2.2.4B on the hard card at BD A
General References:	PPM 2.2.4A, rev 1 and PPM 2.2.4B, rev0
Initiating Cue:	You have been directed by the CRS to perform a Quick restart of RFW-P-1A. Inform the CRS when reactor level is being controlled +13 inches to +54 inches per the hard card at BD A.
Time Critical Task:	NO
Validation Time:	16 minutes
Simulator ICs:	78
Malfunctions/Remote Triggers:	N/A
Overrides:	N/A
Special Setup Instructions:	N/A

PERFORMANCE INFORMATION

START TIME:

NOTE: Step 2.1 directs transfer of RFW-FCV-10A/B per PPM 2.2.4B concurrently with this procedure. A copy of 2.2.4B is included for reference. Step 9 of this JPM can be performed at this time (first).

Critical Step: NO	
Performance Step: 1	2.2 - Ensure RFW-V-112A and RFW-V-112B are started closed.
Standard:	Closes RFW-V-112A and RFW-V-112B.
Comment: SAT / UNSAT	

Critical Step: Yes	
Performance Step: 2	2.3 – Ensure MSIVs are OPEN* and no other Reactor Feed Pump is in service
Standard:	Verify MSIVs are open* and no feed pump in service
Comment: SAT / UNSAT	

Critical Step: Yes	
Performance Step: 3	2.4 – Ensure at least two HIGH LEVEL SEAL INs are RESET
Standard:	Push at least 2 High Level Seal In Reset Pushbuttons and verify the high level seal in indicating lights are extinguished.
Comment: SAT / UNSAT	

Critical Step: YES*	
Performance Step: 4	2.5 – Ensure speed controller RFW-SC-601A is in MDVP at 0%.
Standard:	Notes RFW-SC-601A is in MDVP at 40% and notifies the CRS. Manually* reduces setpoint to 0%.
Cue: If notified by the CRO, as CRS direct the CRO to reduce the setpoint to 0%	
Comment: SAT / UNSAT	

Critical Step: YES	
Performance Step: 5	2.6 – Reset the Reactor Feed Pump. Hold the TRIP/RESET switch to RESET until the HP and LP Stop Valves indicate full open.
Standard:	Place the TRIP/RESET switch to RESET and hold until the HP and LP Stop Valves indicate full open.
Comment: SAT / UNSAT	

Critical Step: YES	
Performance Step: 6	2.7 – Increase Turbine speed using RFW-SC-601A in MDVP in MDVP (turbine will roll on main steam at approximately 60% valve position)
Standard:	Roll turbine with RFW-SC-601A in MDVP.
Comment: SAT / UNSAT	

Critical Step: YES	
Performance Step: 7	2.8 – Transfer RFW-SC-601A to MDEM as soon as practical (GT 800 rpm).
Standard:	Transfer RFW-SC-601A to MDEM GT 800 rpm.
Comment: SAT / UNSAT	

Critical Step: NO	
Performance Step: 8	2.9 – Ensure RFW-V-112A and RFW-V-112B are fully closed.
Standard:	Verifies RFW-V-112A and RFW-V-112B are fully closed.
Comment: SAT / UNSAT	

Critical Step: YES*	
Performance Step: 9	2.10 – Ensure feedwater system lineup appropriate for plant conditions: <ul style="list-style-type: none"> • Open RFW-V-118* • Ensure RFW-V-117A and RFW-V-117B are open*. • Place RFW-LIC-620, Startup level control, in AUTOMATIC @36 inches.
Standard:	Verify feedwater system lineup appropriate for plant conditions as above.
<p>NOTE: This step is covered in PPM 2.2.4B.</p> <p>The critical portion of this step is to ensure the valve lineup allows for feedwater injection through RFW-LIC-620. Control is either manual or automatic with automatic preferred</p>	
Comment: SAT / UNSAT	

Critical Step: YES	
Performance Step: 10	2.11 – Increase turbine speed to raise RFP discharge pressure, as necessary, to control reactor level +13 inches to +54 inches.
Standard:	Maintain RFP discharge pressure greater than reactor pressure to ensure injection with reactor level controlled in the band from +13 inches to +54 inches.
Comment: SAT / UNSAT	

THE EXAMINEE SHOULD ANNOUNCE THE TERMINATION POINT OF THE JPM AT THIS POINT.

JPM TERMINATION

TIME:

JPM START TIME: -

JPM COMPLETION TIME:

VERIFICATION OF COMPLETION

JPM Number: B.1.a 00JPM1R2

Examinee's Name:

Examiner's Name:

Date Performed:

Facility Evaluator:

Number of Attempts:

Time to Complete:

JPM INFORMATION CARD

HAND THE STUDENT INFORMATION CARD TO THE EXAMINEE

READ TO THE EXAMINEE:

I will explain the initial conditions, which steps to simulate or discuss, and provide initiation cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

Task Standard: One feed pump started and maintaining reactor level in the normal operating band.

Required Materials: PPM 2.2.4A and 2.2.4B on the hard card at BD A

Safety Equipment: N/A

General References: PPM 2.2.4A, rev 1 and PPM 2.2.4B, rev0

Time Critical Task: NO

Initial Conditions: A manual reactor scram has been inserted as part of a normal shutdown early in core life. RPV level increased to greater than +54.5 inches and both feed pumps have tripped.

INITIATING CUE

You have been directed by the CRS to perform a Quick restart of RFW-P-1A. Inform the CRS when reactor level is being controlled +13 inches to +54 inches per the hard card at BD A.

INFORMATION BELOW THIS LINE NOT SHARED WITH EXAMINEE

Task Number: RO-0371-N-RFW
NUREG 1123 Reference: 259001A4.02
(3.9/3.7)

Location: Simulator
Prepared/Revised by: S Hutchison

Validation Time: 16 minutes
Time Critical: NO

Performance Method: Perform
Revision Date: 5/1/00

STUDENT INFORMATION

Initial Conditions: A manual reactor scram has been inserted as part of a normal shutdown early in core life. RPV level increased to greater than +54.5 inches and both feed pumps have tripped.

INITIATING CUE

You have been directed by the CRS to perform a Quick restart of RFW-P-1A. Inform the CRS when reactor level is being controlled +13 inches to +54 inches per the hard card at BD A.

Facility: WNP-2	Task No: RO-0327-N-TG
Task Title: Generator Capability Curve Interpretation – Faulted JPM – Respond to loss of H ₂ in Main Generator	Job Performance Measure No: B.1.b 00JPM2R3
K/A Reference: 245000K1.01 (3.1/3.3) 245000A4.05 (2.7/2.7)	
Examinee:	NRC Examiner:
Facility Evaluator:	Date:

Method of testing:

Actual Performance - Simulator

JPM SETUP INFORMATION

Initial Conditions:	Reactor power is 97%. The Plant is operating normally.
Task Standard:	Respond to the loss of H ₂ by reducing Main Generator output to less than the capability curve.
Required Materials:	PPM 4.820.B3 drop 2-3, PPM 2.5.7 att. 6.6
General References:	PPM 4.820.B3 drop 2-3, PPM 2.5.7 att. 6.6
Initiating Cue:	The CRS has directed you to increase reactor power to 100% with Recirculation Flow at the rate of 5 MWe/min. Notify the CRS when Reactor Power is 100%.
Time Critical Task:	NO
Validation Time:	10 minutes
Simulator ICs:	77
Malfunctions/Remote Triggers:	100 cfm H ₂ leak in the generator.
Overrides:	N/A
Special Setup Instructions:	Initialize the simulator in IC-77. Insert the H ₂ leak when power increase is started. Stop the leak at 70# H ₂ pressure indicated on the computer panel drawing. This gives an indication of 68# on the simulator panel. Ensure annunciator B# drop 5-4 has been failed off.

