

	JOB PERFORMANCE MEASURE (JPM)
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SITE: **Prairie Island**

TASK TITLE: RESPONSE TO CONTAINMENT ISOLATION FAILURE

JPM NUMBER: E0-29SF-1 **REV.** 0

RELATED PRA INFORMATION: **None**

TASK NUMBERS: CRO 3010010601

K/A NUMBERS: 013A4.01

APPLICABLE METHOD OF TESTING:

Discussion: Simulate/walkthrough: Perform:

EVALUATION LOCATION: In-Plant: Control Room:

Simulator: Other:

Lab:

Time for Completion: 10 Minutes Time Critical: NO

Alternate Path / Faulted: YES

TASK APPLICABILITY: SRO, RO

Additional signatures may be added as needed.

Developed by:	Mark Loosbrock	6/26/03
	Instructor	Date
Validated by:	Validation Instructor (See JPM Validation Checklist, Attachment 1)	Date
Approved by:	Training Supervisor	Date

JPM Number: E0-29SF-1

JPM Title: RESPONSE TO CONTAINMENT ISOLATION FAILURE

Examinee: _____

Evaluator: _____

Job Title: _____

Date: _____

Start Time _____

Finish Time _____

PERFORMANCE RESULTS:

SAT:

UNSAT:

COMMENTS/FEEDBACK: (Comments shall be made for any steps graded unsatisfactory).

EVALUATOR'S SIGNATURE: _____

NOTE: Only this page needs to be retained in examinee's record if completed satisfactorily. If unsatisfactory performance is demonstrated, the entire JPM should be retained.

JPM BRIEFING/TURNOVER

This section is read once for the entire package of JPMs. It is not required to review this section for every JPM being performed in the package. The initial conditions and initiating cue(s)/tasks to be performed should be read and then provided to the examinee.

Review PITC-90, JPM Briefing Checklist with trainee.

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

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

DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.

INITIAL CONDITIONS:

- Unit 1 is operating at 100% power with no equipment out of service.
- Unit 1 has just experienced an SI.
- Verification of immediate actions of 1E-0 are complete.

INITIATING CUES (IF APPLICABLE):

- The Unit 1 SS has directed you to perform Attachment L.

JPM PERFORMANCE INFORMATION

Required Materials: None

General References: **1E-0 Attachment L Auto Actions Guide**

Task Standards: **Perform Attachment L. Identify and manually actuate/close Containment Isolation valves from the control room.**

Start Time: _____

NOTE: When providing “Evaluator Cues” to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee’s actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

NOTE: Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

Performance Step: Critical <u>N</u>(SEQ-1)	SI NOT READY lights – NOT LIT
Standard:	Verifies SI NOT READY lights are not lit
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>N</u>(SEQ-2)	SI ACTIVE lights – lit for plant conditions
Standard:	Verifies SI ACTIVE Lights are LIT
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u>(SEQ-3)	Containment Isolation lights – lit for plant conditions. <ul style="list-style-type: none">• If NOT, then manually or locally align components as necessary.
Standard:	Identifies a CI train has failed to actuate and: <ul style="list-style-type: none">• Actuates containment Isolation using either control board switch
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u>(SEQ-4)	Containment Isolation lights – lit for plant conditions. <ul style="list-style-type: none">• If NOT, then manually or locally align components as necessary.
Standard:	Identifies letdown CI valve CV-31326 failed to close and attempts manual closure.
Evaluator Note:	Valve may be closed by closing letdown isolation valves.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Terminating Cues: When the candidate manually initiates CI and attempts to close CV-31326, inform the candidate that, "this JPM is complete."

Stop Time: _____

SIMULATOR SET UP: *(Modify table as necessary)*

Simulator Setup Instructions:

- Setup the simulator to IC-10 per normal checklist.
- Place the simulator in RUN.
- Actuate safety injection using either control board switch.
- WHEN the safeguards buses have completed load rejection/restoration, THEN acknowledge alarms and place the simulator in FREEZE.
- Provide the examinee with the turnover information.
- WHEN the examinee is ready to begin, THEN place the simulator in RUN.

<i>Relative Order</i>	<i>Type</i>	<i>Code</i>	<i>Severity or Value</i>	<i>Event Trigger</i>	<i>Description</i>
0	Malfunction	RP05			Train A CI Fails to Actuate
0	OVRD DI	46171 O open	ON		CV-31326 fails to close

TURNOVER SHEET

INITIAL CONDITIONS:

- Unit 1 has just experienced an SI.
- Verification of immediate actions of 1E-0 are complete.

INITIATING CUES (IF APPLICABLE):

- The Unit 1 SS has directed you to perform Attachment L.

EO-30SF-1, Respond to Stuck Open Pressurizer Spray Valve

ATTACHMENT 1

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the signature page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12. Are all references identified, current, accurate, and available to the trainee?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

All questions/statements must be answered "YES" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation shall sign and date this form.

Validation Personnel /Date

Validation Personnel/Date

EO-30SF-1, Respond to Stuck Open Pressurizer Spray Valve

	SIMULATOR JPM GUIDE
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EO-30SF-1 Respond to stuck open pressurizer spray valve	6/04/03
JPM NUMBER/TITLE	DATE

Approved by:	
<i>TRAINING MANAGEMENT</i>	
Approved by:	
<i>PROGRAM OWNER</i>	

EVALUATION LOCATION:	<input type="checkbox"/> PLANT <input checked="" type="checkbox"/> SIMULATOR <input type="checkbox"/> CONTROL ROOM
EVALUATION METHOD:	<input checked="" type="checkbox"/> PERFORM <input type="checkbox"/> SIMULATE
AVG. COMPLETION TIME:	3 AVG. TIME FOR THIS JPM IN MINUTES
TIME CRITICAL TASK:	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
MAX. COMPLETION TIME:	MAX. TIME ALLOWED FOR JPM IN MINUTES <input checked="" type="checkbox"/> N/A FOR NON-TIME CRITICAL JPM
LICENSEE LEVEL:	<input checked="" type="checkbox"/> SRO <input checked="" type="checkbox"/> RO <input type="checkbox"/> OTHER: list applicable positions as needed
TASK NUMBER:	_____
	TASK NUMBER
TASK TITLE:	_____
	TASK TITLE
TASK TYPE:	<input checked="" type="checkbox"/> INITIAL <input type="checkbox"/> CONTINUING
K/A REFERENCE:	010 A2.02

	K/A REFERENCE
PLANT SYSTEM:	Pressurizer Pressure Control 010

	PLANT SYSTEM NAME/NUMBER
CRITICAL STEPS:	_____
	CRITICAL (C) STEPS

	SEQUENCE CRITICAL (S) STEPS

	TIME (T) CRITICAL STEPS
TOOLS & EQUIPMENT:	LIST SPECIAL TOOLS REQUIRED TO PERFORM JPM
REFERENCES:	LIST REFERENCES USED TO PERFORM JPM

EO-30SF-1, Respond to Stuck Open Pressurizer Spray Valve

Note: The follow Simulator JPM and simulator Setup, Malfunctions, Override, Remote Function sections are only applicable when simulator is used.

