JOB PERFORMANCE MEASURE APPROVAL SHEET

I. JPM Title: Evaluate Technical Specifications and Technical Requirements

JPM ID Number: NRC SRO A.1.1 Revision: 0

II. Initiated:

D. Minnich — 12/28/06
Developer — Date

III. Reviewed:

Martin — 1/24/7
Technical Reviewer — Date

IV. Approved:

N/A
Cognizant Plant Supervisor (optional) — Date

1/24/07
Nuclear Training Supervisor — Date

JOB PERFORMANCE MEASURE APPROVAL SHEET

SUMMARY OF CHANGE(S)

Date	Chg/Rev	Description

JOB PERFORMANCE MEASURE GUIDE

Facility: Millstone Unit 3

JPM ID Number: NRC A.1.1 Revision: 0

Task Title: Evaluate Technical Specifications and Technical Requirements

System: NA

Time Critical Task: ( ) YES (X) NO

Validated Time (minutes): 10

Task Number(s): 119-03-003

Applicable To: SRO X RO _____ PEO _____

K/A Number: GEN 2.1.12 K/A Rating: 2.9 / 4.0

Method of Testing: Simulated Performance: _____ Actual Performance: X

Location: Classroom: X Simulator: _____ In-Plant: _____

Task Standards: Correctly determine applicable Technical Specifications and Technical Requirements.

Required Materials: Unit 3 Technical Specifications, Technical Requirements Manual

General References: Unit 3 Technical Specifications, Technical Requirements

*****READ TO THE STUDENT*****

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objectives for this JPM will be satisfied. You may use any approved reference material normally available in the Control Room, including logs. Make all written reports, oral reports, alarm acknowledgements, and log entries as if the evolution was actually being performed.

JPM Number: NRC SRO A.1.1 Revision: 0

Simulator Requirements: None

Initial Conditions: The plant was at 100% power with charging and letdown in a normal lineup. The "B" Charging pump tripped on overcurrent. The crew is completing the actions in EOP 3506, "Loss Of All Charging Pumps." The "A" charging pump is now running. The "C" charging pump is not yet aligned to the "B" train.

Initiating Cues: The SM has directed you to determine the applicable Technical Specifications and Technical Requirements for the present plant condition. Keep a rough log of any applicable LCOs.

**** **NOTES TO EVALUATOR** ****

1. Critical steps for this JPM are indicated by an "X" after the step number. For the student to achieve a satisfactory grade, **ALL** critical steps must be completed correctly. The students performance is graded by an "S" for satisfactory or a "U" for unsatisfactory on each step.

2. When the student states what his/her simulated action/observation would be, read the appropriate "Cue".

3. If necessary, question the student for details of simulated actions/observations (i.e. "What are you looking at?" or "What are you observing?").

PERFORMANCE INFORMATION

JPM Number: NRC SRO A.1.1 Revision: 0

Task Title: Evaluate Technical Specifications and Technical Requirements

Start Time: _____

STEP	1		**Performance Step:**	Obtain copy of MP3 Technical Specifications and MP3 Technical Requirements manual.
GRADE			**Standards:**	Obtains proper copies.
			Grade:	**SAT** _____ **UNSAT** _____
STEP	2	X	**Performance Step:**	**Determine the applicable Technical Specifications.**
GRADE			**Standards:**	Refers to T/S 3.5.2, ECCS Subsystems – Tavg Greater Than or Equal to 350°F.
GRADE		X	**Standards:**	Recognizes that T/S 3.5.2 applies and enters LCO 3.5.2, ACTION a. (72 hour allowed outage time)
GRADE			**Standards:**	Records applicable LCO in rough log.
			Grade:	**SAT** _____ **UNSAT** _____
STEP	3	X	**Performance Step:**	**Determine the applicable Technical Requirements.**
GRADE			**Standards:**	Refers to T/R 3.1.2.2, Boration Systems Flow Paths – Operating.
GRADE		X	**Standards:**	Recognizes that T/R 3.1.2.2 applies and enters LCO 3.1.2.2, ACTION 1. (72 hour allowed outage time)
GRADE			**Standards:**	Records applicable LCO in rough log.
			Grade:	**SAT** _____ **UNSAT** _____
GRADE			**Standards:**	Refers to T/R 3.1.2.4, Boration Systems - Charging Pump – Operating.

PERFORMANCE INFORMATION

JPM Number: NRC SRO A.1.1 Revision: 0

Task Title: Evaluate Technical Specifications and Technical Requirements

GRADE	____	X	**Standards:**	Recognizes that T/R 3.1.2.4 applies and enters LCO 3.1.2.4. (72 hour allowed outage time)
GRADE	____	____	**Standards:**	Records applicable LCO in rough log.
			Grade:	**SAT** _____ **UNSAT** _____
GRADE	____	____	**Standards:**	Refers to T/R 7.4.1, Fire Related Safe Shutdown Components.
GRADE	____	X	**Standards:**	Recognizes that T/R 7.4.1 applies and enters LCO 7.4.1, ACTION a.1 and a.3. (14 and 30 day allowed outage time respectively)
			NOTE:	"B" Charging Pump is a listed component on TRM Table 7.4-1. If a component listed on the Table is inoperable, LCO 7.4.1 Action a applies.
GRADE	____	____	**Standards:**	Records applicable LCO in rough log.
			Grade:	**SAT** _____ **UNSAT** _____
STEP	____	____	**Performance Step:**	NA
GRADE	____	____	**Standards:**	Candidate informs the SM that all applicable Technical Specifications and Technical Requirements have been entered for current plant conditions.
			Grade:	**SAT** _____ **UNSAT** _____
			CUE:	**The evaluation for this JPM is complete**

Stop Time: _____

VERIFICATION OF JPM COMPLETION

JPM Number: NRC SRO A.1.1 Revision: 0

Date Performed: _____

Student: _____

Evaluator: _____

For the student to achieve a satisfactory grade, **ALL** critical steps must be completed correctly. If task is Time Critical, it **MUST** be completed within the specified time to achieve a satisfactory grade.

Time Critical Task? YES _____ NO X

Validated Time (minutes): 10

Actual Time to Complete (minutes): _____

Result of JPM: _____ ("S" for satisfactory, "U" for unsatisfactory)

Result of oral questions (if applicable):

Number of Questions: _____

Number of Correct Responses: _____

Score: _____

Areas for Improvement:

STUDENT HANDOUT

JPM Number: **NRC SRO A.1.1**

Initial Conditions: The plant was at 100% power with charging and letdown in a normal lineup. The "B" Charging pump tripped on overcurrent. The crew is completing the actions in EOP 3506, "Loss Of All Charging Pumps." The "A" charging pump is now running. The "C" charging pump is not yet aligned to the "B" train.

Initiating Cues: The SM has directed you to determine the applicable Technical Specifications and Technical Requirements for the present plant condition. Keep a rough log of any applicable LCOs.

JOB PERFORMANCE MEASURE APPROVAL SHEET

I. JPM Title: Notifications and Reportability.

JPM ID Number: NRC SRO A.1.2 Revision: 0

II. Initiated:

D. Minnich [signature] 1/10/07
Developer Date

III. Reviewed:

[signature] 1/24/7
Technical Reviewer Date

IV. Approved:

N/A
Cognizant Plant Supervisor (optional) Date

[signature] 1/24/07
Nuclear Training Supervisor Date

JOB PERFORMANCE MEASURE APPROVAL SHEET

SUMMARY OF CHANGE(S)

Date	Chg/Rev	Description

JOB PERFORMANCE MEASURE GUIDE

Facility: Millstone Unit 3

JPM ID Number: NRC SRO A.1.2 Revision: 0

Task Title: Notifications and Reportability.

System: N/A

Time Critical Task: ( ) YES (X) NO

Validated Time (minutes): 10

Task Number(s): 301-05-366

Applicable To: SRO X RO _____ PEO _____

K/A Number: 2.1.6 K/A Rating: 4.3

Method of Testing: Simulated Performance: _____ Actual Performance: X

Location: Classroom: X Simulator: _____ In-Plant: _____

Task Standards: Determine the proper notifications and event reporting requirements given a particular event.

Required Materials: RAC 14, *Non-Emergency Station Events*

General References: RAC 05, *Reportability Determinations and Licensee Event Reports*
10CFR50.72 / .73

*****READ TO THE STUDENT*****

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objectives for this JPM will be satisfied. You may use any approved reference material normally available in the Control Room, including logs. Make all written reports, oral reports, alarm acknowledgements, and log entries as if the evolution was actually being performed.

JPM Number: NRC SRO A.1.2 Revision: 0

Simulator Requirements: None

Initial Conditions: The plant is at 100% power, and you are the Extra Senior Licensed Operator on shift. 10 minutes ago, a maintenance technician was injured while working in a contaminated area in the Waste Disposal Building. The work area has been placed in a safe condition. The worker's injuries are severe and treatment is required at Lawrence and Memorial hospital. The worker is also contaminated. The worker is stabilized, ready for transport and the ambulance is enroute.

Initiating Cues: The SM has directed you to determine the NRC and State reporting requirements associated with this event.

****** NOTES TO EVALUATOR ******

1. Critical steps for this JPM are indicated by an "X" after the step number. For the student to achieve a satisfactory grade, **ALL** critical steps must be completed correctly. The students performance is graded by an "S" for satisfactory or a "U" for unsatisfactory on each step.

2. When the student states what his/her simulated action/observation would be, read the appropriate "Cue".

3. If necessary, question the student for details of simulated actions/observations (i.e. "What are you looking at?" or "What are you observing?").

PERFORMANCE INFORMATION

JPM Number: NRC SRO A.1.2 Revision: 0

Task Title: Notifications and Reportability.

Start Time: _____

STEP	1		**Performance Step:**	Obtains proper procedure.
GRADE			**Standards:**	Obtains and refers to a copy of RAC 14, *Non-Emergency Station Events.*
			Grade:	**SAT** _____ **UNSAT** _____
STEP	2		**Performance Step:** RAC 14, Section 3	Review Precautions.
GRADE			**Standards:**	Applicant reviews precautions 3.1 through 3.8.
			Grade:	**SAT** _____ **UNSAT** _____
STEP	3		**Performance Step:** RAC 14, step 4.1.1.a	**Initial Event Reportability Determination** IF sufficient cause exists for reporting a non-emergency event, PERFORM the following: a. ANALYZE available information and DEVELOP a general understanding of event in progress.
GRADE			**Standards:**	Applicant recognizes that cause exists for reporting this event.
			Evaluator NOTE:	If the applicant requests additional event related information beyond the initial conditions provide the following cue:
			CUE:	A representative from Site Fire Protection and Health physics will brief you shortly on the specific injuries.
			Grade:	**SAT** _____ **UNSAT** _____

PERFORMANCE INFORMATION

JPM Number: NRC SRO A.1.2 Revision: 0

Task Title: Notifications and Reportability.

