

CANDIDATE: _____

QUESTION: A.1.Q#1 (OPEN REFERENCE)

The plant had been in Hot Shutdown with shutdown cooling in service, when the running RHR Pump tripped. Forced circulation cannot be re-established.

What indications are used to determine whether temperature stratification is occurring?
What would be the indications that stratification is occurring?

ANSWER:

Temperature stratification may be detected by monitoring skin temperatures using TR 2-3-89 and 2-3-90.

Indications of stratification are wide variations in vessel skin temperature, location to location, top to bottom, and around the vessel circumference.

RESPONSE:

SAT

UNSAT

K/A NUMBER: 295021 A2.05 (3.4/3.4)

REFERENCES: ON 3156, Section B.8

QUESTION: A.1.Q#2 (OPEN REFERENCE)

The plant has lost all means of shutdown cooling while in Cold Shutdown. The following conditions exist:

- Temperature readings indicate reactor water temperature is rising 1.5 degrees every 7 minutes
- Current reactor temperature is 123 degrees F
- The vessel head is installed

Assuming no means of core cooling becomes available, when will the plant change modes?

ANSWER:

$212 \text{ degrees} - 123 \text{ degrees} = 89 \text{ degrees}$

$(89 \text{ degrees} \times 7 \text{ minutes}) / 1.5 \text{ degrees} = 415.33 \text{ minutes}$ (or 6.92 hours, or 6 hours, 55 minutes)
(acceptable answer ± 5 minutes)

RESPONSE:

SAT

UNSAT

K/A NUMBER: 295021 Generic 2.1.22 (2.8/3.3)

REFERENCES: ON 3156, Loss of Shutdown Cooling, Rev. 5 (Section B.6)

QUESTION: A.3.Q#1 (CLOSED REFERENCE)

A transient has occurred, and the facility has entered the appropriate ONs, OTs, and EOPs. Conditions have not been met for E-plan entry.

You have been asked to enter the RWCU Pump area to determine the conditions of the piping in that area. Your current year exposure is 4470 mrem, TEDE. The inspection is expected to take 30 minutes in an area where dose rates are 250 mrem/hr.

May you enter the area to perform the task without exceeding any administrative dose limit? What is your basis?

ANSWER:

No. The expected dose received would result in exceeding the admin limit of 4500 mrem TEDE per year.

$$4470 + (30/60) (250) = 4595 \text{ mrem.}$$

RESPONSE:

SAT

UNSAT

K/A NUMBER: Generic 2.3.4 (2.5/3.1)

REFERENCES: AP-0506, "Personnel Monitoring," Rev. 23, Discussion section (page 3)

QUESTION: A.3.Q#2 (OPEN REFERENCE)

Entry into a locked high rad area is required during normal plant operations; however, RP is not available to accompany you.

What prerequisites must be met before the high rad key will be issued to you?

ANSWER:

Must be included on an RWP that authorizes High Rad Entry, and must have the Rad Protection Manager (RPM) (or designee) approval for entry.

RESPONSE:

SAT

UNSAT

K/A NUMBER: Generic 2.3.4 (2.5/3.1)

REFERENCES: AP 0532, Locked High Radiation Area Door Key Control, Rev. 19 (Prereq 1,2)

VERMONT YANKEE
JOB PERFORMANCE MEASURE
WORKSHEET

Task Identification:

Title: Perform Control Room Emergency Communications Checks
Failure Mode: N/A
Reference: OP 3506, Emergency Equipment Readiness Check, Rev. 38
Task Number: 2997270301

Task Performance: AO/RO/SRO RO/SRO SRO Only

Sequence Critical: Yes No

Time Critical: Yes No

Individual Performing Task: _____

Examiner: _____

Date of Evaluation: _____

Activity Code: _____

Method of Testing: Simulation Performance Discuss

Setting: Classroom Simulator Plant

Performance Expected Completion Time: 10 minutes

Evaluation Results:

Performance: PASS FAIL Time Required: _____

Prepared by: _____

Operations Training Instructor

9-13-00

Date

Reviewed by: _____

SRO Licensed/Certified Reviewer

9/14/00

Date

Approved by: _____

Operations Training Supervisor

9/14/00

Date

Directions:

Discuss the information given on this page with the operator being evaluated. Allow time for him to ask questions before beginning performance of the task. As each performance step is performed, evaluate the performance of that step by circling either "Sat" or "Unsat". Comments are required for any "Unsat" classification. If a step is preceded by an asterisk (*), it is a critical step. If a critical step is skipped or performed unsatisfactorily, then the individual has failed the Job Performance Measure.

