Facility: Vermont Yankee
Examination Level (circle one): RO / SRO
Date of Examination: Aug 12, 2002
Operating Test Number: 1

Administrative Topic/Subject Description		Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions
A.1	Short Term Information	JPM - Respond to an NRC "Credible Threat" Notification.
		K&A-2.1.15, RO-2.3, SRO-3.0
	Fuel Handling	JPM – Determine if Fuel Handling Can Continue With Inoperable SRMs.
		K&A-2.1.9, RO-2.5, SRO-4.0
A.2	Surveillance Testing	JPM – Review Completed Surveillance and Take Action for Out of Spec Data
		K&A-2.2.12, RO-3.0, SRO-3.4
A.3	Knowledge of Significant Radiation Hazards	JPM – Locate and Determine Radiological Conditions for Inspection of Valve
		K&A-2.3.10, RO-2.9, SRO-3.3
A.4	Emergency Action Levels and Classifications	JPM – Classify an Event Based Upon Simulated Plant Conditions
		K&A-2.4.41, RO-2.3, SRO-4.1

VERMONT YANKEE
JOB PERFORMANCE MEASURE
WORKSHEET

Task Identification:

Title: Respond to NRC "Credible Threat Notification"
Reference: SO-2001041R1-110801
Task Number: 34472704

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

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: 10 minutes

Evaluation Results:

Performance: PASS __ FAIL __ Time Required: _____

Prepared by: _____ 6/24/02
Operations Training Instructor Date

Reviewed by: _____ 6/27/02
SRO Licensed/Certified Reviewer Date

Approved by: _____ 6/27/02
Operations Training Manager 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:

You are the Shift Supervisor. The plant has just received a phone call from the NRC Headquarters Operations Center. They have issued a "Credible Threat" warning for Vermont Yankee. The call was received 5 minutes ago.

Initiating Cues:

You are to respond to the NRC notification of a site specific credible threat. You are to use extension 2151 for ALL phone calls.

Task Standards:

Notify Security of threat and classifies the event.

Required Materials:

SO-2001041R1_110801
SS Log
AP 3125, Emergency Plan Classification and Action Level Scheme
AP 0156, Notification of Significant Events

Simulator Setup:

Any IC

Evaluation **Performance Steps**

TIME START: _____

SAT/UNSAT **Step 1: Obtain Standing Order**

Standard: Obtains Standing Order SO-2001041R1_110801

Note: Monitor examinee's use of phone to insure he only dials 2151 as per initiating cue.

SAT/UNSAT **Step 2: Confirm Threat**

Standard: Utilizing AP 0156, Appendix D, Step 1, calls the NRC to verify threat.

Interim Cue: As the NRC, state your name and confirm the threat notification was made to Vermont Yankee 5 minutes ago (provide an actual time).

SAT/UNSAT **Step 3: Obtain Information**

Standard: Obtains information regarding the type and time of expected threat.

Interim Cue: The threat is a suspected car bomb. The threat is expected to occur anytime in the next 24 hours. If asked, you do not wish to maintain an open line.

SAT/UNSAT ***Step 4: Notify Security Shift Supervisor (SSS)**

Standard: Notify Security Shift Supervisor that an NRC site specific "Credible Threat" has been received.

Interim Cue: As the SSS, acknowledge communication.

SAT/UNSAT **Step 5: Make Log Entries**

Standard: In the SS log, enters: NRC contacts name, time of initial notification and verification of threat. Does NOT log the specific nature of threat.

SAT/UNSAT ***Step 6: Make E-Plan Classification**

Standard: Classifies event as an Unusual Event (U-9-a)

Interim Cue: For the purposes of this JPM, you have completed your task.

---

* Critical Step

TIME FINISH: _____

Terminating Cue: SSS has been notified and the event has been classified.