PERFORMANCE INFORMATION

START TIME:

Critical Step: NO	
Performance Step: 1	Increase reactor power as directed to 100% power.
Standard:	Increase reactor power with recirc flow as directed
<p>NOTE: When the CRO approaches the board, insert the H₂ leak causing H₂ pressure to decrease. Stop the leak when H₂ pressure is 70 psig on the computer panel. It takes about 2 ½ minutes for the leak to cause the GEN H2 PRESS LOW annunciator.</p> <p>CUE: The candidate will have to be cued that this alarm is his.</p>	
Comment: SAT / UNSAT	

Critical Step: YES	
Performance Step: 2	At H13-P620 (BD B) check hydrogen pressure on H ₂ -PI-1.
Standard:	CRO checks pressure as directed and verifies pressure less than 72 psig.
Comment: SAT / UNSAT	

Critical Step: NO	
Performance Step: 3	CRO dispatches an operator to check hydrogen pressure at the Generator H ₂ Control Station on H2-PI-3.
Standard:	CRO either dispatches or asks CRS to dispatch operator as directed by the procedure.
CUE: If asked by the CRO to dispatch an operator, acknowledge the operator has been dispatched to check the H ₂ and seal oil systems.	
Comment: SAT / UNSAT	

NOTE: It is possible to reduce reactive load by the use of the voltage regulator to maintain the generator within the capability curve. If needed use the following cue to direct reduction of generator load by the reduction of Recirculation Flow.

CUE: Reduce generator output with Recirc Flow to maintain operation of the generator within the capability curve.

NOTE: STOP THE H2 LEAK AT 70# INDICATED ON THE COMPUTER PANEL.

Critical Step: YES	
Performance Step: 4	Maintain the Main Generator within the limits of the Generator Capability Curve in PPM 2.5.4 H ₂ /CO ₂ System.
Standard:	Reduce Main Generator load by recirculation flow to less than the value in the table in att. 6.6 of 2.5.7. 1162 MW for 68 psig hydrogen pressure.
CUE: If directed by the CRO to add H₂ to the generator, cue that there is no hydrogen available. A truck is on the way but will not be on site for at least 4 hours.	
Comment: SAT / UNSAT	

TERMINATION CUE: When generator load has been reduced to a value at least as low as the value in the table, announce to the CRO, "THE TERMINATION POINT OF THIS JPM HAS BEEN REACHED."

JPM TERMINATION TIME: JPM START TIME: - _____ JPM COMPLETION TIME:
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VERIFICATION OF COMPLETION

JPM Number: B.1.b 00JPM2r3

Examinee's Name:

Examiner's Name:

Date Performed:

Facility Evaluator:

Number of Attempts:

Time to Complete:

JPM INFORMATION CARD

HAND THE STUDENT INFORMATION CARD TO THE EXAMINEE

READ TO THE EXAMINEE:

I will explain the initial conditions, which steps to simulate or discuss, and provide initiation cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

Task Standard: Respond to the loss of H₂ by reducing Main Generator output to less than the capability curve.

Required Materials: PPM 4.820.B3 drop 2-3, PPM 2.5.7 att. 6.6

Safety Equipment: NA

General References: PPM 4.820.B3 drop 2-3, PPM 2.5.7 att. 6.6

Time Critical Task: NO

Initial Conditions: Reactor power is 97%. The Plant is operating normally.

INITIATING CUE

The CRS has directed you to increase reactor power to 100% with Recirculation Flow at the rate of 5 MWe/min. Notify the CRS when Reactor Power is 100%.

INFORMATION BELOW THIS LINE NOT SHARED WITH EXAMINEE

Task Number: RO-0327-N-TG
NUREG 1123 Reference: 245000K1.01
(3.1/3.3)
245000A4.05 (2.7/2.7)

Location: Simulator
Prepared/Revised by: S Hutchison

Validation Time: 10 minutes
Time Critical: NO

Performance Method: Perform
Revision Date: 8/3/00

STUDENT INFORMATION

Initial Conditions: Reactor power is 97%. The Plant is operating normally.

INITIATING CUE

The CRS has directed you to increase reactor power to 100% with Recirculation Flow at the rate of 5 MWe/min. Notify the CRS when Reactor Power is 100%.

Facility: WNP-2	Task No: RO-0048-A-RCC
Task Title: Change RCC Pumps – Alternate Path JPM – Respond to loss of RCC Pump at Power	Job Performance Measure No: B.1.c 00JPM3R4
K/A Reference: 400000K1.02 (3.2/3.4)	
Examinee:	NRC Examiner:
Facility Evaluator:	Date:

Method of testing:

Actual Performance - Simulator

JPM SETUP INFORMATION

Initial Conditions:	The reactor is operating at 97% power. All equipment is normal. Maintenance needs to tag out RCC-P-1A for breaker maintenance.
Task Standard:	Respond the loss of an RCC pump at power and the subsequent closure of RCC-V-6 in accordance with PPM 4.8.3.2.
Required Materials:	NA
General References:	PPM 2.8.3, PPM 4.8.3.2, and PPM 4.820.B1 drop 4-1
Initiating Cue:	<p>The CRS has directed you change RCC Pumps per PPM 2.8.3, section 5.4 Reactor and Radwaste Building Close Cooling Water System. After RCC-P-1A has been stopped, Place the control switch in Pull to Lock in preparation for hanging the tag for maintenance.</p> <p>Notify the CRS when RCC-P-1A is in PTL and RCC-P-1C is in operation with all system parameters normal.</p>
Time Critical Task:	NO
Validation Time:	10 minutes
Simulator ICs:	77
Malfunctions/Remote Triggers:	<p>RCC-P1C Breaker trip</p> <p>Override RCC-P-1C in the PTL position</p> <p>Malfunction to fail the Overcurrent Trip annunciator for RCC-P-1C</p>
Overrides:	N/A
Special Setup Instructions:	Initialize to IC-77. All malfunctions/overrides are set to trigger on RCC-P-1A PTL control switch position.

PERFORMANCE INFORMATION

START TIME:

Critical Step: NO	
Performance Step: 1	Ensure suction valve is open for RCC-P-1C.
Standard:	Verifies suction valve is open for RCC-P-1C.
CUE: Suction valve for RCC-P-1C is open.	
Comment: SAT / UNSAT	

Critical Step: YES	
Performance Step: 2	Ensure discharge valve is open for RCC-P-1C.
Standard:	Verifies discharge valve is open for RCC-P-1C.
CUE: Discharge valve for RCC-P-1C is open.	
Comment: SAT / UNSAT	

Critical Step: YES	
Performance Step: 3	Start RCC-P-1C.
Standard:	Place the control switch for RCC-P-1C in start and releases when the pump starts.
NOTE: May announce the start of RCC-P-1C.	
Comment: SAT / UNSAT	

Critical Step: YES	
Performance Step: 4	Stop RCC-P-1A and place the control switch in PTL.
Standard:	Stops RCC-P-1A and places the control switch in PTL.
<p>NOTE: When the control switch for RCC-P-1A is placed in the PTL position, RCC-P-1C trips.</p> <p>CUE: IF CALLED AS OPS2, VERIFY THE DISCHARGE CHECK VALVE IS CLOSED</p>	
<p>Comment:</p> <p>SAT / UNSAT</p>	

Critical Step: NO	
Performance Step: 5	<p>Refers to PPM 4.820.B1 drop 4-1, RCC PUMP C MOTOR OL TRIP.</p> <p>May attempt to restart RCC-P-1A.</p> <p>Refers to ABN-RCC Loss of RCC</p>
Standard:	As stated above.
<p>CUE: If needed cue operator to respond to the Board N annunciator indication on Board S.</p>	
<p>Comment:</p> <p>SAT / UNSAT</p>	

Critical Step: NO	
Performance Step: 6	Verifies RCC-V-6 has closed.
Standard:	At BD N, verifies RCC-V-6 has closed.
<p>Comment:</p> <p>SAT / UNSAT</p>	

Critical Step: YES*	
Performance Step: 7	Trip RWCU-P-1A (1B) Close RWCU-V-4*
Standard:	Trips RWCU-P-1A (1B) Closes RWCU-V-4
Comment: SAT / UNSAT	

TERMINATION CUE: THE TERMINATION POINT OF THIS JPM HAS BEEN REACHED.