After providing the initiating cue, ask the individual "Do you understand the task?"

Read to the person being evaluated:

Before starting, I will explain the initial conditions, provide the initiating cues and answer any questions you have.

This JPM will be performed in the **Simulator** and you are to **perform** all actions.

You are requested to **"talk-through"** the procedure, stating the parameters you are verifying or checking and the steps you are performing.

Inform me upon completion of this task.

Initial Conditions:

The plant is operating at 100% power with all systems operable.

Initiating Cues:

You have been directed by the SCRO to perform Steps 1 and 2 of the Monthly Communications Check per OP 3506, Section A, and to complete any associated paperwork.

Task Standards:

State Police Agency, Group Call, and ENS phone notification systems tested; results recorded on VYOPF 3506.01

Required Materials:

OP 3506, Emergency Equipment Readiness Check (latest revision)
VYOPF 3506.01 (latest revision)

Simulator Setup:

Any at-power IC.

TIME START: _____

SAT/UNSAT

Step 1: Acquire OP 3506 and review Section A Steps 1 and 2

Standard: Operator acquires OP 3506 and reviews Section A Steps 1 and 2

SAT/UNSAT

***Step 2: Contact the following state police agencies, inform them of the test of the Nuclear Alert System, and request callback:**

_____ Vermont (213)
_____ Massachusetts (210)
_____ New Hampshire (212)

Standard: Operator contacts each state police agency by dialing associated number, informs them of the test, and requests callback from each.

Note:

Simulator operator will answer as each state police agency and initiate requested callbacks to Operator using the "State Police to Control Room" auto dial button.

SAT/UNSAT

***Step 3: Record results of calls and callbacks on VYOPF 3506.01**

Standard: Operator records results of calls and callbacks in appropriate spaces on VYOPF 3506.01.

SAT/UNSAT

***Step 4: Test Group Call capability by lifting handset and dialing 111**

Standard: Operator lifts handset and dials 111.

Interim Cue:

In simulator, inform Operator to dial 1111.

Note:

Simulator operator will answer as each (VT, MA, and NH) state police agency.

SAT/UNSAT

***Step 5: Record results of Group Call test on VYOPF 3506.01**

Standard: Operator records results of Group Call test on form.

SAT/UNSAT ***Step 6: Test the NRC ENS phone.**

Standard: Operator lifts handset, listens for dial tone, and dials 301-816-5100.

Interim Cue: In simulator, inform Operator to dial 4050.

Note: Simulator operator will answer as the NRC.

SAT/UNSAT ***Step 7: State name, location, and the fact that you are testing the ENS.**

Standard: Operator informs NRC operator who he is, where he is calling from, that he is testing the ENS, and requests callback at 700-661-4323.

Note: Simulator operator will acknowledge call as NRC operator, and will initiate callback using the "NRC to Control Room" auto dial button.

SAT/UNSAT ***Step 8: Record results of NRC ENS phone test on VYOPF 3506.01**

Standard: Operator records results of test on form.

TIME FINISH: _____

Terminating Cue:

State Police Agency, Group Call, and ENS phone notification systems tested and results recorded on VYOPF 3506.01

Evaluator Comments: _____

System: **K/A's:**
System Generic K/A's: 2.4.43 (2.8 / 3.5)

**VERMONT YANKEE
JOB PERFORMANCE MEASURE
WORKSHEET**

Task Identification:

Title: Prepare Switching and Tagging Order
Failure Mode: N/A
Reference: AP 0140, Vermont Yankee Local Control Switching Rules, Rev. 22
Task Number: 3420040302/03