Evaluator Comments: _____

System Specific K/A's: N/A

System Generic K/A's: 2.1.15 (2.3/3.0)

EXAMINEE HANDOUT

Initial Conditions:

You are the Shift Supervisor. The plant has just received a phone call from the NRC Headquarters Operations Center. They have issued a "Credible Threat" warning for Vermont Yankee. The call was received 5 minutes ago.

Initiating Cues:

You are to respond to the NRC notification of a site specific credible threat. You are to use extension 2151 for ALL phone calls.

VERMONT YANKEE
JOB PERFORMANCE MEASURE
WORKSHEET

Task Identification:

Title: Determine if Fuel Handling Can Continue with Inoperable SRMs
Reference: Technical Specifications
Task Number: 34103203

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

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: _10 minutes_

Evaluation Results:

Performance: PASS ___ FAIL ___ Time Required: _____

Prepared by: _____ 6/26/02
Operations Training Instructor — Date

Reviewed by: _____ 6/27/02
SRO Licensed/Certified Reviewer — Date

Approved by: _____ 6/27/02
Operations Training Manager — 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.

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:

You are the SS in a refueling outage. All control rods are operable and inserted. The next planned fuel move is to remove the 4 fuel bundles around control rod 30-31. The daily surveillance of the SRMs is underway per OP 4102. SRM D and C have been declared inoperable. All other SRMs are operable.

Initiating Cues:

You are to determine if the bundles around rod 30-31 can be moved with the SRMs C and D inoperable.

Task Standards:

Determines fuel movement may continue

Required Materials:

OP 2130, Source Range Monitoring System
OP 4102, Refuel Outage/Fuel Movement Periodic Tests
Technical Specifications

Simulator Setup:

If simulator used, any refueling IC

Evaluation **Performance Steps**

TIME START: _____

SAT/UNSAT **Step 1:Determine quadrant locations**

Standard: Utilizing OP 4102, Figure 1, or OP 2130 Figure 1, or Full Core Display determines bundles for rod 30-031 are in the "A" SRM quadrant.

SAT/UNSAT ***Step 2:** **Determine Tech Spec requirements**

Standard: Utilizing Tech Specs Section 3.12.B determines fuel moves can continue.

* Critical Step

TIME FINISH: _____

Terminating Cue: Determination made that fuel movement can continue.

Evaluator Comments: _____

_____

_____

_____

_____

_____

_____

_____

_____

_____

System Specific K/A's: N/A

System Generic K/A's: 2.1.9 (2.5/4.0)

EXAMINEE HANDOUT

Initial Conditions:

You are the SS in a refueling outage. All control rods are operable and inserted. The next planned fuel move is to remove the 4 fuel bundles around control rod 30-31. The daily surveillance of the SRMs is underway per OP 4102. SRM C and D have been declared inoperable. All other SRMs are operable.

Initiating Cues:

You are to determine if the bundles around rod 30-31 can be moved with the SRMs C and D inoperable.

VERMONT YANKEE
JOB PERFORMANCE MEASURE
WORKSHEET

Task Identification:

Title: Review Completed Surveillance and Take Action for Out of Spec Data
Reference: OP 4124, Residual Heat Removal System Surveillance Procedure
Task Number: 3420260302/03

Task Performance: AO/RO/SRO ___ RO/SRO Only _X_ SE 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 _X_ Simulator _X_ Plant _X_

Performance Expected Completion Time: 10 minutes

Evaluation Results:

Performance: PASS ___ FAIL ___ Time Required: _____

Prepared by: _____ 6/26/02
Operations Training Instructor — Date

Reviewed by: _____ 6/27/02
SRO Licensed/Certified Reviewer — Date

Approved by: _____ 6/27/02
Operations Training Manager — 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.

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:

You are the Shift Supervisor. The plant is at 100% power. All equipment is operable.

Initiating Cues:

Review the provided surveillance data as Shift Supervisor.