JPM TERMINATION TIME: JPM START TIME: - _____ JPM COMPLETION TIME:

VERIFICATION OF COMPLETION

JPM Number: B.1.c 00JPM3R4

Examinee's Name:

Examiner's Name:

Date Performed:

Facility Evaluator:

Number of Attempts:

Time to Complete:

JPM INFORMATION CARD

HAND THE STUDENT INFORMATION CARD TO THE EXAMINEE

READ TO THE EXAMINEE:

I will explain the initial conditions, which steps to simulate or discuss, and provide initiation cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

Task Standard: Respond the loss of an RCC pump at power and the subsequent closure of RCC-V-6 in accordance with ABN-RCC.

Required Materials: NA

Safety Equipment: NA

General References: PPM 2.8.3, ABN-RCC, and PPM 4.820.B1 drop 4-1

Time Critical Task: NO

Initial Conditions: The reactor is operating at 97% power. All equipment is normal. Maintenance needs to tag out RCC-P-1A for breaker maintenance.

INITIATING CUE

The CRS has directed you change RCC Pumps per PPM 2.8.3, section 5.4 Reactor and Radwaste Building Close Cooling Water System. After RCC-P-1A has been stopped, Place the control switch in Pull to Lock in preparation for hanging the tag for maintenance. Notify the CRS when RCC-P-1A is in PTL and RCC-P-1C is in operation with all system parameters normal.

INFORMATION BELOW THIS LINE NOT SHARED WITH EXAMINEE

Task Number: RO-0048-A-RCC
NUREG 1123 Reference: : 400000K1.02
(3.2/3.4)

Location: Simulator
Prepared/Revised by: S Hutchison

Validation Time: 10 minutes
Time Critical: NO

Performance Method: Perform
Revision Date: 5/1/00

STUDENT INFORMATION

Initial Conditions: The reactor is operating at 97% power. All equipment is normal.
Maintenance needs to tag out RCC-P-1A for breaker maintenance.

INITIATING CUE

The CRS has directed you change RCC Pumps per PPM 2.8.3, section 5.4 Reactor and Radwaste Building Close Cooling Water System. After RCC-P-1A has been stopped, Place the control switch in Pull to Lock in preparation for hanging the tag for maintenance.

Notify the CRS when RCC-P-1A is in PTL and RCC-P-1C is in operation with all system parameters normal.

Facility: WNP-2	Task No: RO-0134-N-RSCS
Task Title: Bypass Control Rods on the RSCS	Job Performance Measure No: B.1.d 00JPM4R3
K/A Reference: 201004A4.01 3.4/3.5	
Examinee:	NRC Examiner:
Facility Evaluator:	Date:

Method of testing:

Actual Performance - Simulator

JPM SETUP INFORMATION

Initial Conditions:	Control Rod 26-27 must be bypassed in the RSCS. The CRS has verified bypassing rod 26-27 is in compliance with all Tech Specs. The Shift Manager has given permission to bypass this control rod.
Task Standard:	Control rod 26-27 is bypass in the RSCS correctly in accordance with plant procedures.
Required Materials:	Key #81 or #82
General References:	PPM 2.1.5 rev 10, section 5.2 Bypassing Control Rods and ATT 6.1/6.2/6.3
Initiating Cue:	You have been directed by the CRS to bypass control rod 26-27 in the RSCS cabinet per PPM 2.1.5, section 5.2, step 2. Notify the CRS when you have verified the Control rod is bypassed in the RSCS on P603
Time Critical Task:	NO
Validation Time:	9 minutes
Simulator ICs:	76 – can be run in any IC for 2000 ILC JPM exam.
Malfunctions/Remote Triggers:	N/A
Overrides:	N/A
Special Setup Instructions:	No control rods are bypassed in the RSCS in IC-76.

PERFORMANCE INFORMATION

START TIME:

Critical Step: NO	
Performance Step: 1	Step 2) Depress the "RED DISPLAY CONTROL" Pushbutton on the RSCS Panel on P603 to illuminate the "BYPASS LIGHT" Verify that no other control rods currently bypassed.
Standard:	Verifies no other control rods bypassed.
Comment: SAT / UNSAT	

Critical Step: YES*	
Performance Step: 2	Step 3) *Unlock the bypassed rod identifier cabinet Verifies no other control rods bypassed.
Standard:	Unlocks cabinet and verifies no other rods bypassed.
NOTE: THIS STEP CAN BE PERFORMED OUT OF SEQUENCE TO ALLOW VERIFICATION OF CORRECT SWITCH SETTINGS	
Comment: SAT / UNSAT	

Critical Step: NO	
Performance Step: 3	Step 4) a. Circle control rod 26-27 on ATT 6.2/6.3 b. N/A c. Record and initial above verifications in Control Room Log.
CUE: Verifications and initials have been recorded in the CR Log,	
Standard:	
NOTE: There is only going to be one control rod bypassed, so step 4 b. is N/A	
Comment: SAT / UNSAT	

Critical Step: YES	
Performance Step: 4	Step 5) Determine the RSCS binary equivalent X and Y coordinates from ATT 6.1, Control Rod Location Equivalents
Standard:	X,Y coordinates correctly determined – 26 (X) = 01000 27 (Y) = 01000
Comment: SAT / UNSAT	

Critical Step: NO	
Performance Step: 5	Step 6) Ensure the Bypassed/Not Bypassed toggle switch at the top of the card to be used is in the NOT BYPASSED position Ensure the red light below the switch is NOT illuminated
Standard:	Bypass switch in the NOT BYPASSED position Red light below the switch is not illuminated.

Critical Step: YES	
Performance Step: 6	Step 7) On the same card place the X ₄ through X ₀ (01000) and the Y ₄ through Y ₁ (01000) in the position consistent with the binary equivalent from ATT 6.1
Standard:	Code set: X ₄ – X ₁ = 01000 Y ₄ – Y ₁ = 01000
Comment: SAT / UNSAT	

Critical Step: NO	
Performance Step: 7	Step 8) Obtain independent verification of toggle switch positions from second licensed operator or technically qualified individual.
CUE: Switch position verified either correct or incorrect. NOTE: IF SWITCH POSITION NOT CORRECT, RETURN TO PROCEDURE STEP 5.	
Standard:	Switches placed in the correct position to bypass control rod 26-27
Comment: SAT / UNSAT	

Critical Step: YES*	
Performance Step: 8	Step 9) *Place the BYPASSED/NOT BYPASSED Toggle Switch at the top of the care in the BYPASSED position. Ensure the red light just under the switch is illuminated.
Standard:	Switch in BYPASSED Red light illuminated
Comment: SAT / UNSAT	

Critical Step: NO	
Performance Step: 9	Step 10) Ensure the rod bypassed indicates on the RSCS Panel on P603 Ensure the correct rod is bypassed.
Standard:	Ensure the rod bypassed indicates on the RSCS Panel on P603 Ensure the correct rod is bypassed.
Comment: SAT / UNSAT	

THE EXAMINEE SHOULD ANNOUNCE THE TERMINATION POINT OF THE JPM AT THIS POINT.

JPM TERMINATION TIME: JPM START TIME: - _____ JPM COMPLETION TIME:

VERIFICATION OF COMPLETION

JPM Number: B.1.d 00JPM4R3

Examinee's Name:

Examiner's Name:

Date Performed:

Facility Evaluator:

Number of Attempts:

Time to Complete:

JPM INFORMATION CARD

HAND THE STUDENT INFORMATION CARD TO THE EXAMINEE

READ TO THE EXAMINEE:

I will explain the initial conditions, which steps to simulate or discuss, and provide initiation cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

Task Standard: Control rod 26-27 is bypass in the RSCS correctly in accordance with plant procedures.