Task Performance: AO/RO/SRO RO/SRO SRO Only

Sequence Critical: Yes No

Time Critical: Yes No

Individual Performing Task: _____

Examiner: _____

Date of Evaluation: _____

Activity Code: _____

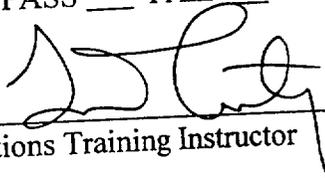
Method of Testing: Simulation Performance Discuss

Setting: Classroom Simulator Plant

Performance Expected Completion Time: 30 minutes

Evaluation Results:

Performance: PASS FAIL Time Required: _____

Prepared by: 
Operations Training Instructor

9/11/00
Date

Reviewed by: _____
SRO Licensed/Certified Reviewer

Date

Approved by: _____
Operations Training Supervisor

Date

Directions:

Discuss the information given on this page with the operator being evaluated. Allow time for him to ask questions before beginning performance of the task. As each performance step is performed, evaluate the performance of that step by circling either "Sat" or "Unsat". Comments are required for any "Unsat" classification. If a step is preceded by an asterisk (*), it is a critical step. If a critical step is skipped or performed unsatisfactorily, then the individual has failed the Job Performance Measure.

After providing the initiating cue, ask the individual "Do you understand the task?"

Read to the person being evaluated:

Before starting, I will explain the initial conditions, provide the initiating cues and answer any questions you have.

This JPM will be performed in the **Plant** and you are to simulate all actions.

You are requested to "talk-through" the procedure, stating the parameters you are verifying or checking and the steps you are performing.

Inform me upon completion of this task.

Initial Conditions:

The plant is operating normally. The "A" CRD Pump has been secured due to indications of a clogged suction filter.

Initiating Cues:

You have been directed by the SS to prepare a Switching and Tagging Order for change-out of the "A" CRD Pump Suction Filter. The Computerized Switching and Tagging Software program is not available.

Task Standards:

CRD Pump "A" Suction Filter adequately isolated per Switching and Tagging Order to allow filter change-out. (Switching and Tagging Order 012957 attached as standard reference.)

Required Materials:

AP 0140, Vermont Yankee Local Control Switching Rules (latest revision)
VYAPF 0140.03 (latest revision) (with upper section completed)
OP 2111, Control Rod Drive System (latest revision)
P&IDs

TIME START: _____

SAT/UNSAT

Step 1: Obtain procedure; review admin limits

Standard: Procedure obtained; admin limits reviewed.

Interim Cue:

Provide Operator with a copy of VYAPF 0140.03 (including upper section completed)

SAT/UNSAT

***Step 2: Identify valves and associated positions necessary to tag out the "A" CRD Pump Suction Filter**

Standard: The following valves and positions identified using appropriate references

_____	CRD/V3-35A	(inlet isolation)	CLOSED
_____	CRD/V3-159A	(outlet isolation)	CLOSED
_____	CRD/V3-156A	(vent)	OPEN
_____	CRD/V3-157A	(drain)	OPEN

SAT/UNSAT

***Step 3: Identify Bus 9 Bkr 5C as the CRD Pump "A" motor power supply**

Standard: Appropriate references used to identify the power supply breaker for the "A" CRD Pump motor

SAT/UNSAT

+*Step 4: Complete Tags On / Placement section of VYAPF 0140.03

Standard: Operator completes the Tags On / Placement section of the form with the following information:

<u>*SEQ</u>	<u>Component</u>	<u>Position</u>	<u>Location</u>
_____1	CRD/P-38-1A ACB	Open/Racked Out	CRB 248/East Swgr Rm/Bus-9-5C
_____2	CRD/V3-35A	CLOSED	RB 232/SW Cnr/CRD Pump Rm
_____3	CRD/V3-159A	CLOSED	RB 232/SW Cnr/CRD Pump Rm
_____4	CRD/V3-156A	OPEN	RB 232/SW Cnr/CRD Pump Rm
_____5	CRD/V3-157A	OPEN	RB 232/SW Cnr/CRD Pump Rm

*Note: The only sequence-critical element is that the pump breaker is listed first.

Interim Cue: Once the Tags On / Placement section of VYAPF 0140.03 is complete, inform Operator that no further actions are required for this JPM.