SIMUALTOR JPM

IF the Operator is present when setting up for the JPM, THEN read the following:

PLEASE STANDBY WHILE WE ESTABLISH CONDITIONS FOR THE NEXT JPM.

Ensure the simulator is clear of all unauthorized individuals and conducive to conducting the examination.

Ensure all procedures and other materials necessary to conduct the JPM examination are in their proper locations

EO-30SF-1, Respond to Stuck Open Pressurizer Spray Valve

SIMULATOR SET UP: IC-10

Note: Manually open spray valve CV-31225 to 65% before inserting malf, then return controller to auto. Output dial to 0

EVENT NUMBER	EVENT FILE NAME	EVENT LOGIC STATEMENT	EVENT WORD DESCRIPTION

SIMULATOR MALFUNCTIONS:

TIME	MALFUNCTION No.	MALFUNCTION TITLE	ET	DELAY	F. SEV.	RAMP	I. SEV.
	RC24B	Pzr spray mech stuck open					

SIMULATOR OVERRIDES:

TIME	OVERRIDE ID.	OVERRIDE DESCRIPTION	ET	DELAY	VALUE	RAMP
	AO-4304103: M2	Controller output			100	

SIMULATOR REMOTE FUNCTIONS:

TIME	REMOTE FUNCTION No.	REMOTE FUNTION TITLE	VALUE	RAMP

GO TO NEXT PAGE

EO-30SF-1

READ THE FOLLOWING INSTRUCTIONS TO THE OPERATOR:

THIS TASK IS NOT TIME CRITICAL

THE TASK CONDITIONS ARE:

THE STEPS IN THIS JPM SHOULD BE:

INITIATING CUE: The Reactor has tripped, Perform E-0 step 8 and Respond to Plant Conditions

INFORM THE EVALUATOR WHEN YOU HAVE COMPLETED THE TASK:

DO YOU HAVE ANY QUESTIONS BEFORE WE BEGIN?

Answer any questions the operator may have, then read the following to initiate the JPM:

IF THERE ARE NO FURTHER QUESTIONS THEN LET'S BEGIN

GO TO NEXT PAGE

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INSTRUCTOR ACTIONS:

If required take the simulator out of freeze. (Only applicable if using simulator.)

Use the JPM evaluation form to mark the Operator's performance as the task is being performed.

Follow the prescribed format for implementing the JPM evaluation.

Provide cues in accordance with the JPM.

Take notes to support the results of the pass/fail grade.

For unsatisfactory grades, documentation must be noted in the comments section of the JPM evaluation form.

GO TO NEXT PAGE

LOG START TIME:

NOTE: Critical steps are denoted with a "C." Failure to meet the standard for this step constitutes failure.

PERFORMANCE STEP: CRITICAL: C	Check Pressurizer PORVs and Spray Valves
STANDARD:	Checks Pressurizer PORVs and Spray Valves closed a. Checks pressurizer PORVs closed b. Checks pressurizer Spray valves closed - verifies RCS pressure is less than 2260 PSIG - determines one spray valve is open and attempts to close it. - determines spray valve will not close and stops both RCPs
PERFORMANCE RESULTS:	<input type="checkbox"/> SATISFACTORY <input type="checkbox"/> UNSATISFACTORY
COMMENTS:	

TERMINATING CUE: **After examinee stops both RCPs, inform examinee the JPM is complete.**

LOG STOP TIME:

GO TO NEXT PAGE

When the operator completes the JPM, then read the following:

THAT COMPLETES THIS PORTION OF THE JPM.

Ask any required follow-up questions and note the questions and answers in the JPM evaluation comments section.

When follow-up questions are complete, then read the following:

THAT COMPLETES THIS JPM.

GO TO NEXT PAGE

VERIFICATION OF COMPLETION

JPM NUMBER: _____

JPM TITLE: _____

OPERATOR: _____ EVALUATOR: _____

VERIFICATION STATEMENT	YES	NO	N/A
Were all critical steps performed correctly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If the JPM was time critical, <u>Then</u> was the JPM completed in the designated time?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If the JPM was not time critical, <u>Then</u> was acceptable progress made in performing the task?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Was the task standard met?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If any of the above questions were answered NO, then this JPM must be evaluated as unsatisfactory.

LICENSEE:

- SRO
- RO
- SRO CERTIFICATION
- OTHER: list applicable positions as needed

RESULTS:

- SATISFACTORY
- UNSATISFACTORY

COMMENTS/FEEDBACK: (Comments shall be made for any steps graded unsatisfactory).

EVALUATOR'S SIGNATURE: _____

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

ALL STEPS IN THIS CHECKLIST MUST BE PERFORMED UPON INITIAL VALIDATION AND REVALIDATION PRIOR TO USE.

REVIEW STATEMENTS	YES	NO
1. All items on page one of this procedure are filled in correctly?	<input type="checkbox"/>	<input type="checkbox"/>
2. The JPM has been reviewed and validated by SMEs?	<input type="checkbox"/>	<input type="checkbox"/>
3. The required conditions for the JPM can be appropriately established in the simulator?	<input type="checkbox"/>	<input type="checkbox"/>
4. The performance steps accurately reflect operator actions in accordance with plant procedures?	<input type="checkbox"/>	<input type="checkbox"/>
5. The standard for each performance item is specific as to what controls, indications and ranges are required to evaluate if the operator properly performed the step?	<input type="checkbox"/>	<input type="checkbox"/>
6. The average completion time has been established based on validation data or incumbent experience?	<input type="checkbox"/>	<input type="checkbox"/>
7. Establishing the task as time critical is based on actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>
8. The maximum time requirement has been established based on actual task performance requirements or if a maximum time requirement does not apply, then it has been based on reasonable progress in completing the task?	<input type="checkbox"/>	<input type="checkbox"/>
9. Licensee level is appropriate for the task being evaluated?	<input type="checkbox"/>	<input type="checkbox"/>
10. The K/A is appropriate to the task and to the licensee level?	<input type="checkbox"/>	<input type="checkbox"/>
11. Critical steps have been identified and typed (C, S, T) appropriately?	<input type="checkbox"/>	<input type="checkbox"/>
12. All special tools and equipment needed to perform the task have been identified and are available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>
13. All references are identified, current and accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>
14. All required cues (as can be anticipated) have been identified for the evaluator to assist task completion.	<input type="checkbox"/>	<input type="checkbox"/>

All questions/statements must be answered "YES" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation shall sign and date this form.