Task Standards:

Out of Spec opening time for RHR-27A valve noted on surveillance; 7-day LCO identified per TS 3/5/A/4/b

Required Materials:

OP 4124, Residual Heat Removal System Surveillance Procedure (latest revision)
VYOPF 4124.01, RHR Valve Operability Test (latest revision) filled in with an Out of Spec opening time for RHR-27A
VY Technical Specifications

Simulator Setup:

N/A

Evaluation **Performance Steps**

TIME START: _____

SAT/UNSAT **Step 1:Obtain completed surveillance data from OP 4124**

Standard: VYOPF 4124.01 obtained

Interim Cue: Provide completed VYOPF 4124.01 for RHR Loop "A"

SAT/UNSAT ***Step 2: Review data**

Standard: Identifies RHR-27A opening time Out of Spec

SAT/UNSAT **Step 3:Review Acceptance Criteria**

Standard: Determines RHR-27A opening time fails Acceptance Criteria 2

SAT/UNSAT ***Step 4: Declares RHR-27A inoperable**

Standard: Determines 7 day LCO in effect per TS 3.5.A.4.b

* Critical Step

TIME FINISH: _____

Terminating Cue: Valve opening time identified as Out of Spec and correct LCO entered

Evaluator Comments: _____

System Specific K/A's: N/A

System Generic K/A's: 2.2.12 (3.0/3.4)

EXAMINEE HANDOUT

Initial Conditions:

You are the Shift Supervisor. The plant is at 100% power. All equipment is operable.

Initiating Cues:

Review the provided surveillance data and sign as Shift Supervisor.

VERMONT YANKEE
JOB PERFORMANCE MEASURE
WORKSHEET

Task Identification:

Title: Locate and Determine Radiological Conditions for Inspection of Valve
Reference: OP 4530, Dose Rate Radiation Surveys
Task Number: 508016

Task Performance: AO/RO/SRO ___ RO/SRO Only _X_ SE Only ___

Sequence Critical: Yes ___ No _X_

Time Critical: Yes ___ No _X_

Individual Performing Task: _____

Examiner: _____

Date of Evaluation: _____

Activity Code: _____

Method of Testing: Simulation _X_ Performance ___ Discuss __

Setting: Classroom ___ Simulator ___ Plant _X_

Performance Expected Completion Time: 10 minutes

Evaluation Results:

Performance: PASS ___ FAIL ___ Time Required: _____

Prepared by: _____ 6/26/02
Operations Training Instructor — Date

Reviewed by: _____ 6/27/02
SRO Licensed/Certified Reviewer — Date

Approved by: _____ 6/27/02
Operations Training Manager — 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** the 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 previous shift prepared the "A" RCU Pump for startup in preparation for swapping operating pumps per OP 2112, Section B
- Abnormal indications were observed during the initial start attempt of RCU Pump "A"
- You have requested that an AO verify the position of CU-29A (RCU Pump "A" discharge valve)

Initiating Cues:

Utilizing plant reference materials and posted surveys, you are to determine:

- The locations of CU-29A
- The general area where the AO should position himself in the room when not performing valve manipulations

Task Standards:

The valve is located in the "A" RWCU Pump room with the area around the Step Off Pad having the lowest dose rate.

Required Materials:

- OP 2112, Reactor Water Cleanup System (latest revision)
- RWCU "A" Pump Room Survey Map
- OP 4530, Dose Rate Radiation Surveys (latest revision)

Simulator Setup: N/A

Evaluation **Performance Steps**

TIME START: _____

SAT/UNSAT ***Step 1:** **Determine location of valve**

Standard: Determines CU-29A is located in RCU Pump A room

Note: OP 2112 (Section A), EMPAC database, Isometric prints or other plant reference material may be used to determine location.

SAT/UNSAT ***Step 2:** **Locate Survey Map**

Standard: Locate the "A" RCU pump room survey map in the RCA exit area

---

Interim Cue: When survey map is located, provide the attached survey map. Inform examinee this is the latest survey map for the room.