TIME FINISH: _____

Terminating Cue:

Appropriate components/positions identified and VYAPF 0140.03 completed to allow for change-out of the CRD Pump "A" Suction Filter.

Evaluator Comments:

System: 201001

K/A's: K2.01

System Generic K/A's:

2.2.13

Initial Conditions:

The plant is operating normally. The "A" CRD Pump has been secured due to indications of a clogged suction filter.

Initiating Cues:

You have been directed by the SS to prepare a Switching and Tagging Order for change-out of the "A" CRD Pump Suction Filter. The Computerized Switching and Tagging Software program is not available.

Switching And Tagging Order Number: 012957

Primary Component Protected(ID NO.): F-3-27A

Description: A CRD PUMP SUCTION FILTER

Reason for Tagging: CHANGEOUT

Reference Document: XXX Component Worked On: _____

Tags Requested By: _____

Authorized Person

Tech. Specs. /Safety Equipment YES NO

TAGS ON/PLACEMENT

P.R.	E.O.	SEQ	Component	Position	Location
		1	CRD/P-38-1A ACB	OPEN/RACKED OUT	CRB 248/EAST SWGR ROOM/BUS-9-5C
		2	CRD/V3-35A	CLOSED	RB 232/SW CNR/CRD PUMP RM
		3	CRD/V3-159A	CLOSED	RB 232/SW CNR/CRD PUMP RM
		4	CRD/V3-156A	OPEN	RB 232/SW CNR/CRD PUMP RM
		5	CRD/V3-157A	OPEN	RB 232/SW CNR/CRD PUMP RM

Continued on Continuation Sheet

Ground Tags Issued Local Permissive Test Tags Issued

Switching and Tagging Order Change Sys Drained, Depress'd, Vented
(UND94006OP2)

Secondary Containment Second Level Review By: _____

Order Issued By: _____ / _____ / _____
Control Authority Date Time

Order Executed By: _____ Verif. By: _____

Safety Supervisor: _____

Workmen Notified Block Tagging Order Maintenance Rule Entry ___Yes ___No

Work Party Leaders	Comp.Worked	Signature(Work Start)	Date	Signature*(Work Compltd.)	Date

Remarks/Special Conditions Relative to Clearance:

* Note if tags are double cleared.

VERMONT YANKEE JOB PERFORMANCE MEASURE WORKSHEET

Task Identification:

Title: Perform Reactor Coolant Temperature Check
Failure Mode: Temperatures out of spec for pump start
Reference: OP 4110, Reactor Recirc System Surveillance
Task Number: 2020030201

Task Performance: AO/RO/SRO RO/SRO SRO Only

Sequence Critical: Yes No

Time Critical: Yes No

Individual Performing Task: _____

Examiner: _____

Date of Evaluation: _____

Activity Code: _____

Method of Testing: Simulation Performance Discuss

Setting: Classroom Simulator Plant

Performance Expected Completion Time: 7 minutes

Evaluation Results:

Performance: PASS FAIL

Time Required: _____

Prepared by: [Signature]
Operations Training Instructor

9/11/00
Date

Reviewed by: [Signature]
SRO Licensed/Certified Reviewer

9/11/00
Date

Approved by: [Signature]
Operations Training Supervisor

9/14/00
Date

CANDIDATE: _____

QUESTION: A.1.Q#1 (OPEN REFERENCE)

The plant had been in Hot Shutdown with shutdown cooling in service, when the running RHR Pump tripped. Forced circulation cannot be re-established.

What indications are used to determine whether temperature stratification is occurring?
What would be the indications that stratification is occurring?

ANSWER:

Temperature stratification may be detected by monitoring skin temperatures using TR 2-3-89 and 2-3-90.

Indications of stratification are wide variations in vessel skin temperature, location to location, top to bottom, and around the vessel circumference.

RESPONSE:

SAT

UNSAT

K/A NUMBER: 295021 A2.05 (3.4/3.4)

REFERENCES: ON 3156, Section B.8

QUESTION: A.1.Q#2 (OPEN REFERENCE)

The plant has lost all means of shutdown cooling while in Cold Shutdown. The following conditions exist:

- Temperature readings indicate reactor water temperature is rising 1.5 degrees every 7 minutes
- Current reactor temperature is 123 degrees F
- The vessel head is installed

Assuming no means of core cooling becomes available, when will the plant change modes?