Required Materials: Key #81 or #82

Safety Equipment: NONE

General References: PPM 2.1.5 rev 10, section 5.2 Bypassing Control Rods and ATT 6.1/6.2/6.3

Time Critical Task: NO

Initial Conditions: Control Rod 26-27 must be bypassed in the RSCS. The CRS has verified bypassing rod 26-27 is in compliance with all Tech Specs. The Shift Manager has given permission to bypass this control rod.

INITIATING CUE

You have been directed by the CRS to bypass control rod 26-27 in the RSCS cabinet per PPM 2.1.5, section 5.2, step 2. Notify the CRS when you have verified the Control rod is bypassed in the RSCS on P603

INFORMATION BELOW THIS LINE NOT SHARED WITH EXAMINEE

Task Number: RO-0134-N-RSCS
NUREG 1123 Reference: 201004A4.01
3.4/3.5

Location: Simulator
Prepared/Revised by: S Hutchison

Validation Time: 9 minutes
Time Critical: NO

Performance Method: Perform
Revision Date: 8/3/00

STUDENT INFORMATION

Initial Conditions: Control Rod 26-27 must be bypassed in the RSCS. The CRS has verified bypassing rod 26-27 is in compliance with all Tech Specs. The Shift Manager has given permission to bypass this control rod.

INITIATING CUE

You have been directed by the CRS to bypass control rod 26-27 in the RSCS cabinet per PPM 2.1.5, section 5.2, step 2. Notify the CRS when you have verified the Control rod is bypassed in the RSCS on P603

Facility: WNP-2	Task No: RO-0672-E-RWCU
Task Title: Override RWCU Isolation Interlocks	Job Performance Measure No: B.1.g 00JPM5R2
K/A Reference: 223002K4.08 3.3/3.7	
Examinee:	NRC Examiner:
Facility Evaluator:	Date:

Method of testing:

Control Room - Simulate

JPM SETUP INFORMATION

Initial Conditions:	An event has occurred that caused PPM 5.1.1 to be entered.
Task Standard:	The simulated bypass of the RWCU Isolation Interlocks is performed in accordance with PPM 5.5.4.
Required Materials:	Jumpers and contact boots for PPM 5.5.4
General References:	PPM 5.5.4 rev 3
Initiating Cue:	<p>The CRS has directed you to bypass the RWCU Isolation Interlocks per PPM 5.5.4. Notify the CRS when you have finished SIMULATING the bypass of these interlocks.</p> <p>CONTROL MANIPULATIONS WILL <u>NOT</u> BE PERFORMED. ALL ACTIONS AND STEPS WILL BE SIMULATED.</p>
Time Critical Task:	NO
Validation Time:	8 minutes
Simulator ICs:	N/A
Malfunctions/Remote Triggers:	N/A
Overrides:	N/A
Special Setup Instructions:	N/A

PERFORMANCE INFORMATION

START TIME:

Critical Step: YES	
Performance Step: 1	Step 1) Install one jumper across contact terminal studs 7 and 8 for each of the below listed relays: H13-P622 MS-RLY-K26 RWCU-V-1 H13-P623 MS-RLY-K27 RWCU-V-4
CUE: JUMPERS INSTALLED CORRECTLY.	
Standard:	Terminal studs 7 and 8 correctly identified on each relay.
Comment: SAT / UNSAT	

Critical Step: YES	
Performance Step: 2	Step 1) Install one contact boot on contact 3-4 for each of the below listed relays: H13-P622 MS-RLY- K26 RWCU-V-1 H13-P623 MS-RLY-K27 RWCU-V-4
CUE: CONTACT BOOTS CORRECTLY INSTALLED.	
Standard:	Contacts 3-4 correctly identified on both relays.
Comment: SAT / UNSAT	

THE EXAMINEE SHOULD ANNOUNCE THE TERMINATION POINT OF THE JPM
AT THIS POINT.

JPM TERMINATION

TIME:

JPM START TIME: - _____

JPM COMPLETION TIME: _____

VERIFICATION OF COMPLETION

JPM Number: B.1.g 00JPM5R2

Examinee's Name:

Examiner's Name:

Date Performed:

Facility Evaluator:

Number of Attempts:

Time to Complete:

JPM INFORMATION CARD

HAND THE STUDENT INFORMATION CARD TO THE EXAMINEE

READ TO THE EXAMINEE:

I will explain the initial conditions, which steps to simulate or discuss, and provide initiation cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

Task Standard: The simulated bypass of the RWCU Isolation Interlocks is performed in accordance with PPM 5.5.4.

Required Materials: Jumpers and contact boots for PPM 5.5.4

Safety Equipment: N/A

General References: PPM 5.5.4 rev 3

Time Critical Task: N/A

Initial Conditions: An event has occurred that caused PPM 5.1.1 to be entered.

INITIATING CUE

The CRS has directed you to bypass the RWCU Isolation Interlocks per PPM 5.5.4. Notify the CRS when you have finished **SIMULATING** the bypass of these interlocks.

CONTROL MANIPULATIONS WILL NOT BE PERFORMED. ALL ACTIONS AND STEPS WILL BE SIMULATED.

INFORMATION BELOW THIS LINE NOT SHARED WITH EXAMINEE

Task Number: RO-0672-E-RWCU
NUREG 1123 Reference: 223002K4.08
3.3/3.7

Location: Control Room
Prepared/Revised by: S Hutchison

Validation Time: 6 minutes
Time Critical: NO

Performance Method: **SIMULATE**
Revision Date: 6/12/00

STUDENT INFORMATION

Initial Conditions: An event has occurred that caused PPM 5.1.1 to be entered.

INITIATING CUE

The CRS has directed you to bypass the RWCU Isolation Interlocks per PPM 5.5.4. Notify the CRS when you have finished **SIMULATING** the bypass of these interlocks.

CONTROL MANIPULATIONS WILL NOT BE PERFORMED. ALL ACTIONS AND STEPS WILL BE SIMULATED.

Facility: WNP-2	Task No: RO-0672-E-RWCU
Task Title: Override RWCU Isolation Interlocks	Job Performance Measure No: B.1.g 00JPM5R2
K/A Reference: 223002K4.08 3.3/3.7	
Examinee:	NRC Examiner:
Facility Evaluator:	Date:

Method of testing:

Control Room - Simulate

JPM SETUP INFORMATION

Initial Conditions:	An event has occurred that caused PPM 5.1.1 to be entered.
Task Standard:	The simulated bypass of the RWCU Isolation Interlocks is performed in accordance with PPM 5.5.4.
Required Materials:	Jumpers and contact boots for PPM 5.5.4
General References:	PPM 5.5.4 rev 3
Initiating Cue:	<p>The CRS has directed you to bypass the RWCU Isolation Interlocks per PPM 5.5.4. Notify the CRS when you have finished SIMULATING the bypass of these interlocks.</p> <p>CONTROL MANIPULATIONS WILL <u>NOT</u> BE PERFORMED. ALL ACTIONS AND STEPS WILL BE SIMULATED.</p>
Time Critical Task:	NO
Validation Time:	8 minutes
Simulator ICs:	N/A
Malfunctions/Remote Triggers:	N/A
Overrides:	N/A
Special Setup Instructions:	N/A

PERFORMANCE INFORMATION

START TIME:

Critical Step: YES	
Performance Step: 1	Step 1) Install one jumper across contact terminal studs 7 and 8 for each of the below listed relays: H13-P622 MS-RLY-K26 RWCU-V-1 H13-P623 MS-RLY-K27 RWCU-V-4
CUE: JUMPERS INSTALLED CORRECTLY.	
Standard:	Terminal studs 7 and 8 correctly identified on each relay.
Comment: SAT / UNSAT	

Critical Step: YES	
Performance Step: 2	Step 1) Install one contact boot on contact 3-4 for each of the below listed relays: H13-P622 MS-RLY- K26 RWCU-V-1 H13-P623 MS-RLY-K27 RWCU-V-4
CUE: CONTACT BOOTS CORRECTLY INSTALLED.	
Standard:	Contacts 3-4 correctly identified on both relays.
Comment: SAT / UNSAT	

THE EXAMINEE SHOULD ANNOUNCE THE TERMINATION POINT OF THE JPM
AT THIS POINT.