STEP	4	____	**Performance Step:** RAC 14, step 4.1.1.b	ASSIGN staff to collect and track information.
GRADE	____	____	**Standards:**	Applicant requests additional staff.
			Evaluator NOTE:	If the applicant requests additional personnel to track the event provide the following cue:
			CUE:	No additional staff is presently available.
			Grade:	**SAT** _____ **UNSAT** _____
STEP	5	____	**Performance Step:** RAC 14, step 4.1.1.c	IF necessary, REQUEST assistance from any of the following, as applicable, to determine reportability and respond to event:
GRADE	____	____	**Standards:**	Requests assistance as necessary.
			Evaluator NOTE:	If the applicant requests additional assistance provide the following cue:
			CUE:	Additional assistance will be available shortly.
			Grade:	**SAT** _____ **UNSAT** _____
STEP	6	____	**Performance Step:** RAC 14, step 4.1.1.d	As required, REQUEST Station Duty Officer (typically the non-affected unit STA) and Emergency Communicator (typically the non-affected unit WC SRO) report to the Control Room and prepare to send a Non Emergency Event Report.
GRADE	____	____	**Standards:**	Applicant calls Unit 2 and requests the Station Duty Officer and Emergency Communicator report to the Unit 3 Control Room.
			Grade:	**SAT** **UNSAT**

PERFORMANCE INFORMATION

JPM Number: NRC SRO A.1.2 Revision: 0

Task Title: Notifications and Reportability.

Evaluator NOTE: RAC 14, steps 4.1.1.e through 4.1.1.i pertain to event types NOT related to the event in progress. The applicant should recognize that these steps do not apply and move to step 4.1.1.j.

STEP	7	X	**Performance Step:** RAC 14, step 4.1.1.J	For all events, Refer To appropriate Attachment 1 through 7 and DETERMINE State and NRC reporting requirements.
GRADE	____	X	**Standards:**	Applicant refers to Attachments 1 through 7 and determines that Attachment 2, "Radiological Events", is the applicable attachment.
			Grade:	**SAT** _____ **UNSAT** _____
GRADE	____	X	**Standards:**	Applicant matches the event in progress with the following event description in attachment 2: "An event requiring the transport of a radioactively contaminated person to an offsite medical facility for treatment."
			Grade:	**SAT** _____ **UNSAT** _____
GRADE	____	X	**Standards:**	Applicant correctly determines the NRC Reporting Requirement for the event is as follows: **"Within 8 hours via ENS"** (10CFR50.72(b)(3))
			Grade:	**SAT** _____ **UNSAT** _____
GRADE	____	____	**Standards:**	Applicant correctly determines the State posture code for the event is an **"Echo"**.

PERFORMANCE INFORMATION

JPM Number: NRC SRO A.1.2 Revision: 0

Task Title: Notifications and Reportability.

			Grade:	**SAT** _____ **UNSAT** _____
GRADE	____	X	**Standards:**	Applicant correctly determines the State Reporting Requirement for the event is as follows: **"Within 1 hour of report to NRC"** (State Reg. 22a-135-1)
			Grade:	**SAT** _____ **UNSAT** _____
			Evaluator NOTE:	For this Event, Attachment 2 list NOTES 1, 2 and 3 to reference in Attachment 7. The Applicant should review these notes for applicability.
STEP	8	____	**Performance Step:** RAC 14, Att 7 **NOTE 1**	Refer To Attachment 15 for additional notifications.
GRADE	____	____	**Standards:**	Applicant reviews NOTE 1 and refers to Attachment 15.
			Grade:	**SAT** _____ **UNSAT** _____
GRADE	____	____	**Standards:**	Applicant determines the following additional notifications are required for Transport of Contaminated Injured Person: Refer To C OP 200.3, "Response to Medical Emergencies" (Cont./Injured Person Off-site) Required: a. Site Fire Protection personnel (EMTs) b. Health Physics Technician c. Security Shift Supervisor d. Waterford Ambulance (911) e. Lawrence and Memorial Hospital List f. Middlesex Hospital List (Alternate)
			CUE:	These notifications have already been made.

PERFORMANCE INFORMATION

JPM Number: NRC SRO A.1.2 Revision: 0

Task Title: Notifications and Reportability.

			Grade:	**SAT** _____ **UNSAT** _____
STEP	9	____	**Performance Step:** RAC 14, Att 7 **NOTE 2**	In the event of an incident involving a fatality or serious injury, off-site release or contamination, and for planned excercise, a telephone notification within one (1) hour to American Nuclear Insurers (9-561-3433) is warranted.
GRADE	____	____	**Standards:**	Applicant reviews NOTE 2 and determines it applies.
			Grade:	**SAT** _____ **UNSAT** _____
GRADE	____	____	**Standards:**	Applicant directs the SDO to notify ANI of the event or the applicant initiates the call.
			Grade:	**SAT** _____ **UNSAT** _____
STEP	10	____	**Performance Step:** RAC 14, Att 7 **NOTE 3**	Follow-up notification. Telephone notifications made for non-emergency one (1), four (4), eight (8), and 24 hour events will require follow-up notifications .....
GRADE	____	____	**Standards:**	Applicant reviews NOTE 3 and determines that follow-up notifications may be required.
			Grade:	**SAT** _____ **UNSAT** _____
STEP	11	____	**Performance Step:** RAC 14, step 4.1.1.k	IF required, Refer To and PERFORM Section 4.7, "Radiopager Notifications."
GRADE	____	____	**Standards:**	Applicant refers to section 4.7.

PERFORMANCE INFORMATION

JPM Number: NRC SRO A.1.2 Revision: 0

Task Title: Notifications and Reportability.

Grade: **SAT** _____ **UNSAT** _____

CUE:	**The Emergency Communicator will prepare and send the Non Emergency Event Report and the Station Duty Officer will notify the NRC Resident and NRC Operations Center.** **The evaluation for this JPM is complete.**

Stop Time: _____

VERIFICATION OF JPM COMPLETION

JPM Number: NRC SRO A.1.2 Revision: 0

Date Performed: _____

Student: _____

Evaluator: _____

For the student to achieve a satisfactory grade, **ALL** critical steps must be completed correctly. If task is Time Critical, it **MUST** be completed within the specified time to achieve a satisfactory grade.

Time Critical Task? YES _____ NO X

Validated Time (minutes): 10

Actual Time to Complete (minutes): _____

Result of JPM: _____ ("S" for satisfactory, "U" for unsatisfactory)

Result of oral questions (if applicable):

Number of Questions: _____

Number of Correct Responses: _____

Score: _____

Areas for Improvement:

STUDENT HANDOUT

JPM Number: NRC SRO A.1.2

Initial Conditions: The plant is at 100% power, and you are the Extra Senior Licensed Operator on shift. 10 minutes ago, a maintenance technician was injured while working in a contaminated area in the Waste Disposal Building. The work area has been placed in a safe condition. The worker's injuries are severe and treatment is required at Lawrence and Memorial hospital. The worker is also contaminated. The worker is stabilized, ready for transport and the ambulance is enroute.

Initiating Cues: **The SM has directed you to determine the NRC and State reporting requirements associated with this event.**

JOB PERFORMANCE MEASURE APPROVAL SHEET

I. JPM Title: Response to Door Inoperability.

JPM ID Number: NRC SRO A.2 Revision: 0

II. Initiated:

D. Minnich — 1/9/07
Developer — Date

III. Reviewed:

Martin — 1/24/7
Technical Reviewer — Date

IV. Approved:

N/A
Cognizant Plant Supervisor (optional) — Date

Nuclear Training Supervisor — 1/24/07
Date

JOB PERFORMANCE MEASURE APPROVAL SHEET

SUMMARY OF CHANGE(S)

Date	Chg/Rev	Description

JOB PERFORMANCE MEASURE GUIDE

Facility: Millstone Unit 3

JPM ID Number: NRC SRO A.2 Revision: 0

Task Title: Response to Door Inoperability.

System: N/A

Time Critical Task: ( ) YES (X) NO

Validated Time (minutes): 20

Task Number(s): 341-01-014

Applicable To: SRO X RO _____ PEO _____

K/A Number: 2.2.21 K/A Rating: 2.3 / 3.5

Method of Testing: Simulated Performance: _____ Actual Performance: X

Location: Classroom: X Simulator: _____ In-Plant: _____

Task Standards: Correctly determine the required actions for an INOPERABLE MP3 door.

Required Materials: OP 3261, Response to Door Inoperability

General References: Unit 3 Technical Specifications, Technical Requirements

*****READ TO THE STUDENT*****

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objectives for this JPM will be satisfied. You may use any approved reference material normally available in the Control Room, including logs. Make all written reports, oral reports, alarm acknowledgements, and log entries as if the evolution was actually being performed.

JPM Number: NRC SRO A.2 Revision: 0

Simulator Requirements: None

Initial Conditions: The plant is at 100 % power and you are the Work Control SRO on shift. An emergent repair is required on the "A" RPCCW Heat Exchanger. Maintenance requires door A-24-4 be blocked open and have its center post removed, to move in equipment and scaffolding.

Initiating Cues: You are asked to determine any compensatory actions necessary before blocking open door A-24-4, and then to brief the SM.

**** **NOTES TO EVALUATOR** ****

1. Critical steps for this JPM are indicated by an "X" after the step number. For the student to achieve a satisfactory grade, **ALL** critical steps must be completed correctly. The students performance is graded by an "S" for satisfactory or a "U" for unsatisfactory on each step.

2. When the student states what his/her simulated action/observation would be, read the appropriate "Cue".

3. If necessary, question the student for details of simulated actions/observations (i.e. "What are you looking at?" or "What are you observing?").