SAT/UNSAT ***Step 3:** **Determine Low Dose Area**

Standard: Utilizing survey map, determines the area near the Step Off Pad (SOP) has the lowest dose (30mr/hr)

* Critical Step

TIME FINISH: _____

Terminating Cue: Valve located in the "A" RWCU Pump room with the SOP area having the lowest dose rate.

Evaluator Comments: _____

System Specific K/A's: N/A

System Generic K/A's: 2.3.10 (2.9/3.3)

EXAMINEE HANDOUT

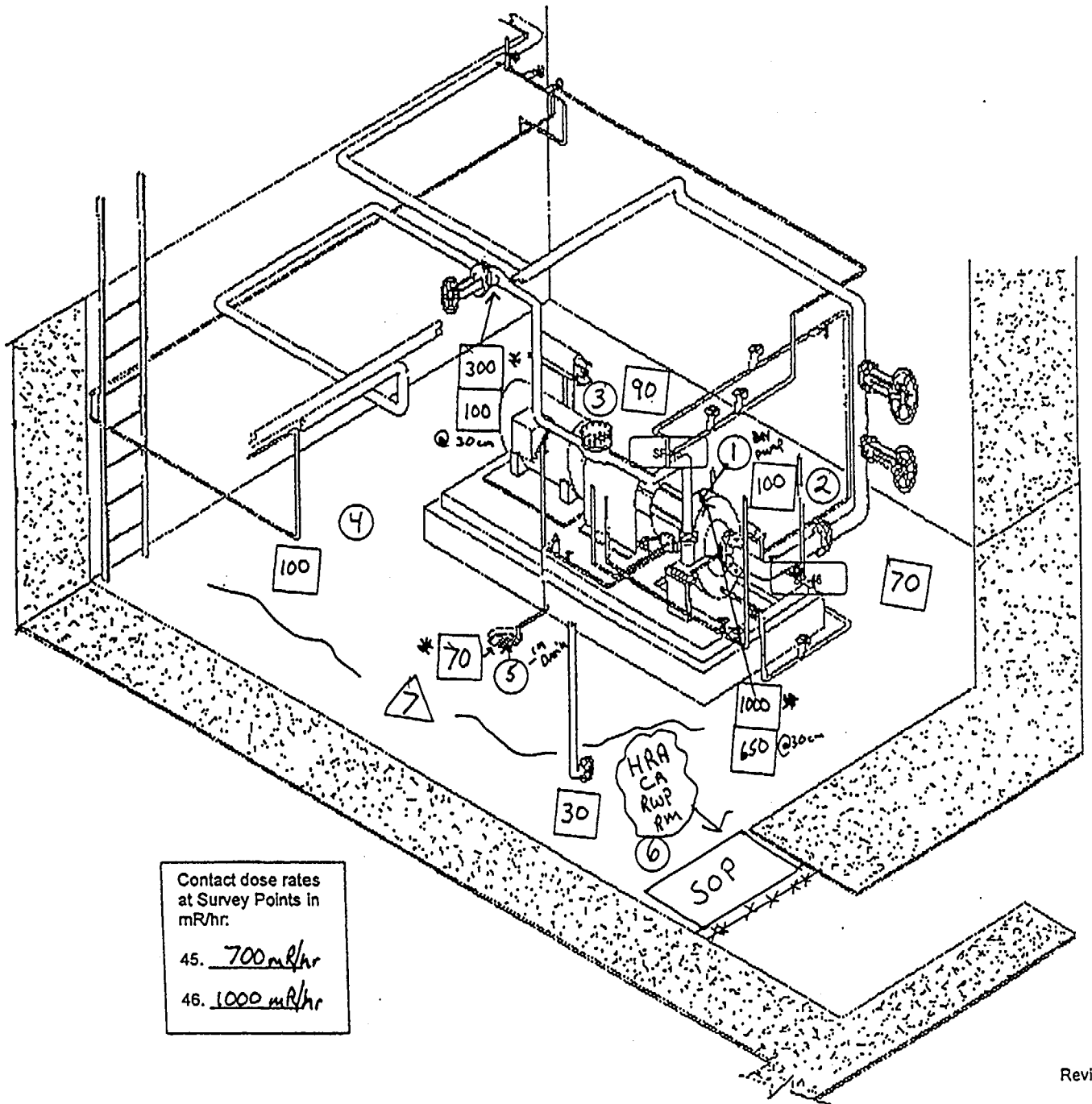
Initial Conditions:

- The previous shift prepared the "A" RCU Pump for startup in preparation for swapping operating pumps per OP 2112, Section B
- Abnormal indications were observed during the initial start attempt of RCU Pump "A"
- You have requested that an AO verify the position of CU-29A (RCU Pump "A" discharge valve)

Initiating Cues:

Utilizing plant reference materials and posted surveys, you are to determine:

- The locations of CU-29A
- The general area where the AO should position himself in the room when not performing valve manipulations



Contact dose rates at Survey Points in mR/hr:

45. 700 mR/hr

46. 1000 mR/hr

Survey Logbook # 502 . 5335		
Survey Log ID: RB 280 E RWCU A Pump Room		
DATE: 3-18-02	TIME: 1400	
Power level:	100%	
RWP: 02-00002 / 02-00010		
Instrument(s)	Serial number	Cal due date
RO-20	3059	7·02
L-1000	157591	9·02
L-1000	119248	11·02
N/A	N/A	N/A

Contamination Data
1. DPM/100CM² unless otherwise noted
2. LAS in CCPM

Smear #	Results	Smear #	Results
1.	4.5 K	13.	N/A
2.	4.1 K	14.	
3.	5.8K	15.	
4.	8.1 K	16.	
5.	5K	17.	
6.	2K	18.	
7.	20,000 (LAS)	19.	
8.	N/A	20.	
9.		21.	
10.		22.	
11.		23.	
12.		24.	

Alpha Smears #	Results	#	Results
1	< MDC		N/A
4	< MDC		N/A
Air sample results		N/A	mR/hr.

- ☐ Routine
- ☒ Job Coverage
- ☐ Pre-Job
- ☐ System Breach
- ☐ Pre-decon
- ☐ Post decon
- ☐ Other (note type)

Surveyor(s):
Print Name: Michael D Brown / DW Rose
Signature:
Remarks: Pump Running Vibration Readings

Reviewed by:

VERMONT YANKEE
JOB PERFORMANCE MEASURE
WORKSHEET

Task Identification:

Title: Classify Event Based Upon Simulated Plant Conditions
Reference: AP 3125, Emergency Plan Classification and Action Level Scheme
Task Number: 3440190302/03

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

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: _5 minutes_

Evaluation Results:

Performance: PASS ___ FAIL ___ Time Required: _____

Prepared by: _____ 4/16/02
Operations Training Instructor — Date

Reviewed by: _____ 6/27/02
SRO Licensed/Certified Reviewer — Date

Approved by: _____ 6/27/02
Operations Training Manager — 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:

The Shift Supervisor has asked you to classify the event.

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:

Place the simulator in FREEZE after running the Initial NRC Exam (scheduled for the week of Aug 12, 2002)

Evaluation **Performance Steps**

TIME START: _____

SAT/UNSAT **Step 1:** **Review plant conditions**

Standard: Applicant reviews annunciators and control room indication

SAT/UNSAT ***Step 2:** **Classify Event**

Standard: Using AP 3125, Appendix A, applicant declares an Alert based upon A-3-a or A-3-b

* Critical Step

TIME FINISH: _____

Terminating Cue: Event classification complete.

Evaluator Comments: _____

_____

_____

_____

_____

_____

_____

_____

_____

_____

System Specific K/A's: N/A

System Generic K/A's: 2.4.41 (2.3/4.1)

EXAMINEE HANDOUT

Initial Conditions:

Simulated plant conditions following scenario with simulator in FREEZE.

Initiating Cues:

The Shift Supervisor has asked you to classify the event.