Validation Personnel /Date

Validation Personnel/Date

	SIMULATOR JPM GUIDE
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JPM NUMBER/TITLE	DATE

Approved by:	
<i>TRAINING MANAGEMENT</i>	
Approved by:	
<i>PROGRAM OWNER</i>	

EVALUATION LOCATION:	<input type="checkbox"/> PLANT <input type="checkbox"/> SIMULATOR <input type="checkbox"/> CONTROL ROOM
EVALUATION METHOD:	<input type="checkbox"/> PERFORM <input type="checkbox"/> SIMULATE
AVG. COMPLETION TIME:	AVG. TIME FOR THIS JPM IN MINUTES
TIME CRITICAL TASK:	<input type="checkbox"/> YES <input type="checkbox"/> NO
MAX. COMPLETION TIME:	MAX. TIME ALLOWED FOR JPM IN MINUTES <input type="checkbox"/> N/A FOR NON-TIME CRITICAL JPM
LICENSEE LEVEL:	<input type="checkbox"/> SRO <input type="checkbox"/> RO <input type="checkbox"/> OTHER: list applicable positions as needed
TASK NUMBER:	_____
	TASK NUMBER
TASK TITLE:	_____
	TASK TITLE
TASK TYPE:	<input type="checkbox"/> INITIAL <input type="checkbox"/> CONTINUING
K/A REFERENCE:	_____
	K/A REFERENCE
PLANT SYSTEM:	_____
	PLANT SYSTEM NAME/NUMBER
CRITICAL STEPS:	_____
	CRITICAL (C) STEPS

	SEQUENCE CRITICAL (S) STEPS

	TIME (T) CRITICAL STEPS
TOOLS & EQUIPMENT:	LIST SPECIAL TOOLS REQUIRED TO PERFORM JPM
REFERENCES:	LIST REFERENCES USED TO PERFORM JPM

Note: The follow Simulator JPM and simulator Setup, Malfunctions, Override, Remote Function sections are only applicable when simulator is used.

SIMUALTOR JPM

IF the Operator is present when setting up for the JPM, THEN read the following:

PLEASE STANDBY WHILE WE ESTABLISH CONDITIONS FOR THE NEXT JPM.

Ensure the simulator is clear of all unauthorized individuals and conducive to conducting the examination.

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Ensure all procedures and other materials necessary to conduct the JPM examination are in their proper locations

SIMULATOR SET UP:

EVENT NUMBER	EVENT FILE NAME	EVENT LOGIC STATEMENT	EVENT WORD DESCRIPTION

SIMULATOR MALFUNCTIONS:

TIME	MALFUNCTION No.	MALFUNCTION TITLE	ET	DELAY	F. SEV.	RAMP	I. SEV.

SIMULATOR OVERRIDES:

TIME	OVERRIDE ID.	OVERRIDE DESCRIPTION	ET	DELAY	VALUE	RAMP

SIMULATOR REMOTE FUNCTIONS:

TIME	REMOTE FUNCTION No.	REMOTE FUNTION TITLE	VALUE	RAMP

GO TO NEXT PAGE

READ THE FOLLOWING INSTRUCTIONS TO THE OPERATOR:

THIS TASK IS/ IS NOT TIME CRITICAL

THE TASK CONDITIONS ARE:

THE STEPS IN THIS JPM SHOULD BE:

INITIATING CUE:

INFORM THE EVALUATOR WHEN YOU HAVE COMPLETED THE TASK:

DO YOU HAVE ANY QUESTIONS BEFORE WE BEGIN?

Answer any questions the operator may have, then read the following to initiate the JPM:

IF THERE ARE NO FURTHER QUESTIONS THEN LET'S BEGIN

GO TO NEXT PAGE

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INSTRUCTOR ACTIONS:

If required take the simulator out of freeze. (Only applicable if using simulator.)

Use the JPM evaluation form to mark the Operator's performance as the task is being performed.

Follow the prescribed format for implementing the JPM evaluation.

Provide cues in accordance with the JPM.

Take notes to support the results of the pass/fail grade.

For unsatisfactory grades, documentation must be noted in the comments section of the JPM evaluation form.

GO TO NEXT PAGE

LOG START TIME:

NOTE: Critical steps are denoted with a "C." Failure to meet the standard for this step constitutes failure.

PERFORMANCE STEP: CRITICAL: C	
STANDARD:	
PEFORMANCE RESULTS:	<input type="checkbox"/> SATISFACTORY <input type="checkbox"/> UNSATISFACTORY
COMMENTS:	

PERFORMANCE STEP: CRITICAL: C	
STANDARD:	
PEFORMANCE RESULTS:	<input type="checkbox"/> SATISFACTORY <input type="checkbox"/> UNSATISFACTORY
COMMENTS:	

PERFORMANCE STEP: CRITICAL: C	
STANDARD:	
PEFORMANCE RESULTS:	<input type="checkbox"/> SATISFACTORY <input type="checkbox"/> UNSATISFACTORY
COMMENTS:	

TEMINATING CUE:

LOG STOP TIME:

GO TO NEXT PAGE

When the operator completes the JPM, then read the following:

THAT COMPLETES THIS PORTION OF THE JPM.

Ask any required follow-up questions and note the questions and answers in the JPM evaluation comments section.

When follow-up questions are complete, then read the following:

THAT COMPLETES THIS JPM.

GO TO NEXT PAGE

VERIFICATION OF COMPLETION

JPM NUMBER: _____

JPM TITLE: _____

OPERATOR: _____ EVALUATOR: _____

VERIFICATION STATEMENT	YES	NO	N/A
Were all critical steps performed correctly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If the JPM was time critical, <u>Then</u> was the JPM completed in the designated time?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If the JPM was not time critical, <u>Then</u> was acceptable progress made in performing the task?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Was the task standard met?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If any of the above questions were answered NO, then this JPM must be evaluated as unsatisfactory.

LICENSEE:

- SRO
- RO
- SRO CERTIFICATION
- OTHER: list applicable positions as needed

RESULTS:

- SATISFACTORY
- UNSATISFACTORY

COMMENTS/FEEDBACK: (Comments shall be made for any steps graded unsatisfactory).

EVALUATOR'S SIGNATURE: _____

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

ALL STEPS IN THIS CHECKLIST MUST BE PERFORMED UPON INITIAL VALIDATION AND REVALIDATION PRIOR TO USE.