PERFORMANCE INFORMATION

JPM Number: NRC SRO A.2 Revision: 0

Task Title: Response to Door Inoperability

Start Time: _____

STEP	1		**Performance Step:**	Obtains copy of OP 3261 "Response to Door Inoperability".
GRADE			**Standards:**	Obtains proper procedure.
			Grade:	**SAT** _____ **UNSAT** _____
STEP	2	X	**Performance Step:** OP 3261, step 1.1	Refer To Attachment 2, "Unit 3 Door Attributes," and DETERMINE applicable attributes to door in question.
GRADE		X	**Standards:**	Applicant refers to Attachment 2 and determines that for door A-24-4, the following attributes apply: • TRM Fire Door • Locked TRM Fire Door • SLCRS Door • Radiation Door
			Grade:	**SAT** _____ **UNSAT** _____
STEP	3		**Performance Step:** OP 3261, step 1.2	For doors listed as "Dual Train Protected Door," both trains are potentially impacted. A door with a D attribute will also have one or more other attributes. IF the compensatory actions of this procedure for the other attributes are met, train separation is not an issue ...
GRADE			**Standards:**	Applicant recognizes that door A-24-4 is NOT a Dual Train Protection Door, and moves on to OP 3261, step 1.3.
			Grade:	**SAT** _____ **UNSAT** _____

PERFORMANCE INFORMATION

JPM Number: NRC SRO A.2 Revision: 0

Task Title: Response to Door Inoperability

STEP	4	X	**Performance Step:** OP 3261, step 1.3.1	IF one of the following types of doors is not capable of performing its intended function, PERFORM the specified actions: IF door is a "TRM Related Fire Door," PERFORM the following: • Refer To TRM 3.7.13, "Fire Protection Systems, Fire Rated Assemblies," and PERFORM applicable actions. • Refer To the Shift Turnover Log and RECORD door status. • NOTIFY the Site Fire Protection Department.
GRADE	____	X	**Standards:**	Applicant recognizes that door A-24-4 is a TRM Related Fire Door and obtains and refers to TRM 3.7.13, "Fire Protection Systems, Fire Rated Assemblies,"
			Grade:	**SAT** _____ **UNSAT** _____
GRADE	____	X	**Standards:**	Recognizes that TRM 3.7.13 applies and it will be necessary to enter LCO 3.7.13, ACTION a. (1 hour allowed outage time)
			Grade:	**SAT** _____ **UNSAT** _____
GRADE	____	____	**Standards:**	Applicant logs in a rough log or otherwise states that door A-24-4 will be blocked open and needs to be recorded in the Shift Turnover Log.
			Evaluator NOTE:	The requirement to record door status in the Shift Turnover Log need only be done once.
			Grade:	**SAT** _____ **UNSAT** _____
GRADE	____	____	**Standards:**	Applicant notifies Site Fire Protection Department that door A-24-4 will be blocked open. Telephone call is adequate for this notification.
			CUE:	All notifications to Site Fire Protection are

PERFORMANCE INFORMATION

JPM Number: NRC SRO A.2 Revision: 0

Task Title: Response to Door Inoperability

complete.

Grade: **SAT** _____ **UNSAT** _____

STEP	5	____	**Performance Step:** OP 3261, step 1.3.2	IF door is a "Locked TRM Related Fire Door," PERFORM the following: • Refer To TRM 3.7.13, "Fire Protection Systems, Fire Rated Assemblies," and PERFORM applicable actions. • Refer To the Shift Turnover Log and RECORD door status. • IF the only action performed is to unlock door to provide temporary access .... • NOTIFY the Site Fire Protection Department.
GRADE	____	____	**Standards:**	Applicant recognizes door A-24-4 is a Locked TRM Related Fire Door, and that the door will NOT be just unlocked door to provide temporary access. Also recognizes that the other actions specified are redundant to the previous step.

Grade: **SAT** _____ **UNSAT** _____

STEP	6	____	**Performance Step:** OP 3261, step 1.3.3	IF door is a non-TRM fire door, NOTIFY the Site Fire Protection Department.
GRADE	____	____	**Standards:**	Applicant recognizes that door A-24-4 is not a non-TRM Fire Door and moves on to OP 3261, step 1.3.4.

Grade: **SAT** _____ **UNSAT** _____

PERFORMANCE INFORMATION

JPM Number: NRC SRO A.2 Revision: 0

Task Title: Response to Door Inoperability

STEP	7	X	**Performance Step:** OP 3261, step 1.3.4	IF door is a SLCRS door, PERFORM the following: a. Refer To T/S 3.6.6.2, "Containment Systems Secondary Containment," and PERFORM applicable actions. b. Refer To the Shift Turnover Log and RECORD door status. c. IF SLCRS door A-24-6 is inoperable AND crediting stairwell boundaries is desired, Refer To Attachment 3 and PERFORM listed actions to credit alternate barriers. d. IF alternate barriers are successfully credited, Refer To T/S 3.6.6.2, "Containment Systems Secondary Containment," for continued applicability and actions.
GRADE	____	X	**Standards:**	Applicant recognizes that door A-24-4 is a SLCRS Door and obtains and refers to T/S 3.6.6.2, "Containment Systems Secondary Containment."
			Grade:	**SAT** _____ **UNSAT** _____
GRADE	____	X	**Standards:**	Recognizes that T/S 3.6.6.2 applies and it will be necessary to enter the LCO 3.6.6.2 ACTION. (24 hour allowed outage time)
			Grade:	**SAT** _____ **UNSAT** _____
GRADE	____	____	**Standards:**	Applicant recognizes that alternate SLCRS barriers apply only to door A-24-6 and moves on to OP 3261, step 1.3.5.
			Grade:	**SAT** _____ **UNSAT** _____
STEP	8	____	**Performance Step:** OP 3261, step 1.3.5	IF door is a Control Room habitability door, PERFORM the following:
GRADE	____	____	**Standards:**	Applicant recognizes that door A-24-4 is

PERFORMANCE INFORMATION

JPM Number: NRC SRO A.2 Revision: 0

Task Title: Response to Door Inoperability

				not a Control Room habitability door and moves on to OP 3261, step 1.3.6.
			Grade:	**SAT** _____ **UNSAT** _____
STEP	9	____	**Performance Step:** OP 3261, step 1.3.6	IF door is a CO_2 boundary door, PERFORM the following:
GRADE	____	____	**Standards:**	Applicant recognizes that door A-24-4 is not a CO_2 boundary door and moves on to OP 3261, step 1.3.7.
			Grade:	**SAT** _____ **UNSAT** _____
STEP	10	____	**Performance Step:** OP 3261, step 1.3.7	IF door is a water and flooding boundary door, PERFORM the following:
GRADE	____	____	**Standards:**	Applicant recognizes that door A-24-4 is not a water and flooding boundary door and moves on to OP 3261, step 1.3.8.
			Grade:	**SAT** _____ **UNSAT** _____
STEP	11	____	**Performance Step:** OP 3261, step 1.3.8	IF door is a high energy line break boundary door (HELB), PERFORM the following:
GRADE	____	____	**Standards:**	Applicant recognizes that door A-24-4 is not a HELB boundary door and moves on to OP 3261, step 1.3.9.
			Grade:	**SAT** _____ **UNSAT** _____

PERFORMANCE INFORMATION

JPM Number: NRC SRO A.2 Revision: 0

Task Title: Response to Door Inoperability

STEP	12		**Performance Step:** OP 3261, step 1.3.9	IF door is a PRA HELB boundary door AND IF in MODEs 1 through 4, PERFORM the following:
GRADE			**Standards:**	Applicant recognizes that door A-24-4 is not a PRA HELB boundary door and moves on to OP 3261, step 1.3.10.
			Grade:	**SAT** _____ **UNSAT** _____
STEP	13		**Performance Step:** OP 3261, step 1.3.10	IF door is a tornado door ....
GRADE			**Standards:**	Applicant recognizes that door A-24-4 is not a tornado door and moves on to OP 3261, step 1.3.11.
			Grade:	**SAT** _____ **UNSAT** _____
STEP	14	X	**Performance Step:** OP 3261, step 1.3.11	IF door is a radiation boundary door, AND door is damaged OR to be removed for any reason, NOTIFY Health Physics Department.
GRADE		X	**Standards:**	Applicant recognizes that door A-24-4 is a radiation boundary door and notifies Health Physics Department that door A-24-4 will be blocked open. Telephone call is adequate for this notification.
			CUE:	All notifications to Health Physics are complete.
			Grade:	**SAT** _____ **UNSAT** _____

PERFORMANCE INFORMATION

JPM Number: NRC SRO A.2 Revision: 0

Task Title: Response to Door Inoperability

STEP 15 ____ **Performance Step:** OP 3261, step 1.3.12

IF door is a security door, PERFORM the following:

a. Refer To Attachment 1 for list of security door number cross references.

b. NOTIFY Security Department of problems with doors or expected maintenance.

GRADE ____ ____ **Standards:** Applicant recognizes that door A-24-4 is a security door and refers to Attachment 1 that the security door number is 306.

Grade: **SAT** _____ **UNSAT** _____

GRADE ____ ____ **Standards:** Applicant notifies Security Department that door 306 will be blocked open. Telephone call is adequate for this notification.

CUE: All notifications to Security are complete.

Grade: **SAT** _____ **UNSAT** _____

STEP 16 ____ **Performance Step:** OP 3261, step 1.3.13

IF door is a Fuel Building Integrity Boundary door PERFORM the following:

GRADE ____ ____ **Standards:** Applicant recognizes that door A-24-4 is not a Fuel Building Integrity Boundary door and moves on to OP 3261, step 1.3.14.

Grade: **SAT** _____ **UNSAT** _____

STEP 17 ____ **Performance Step:** OP 3261, step 1.3.14

IF door is a "Halon Door," PERFORM the following:

GRADE ____ ____ **Standards:** Applicant recognizes that door A-24-4 is not a Halon Door and moves on to OP 3261, step 1.3.15.

PERFORMANCE INFORMATION

JPM Number: NRC SRO A.2 Revision: 0

Task Title: Response to Door Inoperability

			Grade:	**SAT** _____ **UNSAT** _____
STEP	18	____	**Performance Step:** OP 3261, step 1.3.15	IF door is a "Technical Support Center Habitability Door," PERFORM the following:
GRADE	____	____	**Standards:**	Applicant recognizes that door A-24-4 is not a Technical Support Center Habitability Door.
			Grade:	**SAT** _____ **UNSAT** _____
STEP	19	____	**Performance Step:**	Applicant Reports Task Completion.
GRADE	____	____	**Standards:**	Applicant reports to the SM that the required compensatory actions necessary to take door A-24-4 out of service have been determined.

CUE: The evaluation for this JPM is complete.

Stop Time: _____

VERIFICATION OF JPM COMPLETION

JPM Number: NRC SRO A.2 Revision: 0

Date Performed: _____

Student: _____

Evaluator: _____

For the student to achieve a satisfactory grade, **ALL** critical steps must be completed correctly. If task is Time Critical, it **MUST** be completed within the specified time to achieve a satisfactory grade.