ANSWER:

212 degrees – 123 degrees = 89 degrees

$(89 \text{ degrees} \times 7 \text{ minutes}) / 1.5 \text{ degrees} = 415.33 \text{ minutes}$ (or 6.92 hours, or 6 hours, 55 minutes)
(acceptable answer ± 5 minutes)

RESPONSE:

SAT

UNSAT

K/A NUMBER: 295021 Generic 2.1.22 (2.8/3.3)

REFERENCES: ON 3156, Loss of Shutdown Cooling, Rev. 5 (Section B.6)

QUESTION: A.3.Q#1 (CLOSED REFERENCE)

A transient has occurred, and the facility has entered the appropriate ONs, OTs, and EOPs. Conditions have not been met for E-plan entry.

You have been asked to enter the RWCU Pump area to determine the conditions of the piping in that area. Your current year exposure is 4470 mrem, TEDE. The inspection is expected to take 30 minutes in an area where dose rates are 250 mrem/hr.

May you enter the area to perform the task without exceeding any administrative dose limit? What is your basis?

ANSWER:

No. The expected dose received would result in exceeding the admin limit of 4500 mrem TEDE per year.

$$4470 + (30/60) (250) = 4595 \text{ mrem.}$$

RESPONSE:

SAT

UNSAT

K/A NUMBER: Generic 2.3.4 (2.5/3.1)

REFERENCES: AP-0506, "Personnel Monitoring," Rev. 23, Discussion section (page 3)

QUESTION: A.3.Q#2 (OPEN REFERENCE)

An Operator has just formally declared her pregnancy in writing. She is at the end of the second month of her pregnancy, and her dose for the last two months was 25 mrem Deep Dose Equivalent (DDE). The combined dose of radionuclides from the woman and fetus are projected to be 5 mrem for the entire term of the pregnancy.

What are the fetus TEDE exposure limitations for the rest of the pregnancy?

ANSWER:

The TEDE limit is 500 mrem for the entire pregnancy. TEDE is the sum of the woman's DDE, the woman's dose from radionuclides, and the fetus' dose from radionuclides. The combined existing dose is 30 mrem (25 + 5). The total TEDE to which the fetus may subsequently be exposed is 470 (500 - 30) mrem.

RESPONSE:

SAT

UNSAT

K/A NUMBER: Generic 2.3.1 (2.6/3.0)

REFERENCES: AP 0506, "Personnel Monitoring," Rev. 23, Discussion section (page 4)

**VERMONT YANKEE
JOB PERFORMANCE MEASURE
WORKSHEET**

Task Identification:

Title: Perform Reactor Coolant Temperature Check
Failure Mode: Temperatures out of spec for pump start
Reference: OP 4110, Reactor Recirc System Surveillance
Task Number: 2020030201

Task Performance: AO/RO/SRO ___ RO/SRO X SRO Only ___

Sequence Critical: Yes ___ No X

Time Critical: Yes ___ No X

Individual Performing Task: _____

Examiner: _____

Date of Evaluation: _____

Activity Code: _____

Method of Testing: Simulation ___ Performance X Discuss ___

Setting: Classroom ___ Simulator X Plant ___

Performance Expected Completion Time: 7 minutes

Evaluation Results:

Performance: ~~PASS~~ ___ FAIL ___ Time Required: _____

Prepared by: [Signature]
Operations Training Instructor

9/11/00
Date

Reviewed by: [Signature]
SRO Licensed/Certified Reviewer

9/11/00
Date

Approved by: [Signature]
Operations Training Supervisor

9/14/00
Date

Directions:

Discuss the information given on this page with the operator being evaluated. Allow time for him to ask questions before beginning performance of the task. As each performance step is performed, evaluate the performance of that step by circling either "Sat" or "Unsat". Comments are required for any "Unsat" classification. If a step is preceded by an asterisk (*), it is a critical step. If a critical step is skipped or performed unsatisfactorily, then the individual has failed the Job Performance Measure.

After providing the initiating cue, ask the individual "Do you understand the task?"