REVIEW STATEMENTS	YES	NO
1. All items on page one of this procedure are filled in correctly?	<input type="checkbox"/>	<input type="checkbox"/>
2. The JPM has been reviewed and validated by SMEs?	<input type="checkbox"/>	<input type="checkbox"/>
3. The required conditions for the JPM can be appropriately established in the simulator?	<input type="checkbox"/>	<input type="checkbox"/>
4. The performance steps accurately reflect operator actions in accordance with plant procedures?	<input type="checkbox"/>	<input type="checkbox"/>
5. The standard for each performance item is specific as to what controls, indications and ranges are required to evaluate if the operator properly performed the step?	<input type="checkbox"/>	<input type="checkbox"/>
6. The average completion time has been established based on validation data or incumbent experience?	<input type="checkbox"/>	<input type="checkbox"/>
7. Establishing the task as time critical is based on actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>
8. The maximum time requirement has been established based on actual task performance requirements or if a maximum time requirement does not apply, then it has been based on reasonable progress in completing the task?	<input type="checkbox"/>	<input type="checkbox"/>
9. Licensee level is appropriate for the task being evaluated?	<input type="checkbox"/>	<input type="checkbox"/>
11. The K/A is appropriate to the task and to the licensee level?	<input type="checkbox"/>	<input type="checkbox"/>
11. Critical steps have been identified and typed (C, S, T) appropriately?	<input type="checkbox"/>	<input type="checkbox"/>
12. All special tools and equipment needed to perform the task have been identified and are available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>
13. All references are identified, current and accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>
14. All required cues (as can be anticipated) have been identified for the evaluator to assist task completion.	<input type="checkbox"/>	<input type="checkbox"/>

All questions/statements must be answered "YES" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation shall sign and date this form.

Validation Personnel /Date

Validation Personnel/Date

	SIMULATOR JPM GUIDE
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EO – 29SF-1 Response to Containment Isolation Failure	6/04/03
JPM NUMBER/TITLE	DATE

Approved by:	
<i>TRAINING MANAGEMENT</i>	
Approved by:	
<i>PROGRAM OWNER</i>	

EVALUATION LOCATION:	<input type="checkbox"/> PLANT <input checked="" type="checkbox"/> SIMULATOR <input type="checkbox"/> CONTROL ROOM
EVALUATION METHOD:	<input checked="" type="checkbox"/> PERFORM <input type="checkbox"/> SIMULATE
AVG. COMPLETION TIME:	AVG. TIME FOR THIS JPM IN MINUTES
TIME CRITICAL TASK:	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
MAX. COMPLETION TIME:	MAX. TIME ALLOWED FOR JPM IN MINUTES X N/A FOR NON-TIME CRITICAL JPM
LICENSEE LEVEL:	<input type="checkbox"/> SRO <input checked="" type="checkbox"/> RO <input type="checkbox"/> OTHER:
TASK NUMBER:	_____
	TASK NUMBER
TASK TITLE:	_____
	TASK TITLE
TASK TYPE:	<input checked="" type="checkbox"/> INITIAL <input checked="" type="checkbox"/> CONTINUING
K/A REFERENCE:	2.1.31
	K/A REFERENCE
PLANT SYSTEM:	Safeguard Components (Containment Isolation)
	PLANT SYSTEM NAME/NUMBER
CRITICAL STEPS:	_____
	CRITICAL (C) STEPS
	yes
	SEQUENCE CRITICAL (S) STEPS

	TIME (T) CRITICAL STEPS
TOOLS & EQUIPMENT:	none
REFERENCES:	E -0 Attachment L

Note: The follow Simulator JPM and simulator Setup, Malfunctions, Override, Remote Function sections are only applicable when simulator is used.

IF the Operator is present when setting up for the JPM, THEN read the following:

PLEASE STANDBY WHILE WE ESTABLISH CONDITIONS FOR THE NEXT JPM.

Ensure the simulator is clear of all unauthorized individuals and conducive to conducting the examination.

Ensure all procedures and other materials necessary to conduct the JPM examination are in their proper locations

SIMULATOR SET UP: IC-10

EVENT NUMBER	EVENT FILE NAME	EVENT LOGIC STATEMENT	EVENT WORD DESCRIPTION

SIMULATOR MALFUNCTIONS:

TIME	MALFUNCTION No.	MALFUNCTION TITLE	ET	DELAY	F. SEV.	RAMP	I. SEV.
0	Any man or auto SI						
0	RP05	CI Train failure					
0	RP03J	CI partial failure					

SIMULATOR OVERRIDES:

TIME	OVERRIDE ID.	OVERRIDE DESCRIPTION	ET	DELAY	VALUE	RAMP
0	DI 46171 O	CV-31326 open			on	

SIMULATOR REMOTE FUNCTIONS:

TIME	REMOTE FUNCTION No.	REMOTE FUNTION TITLE	VALUE	RAMP

GO TO NEXT PAGE

READ THE FOLLOWING INSTRUCTIONS TO THE OPERATOR:

THIS TASK IS NOT TIME CRITICAL

THE TASK CONDITIONS ARE:

THE STEPS IN THIS JPM SHOULD BE:

INITIATING CUE: An SI has initiated on Unit I and the SS directs you to complete E - 0 Attachment L

INFORM THE EVALUATOR WHEN YOU HAVE COMPLETED THE TASK:

DO YOU HAVE ANY QUESTIONS BEFORE WE BEGIN?

Answer any questions the operator may have, then read the following to initiate the JPM:

IF THERE ARE NO FURTHER QUESTIONS THEN LET'S BEGIN

GO TO NEXT PAGE

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INSTRUCTOR ACTIONS:

If required take the simulator out of freeze. (Only applicable if using simulator.)

Use the JPM evaluation form to mark the Operator's performance as the task is being performed.

Follow the pre-scripted format for implementing the JPM evaluation.

Provide cues in accordance with the JPM.

Take notes to support the results of the pass/fail grade.

For unsatisfactory grades, documentation must be noted in the comments section of the JPM evaluation form.

GO TO NEXT PAGE

LOG START TIME:

NOTE: Critical steps are denoted with a "C." Failure to meet the standard for this step constitutes failure.

PERFORMANCE STEP: CRITICAL:	Verify Safeguard Component Alignment
STANDARD:	Verifies Safeguard component alignment: a. SI NOT READY lights NOT LIT b. SI ACTIVE lights LIT FOR PLANT CONDITIONS c. CONTAINMENT ISOLATION lights lit for plant conditions.
PEFORMANCE RESULTS:	<input type="checkbox"/> SATISFACTORY <input type="checkbox"/> UNSATISFACTORY
COMMENTS:	

PERFORMANCE STEP: CRITICAL: C	Determines Containment Isolation alignment is not sat.
STANDARD:	Identifies CI train failed to actuate and manually initiates CI using control board switch.
PEFORMANCE RESULTS:	<input type="checkbox"/> SATISFACTORY <input type="checkbox"/> UNSATISFACTORY
COMMENTS:	

PERFORMANCE STEP: CRITICAL: C	Identifies LD CI CV-31326 failed to close and attempts manual closure.
STANDARD:	
PEFORMANCE RESULTS:	<input type="checkbox"/> SATISFACTORY <input type="checkbox"/> UNSATISFACTORY
COMMENTS:	

TEMINATING CUE: After examinee manually initiates CI, identifies LD CI failed to close and attempt to manually close CV-31326, inform examinee the JPM is complete.