Time Critical Task? YES _____ NO X

Validated Time (minutes): 10

Actual Time to Complete (minutes): _____

Result of JPM: _____ ("S" for satisfactory, "U" for unsatisfactory)

Result of oral questions (if applicable):

Number of Questions: _____

Number of Correct Responses: _____

Score: _____

Areas for Improvement:

STUDENT HANDOUT

JPM Number: NRC SRO A.2

Initial Conditions: **The plant is at 100 % power and you are the Work Control SRO on shift. An emergent repair is required on the "A" RPCCW Heat Exchanger. Maintenance requires door A-24-4 be blocked open and have its center post removed, to move in equipment and scaffolding.**

Initiating Cues: **You are asked to determine any compensatory actions necessary before blocking open door A-24-4, and then to brief the SM.**

JOB PERFORMANCE MEASURE APPROVAL WORKSHEET

I. JPM Title: Review and Approve a Radioactive Liquid Waste Discharge Permit

JPM ID Number: NRC SRO A.3 Revision: 0 chg 1

II. Initiated:

Steve Jackson — 11/01/01
Developer — Date

III. Reviewed:

Ray Martin — 11/15/01
Technical Reviewer — Date

IV. Approved:

NA
Cognizant Plant Supervisor (optional) — Date

[signature]
Nuclear Training Supervisor — 1/24/07
Date

JOB PERFORMANCE MEASURE APPROVAL WORKSHEET

SUMMARY OF CHANGE(S)

Date	Chg/Rev	Description
1/19/07	0 chg 1	Revised JPM to update to revision 018 to OP 3335D, "Radioactive Liquid Waste System." DLM

JOB PERFORMANCE MEASURE GUIDE

Facility: Millstone Unit 3

JPM ID Number: NRC SRO A.3 Revision: 0 chg 1

Task Title: Review and Approve a Radioactive Liquid Waste Discharge Permit

System: Radioactive Liquid Waste System

Time Critical Task: ( ) YES (X) NO

Validated Time (minutes): 10

Task Number(s): 068-01-064, Discharge the contents of a Low Level Waste Drain Tank
068-03-001, Adhere to the requirements of the Radwaste Management Program

Applicable To: SRO X RO _____ PEO _____

K/A Number: GEN- 2.3.6 K/A Rating: 2.1/3.1

Method of Testing: Simulated Performance: X Actual Performance: X

Location: Classroom: _____ In-Plant: X Simulator: X

Task Standards: Review and Approve a Radioactive Liquid Waste Discharge Permit

Required Materials: OP 3335D, Radioactive Liquid Waste System
Liquid Discharge Permit
Screen Print of Rad Monitor LWS70-1

General References: None

*****READ TO THE STUDENT*****

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objectives for this JPM will be satisfied. You may use any approved reference material normally available in the Control Room, including logs. Make all written reports, oral reports, alarm acknowledgements, and log entries as if the evolution was actually being performed.

JOB PERFORMANCE MEASURE GUIDE (Continued)

JPM Number: NRC SRO A.3 Revision: 0 chg 1

Simulator Requirements: None

Initial Conditions: The unit is at 100% power with all systems in normal line-ups. The "A" and "B" Service Water pumps and all Circulating Water pumps are running.

Initiating Cues: The Radwaste PEO has presented OP 3335D sign off copy and a Liquid Discharge Permit for discharging the "A" Waste Test Tank to the Circulating Water discharge tunnel for your approval. Review and approve the permit and report to the examiner when complete.

****** NOTES TO EVALUATOR ******

1. Critical steps for this JPM are indicated by an "X" after the step number. For the student to achieve a satisfactory grade, **ALL** critical steps must be completed correctly. The students performance is graded by an "S" for satisfactory or a "U" for unsatisfactory on each step.

2. When the student states what his/her simulated action/observation would be, read the appropriate "Cue".

3. If necessary, question the student for details of simulated actions/observations (i.e. "What are you looking at?" or "What are you observing?").

PERFORMANCE INFORMATION

JPM Number: SRO A.3 Revision: 0 chg 1

Task Title: Review and Approve a Radioactive Liquid Waste Discharge Permit

Start Time: _____

STEP	1	X	**Performance Step:**	Go to the correct procedure step, OP3335D, Section 4.21.5.i.
GRADE	____	X	**Standards:**	Locates the correct procedure step. Candidate may review previous steps.
			Grade:	**SAT** _____ **UNSAT** _____
			Cue:	Steps 4.21.1, 2, 3 & 4 and step 4.21.5.a through h have been completed.
STEP	2	X	**Performance Step:**	PERFORM Independent Verification of liquid effluent monitor alarm and alert settings. [step 4.21.5.i.1)]
GRADE	____	X	**Standards:**	Locates liquid effluent monitor alarm and alert settings on Liquid Discharge Permit.
GRADE	____	X	**Standards:**	Locates liquid effluent monitor alarm and alert current settings on RMS Console.
			Comments:	Since this JPM is done in a classroom setting the RMS Console is not available. When candidate requests information and specifies that he would access the RMS screen for LWS70-1, Liquid Waste discharge process radiation monitor, exercise the cue.
			Cue:	This is the screen for LWS70-1 (hand candidate screen printout).
GRADE	____	X	**Standards:**	Compares permit settings and RMS information and identifies that RMS is incorrect. Recommends changing RMS to match the permit. Initials permit after receiving the cue.

PERFORMANCE INFORMATION

JPM Number: SRO A.3 Revision: 0 chg 1

Task Title: Review and Approve a Radioactive Liquid Waste Discharge Permit

			Cue:	IF candidate identifies error, state that the setpoints have been corrected.
			Grade:	**SAT** _____ **UNSAT** _____
STEP	3	X	**Performance Step:**	Refer to CHEM Form 3800P-001 and CHECK "EST Activity this Discharge (Ci) on Liquid Discharge Permit is less than action level specified. [step 4.21.5.i.2)]
GRADE	____	X	**Standards:**	COMPARE CHEM Form 3800P-001 and CHECK "EST Activity this Discharge (Ci) to Discharge permit "Estimated activity this discharge (Ci)". Determines that values are below the limits. Initials permit.
			Grade:	**SAT** _____ **UNSAT** _____
			Cue:	Step 4.21.5.i.3) is N/A since no limits are exceeded.
STEP	4	X	**Performance Step:**	CHECK required dilution flowrate is met. [step 4.21.5.i.4)]
GRADE	____	X	**Standards:**	COMPARES permit requirement of 2 SWP and 3 CWP to actual plant condition of 2 SWP and 6 CWP. Determines that dilution flow is met. Initials permit.
			Grade:	**SAT** _____ **UNSAT** _____

Termination Cue: The Evaluation of this JPM is Complete
Stop Time: _____

VERIFICATION OF JPM COMPLETION

JPM Number: NRC SRO A.3 Revision: 0 chg 1

Date Performed: _____

Student: _____

Evaluator: _____

For the student to achieve a satisfactory grade, **ALL** critical steps must be completed correctly. If task is Time Critical, it **MUST** be completed within the specified time to achieve a satisfactory grade.

Time Critical Task? YES _____ NO X

Validated Time (minutes): 10

Actual Time to Complete (minutes): _____

Result of JPM: _____ ("S" for satisfactory, "U" for unsatisfactory)

Result of oral questions (if applicable):

Number of Questions: _____

Number of Correct Responses: _____

Score: _____

Areas for Improvement:

STUDENT HANDOUT

JPM Number: SRO A.3

Initial Conditions: The unit is at 100% power with all systems in normal line-ups. The "A" and "B" Service Water pumps and all Circulating Water pumps are running.

Initiating Cues: The Radwaste PEO has presented OP 3335D sign off copy and a Liquid Discharge Permit for discharging the "A" Waste Test Tank to the Circulating Water discharge tunnel for your approval. Review and approve the permit and report to the examiner when complete.

JOB PERFORMANCE MEASURE APPROVAL SHEET

I. JPM Title: Emergency Plan Classification for General Emergency

JPM ID Number: NRC SRO A.4 Revision: 0 chg 1

II. Initiated:

Paul Malzahn — 8/31/05
Developer — Date

III. Reviewed:

Barry Pinkowitz — 8/31/05
Technical Reviewer — Date

IV. Approved:

T. Butler — 8/31/05
Cognizant Plant Supervisor (optional) — Date

Tim Kulterman — 8/31/05
Nuclear Training Supervisor — Date

JOB PERFORMANCE MEASURE APPROVAL SHEET

SUMMARY OF CHANGE(S)

Date	Chg/Rev	Description
1/8/07	Rev 0 chg 1	Revised JPM to correspond to the standard NTP format. DLM

JOB PERFORMANCE MEASURE GUIDE

Facility: Millstone Unit 3

JPM ID Number: NRC SRO A.4 Revision: 0 chg 1

Task Title: Emergency Plan Classification for General Emergency

System: N/A

Time Critical Task: (X) YES ( ) NO

Validated Time (minutes): 30

Task Number(s): 301-05-366, 301-05-449

Applicable To: SRO X RO _____ PEO _____

K/A Number: 2.4.41
2.4.44

K/A Rating: 4.1 / 2.3
4.0 / 2.1

Method of Testing: Simulated Performance: _____ Actual Performance: X

Location: Classroom: X Simulator: _____ In-Plant: _____

Task Standards:

- Determine the EAL and State Posture Code
- Determine the minimum required PAR

Required Materials:

- MP-26-EPI-FAP06-003, MILLSTONE UNIT 3 EMERGENCY ACTION LEVELS
- MP-26-EPI-FAP-01-001, CONTROL ROOM DIRECTOR OF STATION EMERGENCY OPERATION (CR DSEO)
- MP-26-EPI-FAP06, CLASSIFICATION AND PARs
- MP-26-EPI-FAP06-005, CONTROL ROOM PROTECTIVE ACTION RECOMMENDATIONS
- MP-26-EPI-FAP-07-001, NUCLEAR INCIDENT REPORT FORM (IRF)

General References:

*****READ TO THE STUDENT*****

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objectives for this JPM will be satisfied. You may use any approved reference material normally available in the Control Room, including logs. Make all written reports, oral reports, alarm acknowledgements, and log entries as if the evolution was actually being performed.

JPM Number: NRC SRO A.4 Revision: 0 chg 1

Simulator Requirements: None

Initial Conditions: You are the Shift Manager at Millstone. The time is 02:45. The plant has been on-line for 200 days. The "A" RHR pump is tagged out for an oil change. All other major plant equipment is in service.

The following events occur:

1. (0245) A severe earthquake (0.10g ZPA) occurs.
2. (0246) Reactor trip and Safety Injection on low Pressurizer pressure. The "B" RHR pump does not start; all other ESF equipment operates normally.
3. (0247) The RO reports RCS pressure is 65 psia and stops all RCPs.
4. (0255) The following plant conditions exist:
   RCS Subcooling is 0°F
   RMS*RE04A/05A read 4 R/hr, as confirmed by RMS*RE41/42
   Containment Pressure is 15 psia
   RVLMS (Plenum) is 19%

The current wind speed is five (5) miles per hour. The current wind direction is from 040 and into 220.

Initiating Cues: **DETERMINE THE APPLICABLE EMERGENCY ACTION LEVEL AND MAKE ANY APPROPRIATE PROTECTIVE ACTION RECOMMENDATIONS.**

This is a time critical task.

ARE THERE ANY QUESTIONS? **YOU MAY BEGIN.**

****** NOTES TO EVALUATOR ******

1. Critical steps for this JPM are indicated by an "X" after the step number. For the student to achieve a satisfactory grade, **ALL** critical steps must be completed correctly. The students performance is graded by an "S" for satisfactory or a "U" for unsatisfactory on each step.

2. When the student states what his/her simulated action/observation would be, read the appropriate "Cue".

3. If necessary, question the student for details of simulated actions/observations (i.e. "What are you looking at?" or "What are you observing?").

PERFORMANCE INFORMATION

JPM Number: NRC SRO A.4 Revision: 0 chg 1

Task Title: Emergency Plan Classification for General Emergency

Start Time: _____

STEP 1 ____ **Performance Step:** Obtain Proper procedure.