Read to the person being evaluated:

Before starting, I will explain the initial conditions, provide the initiating cues and answer any questions you have.

This JPM will be performed in the **Simulator** and you are to **perform** all actions.

You are requested to **"talk-through"** the procedure, stating the parameters you are verifying or checking and the steps you are performing.

Inform me upon completion of this task.

Initial Conditions:

The plant is in Hot Shutdown with the Recirc Pumps secured. ERFIS is not available.

Initiating Cues:

You have been directed by the SCRO to complete the Reactor Coolant Temperature Check per OP 4110 and determine whether temperatures are satisfactory for starting the idle Recirc Pumps.

Task Standards:

VYOPF 4110.05 completed; identification that Recirc Pumps may not be started based upon temperatures.

Required Materials:

OP 4110, Reactor Recirc System Surveillance (latest revision)
VYOPF 4110.05 (latest revision)

Simulator Setup:

Plant in Hot Shutdown with Recirc Pumps Secured
Insert mfPP_01 (failure of the ERFIS computer)
Insert RRao21TR2389 (override of TR-2-3-89) as necessary to achieve a Point 4 reading of 340 deg F

TIME START: _____

SAT/UNSAT **Step 1: Obtain procedure; review admin limits, prerequisites, and Section E.**

Standard: OP 411, obtained; admin limits, prerequisites and Section E reviewed.

Interim Cue: If asked, all prerequisites are met.

SAT/UNSAT **Step 2: Obtain copy of VYOPF 4110.05**

Standard: Operator obtains copy of form.

SAT/UNSAT ***Step 3: Identify and record Recirc Loop A Temperature**

Standard: Operator identifies Recirc Loop A temperature on TR-2-165 (red pen) on CRP 9-4, and records temperature on form.

SAT/UNSAT ***Step 4: Identify and record Recirc Loop B Temperature**

Standard: Operator identifies Recirc Loop B temperature on TR-2-165 (blue pen) on CRP 9-4, and records temperature on form.

SAT/UNSAT ***Step 5: Identify and record reactor pressure**

Standard: Operator identifies reactor pressure on PI-2-56A or PR-6-96 (on CRP 9-5) and records on form.

SAT/UNSAT ***Step 6: Calculate saturation temperature.**

Standard: Operator calculates saturation temperature using saturated steam tables.

SAT/UNSAT ***Step 7: Identify and record bottom head drain temperature.**
Standard: Operator identifies bottom head drain temperature on TR-2-3-89 (Pt. 4),
and records on form.

SAT/UNSAT ***Step 8: Determine and record difference between saturation temperature**
and vessel bottom head drain temperature
Standard: Operator subtracts bottom head drain temperature from interpolated
saturation temperature and records on form.

SAT/UNSAT ***Step 9: Identify difference between saturation temperature and bottom head**
drain temperature is greater than 145 deg F; inform SCRO that
pump may not be started
Standard: Operator identifies that the temperature difference is greater than 145 deg
F, and in accordance with the Note on VYOPF 4110.05, informs the
SCRO that the pump may not be started.

Interim Cue: Inform the Operator that no further actions are necessary for this JPM.

TIME FINISH: _____

Terminating Cue:

Temperatures identified as not within limits for starting the Recirc Pumps; SCRO informed

Evaluator Comments: _____

System: 202001 **K/A's:** K1.03 K3.07 A1.11 A1.13

System Generic K/A's: 2.1.20 2.1.31

**VERMONT YANKEE
JOB PERFORMANCE MEASURE
WORKSHEET**

Task Identification:

Title: Classify Event Based Upon Simulated Plant Conditions
Failure Mode: N/A
Reference: AP 3125, Emergency Plan Classification And Action Level Scheme, Rev. 16
Task Number: 3440190302/03

Task Performance: AO/RO/SRO RO/SRO SRO Only

Sequence Critical: Yes No

Time Critical: Yes No

Individual Performing Task: _____

Examiner: _____

Date of Evaluation: _____

Activity Code: _____

Method of Testing: Simulation Performance Discuss

Setting: Classroom Simulator Plant

Performance Expected Completion Time: 5 minutes

Evaluation Results:

Performance: PASS FAIL Time Required: _____

Prepared by: _____

[Signature]
Operations Training Instructor

9/13/00

Date

Reviewed by: _____

[Signature]
SRO Licensed/Certified Reviewer

9/14/00

Date

Approved by: _____

[Signature]
Operations Training Supervisor

9/14/00

Date

Directions:

Discuss the information given on this page with the operator being evaluated. Allow time for him to ask questions before beginning performance of the task. As each performance step is performed, evaluate the performance of that step by circling either "Sat" or "Unsat". Comments are required for any "Unsat" classification. If a step is preceded by an asterisk (*), it is a critical step. If a critical step is skipped or performed unsatisfactorily, then the individual has failed the Job Performance Measure.

After providing the initiating cue, ask the individual "Do you understand the task?"

Read to the person being evaluated:

Before starting, I will explain the initial conditions, provide the initiating cues and answer any questions you have.

This JPM will be performed in the **Simulator** and you are to **perform** all actions.

You are requested to **"talk-through"** the procedure, stating the parameters you are verifying or checking and the steps you are performing.

Inform me upon completion of this task.

Initial Conditions:

Simulated plant conditions following scenario with simulator in FREEZE

Initiating Cues:

You are the Shift Supervisor. Classify the event. Use as-found simulator conditions.

Task Standards:

The candidate correctly applies emergency classification guidelines for simulated plant conditions.

Required Materials:

AP 3125, Emergency Plan Classification And Action Level Scheme (Appendix A) (latest revision)

Simulator Setup:

N/A

**VERMONT YANKEE
JOB PERFORMANCE MEASURE
WORKSHEET**

Task Identification:

Title: Prepare Switching and Tagging Order
Failure Mode: N/A
Reference: AP 0140, Vermont Yankee Local Control Switching Rules. Rev. 22
Task Number: 3420040302/03

Task Performance: AO/RO/SRO RO/SRO SRO Only

Sequence Critical: Yes No

Time Critical: Yes No

Individual Performing Task: _____

Examiner: _____

Date of Evaluation: _____

Activity Code: _____

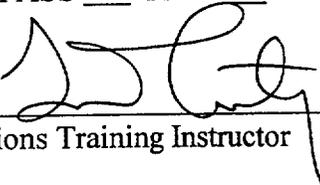
Method of Testing: Simulation Performance Discuss

Setting: Classroom Simulator Plant

Performance Expected Completion Time: 30 minutes

Evaluation Results:

Performance: PASS FAIL Time Required: _____

Prepared by:  9/11/00
Operations Training Instructor Date

Reviewed by: _____ Date
SRO Licensed/Certified Reviewer

Approved by: _____ Date
Operations Training Supervisor

Directions:

Discuss the information given on this page with the operator being evaluated. Allow time for him to ask questions before beginning performance of the task. As each performance step is performed, evaluate the performance of that step by circling either "Sat" or "Unsat". Comments are required for any "Unsat" classification. If a step is preceded by an asterisk (*), it is a critical step. If a critical step is skipped or performed unsatisfactorily, then the individual has failed the Job Performance Measure.

After providing the initiating cue, ask the individual "Do you understand the task?"

Read to the person being evaluated:

Before starting, I will explain the initial conditions, provide the initiating cues and answer any questions you have.

This JPM will be performed in the **Plant** and you are to **simulate** all actions.

You are requested to **"talk-through"** the procedure, stating the parameters you are verifying or checking and the steps you are performing.

Inform me upon completion of this task.

Initial Conditions:

The plant is operating normally. The "A" CRD Pump has been secured due to indications of a clogged suction filter.

Initiating Cues:

You have been directed by the SS to prepare a Switching and Tagging Order for change-out of the "A" CRD Pump Suction Filter. The Computerized Switching and Tagging Software program is not available.

Task Standards:

CRD Pump "A" Suction Filter adequately isolated per Switching and Tagging Order to allow filter change-out. (Switching and Tagging Order 012957 attached as standard reference.)

Required Materials:

AP 0140, Vermont Yankee Local Control Switching Rules (latest revision)
VYAPF 0140.03 (latest revision) (with upper section completed)
OP 2111, Control Rod Drive System (latest revision)
P&IDs

TIME START: _____

SAT/UNSAT

Step 1: Obtain procedure; review admin limits

Standard: Procedure obtained; admin limits reviewed.