LOG STOP TIME:

GO TO NEXT PAGE

When the operator completes the JPM, then read the following:

THAT COMPLETES THIS PORTION OF THE JPM.

Ask any required follow-up questions and note the questions and answers in the JPM evaluation comments section.

When follow-up questions are complete, then read the following:

THAT COMPLETES THIS JPM.

GO TO NEXT PAGE

VERIFICATION OF COMPLETION

JPM NUMBER: _____

JPM TITLE: _____

OPERATOR: _____ EVALUATOR: _____

VERIFICATION STATEMENT	YES	NO	N/A
Were all critical steps performed correctly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If the JPM was time critical, <u>Then</u> was the JPM completed in the designated time?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If the JPM was not time critical, <u>Then</u> was acceptable progress made in performing the task?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Was the task standard met?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If any of the above questions were answered NO, then this JPM must be evaluated as unsatisfactory.

LICENSEE:

- SRO
- RO
- SRO CERTIFICATION
- OTHER: list applicable positions as needed

RESULTS:

- SATISFACTORY
- UNSATISFACTORY

COMMENTS/FEEDBACK: (Comments shall be made for any steps graded unsatisfactory).

EVALUATOR'S SIGNATURE: _____

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

ALL STEPS IN THIS CHECKLIST MUST BE PERFORMED UPON INITIAL VALIDATION AND REVALIDATION PRIOR TO USE.

REVIEW STATEMENTS	YES	NO
1. All items on page one of this procedure are filled in correctly?	<input type="checkbox"/>	<input type="checkbox"/>
2. The JPM has been reviewed and validated by SMEs?	<input type="checkbox"/>	<input type="checkbox"/>
3. The required conditions for the JPM can be appropriately established in the simulator?	<input type="checkbox"/>	<input type="checkbox"/>
4. The performance steps accurately reflect operator actions in accordance with plant procedures?	<input type="checkbox"/>	<input type="checkbox"/>
5. The standard for each performance item is specific as to what controls, indications and ranges are required to evaluate if the operator properly performed the step?	<input type="checkbox"/>	<input type="checkbox"/>
6. The average completion time has been established based on validation data or incumbent experience?	<input type="checkbox"/>	<input type="checkbox"/>
7. Establishing the task as time critical is based on actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>
8. The maximum time requirement has been established based on actual task performance requirements or if a maximum time requirement does not apply, then it has been based on reasonable progress in completing the task?	<input type="checkbox"/>	<input type="checkbox"/>
9. Licensee level is appropriate for the task being evaluated?	<input type="checkbox"/>	<input type="checkbox"/>
12. The K/A is appropriate to the task and to the licensee level?	<input type="checkbox"/>	<input type="checkbox"/>
11. Critical steps have been identified and typed (C, S, T) appropriately?	<input type="checkbox"/>	<input type="checkbox"/>
12. All special tools and equipment needed to perform the task have been identified and are available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>
13. All references are identified, current and accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>
14. All required cues (as can be anticipated) have been identified for the evaluator to assist task completion.	<input type="checkbox"/>	<input type="checkbox"/>

All questions/statements must be answered "YES" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation shall sign and date this form.

Validation Personnel /Date

Validation Personnel/Date

	JOB PERFORMANCE MEASURE (JPM)
-----------------------------------------------------------------------------------	--------------------------------------

SITE: **Prairie Island**

TASK TITLE: RESPONSE TO CONTAINMENT ISOLATION FAILURE

JPM NUMBER: E0-29SF-1 **REV. 0**

RELATED PRA INFORMATION: **PRA Identified Task**

TASK NUMBERS: CRO 3010010601

K/A NUMBERS: 013A4.01

APPLICABLE METHOD OF TESTING:

Discussion: Simulate/walkthrough: Perform:

EVALUATION LOCATION: In-Plant: Control Room:

Simulator: Other:

Lab:

Time for Completion: 10 Minutes Time Critical: _____

Alternate Path / Faulted: _____

TASK APPLICABILITY: SRO, RO

Additional signatures may be added as needed.

Developed by:	Dennis Westphal	7/14/03
	Instructor	Date
Validated by:	Validation Instructor	Date
	(See JPM Validation Checklist, Attachment 1)	
Approved by:	Training Supervisor	Date

JPM BRIEFING/TURNOVER

Add required site specific JPM briefing material here:

i.e., This section is read once for the entire package of JPMs. It is not required to review this section for every JPM being performed in the package. The initial conditions and initiating cue(s)/tasks to be performed should be read and then provided to the examinee.

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

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

DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.

INITIAL CONDITIONS:

- Both Units are at 100% power.
- A fire has occurred in the Control Room and thick black smoke is making visibility very difficult.
- As the Unit 1 SS, you have decided to implement F5 Appendix B, Control Room Evacuation (Fire) procedure.

INITIATING CUES (IF APPLICABLE):

- Perform Unit 1 SS actions in accordance with F5 Appendix B, Attachment A.

JPM PERFORMANCE INFORMATION

Required Materials: Copy of F5 Appendix B, Attachment A, Attachment I, Attachment J, and Attachment K
General References: F5 Appendix B
Task Standards: F5 Appendix B, Attachment A – Unit 1 Shift Supervisor Actions completed.

Start Time: _____

NOTE: When providing “Evaluator Cues” to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee’s actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

NOTE: Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

Performance Step: Critical _____	Make decision to evacuate Control Room.
Standard:	Decision made to evacuate the control room, based on visibility and habitability of the Control Room.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical _____	Announce: "Attention all plant personnel. Control Room is being evacuated and F5 Appendix B is being implemented."
Standard:	Announcement made.
Evaluator Cue:	Acknowledge announcement.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u> (S-1)	Ensure all watchstanders are aware of the Control Room evacuation.
Standard:	All watchstanders made aware that a Control Room evacuation is in progress.
Evaluator Note:	Examinee should indicate the methodology used to make all watchstanders aware (plant page, radio, telephone, word of mouth).
Evaluator Cue:	Acknowledge as all watchstanders, the Control Room evacuation.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u> (S-1)	Notify Shift Security Lieutenant (4318) and Shift Manager (SM) and the Fire Department if not already accomplished.
Standard:	Shift Security Lieutenant, Shift Manager, and the Fire Department notified.
Evaluator Note:	Examinee should indicate what each party will be notified of (fire, control room evacuation, plant shutdown from outside control room).
Evaluator Cue:	Acknowledge as each party, the notification made.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical _____	If relay room CARDOX system has actuated or is expected to actuate, then direct operations personnel to Don SCBA's prior to evacuating
Standard:	Examinee states, CARDOX not actuated nor expected
Evaluator Cue:	Inform examinee CARDOX not actuated and not expected
Performance:	SATISFACTORY _____ UNSATISFACTORY _____