JPM TERMINATION

TIME:

JPM START TIME: - _____

JPM COMPLETION TIME: _____

VERIFICATION OF COMPLETION

JPM Number: B.1.g 00JPM5R2

Examinee's Name:

Examiner's Name:

Date Performed:

Facility Evaluator:

Number of Attempts:

Time to Complete:

JPM INFORMATION CARD

HAND THE STUDENT INFORMATION CARD TO THE EXAMINEE

READ TO THE EXAMINEE:

I will explain the initial conditions, which steps to simulate or discuss, and provide initiation cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

Task Standard: The simulated bypass of the RWCU Isolation Interlocks is performed in accordance with PPM 5.5.4.

Required Materials: Jumpers and contact boots for PPM 5.5.4

Safety Equipment: N/A

General References: PPM 5.5.4 rev 3

Time Critical Task: N/A

Initial Conditions: An event has occurred that caused PPM 5.1.1 to be entered.

INITIATING CUE

The CRS has directed you to bypass the RWCU Isolation Interlocks per PPM 5.5.4. Notify the CRS when you have finished **SIMULATING** the bypass of these interlocks.

CONTROL MANIPULATIONS WILL NOT BE PERFORMED. ALL ACTIONS AND STEPS WILL BE SIMULATED.

INFORMATION BELOW THIS LINE NOT SHARED WITH EXAMINEE

Task Number: RO-0672-E-RWCU
NUREG 1123 Reference: 223002K4.08
3.3/3.7

Location: Control Room
Prepared/Revised by: S Hutchison

Validation Time: 6 minutes
Time Critical: NO

Performance Method: **SIMULATE**
Revision Date: 6/12/00

STUDENT INFORMATION

Initial Conditions: An event has occurred that caused PPM 5.1.1 to be entered.

INITIATING CUE

The CRS has directed you to bypass the RWCU Isolation Interlocks per PPM 5.5.4. Notify the CRS when you have finished **SIMULATING** the bypass of these interlocks.

CONTROL MANIPULATIONS WILL NOT BE PERFORMED. ALL ACTIONS AND STEPS WILL BE SIMULATED.

Facility: WNP-2	Task No: RO-0390-N-AC
Task Title: Transfer 480V Bus Power Supply From Normal to Alternate – Alternate Path.	Job Performance Measure No: B.1.e 00JPM6R2
K/A Reference: 262001A4.04 3.6/3.7	
Examinee:	NRC Examiner:
Facility Evaluator:	Date:

Method of testing:

Simulator – Actual Performance

JPM SETUP INFORMATION

Initial Conditions:	Bus SL-11 is currently powered from the normal power supply through circuit SM-1.
Task Standard:	Bus SL-11 is transferred from the normal power supply to the alternate power supply, in accordance with plant procedures.
Required Materials:	N/A
General References:	PPM 2.7.1B rev 12, section 5.0
Initiating Cue:	The CRS has directed you to transfer the SL-11 power source from the normal source, CB 11-1, to the alternate source, CB 21-11, per PPM 2.7.1B. Inform the CRS when the transfer of SL-11 to SL-21 is completed.
Time Critical Task:	NO
Validation Time:	5 minutes
Simulator ICs:	75
Malfunctions/Remote Triggers:	N/A
Overrides:	N/A
Special Setup Instructions:	Ensure malfunction to prevent auto transfer of CB 11-1 is activated.

PERFORMANCE INFORMATION

START TIME:

Critical Step: YES	
Performance Step: 1	5.1.1) Ensure the CB-21/11 green tripped light is illuminated and the green position flag is being displayed in the CB-21/11 control switch window.
Standard:	Verifies green tripped light is illuminated and the green position flag is displayed in the window.
Comment: SAT / UNSAT	

Critical Step: YES	
Performance Step: 2	5.1.2) Place the BUS 11, 21, and 31 Trip Permissive selector switch in the TRIP CB-11/1 position.
Standard:	Trip switch place in the TRIP CB-11/1 position.
Comment: SAT / UNSAT	

Critical Step: YES	
Performance Step: 3	5.1.3) Place the CB-21/11 control switch to the CLOSE position.
Standard:	CB-21/11 control switch in CLOSE.
Comment: SAT / UNSAT	

Appendix C		Job Performance Measure Worksheet JPM B.1.e rev 2	Form ES-C-1
Critical Step: NO			
Performance Step: 4	5.1.4) Ensure the CB-21/11 green tripped light extinguishes and red closed light illuminates.		
Standard:	Place the CS for CB-21/11 in the close position.		
Comment: SAT / UNSAT			
Critical Step: YES*			
Performance Step: 5	5.1.5/5.1.6) a) Ensure CB11/1 auto trips and the green tripped light illuminates at the time of breaker CB-21/11 closure. b) *Manually trip CB-11/1 c) Verify CB-11/1 is tripped by the green tripped light and the green flag is displayed in the control switch window.		
Standard:	Verifies indications and *trips CB-11/1.		
NOTE: Candidate may announce the action to the CRS			
Comment: SAT / UNSAT			

Critical Step: NO	
Performance Step: 5	5.1.7) Place the BUS11, 21, and 31 Trip Permissive Selector switch in an off position.
Standard:	Place the switch in an off position.
Comment: SAT / UNSAT	

THE EXAMINEE SHOULD ANNOUNCE THE TERMINATION POINT OF THE JPM AT THIS POINT.

JPM TERMINATION TIME: JPM START TIME: - _____ JPM COMPLETION TIME:

VERIFICATION OF COMPLETION

JPM Number: b.1.E 00JPM6R2

Examinee's Name:

Examiner's Name:

Date Performed:

Facility Evaluator:

Number of Attempts:

Time to Complete:

JPM INFORMATION CARD

HAND THE STUDENT INFORMATION CARD TO THE EXAMINEE

READ TO THE EXAMINEE:

I will explain the initial conditions, which steps to simulate or discuss, and provide initiation cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

Task Standard: Bus SL-11 is transferred from the normal power supply to the alternate power supply, in accordance with plant procedures.

Required Materials: N/A

Safety Equipment: N/A

General References: PPM 2.7.1B rev 12, section 5.1

Time Critical Task: NO

Initial Conditions: Bus SL-11 is currently powered from the normal power supply through circuit SM-1.

INITIATING CUE

The CRS has directed you to transfer the SL-11 power source from the normal source, CB 11-1, to the alternate source, CB 21-11, per PPM 2.7.1B.
Inform the CRS when the transfer of SL-11 to SL-21 is completed.

INFORMATION BELOW THIS LINE NOT SHARED WITH EXAMINEE

Task Number: RO-0390-N-AC
NUREG 1123 Reference: 262001A4.04
3.6/3.7

Location: Simulator
Prepared/Revised by: S Hutchison

Validation Time: 5 minutes
Time Critical: NO

Performance Method: Perform
Revision Date: 5/12/00

STUDENT INFORMATION

Initial Conditions: Bus SL-11 is currently powered from the normal power supply through circuit SM-1.

INITIATING CUE

The CRS has directed you to transfer the SL-11 power source from the normal source, CB 11-1, to the alternate source, CB 21-11, per PPM 2.7.1B.
Inform the CRS when the transfer of SL-11 to SL-21 is completed.