GRADE ____ ____ **Standards:** Applicant obtains or requests copy of MP-26-EPI-FAP06-003, MP3 Emergency Action Levels.

Evaluator NOTE: Applicant may also request copies of:

- MP-26-EPI-FAP-01-001, CR-DSEO Checklist
- MP-26-EPI-FAP06, Classification and PARs
- MP-26-EPI-FAP06-005, CR PARs
- MP-26-EPI-FAP07, Notifications & Comms
- MP-26-EPI-FAP07-001, Incident Report Form

The CR DSEO Notebook contains all these procedures.

Grade: **SAT** _____ **UNSAT** _____

STEP 2 X **Performance Step:** **Classify the Event.**

GRADE ____ X **Standards:** Applicant recognizes a potential loss of the Fuel Clad Barrier, based on RVLMS ≤ 19% (plenum) (FCB4).

Grade: **SAT** _____ **UNSAT** _____

GRADE ____ X **Standards:** Applicant recognizes a loss of the RCS Barrier based on RCS Subcooling < 32°F Due to RCS Leak (RCB2).

Grade: **SAT** _____ **UNSAT** _____

GRADE ____ X **Standards:** Applicant recognizes a loss of the CTMT Barrier based on No CTMT Pressure Increase when Expectation exists. (CNB3)

Grade: **SAT** _____ **UNSAT** _____

GRADE ____ X **Standards:** Applicant reviews MP-26-EPI-FAP06-003

and determines that a NRC EAL of GENERAL EMERGENCY, BG1 exists. Fuel Clad Barrier (P), RCS Barrier (L) and CTMT Barrier (L)

Grade: **SAT** _____ **UNSAT** _____

STEP	3	X	**Performance Step:**	**Determine State Posture Code**
GRADE	____	X	**Standards:**	Applicant reviews MP-26-EPI-FAP06-003 and determines that the block for BG1 is the same color as State Posture ALPHA
			Evaluator NOTE:	Tables are color coded to reflect the State Posture.

Grade: **SAT** _____ **UNSAT** _____

NOTE: **Record the Time Classification is Completed:** _____

STEP	4	X	**Performance Step:**	**Determine the State Protective Action Recommendation**
GRADE	____	____	**Standards:**	Applicant uses MP-26-EPI-FAP06-005, Section B, Control Room PAR Process Flowchart, to determine the PAR.

Grade: **SAT** _____ **UNSAT** _____

GRADE	____	X	**Standards:**	Reviews flowchart and diagnoses that all 3 barriers are NOT lost and transitions over to "CTMT Radiation"

Grade: **SAT** _____ **UNSAT** _____

GRADE	____	X	**Standards:**	Reviews flowchart and determines that CTMT radiation does NOT exceed Table 1 values. Transitions over to "5 Mile Doses"

Grade: **SAT** _____ **UNSAT** _____

GRADE	____	X	**Standards:**	Reviews flowchart and determines that 5

PERFORMANCE INFORMATION

JPM Number: NRC SRO A.4 Revision: 0 chg 1

Task Title: Emergency Plan Classification for General Emergency

Mile Doses do NOT exceed Table 2 values.

Evaluator NOTE: When applicant requests dose projections, provide the following cue:

CUE: The Chem Tech Initial Dose Assessment is not yet available.

Grade: **SAT** _____ **UNSAT** _____

GRADE ____ **X** **Standards:** Applicant indicates the minimum required PAR is to evacuate a 5 mile radius. (The IRF will serve as the necessary PAR notification to the state so no additional DEP communication is required.)

Grade: **SAT** _____ **UNSAT** _____

NOTE: **Record the Time Classification is Completed:** [ ]

NOTE:
- **15 minutes to determine Emergency Action Level and State Posture Code.**
- **15 minutes after classifying event to determine minimum required PAR.**

[ ]

CUE: The evaluation for this JPM is complete.

VERIFICATION OF JPM COMPLETION

JPM Number: NRC SRO A.4 Revision: 0 chg 1

Date Performed: _____

Student: _____

Evaluator: _____

For the student to achieve a satisfactory grade, **ALL** critical steps must be completed correctly. If task is Time Critical, it **MUST** be completed within the specified time to achieve a satisfactory grade.

Time Critical Task? YES **X** NO _____

Validated Time (minutes): 30

Actual Time to Complete (minutes): _____

Result of JPM: _____ ("S" for satisfactory, "U" for unsatisfactory)

Result of oral questions (if applicable):

Number of Questions: _____

Number of Correct Responses: _____

Score: _____

Areas for Improvement:

STUDENT HANDOUT

JPM Number: **NRC SRO A.4**

Initial Conditions: You are the Shift Manager at Millstone. The time is 02:45. The plant has been on-line for 200 days. The "A" RHR pump is tagged out for an oil change. All other major plant equipment is in service.

The following events occur:

1. (0245) A severe earthquake (0.10g ZPA) occurs.
2. (0246) Reactor trip and Safety Injection on low Pressurizer pressure. The "B" RHR pump does not start; all other ESF equipment operates normally.
3. (0247) The RO reports RCS pressure is 65 psia and stops all RCPs.
4. (0255) The following plant conditions exist:
   RCS Subcooling is 0°F
   RMS*RE04A/05A read 4 R/hr, as confirmed by RMS*RE41/42
   Containment Pressure is 15 psia
   RVLMS (Plenum) is 19%

The current wind speed is five (5) miles per hour. The current wind direction is from 040 and into 220.

Initiating Cues: **DETERMINE THE APPLICABLE EMERGENCY ACTION LEVEL AND MAKE ANY APPROPRIATE PROTECTIVE ACTION RECOMMENDATION.**

This is a time critical task.

JOB PERFORMANCE MEASURE APPROVAL SHEET

I. JPM Title: Determine the maximum rate of power increase and control rod withdrawal restrictions.

JPM ID Number: NRC RO A.1.1 Revision: 0 chg 1

II. Initiated:

Nuclear Regulatory Commission — Developer
12 May 2004 — Date

III. Reviewed:

Martin — Technical Reviewer
1/24/7 — Date

IV. Approved:

N/A — Cognizant Plant Supervisor (optional)
Date

[signature] — Nuclear Training Supervisor
1/24/07 — Date

JOB PERFORMANCE MEASURE APPROVAL SHEET

SUMMARY OF CHANGE(S)

Date	Chg/Rev	Description
1/3/06	0 chg 1	Revised JPM to correspond to the standard NTP format. Made minor modifications to the initial conditions and initiating cue for clarity. DLM

JOB PERFORMANCE MEASURE GUIDE

Facility: Millstone Unit 3

JPM ID Number: NRC RO A.1.1 Revision: 0 chg 1

Task Title: Determine the maximum rate of power increase and control rod withdrawal restrictions.

System: NA

Time Critical Task: ( ) YES (X) NO
Validated Time (minutes): 15

Task Number(s): _____

Applicable To: SRO X RO X PEO _____

K/A Number: 2.1.25 K/A Rating: 3.1 / 2.8

Method of Testing: Simulated Performance: _____ Actual Performance: X

Location: Classroom: X Simulator: _____ In-Plant: _____

Task Standards:

- Applicant recognizes the Fuel Condition Category as "Partially Conditioned" up to power level, P, of 80% and rod position, N, of 218 steps on CBD.
- Applicant correctly identifies the following limits:
  - 10% per hour to power level "P" where P=80%.
  - 4% over any 1 hour period, 7% over any 2 hour period, 10% over any 3 hour period to achieve a nominal 3% full power per hour rate, and
  - Control Rod Withdrawal restricted to 3 steps per hour above 218 steps on CBD.

Applicant correctly applies the limits to determine that schedule adherence is possible without exceeding authorized fuel condition load increase restrictions.

Required Materials:

- Operating Procedure OP 3204, At Power Operations.
- Attachment 4 of OP 3204

General References: Operating Procedure OP 3204, At Power Operations.

*****READ TO THE CANDIDATE*****

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objectives for this JPM will be satisfied. You may use any approved reference material normally available in the Control Room, including logs. Make all written reports, oral reports, alarm acknowledgements, and log entries as if the evolution was actually being performed.

JPM Number: NRC RO A.1.1 Revision: 0 chg 1

Simulator Requirements: None

Initial Conditions: You are the Reactor Operator currently on shift. The plant has recently completed a refueling outage and subsequent plant startup, which started on Monday, 12 July 2004.

On **Wednesday, 14 July 2004 at 09:00**, the plant reached 80% reactor power with CBD at 218 steps. The plant remained at 80% power until **Saturday, 17 July 2004 at 13:00** when a Turbine Driven Feedwater Pump malfunctioned and had to be shutdown for repairs. The plant reached 50% power on **Saturday, 17 July 2004 at 19:30.** Since then the plant has been operating steady at **50%** power with **CBD at 218 steps**.

Now the time is **Wednesday, 21 July 2004 at 08:00** hours. Turbine Driven Feedwater Pump repairs and testing are complete. The plant is ready to begin its return to full power.

According to the current schedule, the plant should be at full (100%) power by the end of shift today, **Wednesday, 21 July 2004 at 18:00** hours.

Initiating Cues: **Based on fuel conditioning, determine whether the plant can achieve 100% power by the end of shift without exceeding any maneuvering limits. Assume that control rods will remain at CBD step 218 throughout the power ascension and that the power ascension begins immediately.**

ARE THERE ANY QUESTIONS?
YOU MAY BEGIN.

****** NOTES TO EVALUATOR ******

1. Critical steps for this JPM are indicated by an "X" after the step number. For the student to achieve a satisfactory grade, ALL critical steps must be completed correctly. The students performance is graded by an "S" for satisfactory or a "U" for unsatisfactory on each step.

2. When the student states what his/her simulated action/observation would be, read the appropriate "Cue".

3. If necessary, question the student for details of simulated actions/observations (i.e. "What are you looking at?" or "What are you observing?").