Performance Step: Critical _____	Don SCBA if required
Standard:	Examinee acknowledges SCBA is not required
Evaluator Cue:	Inform examinee SCBA is not required
Performance:	SATISFACTORY _____ UNSATISFACTORY _____

Performance Step: Critical _____	Proceed with radio, flashlight, set of keys, and this Attachment (A), to hot shutdown panels in the Auxiliary Feedwater Pump rooms. (Use lighted stairwell, near Records Room.)
Standard:	Examinee goes to Auxiliary Feedwater Pump room with radio, flashlight, set of keys, and Attachment A.
Evaluator Note:	Examinee should use stairways instead of elevators due to the potential for a loss of offsite power at any time during this event.
Evaluator Cue:	As Examinee states that he/she would obtain a radio, flashlight, and set of keys, inform examinee that they have obtained said items.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

<p>Performance Step: Critical <u>Y</u> (S-2)</p>	<p>Place the following Local/Remote Control Switches on "A" Train HSDP to "LOCAL".</p> <p style="text-align: center;"><i>Unit 1</i></p> <p>CS-51001, Unit 1 PZR Heaters Group A CS-51003, 11 TD AFWP to 11 Stm Gen MV32238 CS-51005, 11 TD AFWP to 12 Stm Gen MV32239 CS-51009, LTDN Orifice Isol 40 gpm CV31325 CS-51011, LTDN Orifice Isol 40 gpm CV31326 CS-51013, LTDN Orifice Isol 80 gpm CV31327 CS-51007, 11 Boric Acid Transfer Pump</p>
<p>Standard:</p>	<p>Listed Local/Remote Control Switches simulated placed to "LOCAL".</p>
<p>Evaluator Cue:</p>	<p>Provide cues as need to insure you as the examiner understand clearly what action the examinee has simulated. Example: Point to switch examinee pointed to, I understand you placed this switch in local.</p>
<p>Performance:</p>	<p>SATISFACTORY _____ UNSATISFACTORY _____</p>
<p>Comments:</p>	<p>_____</p>

<p>Performance Step: Critical <u>Y</u> (S-2)</p>	<p>Place the following Local/Remote Control Switches on "A" Train HSDP to "LOCAL" (cont'd).</p> <p style="text-align: center;"><i>Unit 2</i></p> <p>CS-51101, Unit 2 PZR Heaters Group A CS-51103, 21 TD AFWP to 21 Stm Gen MV32383 CS-51105, 21 TD AFWP to 22 Stm Gen MV32384 CS-51109, LTDN Orifice Isol 40 gpm CV31347 CS-51111, LTDN Orifice Isol 40 gpm CV31348 CS-51113, LTDN Orifice Isol 80 gpm CV31349 CS-51107, 21 Boric Acid Transfer Pump</p>
<p>Standard:</p>	<p>Listed Local/Remote Control Switches simulated placed to "LOCAL".</p>
<p>Evaluator Cue:</p>	<p>_____</p>
<p>Performance:</p>	<p>SATISFACTORY _____ UNSATISFACTORY _____</p>
<p>Comments:</p>	<p>_____</p>