Facility: WNP-2	Task No: RO-0156-N-RMCS
Task Title: Operate the CRD System to Bring the Reactor Critical – Alternate Path – Drifting Control Rods – Manual Scram	Job Performance Measure No: B.1.f 00JPM7R2
K/A Reference: 201002A1.04 3.6/3.5	
Examinee:	NRC Examiner:
Facility Evaluator:	Date:

Method of testing:

Actual Performance - Simulator

JPM SETUP INFORMATION

Initial Conditions:	A startup from cold conditions is in progress. Control rods have been withdrawn by the previous crew in preparation to bring the reactor critical. The reactor is subcritical. The SRM and IRM recorders are in fast speed and criticality is expected to occur between RWM Group 12 Step 9, rod 58-31 position 04 and RWM Group 13 Step 3, rod 34-33 position 10.
Task Standard:	The reactor is made critical per plant procedures resulting in a stable positive period longer than 60 seconds. Respond to drifting in control rods and scram the reactor. Take immediate scram actions in accordance with PPM 3.3.1.
Required Materials:	Control Rod Pull Sheet and marking pen.
General References:	PPM 3.1.2 rev 51, section 5.2.5, PPM 4.1.1 rev 12, step 4.2
Initiating Cue:	<p>The CRS has directed you to continue the control rod withdrawal per the control rod pull sheet (sequence sheet), step 12-9 to make the reactor critical per PPM 3.1.2 step 5.2.5.</p> <p>The examiner will be the second checker</p> <p>Notify the CRS when all critical data has been taken and a stable positive period of longer than 60 seconds has been established.</p>
Time Critical Task:	NO
Validation Time:	9 minutes
Simulator ICs:	75
Malfunctions/Remote Triggers:	Malfunction for a drifting control rod 58-31 and 10-39
Overrides:	N/A
Special Setup Instructions:	Ensure a marker up copy of the pull sheet is available at the CRO 1 desk.

PERFORMANCE INFORMATION

START TIME:

Critical Step: NO	
Performance Step: 1	<p>5.2.5) Withdraw control rods as directed by the rod withdrawal sequence sheets to achieve criticality as follows:</p> <ul style="list-style-type: none"> a) For initial rod movement prior to criticality, mark sequence sheet table 1 with a Y when movement causes a discernible flux change, or with a N when movement does not cause a discernible flux change. b) For each rod fully withdrawn, check coupling integrity by attempting to pull the rod to the overtravel position and verifying the ROD OVERTRAVEL annunciator 4.603.A7.1-8 does not alarm and initial the sequence sheet. c) For each rod fully withdrawn, ensure position 48 corresponds to the full out indicating light and initial the sequence sheet.
CUE: NOTIFY THE EXAMINEE THAT YOU ARE THE SECOND QUALIFIED INDIVIDUAL	
Standard:	Control rods are withdrawn as above in accordance with the procedure.
CUE: Drift the first control rod 58-31 when the operator selects and moves the second rod.	
Comment: SAT / UNSAT	

Critical Step: YES	
Performance Step: 2	<p>Respond to rod drift alarm:</p> <ul style="list-style-type: none"> a) Terminate control rod movement. b) Refer to PPM 4.1.1.1 c) Select the drifting in control rod and drive it the full in position by depressing the CONTINUOUS INSERT Pushbutton d) Reset the Rod Drift annunciator using the ROD DRIFT RESET pushbutton on H13-P603
<p>NOTE: As soon as the first control rod drift is reset, initiate the second rod drift malfunction.</p>	
<p>MALFUNCTION: WHEN THE EXAMINEE HAS RESET THE FIRST ROD DRIFT ANNUNCIATOR DRIFT THE SECOND ROD 10-39</p>	
Standard:	Respond the drifting rod in accordance with plant procedures as above.
<p>Comment: SAT / UNSAT</p>	

Critical Step: YES	
Performance Step: 3	<p>Upon receipt of the second drifting rod, manually scram the reactor and take the immediate scram actions from memory:</p> <p>a) Place the Mode Switch in SHUTDOWN</p> <p>b) Monitor reactor power, level, and pressure</p> <p>c) Verify all control rods have fully inserted.</p>
Standard:	Take scram actions from memory as above.
CUE: WHEN THE IMMEDIATE SCRAM ACTIONS HAVE BEEN COMPLETED, ANNOUNCE THE TERMINATION POINT OF THE JPM	
Comment: SAT / UNSAT	

JPM TERMINATION

TIME:

JPM START TIME: - _____

JPM COMPLETION TIME: _____

VERIFICATION OF COMPLETION

JPM Number: B.1.f 00JPM7R3

Examinee's Name:

Examiner's Name:

Date Performed:

Facility Evaluator:

Number of Attempts:

Time to Complete:

JPM INFORMATION CARD

HAND THE STUDENT INFORMATION CARD TO THE EXAMINEE

READ TO THE EXAMINEE:

I will explain the initial conditions, which steps to simulate or discuss, and provide initiation cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

Task Standard: The reactor is made critical per plant procedures resulting in a stable positive period longer than 60 seconds. Respond 2 drifting in control rods and scram the reactor. Take immediate scram actions in accordance with PPM 3.3.1.

Required Materials: Control Rod Pull Sheet and marking pen.

Safety Equipment: NONE

General References: PPM 3.1.2 rev 50, section 5.2.5, PPM 4.1.1 rev 12, step 4.2

Time Critical Task: NO

Initial Conditions: The CRS has directed you to continue the control rod withdrawal per the control rod pull sheet (sequence sheet), step 12-9 to make the reactor critical per PPM 3.1.2 step 5.2.5.

The examiner will be the second checker

Notify the CRS when all critical data has been taken and a stable positive period of longer than 60 seconds has been established.

INITIATING CUE

The CRS has directed you to continue the control rod withdrawal per the control rod pull sheet (sequence sheet), step 12-9 to make the reactor critical per PPM 3.1.2 step 5.2.5. Notify the CRS when all critical data has been taken and a stable positive period of longer than 60 seconds has been established.

INFORMATION BELOW THIS LINE NOT SHARED WITH EXAMINEE

Task Number: RO-0156-N-RMCS
NUREG 1123 Reference: 201002A1.04
3.6/3.5

Location: Simulator
Prepared/Revised by: S Hutchison

Validation Time: 9 minutes
Time Critical: NO

Performance Method: Perform
Revision Date: 5/12/00

STUDENT INFORMATION

Initial Conditions: A startup from cold conditions is in progress. Control rods have been withdrawn by the previous crew in preparation to bring the reactor critical. The reactor is subcritical. The SRM and IRM recorders are in fast speed and criticality is expected to occur between RWM Group 12 Step 9, rod 58-31 position 04 and RWM Group 13 Step 3, rod 34-33 position 10.

INITIATING CUE

The CRS has directed you to continue the control rod withdrawal per the control rod pull sheet (sequence sheet), step 12-9 to make the reactor critical per PPM 3.1.2 step 5.2.5.

The examiner will be the second checker

Notify the CRS when all critical data has been taken and a stable positive period of longer than 60 seconds has been established.

Facility: WNP-2	Task No: SRO-0251-A-RSP RO-0117-A-RSP
Task Title: Establish Suppression Pool Cooling from Alt Rem Shutdown Panel	Job Performance Measure No: B.2.a 0JPM08R1
K/A Reference: 295016AA2.04 3.9/4.1	
Examinee:	NRC Examiner:
Facility Evaluator:	Date:

Method of testing:

Simulate - Plant

JPM SETUP INFORMATION

Initial Conditions:	The control room has been evacuated due to a fire. The Remote Shutdown Panel is manned with all equipment operable. RPV level is 35 inches, SW-P-1A, SW-P-1B, and RCIC were started from the control room prior to evacuation. Suppression Pool temperature is 114°F. RHR-P-2A is not in operation.
Task Standard:	All actions to place RHR-P-2A in Suppression Pool Cooling will be SIMULATED in accordance with the procedure.
Required Materials:	N/A
General References:	PPM 4.12.1.1 rev 38, sections 5.8 and 5.9
Initiating Cue:	<p>The CRS has directed you to place RHR-A in suppression pool cooling at the Alternate Remote Shutdown Panel using PPM 4.12.1.1 Section 5.9. Inform the CRS when you have established a suppression pool cooling flow rate of 7000 to 7500 gpm.</p> <p>CONTROL MANIPULATIONS WILL <u>NOT</u> BE PERFORMED. ALL ACTIONS AND STEPS WILL BE SIMULATED.</p>
Time Critical Task:	NO
Validation Time:	12 minutes
Simulator ICs:	N/A
Malfunctions/Remote Triggers:	N/A
Overrides:	N/A
Special Setup Instructions:	N/A

PERFORMANCE INFORMATION

START TIME:

Critical Step: YES

Performance Step: 1

CUE: As the examinee points to each valve and states the position of the switch/indicating light, cue that the valve is positioned as per the procedure.