PERFORMANCE INFORMATION

JPM Number: NRC RO A.1.1 Revision: 0 chg 1

Task Title: Determine the maximum rate of power increase

Start Time: _____

NOTE: **Order or sequence of performance is NOT critical**

STEP	1		**Performance Step:**	Applicant obtains/requests a copy of OP 3204, "At Power Operation."
GRADE			**Standards:**	Obtains OP 3204.
			Grade:	**SAT** _____ **UNSAT** _____
STEP	2		**Performance Step:**	NA
GRADE			**Standards:**	Applicant reviews the initial conditions to determine recent power history
			Grade:	**SAT** _____ **UNSAT** _____
STEP	3		**Performance Step:**	Determine the correct attachment to determine load increase restrictions based on fuel condition.
GRADE			**Standards:**	Applicant finds and refers to Attachment 4, "Fuel Condition Load Increase Restrictions."
			Grade:	**SAT** _____ **UNSAT** _____
STEP	4	X	**Performance Step:**	Determine Fuel Condition category.
GRADE		X	**Standards:**	Applicant recognizes that the Fuel Condition Category is "Partially Conditioned".
			Grade:	**SAT** _____ **UNSAT** _____

PERFORMANCE INFORMATION

JPM Number: NRC RO A.1.1 Revision: 0 chg 1

Task Title: Determine the maximum rate of power increase

STEP	5	X	**Performance Step:**	Determine Applicable Range of Power Level
GRADE	____	____	**Standards:**	Applicant determines that the Applicable Range of Power change for current plant conditions is 50% to 100% power.
GRADE	____	X	**Standards:**	Applicant correctly determines that the plant has been at 80% power ("P") and CBD at 218 steps ("N") for at least 72 hours.
			Grade:	**SAT** _____ **UNSAT** _____
STEP	6	X	**Performance Step:**	Determine Maximum Rate of Power Increase.
GRADE	____	X	**Standards:**	Applicant recognizes the maximum rate of power increase as 'unlimited' to 80% and 3% per hour to 100%.
			Grade:	**SAT** **UNSAT**
			Evaluator NOTE:	The applicant may request from the US what the maximum rate of power increase should be up to 80% power. If so, give the flowing cue:
			CUE:	Use a maximum power ascension rate of 10% per hour.
STEP	7	X	**Performance Step:**	Determine Time Required for the Power Ascension.
GRADE	____	X	**Standards:**	Applicant applies the identified limits to determine the following times: • 3 hours to raise power 30% (from 50% to 80%). • 6 hours, 40 minutes to raise power 20% (from 80% to 100%). • Total time = 9 hours; 40 minutes.
			NOTE:	Critical Step is to calculate a number below 10 hours. The procedure wording is ambiguous and allows for

PERFORMANCE INFORMATION

JPM Number: NRC RO A.1.1 Revision: 0 chg 1

Task Title: Determine the maximum rate of power increase

answers between 8:00 to 9:40.
Possible answers
8:00 - 4% over any 1 hour period
8:43 - 7% over any 2 hour period
9:00 - 10% over any 3 hour period
9:40 – nominal 3% per hour
other *combinations* possible

Grade: **SAT** **UNSAT**

STEP	8	X	**Performance Step:**	Determine If 100% Power Can Be Reached By Shift End.
GRADE	____	X	**Standards:**	Applicant recognizes and reports that there are 10 hours scheduled to complete the power ascension and based on fuel conditioning alone, it is possible to reach full power by 18:00 (or similar words).

Grade: **SAT** **UNSAT**

CUE: **The evaluation for this JPM is complete.**

Stop Time: _____

VERIFICATION OF JPM COMPLETION

JPM Number: NRC RO A.1.1 Revision: 0 chg 1

Date Performed: _____

Student: _____

Evaluator: _____

For the student to achieve a satisfactory grade, **ALL** critical steps must be completed correctly. If task is Time Critical, it **MUST** be completed within the specified time to achieve a satisfactory grade.

Time Critical Task? YES _____ NO X

Validated Time (minutes): 10

Actual Time to Complete (minutes): _____

Result of JPM: _____ ("S" for satisfactory, "U" for unsatisfactory)

Result of oral questions (if applicable):

Number of Questions: _____

Number of Correct Responses: _____

Score: _____

Areas for Improvement:

STUDENT HANDOUT

JPM Number: **NRC RO A.1.1**

Initial Conditions: You are the Reactor Operator currently on shift. The plant has recently completed a refueling outage and subsequent plant startup, which started on Monday, 12 July 2004.

On **Wednesday, 14 July 2004 at 09:00**, the plant reached 80% reactor power with CBD at 218 steps. The plant remained at 80% power until **Saturday, 17 July 2004 at 13:00** when a Turbine Driven Feedwater Pump malfunctioned and had to be shutdown for repairs. The plant reached 50% power on **Saturday, 17 July 2004 at 19:30.** Since then the plant has been operating steady at **50%** power with **CBD at 218 steps**.

Now the time is **Wednesday, 21 July 2004 at 08:00** hours. Turbine Driven Feedwater Pump repairs and testing are complete. The plant is ready to begin its return to full power.

According to the current schedule, the plant should be at full (100%) power by the end of shift today, **Wednesday, 21 July 2004 at 18:00** hours.

Initiating Cues: **Based on fuel conditioning, determine whether the plant can achieve 100% power by the end of shift without exceeding any maneuvering limits. Assume that control rods will remain at CBD step 218 throughout the power ascension and that the power ascension begins immediately.**

JOB PERFORMANCE MEASURE APPROVAL SHEET

I. JPM Title: Determine the Required Boration Time and Final Control Rod Height For a Rapid Downpower.

JPM ID Number: NRC RO A.1.2 Revision: 0

II. Initiated:

D. Minnich
Developer

1/3/06
Date

III. Reviewed:

Martin
Technical Reviewer

1/27/7
Date

IV. Approved:

Cognizant Plant Supervisor (optional)

Date

Nuclear Training Supervisor

1/24/07
Date

JOB PERFORMANCE MEASURE APPROVAL SHEET

SUMMARY OF CHANGE(S)

Date	Chg/Rev	Description

JOB PERFORMANCE MEASURE GUIDE

Facility: Millstone Unit 3

JPM ID Number: NRC RO A.1.2 Revision: 0

Task Title: Determine the Required Boration Time and Final Control Rod Height For a Rapid Downpower.

System: NA

Time Critical Task: ( ) YES (X) NO

Validated Time (minutes): 10

Task Number(s): 009-01-004

Applicable To: SRO X RO X PEO

K/A Number: 2.1.20 K/A Rating: 4.3 / 4.2

Method of Testing: Simulated Performance: Actual Performance: X

Location: Classroom: X Simulator: In-Plant:

Task Standards: Correctly Determine the Required Boration Time and Final Control Rod Height For a Rapid Downpower.

Required Materials: AOP 3575, *Rapid Downpower*, and Cycle 11 End of Life RE Curve and Data Book with the January 2007 Monthly Reactivity Data Sheet

General References:

*****READ TO THE STUDENT*****

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objectives for this JPM will be satisfied. You may use any approved reference material normally available in the Control Room, including logs. Make all written reports, oral reports, alarm acknowledgements, and log entries as if the evolution was actually being performed.

JPM Number: NRC RO A.1.2 Revision: 0

Simulator Requirements: None

Initial Conditions: The plant is at 100% power, core burnup is 17,000 MWD / MTU and current boron concentration is 300 ppm. You are the Extra Licensed Operator on shift. CONVEX has requested MP3 conduct an emergency load reduction of 480 Mwe (1200 to 720 Mwe).

Initiating Cues: The US has directed you to calculate the required boration time in accordance with AOP 3575. Assume a boration flowrate of 80 gpm. You are also directed to determine the final control rod height for the rapid downpower. Use the Cycle 11 End of Life RE Curve and Data Book, and use curves when possible.

**** **NOTES TO EVALUATOR** ****

1. Critical steps for this JPM are indicated by an "X" after the step number. For the student to achieve a satisfactory grade, **ALL** critical steps must be completed correctly. The students performance is graded by an "S" for satisfactory or a "U" for unsatisfactory on each step.

2. When the student states what his/her simulated action/observation would be, read the appropriate "Cue".

3. If necessary, question the student for details of simulated actions/observations (i.e. "What are you looking at?" or "What are you observing?").

PERFORMANCE INFORMATION

JPM Number: NRC RO A.1.2 Revision: 0

Task Title: Determine Boration Time / Final Control Rod Height For Rapid Downpower.

Start Time: _____

STEP 1 ____ **Performance Step:** Obtain proper Abnormal Operating Procedure and Curve Book.

GRADE ____ ____ **Standards:** Applicant obtains a copy of AOP 3575, *Rapid Downpower* and MP3 Cycle 11 EOL RE Curve and Data Book.

Grade: **SAT** _____ **UNSAT** _____

STEP 2 X **Performance Step:** Determine required boration time.
AOP 3575 Step 5.j

GRADE ____ X **Standards:** Applicant correctly determines the total power change:

- 480 Mwe / 12 Mwe per % power = **40%**

Evaluator NOTE: The applicant may question the US what to assume for a boration flowrate.

CUE (if required): Respond as the US to assume a boration flowrate of 80 gpm.

GRADE ____ X **Standards:** Applicant correctly determines the required boration time using the following formula:

$$\frac{\text{Total Power Change (\%)} \times 15}{\text{BA Flow Rate}} = \text{Time (min)}$$

- [40% X 15] / 80 gpm = **7.5 minutes**

Grade: **SAT** _____ **UNSAT** _____

STEP 3 X **Performance Step:** Determine the total power defect associated with the 40% power change.

GRADE ____ X **Standards:** Applicant refers to the "Total Power Defect vs Percent Power" curves (RE-E-01)

PERFORMANCE INFORMATION

JPM Number: NRC RO A.1.2 Revision: 0

Task Title: Determine Boration Time / Final Control Rod Height For Rapid Downpower.

GRADE ____ **X** **Standards:** Applicant selects the 300 ppm curve and determines the power defect associated with a power change from 100% to 60% power.

- -2800 – (-1725) = **1075 pcm**

Evaluator NOTE: Allow for minor curve interpolation error. A power defect between 1100 and 1050 pcm is acceptable.

Grade: **SAT** _____ **UNSAT** _____

STEP 4 **X** **Performance Step:** Determine boron concentration change associated with the boration.

GRADE ____ **X** **Standards:** Applicant calculates the volume of boric acid added:

- Power Change (%) x 15 = **600 gal**

GRADE ____ **X** **Standards:** Applicant refers to the monthly reactivity data sheet for the guideline value for "Gallons boric acid per ppm RCS (B) increase" (9.1 gal BA / ppm) and calculates RCS boron concentration change:

- 600 gal / 9.1 gal per ppm ~ **66 ppm**

Grade: **SAT** _____ **UNSAT** _____

STEP 5 **X** **Performance Step:** Determine the negative reactivity added as a result of the boration.

GRADE ____ **X** **Standards:** Applicant refers to the "Differential Boron Worth vs Burnup" curves (RE-F-02).

GRADE ____ **X** **Standards:** Applicant selects the HFP DBW curve and determines differential boron worth for 17,000 MWD/MTU.

- - 6.96 pcm / ppm

PERFORMANCE INFORMATION

JPM Number: NRC RO A.1.2 Revision: 0

Task Title: Determine Boration Time / Final Control Rod Height For Rapid Downpower.

Evaluator NOTE: Allow for minor curve interpolation error. A DBW between - 6.90 and - 7.00 pcm / ppm is acceptable.

GRADE ____ **X** **Standards:** Applicant calculates the negative reactivity added:

- 66 ppm x (- 6.96 pcm / ppm) = **- 459 pcm**

Grade: **SAT** _____ **UNSAT** _____

STEP 6 **X** **Performance Step:** Determine the negative reactivity added as a result of rod insertion.