Performance Step: Critical <u>Y</u> (S-2)	Place the following Pwr Operated Relief Valves to "MANUAL CLOSE": HC-28400, 1A Atm Stm Relief (Power Op) CV31084 HC-28408, 2A Atm Stm Relief (Power Op) CV31102
Standard:	Power Operated Relief Valves CV31084 and CV31102 simulated placed to "MANUAL CLOSE".
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u> (S-2)	Place the following AFW Pump Local/Remote Switches to "LOCAL": CS-51517, 12 MD AFWP CS-51617, 22 TD AFWP CS-19640, Clg Wtr to 12 MD AFWP Suct CS-19642, Cond to 12 MD AFWP Suct CS-19650, Cond to 22 TD AFWP Suct CS-19648, Clg Wtr to 22 TD AFWP Suct
Standard:	Listed Local/Remote Control Switches simulated placed to "LOCAL".
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u> (S-2)	Place the following Local/Remote Control Switches on "B" Train HSDP to "LOCAL". <i>Unit 1</i> CS-51501, Unit 1 PZR Heaters Group B CS-51503, 12 MD AFWP to 11 Stm Gen MV32381 CS-51505, 12 MD AFWP to 12 Stm Gen MV32382 CS-51515, 11 Chg Pump CS-51513, 13 Chg Pump CS-51507, 12 Boric Acid Transfer Pump
Standard:	Listed Local/Remote Control Switches simulated placed to "LOCAL".
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u> (S-2)	Place the following Local/Remote Control Switches on "B" Train HSDP to "LOCAL" (cont'd). <i>Unit 2</i> CS-51601, Unit 2 PZR Heaters Group B CS-51603, 22 TD AFWP to 21 Stm Gen MV32246 CS-51605, 22 TD AFWP to 22 Stm Gen MV32247 CS-51615, 21 Chg Pump CS-51613, 23 Chg Pump CS-51607, 22 Boric Acid Transfer Pump
Standard:	Listed Local/Remote Control Switches simulated placed to "LOCAL".
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u> (S-2)	Place the following Pwr Operated Relief Valves to "MANUAL CLOSE": HC-28407, 1B Atm Stm Relief (Power Op) CV31089 HC-28409, 2B Atm Stm Relief (Power Op) CV31107
Standard:	Power Operated Relief Valves CV31089 and CV31107 simulated placed to "MANUAL CLOSE".
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u> (S-2)	Place the following AFW Pump Local/Remote Switches to "LOCAL": CS-51017, 11 TD AFWP CV31998 CS-51117, 21 MD AFWP CS-19636, Clg Wtr to 11 TD AFWP Suct CS-19638, Cond to 11 TD AFWP Suct CS-19644, Clg Wtr to 21 MD AFWP Suct CS-19646, Cond to 21 MD AFWP Suct
Standard:	Listed Local/Remote Control Switches simulated placed to "LOCAL".
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step:	Place the following MCC breakers in the OFF position
Critical <u>Y</u> (S-3)	1A1-Z5 Sump B to 11 RHR pump MV-32077 1A1-A5 Sump B to 12 RHR pump MV-32078 2A1-A2 Sump B to 21 RHR pump MV-32180 2A1-A4 Sump B to 22 RHR pump MV-32181
Standard:	Breakers 1A1-Z5, 1A1-A5, 2A1-A2, 2A1-A4 simulated placed in off
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step:	Align Auxiliary Feedwater per Attachment I.
Critical <u>Y</u> (S-3)	A. OPEN the following MCC breakers: <ul style="list-style-type: none">• 1A1-B2, 11 TD AFW Pmp Cond Sply MV-32333• 2A2-B2, 22 TD AFW Pmp Cond Sply MV-32345
Standard:	MCC breakers 1A1-B2 and 2A2-B2 are simulated opened.
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step:	Align Auxiliary Feedwater per Attachment I (cont'd).
Critical _____	B. Check OPEN the following valves (if not open, then manually open using local handwheel(s)): <ul style="list-style-type: none">• MV-32333, 11 TD AFW Pmp Suct From CST MV• MV-32345, 22 TD AFW Pmp Suct From CST MV
Standard:	Valves MV-32333 and MV-32345 are checked open.
Evaluator Cue:	Valves MV-32333 and MV-32345 are open.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u> (S-4)	Align Auxiliary Feedwater per Attachment I (cont'd). C. Check 11 and 22 AFW Pumps RUNNING, if either pump is not running then start the non-running TDAFWP(s) as follows: <ul style="list-style-type: none">• Start 11 TDAFWP as follows:<ul style="list-style-type: none">• If the auxiliary lube oil pump is not running, then depress pushbutton CS-19333, 11 TD AFW Pmp Aux L-O Pmp Start/Stop PB.• Place 1AF-292-1, 11 TD AFW Pmp Mn Stm Sply CV-31998 Root Isol, in the "OPEN" position. 11 TDAFWP should roll up to full speed within 30 seconds.• Start 22 TDAFWP as follows:<ul style="list-style-type: none">• If the auxiliary lube oil pump is not running, then depress pushbutton CS-19335, 22 TD AFW Pmp Aux L-O Pmp Start/Stop PB.• Place 2AF-292-1, 22 TD AFW Pmp Mn Stm Sply CV-31999 Root Isol, in the "OPEN" position. 22 TDAFWP should roll up to full speed within 30 seconds.
Standard:	11 and 22 TD AFW Pumps are running.
Evaluator Cue:	<p>If examinee asks if 11 and 22 TD AFW Pumps are running, inform examinee that, "11 and 22 TD AFW Pumps are not running."</p> <p>If examinee asks if 11 and 22 TD AFW Pumps Aux Lube Oil Pumps are running, inform examinee that, "11 and 22 TD AFW Pumps Aux Lube Oil Pumps are not running."</p> <p>When examinee simulates starting 11 and 22 TD AFW Pumps Aux Lube Oil Pumps, inform examinee that, "11 and 22 TD AFW Pumps Aux Lube Oil Pumps are running."</p> <p>When examinee simulates starting 11 and 22 TD AFW Pumps, inform examinee that, "11 and 22 TD AFW Pumps are running."</p>
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step:	Align Auxiliary Feedwater per Attachment I (cont'd).
Critical _____	D. Verify 11 and 22 TDAFWP discharge pressures exceed SG pressures.
Standard:	11 and 22 TD AFW Pump discharge pressures verified to exceed SG pressures.
Evaluator Note:	SG pressure indication at the HSD panel may be affected by the fire in the control room. Verification of SG pressures may be made by comparison with local indication in the Auxiliary Building.
Evaluator Cue:	When examinee indicates where he/she would read 11 and 22 TD AFW Pump discharge pressures and SG pressures, inform examinee that, "11 and 22 TD AFW Pump discharge pressures are 1120 psig and SG pressures are 1000 psig."
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step:	Align Auxiliary Feedwater per Attachment I (cont'd).
Critical _____	E. Check AFW flow for each unit using flow indicators FI-18032 and FI-18035.
Standard:	AFW flow checked using FI-18032 and FI-18035.
Evaluator Cue:	AFW flow is 200 gpm on FI-18032 and FI-18035.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u> (S-5)	Align Auxiliary Feedwater per Attachment I (cont'd). F. Manually align AFW System motor valves for the units as follows: <ul style="list-style-type: none">• Unit 1<ul style="list-style-type: none">• Open the following MCC breakers:<ul style="list-style-type: none">• 1A1-Z2, 11 AFW to 11 SG MV-32238• 1A1-Z3, 11 AFW to 12 SG MV-32239• Check OPEN or locally OPEN MV-32238, 11 AFW to 11 SG MV.• Check Unit 1 AFW flow >200 gpm on FI-18032.• Locally CLOSE MV-32239, 11 AFW to 12 SG MV. Verify Unit 1 AFW flow remains >200 gpm.• Throttle flow to 11 SG as necessary by manually operating MV-32238, 11 AFW to 11 SG MV.• Unit 2<ul style="list-style-type: none">• Open the following MCC breakers:<ul style="list-style-type: none">• 2A2-C2, 22 AFW to 21 SG MV-32246• 2A2-C3, 22 AFW to 22 SG MV-32247• Check OPEN or locally OPEN MV-32246, 22 AFW to 21 SG MV.• Check Unit 2 AFW flow >200 gpm on FI-18035.• Locally CLOSE MV-32247, 22 AFW to 22 SG MV. Verify Unit 2 AFW flow remains >200 gpm.• Throttle flow to 21 SG as necessary by manually operating MV-32246, 22 AFW to 21 SG MV.	U
Standard:	AFW flow established to 11 and 21 SGs at >200 gpm.	
Evaluator Cue:	If examinee asks if MV-32238, MV-32239, MV-32246, and MV-32247 are open, inform examinee that, "MV-32238, MV-32239, MV-32246, and MV-32247 are open." If examinee simulates closing MV-32238 and MV-32247, inform examinee that, "AFW flow is slightly greater than 200 gpm to 11 and 21 SGs respectively."	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____	
Comments:	_____	