5.9.1.a) To ensure RHR-P-2A is running, perform the following:

5.8.1 – At E-CP-ARS, ensure correct switch alignment for RHR-A as follows:

- RHR-P-2A - Stop
- RHR-V-24A - NORM (closed)
- RHR-V-27A - Closed
- RHR-V-6A - Closed
- RHR-V-8 - Closed
- RHR-V-16A – Closed
- RHR-V-42A – Closed
- RHR-V-64A – Closed
- RHR-V-4A – Open
- RHR-V-53A – NORM (CLOSED)
- RHR-V-48A – NORM (OPEN)
- RHR-V-3A - NORM (OPEN)

5.8.2 – Place the following power transfer switches to the EMERG position:

- RHR-V-24A - POWER TRANSFER
- RHR-V-27A - POWER TRANSFER
- RHR-V-6A - POWER TRANSFER
- RHR-V-8 - POWER TRANSFER
- RHR-V-16A - POWER TRANSFER
- RHR-V-42A - POWER TRANSFER
- RHR-V-64A - POWER TRANSFER
- RHR-V-4A - POWER TRANSFER
- RHR-V-53A - POWER TRANSFER
- RHR-V-48A - POWER TRANSFER
- RHR-V-3A - POWER TRANSFER
- RHR-P-2A – POWER TRANSFER

5.8.3 – Start RHR-P-2A by placing RHR-P-2A Control Switch to START and opens RHR-FCV-64A.

Standard:	All steps SIMULATED IAW the procedure.
Comment: SAT / UNSAT	

Critical Step: NO	
Performance Step: 2	5.9.1.b) CUE: The valve is closed. Ensure RHR-V-42A is closed
Standard:	
RHR-V-42A is simulated closed.	
Comment: SAT / UNSAT	

Critical Step: NO	
Performance Step: 3	5.9.1.c) CUE: The valve is open. Ensure RHR-FCV-64A is open
Standard:	
RHR-FCV-64A is simulated open.	
Comment: SAT / UNSAT	

Critical Step: YES	
Performance Step: 4	5.9.1.d) CUE: The valve is open with 2000 gpm flowrate. Throttle open RHR-V-24A to establish approximately 2000 gpm flow rate.
Standard:	
RHR-V-24A is open with 2000 gpm flow.	
Comment: SAT / UNSAT	

Critical Step: NO	
Performance Step: 5	5.9.1.e) Close RHR-FCV-64A
CUE: The valve is closed.	
Standard:	RHR-FCV-64A is simulated closed.
Comment: SAT / UNSAT	

Critical Step: YES	
Performance Step: 6	5.9.1.f) Throttle open RHR-V-24A to establish between 7000 to 7500 gpm flow rate.
CUE: The valve is open with required flow.	
Standard:	RHR-V-24A is simulated open with 7000 to 7500 gpm flow.
Comment: SAT / UNSAT	

THE EXAMINEE SHOULD ANNOUNCE THE TERMINATION POINT OF THE JPM AT THIS POINT.

JPM TERMINATION	
TIME:	
JPM START TIME:	- _____
JPM COMPLETION TIME:	

VERIFICATION OF COMPLETION

JPM Number: B.2.a 00JPM8R1

Examinee's Name:

Examiner's Name:

Date Performed:

Facility Evaluator:

Number of Attempts:

Time to Complete:

JPM INFORMATION CARD

HAND THE STUDENT INFORMATION CARD TO THE EXAMINEE

READ TO THE EXAMINEE:

I will explain the initial conditions, which steps to simulate or discuss, and provide initiation cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

Task Standard: All actions to place RHR-P-2A in Suppression Pool Cooling will be **SIMULATED** in accordance with the procedure.

Required Materials:

Safety Equipment:

General References: PPM 4.12.1.1 rev 38, sections 5.8 and 5.9

Time Critical Task: NO

Initial Conditions: The control room has been evacuated due to a fire. The Remote Shutdown Panel is manned with all equipment operable. RPV level is 35 inches, SW-P-1A, SW-P-1B, and RCIC were started from the control room prior to evacuation. Suppression Pool temperature is 114°F. RHR-P-2A is not in operation.

INITIATING CUE

The CRS has directed you to place RHR-A in suppression pool cooling at the Alternate Remote Shutdown Panel using PPM 4.12.1.1 Section 5.9. Inform the CRS when you have established a suppression pool cooling flow rate of 7000 to 7500 gpm.

CONTROL MANIPULATIONS WILL NOT BE PERFORMED. ALL ACTIONS AND STEPS WILL BE SIMULATED.

INFORMATION BELOW THIS LINE NOT SHARED WITH EXAMINEE

Task Number: SRO-0251-A-RSP RO-
0117-A-RSP

Validation Time: 12

NUREG 1123 Reference: 295016AA2.04
3.9/4.1

Time Critical: NO

Location: Plant

Performance Method: Simulate

Prepared/Revised by: S Hutchison

Revision Date: 5/18/00

STUDENT INFORMATION

Initial Conditions: The control room has been evacuated due to a fire. The Remote Shutdown Panel is manned with all equipment operable. RPV level is 35 inches, SW-P-1A, SW-P-1B, and RCIC were started from the control room prior to evacuation. Suppression Pool temperature is 114°F. RHR-P-2A is not in operation.

INITIATING CUE

The CRS has directed you to place RHR-A in suppression pool cooling at the Alternate Remote Shutdown Panel using PPM 4.12.1.1 Section 5.9. Inform the CRS when you have established a suppression pool cooling flow rate of 7000 to 7500 gpm.

CONTROL MANIPULATIONS WILL NOT BE PERFORMED. ALL ACTIONS AND STEPS WILL BE SIMULATED.

Facility: WNP-2	Task No: RO-0050-A-CAS EO-1863-A-CAS
Task Title: Open CN-V-65 with a Gas Bottle	Job Performance Measure No: B.2.b 00JPM9R1
K/A Reference: 300000K3.02 3.3/3.4	
Examinee:	NRC Examiner:
Facility Evaluator:	Date:

Method of testing:

Simulate – Plant

JPM SETUP INFORMATION

Initial Conditions:	The Control Air System has been depressurized.
Task Standard:	Actions to place a Nitrogen bottle and open CN-V-65 are taken in accordance with the procedure.
Required Materials:	NONE
General References:	PPM 2.8.2 rev 17, section 5.8
Initiating Cue:	You have been directed by the CRS to place a nitrogen bottle on CN-V-65 and open CN-V-65 per PPM 2.8.2 section 5.8. Inform the CRS when CN-V-65 is open. MANIPULATIONS WILL <u>NOT</u> BE PERFORMED. ALL ACTIONS AND STEPS WILL BE SIMULATED.
Time Critical Task:	NO
Validation Time:	7 minutes
Simulator ICs:	N/A
Malfunctions/Remote Triggers:	N/A
Overrides:	N/A
Special Setup Instructions:	N/A

PERFORMANCE INFORMATION

START TIME:

Critical Step: YES	
Performance Step: 1	5.8.1) Obtain a nitrogen bottle and regulator and bottle stand from the EOP toolbox on the RB 522 west wall.
CUE: Bottle and regulator are obtained.	
Standard:	Obtains bottle and regulator from EOP toolbox.
Comment: SAT / UNSAT	

Critical Step: YES	
Performance Step: 2	5.8.2) Close CN-V-765A (CN-SPV-65 bypass)
CUE: CN-V-765A is closed	
Standard:	Close CN-V-765A (CN-SPV-65 bypass)
Comment: SAT / UNSAT	

Critical Step: YES	
Performance Step: 3	5.8.3) Close CN-V-765B (CN-SPV-65 outlet)
CUE: CN-V-765B is closed	
Standard:	Close CN-V-765B (CN-SPV-65 outlet)
Comment: SAT / UNSAT	