GRADE ____ **X** **Standards:** Applicant calculates the negative reactivity due to rod insertion by subtracting the reactivity change due to boron from the reactivity change for total power defect:

- 1075 pcm - 459 pcm = **616 pcm**

Grade: **SAT** _____ **UNSAT** _____

STEP 7 **X** **Performance Step:** Determine the predicted final control rod height.

GRADE ____ **X** **Standards:** Applicant refers to the "Integral Rod Worth versus Steps Withdrawn" curve for control banks D and C in overlap, EOL, HFP, equilibrium Xe (RE-D-02).

GRADE ____ **X** **Standards:** Applicant determines the predicted final control rod height for an integral rod worth of 616 pcm:

- **CB D at 90 steps**

Evaluator NOTE: Allow for minor curve interpolation error. A control rod height between 85 and 95 steps is acceptable.

Grade: **SAT** _____ **UNSAT** _____

PERFORMANCE INFORMATION

JPM Number: NRC RO A.1.2 Revision: 0

Task Title: Determine Boration Time / Final Control Rod Height For Rapid Downpower.

STEP	8	____	**Performance Step:**	Applicant Reports Task Completion.
GRADE	____	____	**Standards:**	Applicant reports to the US that the required boration time and final control rod height has been determined.
			CUE:	**Please turn in all notes and calculations. The evaluation for this JPM is complete.**

Stop Time: _____

VERIFICATION OF JPM COMPLETION

JPM Number: NRC RO A.1.2 Revision: 0

Date Performed: _____

Student: _____

Evaluator: _____

For the student to achieve a satisfactory grade, **ALL** critical steps must be completed correctly. If task is Time Critical, it **MUST** be completed within the specified time to achieve a satisfactory grade.

Time Critical Task? YES _____ NO X

Validated Time (minutes): 10

Actual Time to Complete (minutes): _____

Result of JPM: _____ ("S" for satisfactory, "U" for unsatisfactory)

Result of oral questions (if applicable):

Number of Questions: _____

Number of Correct Responses: _____

Score: _____

Areas for Improvement:

STUDENT HANDOUT

JPM Number: NRC RO A.1.2

Initial Conditions: The plant is at 100% power, core burnup is 17,000 MWD / MTU and current boron concentration is 300 ppm. You are the Extra Licensed Operator on shift. CONVEX has requested MP3 conduct an emergency load reduction of 480 MWe (1200 to 720 MWe).

Initiating Cues: The US has directed you to calculate the required boration time in accordance with AOP 3575. Assume a boration flowrate of 80 gpm. You are also directed to determine the final control rod height for the rapid downpower. Use the Cycle 11 End of Life RE Curve and Data Book, and use curves when possible.

JOB PERFORMANCE MEASURE APPROVAL WORKSHEET

I. JPM Title: Given a maintenance repair recommendation and reference material, recommend a clearance boundary.

JPM ID Number: NRC RO A.2 Revision : 0 chg 1

II. Initiated:

Steve Jackson — 10/31/01
Developer — Date

III. Reviewed:

Ray Martin — 11/15/01
Technical Reviewer — Date

IV. Approved:

Cognizant Plant Supervisor (optional) — Date

Nuclear Training Supervisor — 1/24/07
Date

JOB PERFORMANCE MEASURE APPROVAL WORKSHEET

SUMMARY OF CHANGE(S)

Date	Chg/Rev	Description
1/23/06	0 chg 1	Revised JPM to update to revision 007-00 to WC 2, *Tagging*. Also modified initial conditions and cue to correspond to a maintenance team lead request instead of a recommendation to add realism. Removed tagging the pump control switch from the critical nature of the electrical tagout step. DLM

JOB PERFORMANCE MEASURE GUIDE

Facility: Millstone Unit 3

JPM ID Number: NRC RO A.2 Revision: 0 chg 1

Task Title: Given a maintenance repair recommendation and reference material, recommend a clearance boundary.

System: Tagging and Clearance

Time Critical Task: ( ) YES (X) NO

Validated Time (minutes): 10 min

Task Number(s): 341-01-079, Develop and/or modify, review, authorize, install, verify, and clear a tag clearance in accordance with plant and/or site procedural and safety requirements

Applicable To: SRO _____ RO X PEO _____

K/A Number: GEN.2.2.13, Knowledge of Tagging and Clearance Procedures K/A Rating: 3.6/3.8

Method of Testing: Simulated Performance: _____ Actual Performance: X

Location: Classroom: X Simulator: _____ In-Plant: _____

Task Standards: Develop and review a tag clearance

Required Materials: Team Lead Tagout Request
P&IDs, EM-109A
EE One-Line diagrams
OP 3337, Radioactive Gaseous Waste System

General References: WC 2, Tagging
OP 3250, Removing Equipment from Service for Maintenance

*****READ TO THE STUDENT*****

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objectives for this JPM will be satisfied. You may use any approved reference material normally available in the Control Room, including logs. Make all written reports, oral reports, alarm acknowledgements, and log entries as if the evolution was actually being performed.

JPM Number: NRC RO A.2 Revision : 0 chg 1

Simulator Requirements: NONE

Initial Conditions: The pump impeller on the "B" Degasifier Recirculation Pump, 3GWS-P1B, has seized. Repair efforts are planned and the maintenance first line supervisor has made a work package tagout request for the repair. The request includes the need to isolate, vent and drain, and to tagout electrically.

Initiating Cues: Your task is to develop a clearance boundary for this repair activity based on the maintenance first line supervisor's request.

**** **NOTES TO EVALUATOR** ****

1. Critical steps for this JPM are indicated by an "X" after the step number. For the student to achieve a satisfactory grade, **ALL** critical steps must be completed correctly. The students performance is graded by an "S" for satisfactory or a "U" for unsatisfactory on each step.

2. When the student states what his/her simulated action/observation would be, read the appropriate "Cue".

3. If necessary, question the student for details of simulated actions/observations (i.e. "What are you looking at?" or "What are you observing?").

PERFORMANCE INFORMATION

JPM Number: NRC RO A.2 Revision: 0chg1

Task Title: Given a maintenance repair recommendation and reference material, recommend a clearance boundary.

Start Time: _____

			Comments:	Electrical and mechanical isolation of the pump can be done in any order
STEP	1	X	**Performance Step:**	Identifies correct piping isolation boundary for the "B" Degasifier Recirculation Pump, 3GWS-P1B
GRADE		X	**Standards:**	Uses P&ID EM-109A or OP3337-001 and other appropriate references and identifies the correct boundary: • Pump Discharge (V10) CLOSED • Pump Suction (V6) CLOSED • Casing Drain (V107) OPEN • Discharge Vent (V972) OPEN
			Grade:	**SAT** _____ **UNSAT** _____
STEP	2	X	**Performance Step:**	Identifies correct electrical isolation boundary for the "B" Degasifier Recirculation Pump, 3GWS-P1B
GRADE		X	**Standards:**	Uses OP3337-004, electrical line-up, or EE-1AC and other appropriate references and identifies the correct boundary: • At MCC 32-3H(2M) OFF • Pump Control Switch OFF
			Evaluator NOTE:	Tagging the pump control switch is not required to meet the critical nature of this step.
			Grade:	**SAT** _____ **UNSAT** _____
			Comments:	Submits completed tagout to examiner as the Shift Manager. Tagout should substantially match the JPM attachment (filled out WC 2, attachment 6).

PERFORMANCE INFORMATION

JPM Number: NRC RO A.2 Revision: 0chg1

Task Title: Given a maintenance repair recommendation and reference material, recommend a clearance boundary.

Termination Cue: The Evaluation For This JPM is Complete.

Stop Time: _____

VERIFICATION OF JPM COMPLETION

JPM Number: NRC RO A.2 Revision: 0 chg 1

Date Performed: _____

Student: _____

Evaluator: _____

For the student to achieve a satisfactory grade, **ALL** critical steps must be completed correctly. If task is Time Critical, it **MUST** be completed within the specified time to achieve a satisfactory grade.

Time Critical Task? YES _____ NO X

Validated Time (minutes): 10

Actual Time to Complete (minutes): _____

Result of JPM: _____ ("S" for satisfactory, "U" for unsatisfactory)

Result of oral questions (if applicable):

Number of Questions: _____

Number of Correct Responses: _____

Score: _____

Areas for Improvement:

STUDENT HANDOUT

JPM Number: NRC RO A.2

Initial Conditions: The pump impeller on the "B" Degasifier Recirculation Pump, 3GWS-P1B, has seized. Repair efforts are planned and the maintenance first line supervisor has made a work package tagout request for the repair. The request includes the need to isolate, vent and drain, and to tagout electrically.

Initiating Cues: Your task is to develop a clearance boundary for this repair activity based on the maintenance first line supervisor's request.

Attachment 6
Tagout Request
(Sheet 1 of 1)

NOTE: When this request is used, all sections should be filled out in detail.

AWO Number: M3-07-00100 **Component:** 3GWS-P1B

Brief Job Description: Replace seal package

Amplifying Instructions:

Tagging (IS) / IS NOT required for personal protection (circle one).

- [x] Isolate, vent and drain
- [ ] Isolate and depressurize
- [ ] Isolate flowpath through _____
- [x] Other

tag out electrically also

Recommended Tags

Color	Isolation Point	Position[1]

[1]For Blue Tags indicate initial position or if initial position is *not* required enter N/A.

Contact Person (for multiple shifts, Contact Person is required for each shift) **Phone:**

F. L. Supervisor Ø123

Approved By: _____ **Phone:** _____

Team Leader / Planner / Engineering

Date:

KEY

Attachment 6
Tagout Request
(Sheet 1 of 1)

NOTE: When this request is used, all sections should be filled out in detail.	
AWO Number: M3-07-00100	**Component:** 3GWS-P1B
Brief Job Description: Replace seal package	

Amplifying Instructions:

Tagging (IS) / IS NOT required for personal protection (circle one).

- ☑ Isolate, vent and drain
- ☐ Isolate and depressurize
- ☐ Isolate flowpath through _____
- ☑ Other

tag out electrically also

not a critical tag

Recommended Tags

Color	Isolation Point	Position[1]
Red	3GWS-V10, 3GWS-P1B discharge isolation	Closed
Red	3GWS-V6, 3GWS-P1B suction isolation	Closed
Red	3GWS-V107, 3GWS-P1B casing drain	Open
Red	3GWS-V972, discharge vent	Open
Red	MCC 32-3H (2M)	off
Red	3GWS-P1B control switch (Gaseous Waste Panel)	off

[1] For Blue Tags indicate initial position or if initial position is *not* required enter N/A.