Interim Cue:

Provide Operator with a copy of VYAPF 0140.03 (including upper section completed)

SAT/UNSAT

***Step 2: Identify valves and associated positions necessary to tag out the "A" CRD Pump Suction Filter**

Standard: The following valves and positions identified using appropriate references

_____	CRD/V3-35A	(inlet isolation)	CLOSED
_____	CRD/V3-159A	(outlet isolation)	CLOSED
_____	CRD/V3-156A	(vent)	OPEN
_____	CRD/V3-157A	(drain)	OPEN

SAT/UNSAT

***Step 3: Identify Bus 9 Bkr 5C as the CRD Pump "A" motor power supply**

Standard: Appropriate references used to identify the power supply breaker for the "A" CRD Pump motor

SAT/UNSAT +*Step 4: Complete Tags On / Placement section of VYAPF 0140.03

Standard: Operator completes the Tags On / Placement section of the form with the following information:

<u>*SEQ</u>	<u>Component</u>	<u>Position</u>	<u>Location</u>
_____1	CRD/P-38-1A ACB	Open/Racked Out	CRB 248/East Swgr Rm/Bus-9-5C
_____2	CRD/V3-35A	CLOSED	RB 232/SW Cnr/CRD Pump Rm
_____3	CRD/V3-159A	CLOSED	RB 232/SW Cnr/CRD Pump Rm
_____4	CRD/V3-156A	OPEN	RB 232/SW Cnr/CRD Pump Rm
_____5	CRD/V3-157A	OPEN	RB 232/SW Cnr/CRD Pump Rm

*Note: The only sequence-critical element is that the pump breaker is listed first.

Interim Cue: Once the Tags On / Placement section of VYAPF 0140.03 is complete, inform Operator that no further actions are required for this JPM.

TIME FINISH: _____

Terminating Cue:

Appropriate components/positions identified and VYAPF 0140.03 completed to allow for change-out of the CRD Pump "A" Suction Filter.

Evaluator Comments:

System: 201001
System Generic K/A's:

K/A's: K2.01
 2.2.13

Initial Conditions:

The plant is operating normally. The "A" CRD Pump has been secured due to indications of a clogged suction filter.

Initiating Cues:

You have been directed by the SS to prepare a Switching and Tagging Order for change-out of the "A" CRD Pump Suction Filter. The Computerized Switching and Tagging Software program is not available.

Switching And Tagging Order Number: 012957

Primary Component Protected(ID NO.): F-3-27A

Description: A CRD PUMP SUCTION FILTER

Reason for Tagging: CHANGEOUT

Reference Document: XXX Component Worked On: _____

Tags Requested By: _____

Authorized Person

Tech. Specs. /Safety Equipment YES NO

TAGS ON/PLACEMENT

P.R.	E.O.	SEQ	Component	Position	Location
		1	CRD/P-38-1A ACB	OPEN/RACKED OUT	CRB 248/EAST SWGR ROOM/BUS-9-5C
		2	CRD/V3-35A	CLOSED	RB 232/SW CNR/CRD PUMP RM
		3	CRD/V3-159A	CLOSED	RB 232/SW CNR/CRD PUMP RM
		4	CRD/V3-156A	OPEN	RB 232/SW CNR/CRD PUMP RM
		5	CRD/V3-157A	OPEN	RB 232/SW CNR/CRD PUMP RM

Continued on Continuation Sheet

Ground Tags Issued Local Permissive Test Tags Issued

Switching and Tagging Order Change Sys Drained, Depress'd, Vented
(UND94006OP2)

Secondary Containment Second Level Review By: _____

Order Issued By: _____ / _____ / _____
Control Authority Date Time

Order Executed By: _____ Verif. By: _____

Safety Supervisor: _____

Workmen Notified Block Tagging Order Maintenance Rule Entry ___ Yes ___ No

Work Party Leaders	Comp. Worked	Signature(Work Start)	Date	Signature*(Work Compltd.)	Date

Remarks/Special Conditions Relative to Clearance:

* Note if tags are double cleared.