Critical Step: YES	
Performance Step: 4	5.8.4) Connect gas bottle and regulator to CN-V-765C (Gas Bottle Connection)
CUE: Gas bottle and regulator are connected to CN-V-765C	
Standard:	Connect gas bottle and regulator to CN-V-765C (Gas Bottle Connection)
Comment: SAT / UNSAT	

Critical Step: YES	
Performance Step: 5	5.8.5) Adjust gas bottle regulator to 50-70 psig.
CUE: Regulator set at 50-70 psig.	
Standard:	Adjust gas bottle regulator to 50-70 psig.
Comment: SAT / UNSAT	

Critical Step: Yes	
Performance Step: 6	5.8.6) Open CN-V-765C (Gas Bottle Connection)
CUE: CN-V-765C is open	
Standard:	Open CN-V-765C (Gas Bottle Connection)
Comment: SAT / UNSAT	

Critical Step: NO	
Performance Step: 7	5.8.7) Ensure CN-V-65 opens.
CUE: CN-V-65 opens.	
Standard:	Ensure CN-V-65 opens.
Comment: SAT / UNSAT	

THE EXAMINEE SHOULD ANNOUNCE THE TERMINATION POINT OF THE JPM AT THIS POINT.

JPM TERMINATION TIME: JPM START TIME: - _____ JPM COMPLETION TIME: _____

VERIFICATION OF COMPLETION

JPM Number: B.2.b 00JPM9R1

Examinee's Name:

Examiner's Name:

Date Performed:

Facility Evaluator:

Number of Attempts:

Time to Complete:

JPM INFORMATION CARD

HAND THE STUDENT INFORMATION CARD TO THE EXAMINEE

READ TO THE EXAMINEE:

I will explain the initial conditions, which steps to simulate or discuss, and provide initiation cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

Task Standard: Actions to place a Nitrogen bottle and open CN-V-65 are taken in accordance with the procedure.

Required Materials: N/A

Safety Equipment: N/A

General References: PPM 2.8.2 rev 16, section 5.8

Time Critical Task: NO

Initial Conditions: The Control Air System has been depressurized.

INITIATING CUE

You have been directed by the CRS to place a nitrogen bottle on CN-V-65 and open CN-V-65 per PPM 2.8.2 section 5.8. Inform the CRS when CN-V-65 is open.

MANIPULATIONS WILL NOT BE PERFORMED. ALL ACTIONS AND STEPS WILL BE SIMULATED.

INFORMATION BELOW THIS LINE NOT SHARED WITH EXAMINEE

Task Number: RO-0050-A-CAS EO-1863- Validation Time: 7 minutes
A-CAS

NUREG 1123 Reference: 300000K3.02 Time Critical: NO
3.3/3.4

Location: Plant Performance Method: Simulate

Prepared/Revised by: S Hutchison Revision Date: 5/18/00

STUDENT INFORMATION

Initial Conditions: The Control Air System has been depressurized.

INITIATING CUE

You have been directed by the CRS to place a nitrogen bottle on CN-V-65 and open CN-V-65 per PPM 2.8.2 section 5.8. Inform the CRS when CN-V-65 is open.

MANIPULATIONS WILL NOT BE PERFORMED. ALL ACTIONS AND STEPS WILL BE SIMULATED.

Facility: WNP-2	Task No: RO-0680 EO-1957
Task Title: Inserting Control Rods by Venting Scram Air Header	Job Performance Measure No: B.2.c 00JPM10R1
K/A Reference: 295037EA1.05 3.9/4.0	
Examinee:	NRC Examiner:
Facility Evaluator:	Date:

Method of testing:

Simulate - Plant

JPM SETUP INFORMATION

Initial Conditions: A scram has been initiated and all blue lights are extinguished on P603. Reactor pressure is stable at 930 psig.

Task Standard: All steps to vent the scram air header will be SIMULATED in accordance with PPM 5.5.11.

Required Materials: Pre-staged EOP Tools

General References: PPM 5.5.11 rev 4, tab D

Initiating Cue: The CRS has directed you to insert control rods by venting the scram air header per PPM 5.5.11, tab D. Notify the CRS when actions have been completed to vent the Scram Air Header.

MANIPULATIONS WILL NOT BE PERFORMED. ALL ACTIONS AND STEPS WILL BE SIMULATED.

Time Critical Task: NO

Validation Time: 5 minutes

Simulator ICs: N/A

Malfunctions/Remote Triggers: N/A

Overrides: N/A

Special Setup Instructions: N/A

PERFORMANCE INFORMATION

START TIME:

Critical Step: NO	
Performance Step: 1	5.5.11, Q-1) Check Rod Density.
CUE: Rod density is 71%.	
Standard:	Verify Rod density prior to venting scram air header.
Comment: SAT / UNSAT	

Critical Step: YES	
Performance Step: 2	5.5.11, Q-2) Close CRD-V-95, Scram Air Header Isolation Close CRD-V-729, CRD-PI-13 isolation
CUE: CRD-V-95 CLOSED CRD-V-729 CLOSED	
Standard:	Actions simulated to close CRD-V-95 and 729 in accordance with procedure.
Comment: SAT / UNSAT	

Critical Step: YES	
Performance Step: 3	5.5.11, Q-3) Remove instrument drain plug for CRD-PI-13
CUE: Drain plug removed.	
Standard:	Simulate removal of the drain plug as per PPM 5.5.11
Comment: SAT / UNSAT	

Critical Step: YES*	
Performance Step: 4	5.5.11, Q-4) *Open CRD-V-729, CRD-PI-13 isolation Notify the CRS of the results
CUE: CRD-V-729 is open and air is venting.	
Standard:	Simulate the opening of CRD-V-729 as per 5.5.11.
Comment: SAT / UNSAT	

THE EXAMINEE SHOULD ANNOUNCE THE TERMINATION POINT OF THE JPM AT THIS POINT.

JPM TERMINATION TIME: JPM START TIME: - _____ JPM COMPLETION TIME: _____	
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VERIFICATION OF COMPLETION

JPM Number: B.2.c 00JPM10R1

Examinee's Name:

Examiner's Name:

Date Performed:

Facility Evaluator:

Number of Attempts:

Time to Complete:

JPM INFORMATION CARD

HAND THE STUDENT INFORMATION CARD TO THE EXAMINEE

READ TO THE EXAMINEE:

I will explain the initial conditions, which steps to simulate or discuss, and provide initiation cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

Task Standard: All steps to vent the scram air header will be SIMULATED in accordance with PPM 5.5.11.

Required Materials: Pre-staged EOP Tools

Safety Equipment: N/A

General References: PPM 5.5.11 rev 4, tab D

Time Critical Task: NO

Initial Conditions: A scram has been initiated and all blue lights are extinguished on P603. Reactor pressure is stable at 930 psig.

INITIATING CUE

The CRS has directed you to insert control rods by venting the scram air header per PPM 5.5.11, tab D. Notify the CRS when actions have been completed to vent the Scram Air Header.

MANIPULATIONS WILL NOT BE PERFORMED. ALL ACTIONS AND STEPS WILL BE SIMULATED.

INFORMATION BELOW THIS LINE NOT SHARED WITH EXAMINEE

Task Number: RO-0680 EO-1957
NUREG 1123 Reference: 295037EA1.05
3.9/4.0

Location: Plant
Prepared/Revised by: S Hutchison

Validation Time: 5 minutes
Time Critical: NO

Performance Method: Simulate
Revision Date: 5/18/00

STUDENT INFORMATION

Initial Conditions: A scram has been initiated and all blue lights are extinguished on P603. Reactor pressure is stable at 930 psig.

INITIATING CUE

The CRS has directed you to insert control rods by venting the scram air header per PPM 5.5.11, tab D. Notify the CRS when actions have been completed to vent the Scram Air Header.

MANIPULATIONS WILL NOT BE PERFORMED. ALL ACTIONS AND STEPS WILL BE SIMULATED.