Contact Person (for multiple shifts, Contact Person is required for each shift)	**Phone:**
F. L. Supervisor	Ø123
Approved By: _____ Team Leader / Planner / Engineering **Phone:** _____	**Date:**

JOB PERFORMANCE MEASURE APPROVAL SHEET

I. JPM Title: Actions and Expected Response for RMS Equipment failure Alarms

JPM ID Number: NRC RO A.3 Revision: 0

II. Initiated:

D. Minnich — 1/5/07
Developer — Date

III. Reviewed:

Martin — 1/24/7
Technical Reviewer — Date

IV. Approved:

Cognizant Plant Supervisor (optional) — Date

Nuclear Training Supervisor — 1/24/07
Date

JOB PERFORMANCE MEASURE APPROVAL SHEET

SUMMARY OF CHANGE(S)

Date	Chg/Rev	Description

JOB PERFORMANCE MEASURE GUIDE

Facility: Millstone Unit 3

JPM ID Number: NRC RO A.3 Revision: 0

Task Title: Actions and Expected Response for RMS Equipment failure Alarms

System: N/A

Time Critical Task: ( ) YES (X) NO

Validated Time (minutes): 10

Task Number(s): 073-01-043

Applicable To: SRO ____ RO X PEO ____

K/A Number: 2.3.1 K/A Rating: 2.6 / 3.0

Method of Testing: Simulated Performance: ____ Actual Performance: X

Location: Classroom: X Simulator: ____ In-Plant: ____

Task Standards: Correctly determines the required actions for an RMS Equipment failure Alarm.

Required Materials: OP 3362, Radiation Monitor System Display and Control System (rev. 007-06)

General References:

*****READ TO THE STUDENT*****

I will explain the initial conditions, which step(s) to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objectives for this JPM will be satisfied. You may use any approved reference material normally available in the Control Room, including logs. Make all written reports, oral reports, alarm acknowledgements, and log entries as if the evolution was actually being performed.

JPM Number: NRC RO A.3 Revision: 0

Simulator Requirements: None

Initial Conditions: The plant is at 100% power and you are the Extra Licensed Operator on shift. MB2B 2-9 "RMS TROUBLE" alarms. At the RMS Console you determine that an equipment failure alarm is in for 3CMS*RE22. Specifically, 'filter step' is in alarm.

Initiating Cues: The US has directed you to determine and perform required actions as a result of the 3CMS*RE22 equipment failure alarm.

**** **NOTES TO EVALUATOR** ****

1. Critical steps for this JPM are indicated by an "X" after the step number. For the student to achieve a satisfactory grade, **ALL** critical steps must be completed correctly. The students performance is graded by an "S" for satisfactory or a "U" for unsatisfactory on each step.

2. When the student states what his/her simulated action/observation would be, read the appropriate "Cue".

3. If necessary, question the student for details of simulated actions/observations (i.e. "What are you looking at?" or "What are you observing?").

PERFORMANCE INFORMATION

JPM Number: NRC RO A.3 Revision: 0

Task Title: Actions and Expected Response for RMS Equipment failure Alarms

Start Time: _____

STEP	1		**Performance Step:**	Obtain proper Annunciator Response Procedure.
GRADE			**Standards:**	Obtains OP 3353.MB2B and refers to "RMS TROUBLE" (2-9).
			Grade:	**SAT** **UNSAT**
			Evaluator NOTE:	The applicant may go directly to OP 3362, Radiation Monitor System Display and Control. This is acceptable.
STEP	2		**Performance Step:** OP 3353.MB2B 2-9 Step 2	IF alarm is due to equipment failure, Refer To OP 3362, "Radiation Monitor System Display and Control," and TAKE required actions for equipment failure alarms.
GRADE			**Standards:**	Applicant obtains and refers to OP 3362, Section 4.13, Equipment Failure Alarms.
			Grade:	**SAT** _____ **UNSAT** _____
STEP	3	X	**Performance Step:** OP 3362, Section 4.13 Step 4.13.1.a	Refer To Attachment 6 and PERFORM the following: CHECK monitor number is listed.
GRADE		X	**Standards:**	Applicant refers to OP 3362, Attachment 6 and verifies that 3CMS*RE22 is listed.
			Grade:	**SAT** _____ **UNSAT** _____
STEP	4	X	**Performance Step:** OP 3362, Section 4.13 Step 4.13.1.b	IF monitor is listed, DETERMINE applicable "Trouble Response(s)."
GRADE		X	**Standards:**	Applicant refers to Attachment 6 and determines that for 3CMS*22, trouble responses 1, 2, 3, 6, 7, 10, and 12 are required.

PERFORMANCE INFORMATION

JPM Number: NRC RO A.3 Revision: 0

Task Title: Actions and Expected Response for RMS Equipment failure Alarms

			Grade:	**SAT** _____ **UNSAT** _____
STEP	5	____	**Performance Step:** OP 3362, Section 4.13 Step 4.13.1.c	PERFORM applicable Trouble Response(s)" listed.
GRADE	____	____	**Standards:**	Applicant refers to Attachment 6 begins to perform the identified responses.
			Evaluators NOTE:	The applicant may ask whether the US desires him/her to perform the applicable trouble responses. If so, provide the following cue:
			CUE (if required):	Yes, perform the applicable trouble responses.
			Grade:	**SAT** _____ **UNSAT** _____
STEP	6	____	**Performance Step:** OP 3362, Att 6 Action 1.	NOTIFY Instrument and Control Department to check monitor.
GRADE	____	____	**Standards:**	Applicant notifies I &C that 3CMS*RE22 has an equipment failure alarm and to check the monitor. Telephone call is adequate for this notification.
			CUE:	All notifications to I & C are complete.
			Grade:	**SAT** _____ **UNSAT** _____
STEP	7	____	**Performance Step:** OP 3362, Att 6 Action 2.	NOTIFY Health Physics Department for area monitoring and sampling.
GRADE	____	____	**Standards:**	Applicant notifies Health Physics that 3CMS*RE22 has an equipment failure alarm and to conduct necessary monitoring and sampling. Telephone call is adequate for this notification.
			CUE:	All notifications to Health Physics are complete.

PERFORMANCE INFORMATION

JPM Number: NRC RO A.3 Revision: 0

Task Title: Actions and Expected Response for RMS Equipment failure Alarms

			Grade:	**SAT**	**UNSAT**
STEP	8		**Performance Step:** OP 3362, Att 6 Action 3.	NOTIFY Chemistry Department for sampling medium.	
GRADE			**Standards:**	Applicant notifies Chemistry Department that 3CMS*RE22 has an equipment failure alarm and to ready appropriate sampling medium. Telephone call is adequate for this notification.	
			CUE:	All notifications to Chemistry are complete.	
			Grade:	**SAT**	**UNSAT**
STEP	9	X	**Performance Step:** OP 3362, Att 6 Action 6.	IF a filter step alarm is recorded, ATTEMPT to step the filter as follows: Safety related Monitor (CMS*22): 1. At the appropriate KERIC, TURN the keyswitch to "ENABLE." 2. PRESS "STP -2 ENT." 3. TURN keyswitch to "DISABLE."	
GRADE		X	**Standards:**	Informs the US that an attempt must be made to step the 3CMS*22 filter at the 'RIC'.	
			CUE:	As US, inform the Applicant that another RO will attempt to step the filter.	
			Grade:	**SAT**	**UNSAT**
			CUE:	As US, inform the Applicant that the filter step alarm did not clear after the filter step attempt.	

PERFORMANCE INFORMATION

JPM Number: NRC RO A.3 Revision: 0

Task Title: Actions and Expected Response for RMS Equipment failure Alarms

STEP	10	X	**Performance Step:** OP 3362, Att 6 Action 6.	IF the filter step alarm clears, the monitor may be considered OPERABLE with respect to the filter paper. IF another filter step alarm is recorded, the particulate channel is not OPERABLE. REQUEST I&C to repair.
GRADE	____	X	**Standards:**	Informs the US that the particulate channel of 3CMS*22 must be considered INOPERABLE.
			CUE:	As US, acknowledge the applicant's report.
			Grade:	**SAT** **UNSAT**
STEP	11	____	**Performance Step:** OP 3362, Att 6 Action 7.	IF a radiation monitor indicates "OFF-LINE," DECLARE the radiation monitor INOPERABLE and LOG into all applicable LCOs.
GRADE	____	____	**Standards:**	Applicant informs the US that 3CMS*22 does not indicate "OFF-LINE".
			Evaluators NOTE:	The applicant may ask whether 3CMS*22 indicates "OFF-LINE". If so, provide the following cue:
			CUE (if required):	3CMS*22 indicates "ON-LINE".
			Grade:	**SAT** **UNSAT**
STEP	12	X	**Performance Step:** OP 3362, Att 6 Action 10.	Refer To T/S 3.3.3.1 and Table 3.3-6, "Radiation Monitoring Instrumentation for Plant Operations," and PERFORM applicable actions.
GRADE	____	X	**Standards:**	Applicant informs the US that T/S 3.3.3.1, "Radiation Monitoring Instrumentation for Plant Operations," must be referred to.
			CUE:	Acknowledge the applicant's report and reply that the US will refer to T/S 3.3.3.1.

PERFORMANCE INFORMATION

JPM Number: NRC RO A.3 Revision: 0

Task Title: Actions and Expected Response for RMS Equipment failure Alarms

			Grade:	**SAT**	**UNSAT**
STEP	13	X	**Performance Step:** OP 3362, Att 6 Action 12.	Refer To T/S 3.4.6.1, "Reactor Coolant System Leakage Detection Systems," and PERFORM applicable actions.	
GRADE		X	**Standards:**	Applicant informs the US that "T/S 3.4.6.1, "Reactor Coolant System Leakage Detection Systems," must be referred to.	
			CUE:	Acknowledge the applicant's report and reply that the US will refer to T/S 3.4.6.1.	
			Grade:	**SAT**	**UNSAT**
STEP	14		**Performance Step:**	Applicant Reports Task Completion.	
GRADE			**Standards:**	Applicant reports to the US that the applicable trouble responses have been performed.	
			CUE:	**The evaluation for this JPM is complete.**	

Stop Time: _____

VERIFICATION OF JPM COMPLETION

JPM Number: NRC RO A.3 Revision: 0

Date Performed: _____

Student: _____

Evaluator: _____

For the student to achieve a satisfactory grade, **ALL** critical steps must be completed correctly. If task is Time Critical, it **MUST** be completed within the specified time to achieve a satisfactory grade.

Time Critical Task? YES _____ NO X

Validated Time (minutes): 10

Actual Time to Complete (minutes): _____

Result of JPM: _____ ("S" for satisfactory, "U" for unsatisfactory)

Result of oral questions (if applicable):

Number of Questions: _____

Number of Correct Responses: _____

Score: _____

Areas for Improvement:

STUDENT HANDOUT

JPM Number: **NRC RO A.3**

Initial Conditions: The plant is at 100% power and you are the Extra Licensed Operator on shift. MB2B 2-9 "RMS TROUBLE" alarms. At the RMS Console you determine that an equipment failure alarm is in for 3CMS*RE22. Specifically, 'filter step' is in alarm.

Initiating Cues: The US has directed you to determine and perform required actions as a result of the 3CMS*RE22 equipment failure alarm.