Performance Step: Critical _____	Align Auxiliary Feedwater per Attachment I (cont'd). G. Monitor 11 and 22 TDAFWP parameters locally.
Standard:	11 and 22 TD AFW Pumps parameters being monitored locally.
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical _____	Align Auxiliary Feedwater per Attachment I (cont'd). H. If it becomes necessary to switchover the AFWP suction to Clg Wtr, then perform the following:
Standard:	Determines that this action is not required at this time.
Evaluator Note:	This action is not necessary due to the volume of water in the CST.
Evaluator Cue:	If examinee asks for the status of the CST, inform examinee that, "CST was full prior to evacuating the Control Room."
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical _____	Contact LPEO's to verify Bus 15 and Bus 25 status.
Standard:	LPEO's simulated contacted for Bus 15 and Bus 25 status.
Evaluator Cue:	As LPEO, inform examinee that, "Bus 15 and Bus 25 are energized."
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical _____	<p>If no RCP's are running, then start monitoring RCS for natural circulation flow and adequate subcooling if needed by using Attachment J.</p> <p>The following conditions support or indicate natural circulation flow and adequate subcooling:</p> <ul style="list-style-type: none"> A. RCS subcooling based on core exit TCs - GREATER THAN 20 °F. B. S/G pressure - STABLE OR DECREASING. C. RCS hot leg temperature - STABLE OR DECREASING. D. Core exit TCs - STABLE OR DECREASING. E. RCS cold leg temperature - AT SATURATION TEMPERATURE FOR RESPECTIVE S/G PRESSURE.
Standard:	Natural circulation flow and adequate subcooling monitored using Attachment J.
Evaluator Cue:	<p>If examinee asks if RCP are running, inform candidate that, "RCP's are secured."</p> <p>As examinee indicates appropriate method for monitoring each parameter, inform examinee that the parameter is as indicated below:</p> <ul style="list-style-type: none"> A. RCS subcooling based on core exit TCs - 55 °F. B. S/G pressure - 1050 psig and decreasing. C. RCS hot leg temperature - 595 °F and decreasing. D. Core exit TCs - 598 °F and decreasing. E. RCS cold leg temperature - 552 °F.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical _____	Contact Unit 1 RO to verify cooling water headers are pressurized.
Standard:	Unit 1 RO simulated contacted for verification that cooling water headers are pressurized.
Evaluator Cue:	As Unit 1 RO, inform examinee that, "cooling water headers are pressurized."
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u> (S-6)	Align Instrument Air System per Attachment K. A. Place CS-7055501, 121 Air Compressor Remote/Local ES, in "LOCAL". B. Start 121 Air Compressor using CS-7055502, 121 Sta Air Comp Lcl On/Off ES. C. Place CS-7055701, 123 Air Compressor Remote/Local ES, in "LOCAL". D. Start 123 Air Compressor using CS-7055702, 123 Sta Air Comp Lcl On/Off ES.
Standard:	121 and 123 Air Compressors simulated started locally.
Evaluator Cue:	121 and 123 Air Compressors are running.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical _____	Contact the Shift Manager in the Technical Support Center to monitor "VC1" on ERCS for both units to provide verification of charging system parameters.
Standard:	SM simulated contacted for monitoring and verification of charging system parameters.
Evaluator Cue:	Charging system parameters are satisfactory and are being monitored.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical _____	Verify Primary System parameters: <ul style="list-style-type: none"> • Pressurizer level between 18% - 21% cold cal. • RCS pressure 2000 - 2235 psig.
Standard:	Pressurizer level verified to be between 18 and 21% cold cal and RCS pressure verified to be between 2000 and 2235 psig.
Evaluator Cue:	Pressurizer level is 20% cold cal and RCS pressure is 2200 psig.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical _____	Use charging pumps and heaters, if operable, as needed to maintain above parameters.
Standard:	Ability demonstrated to operate charging pumps and heaters as necessary to maintain pressurizer level and RCS pressure.
Evaluator Cue:	After examinee demonstrates the ability to operate charging pumps and heaters, inform examinee that, "pressurizer level and RCS pressure are being maintained."
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical _____	Control RCS temperature at Hot Shutdown using A Train SG PORV's.
Standard:	A Train SG PORV's simulated used to control RCS temperature at Hot Shutdown.
Evaluator Cue:	After examinee demonstrates the ability to operate A Train SG PORV's, inform examinee that, "RCS temperature is being controlled at Hot Shutdown."
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical _____	When the following conditions have been achieved, then proceed to Section 4.0, Subsequent Actions: <ul style="list-style-type: none"> • Hot shutdown conditions achieved and can be maintained. • Safeguard AC power has been restored to at least one safeguard bus per unit. • Fire is extinguished.
Standard:	Conditions achieved for proceeding to Section 4.0.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Terminating Cues: When examinee indicates that he/she is waiting for the conditions to be achieved to allow proceeding to Section 4.0, inform examinee that, "this JPM is complete."

Stop Time: _____

TURNOVER SHEET

INITIAL CONDITIONS:

- Both Units are at 100% power.
- A fire has occurred in the Control Room and thick black smoke is making visibility very difficult.
- As the Unit 1 SS, you have decided to implement F5 Appendix B, Control Room Evacuation (Fire) procedure.

INITIATING CUES (IF APPLICABLE):

- Perform Unit 1 SS actions in accordance with F5 Appendix B, Attachment A.

ATTACHMENT 1

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
14. Are all items on the signature page filled in correctly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Has the JPM been reviewed and validated by SMEs?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19. Has the completion time been established based on validation data or incumbent experience?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Is the Licensee level appropriate for the task being evaluated if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22. Is the K/A appropriate to the task and to the licensee level if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25. Are all references identified, current, accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

All questions/statements must be answered "YES" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation shall sign and date this form.

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Dat

	JOB PERFORMANCE MEASURE (JPM)
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SITE: **Prairie Island**

TASK TITLE: RESPONSE TO CONTAINMENT ISOLATION FAILURE

JPM NUMBER: E0-29SF-1 **REV.** 0

RELATED PRA INFORMATION: **PRA Identified Task**

TASK NUMBERS: CRO 3010010601

K/A NUMBERS: 013A4.01

APPLICABLE METHOD OF TESTING:

Discussion: Simulate/walkthrough: Perform:

EVALUATION LOCATION: In-Plant: Control Room:

Simulator: Other:

Lab:

Time for Completion: 10 Minutes Time Critical: _____

Alternate Path / Faulted: _____

TASK APPLICABILITY: SRO, RO

Additional signatures may be added as needed.

Developed by:	Dennis Westphal	7/14/03
	Instructor	Date
Validated by:	Validation Instructor	Date
	(See JPM Validation Checklist, Attachment 1)	
Approved by:	Training Supervisor	Date

JPM BRIEFING/TURNOVER

Add required site specific JPM briefing material here:

i.e., This section is read once for the entire package of JPMs. It is not required to review this section for every JPM being performed in the package. The initial conditions and initiating cue(s)/tasks to be performed should be read and then provided to the examinee.

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

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

DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.

INITIAL CONDITIONS:

- Both Units were at 100% power.
- A fire occurred in the Control Room and thick black smoke made visibility very difficult.
- The Unit 1 SS made the decision to evacuate the Control Room and to implement F5 Appendix B, Control Room Evacuation (Fire).

INITIATING CUES (IF APPLICABLE):

- Perform Unit 2 SS actions in accordance with F5 Appendix B, Attachment B.

JPM PERFORMANCE INFORMATION

Required Materials: Copy of F5 Appendix B, Attachment B

General References: F5 Appendix B

Task Standards: F5 Appendix B, Attachment B - Unit 2 Shift Supervisor Actions completed.

Start Time: _____

NOTE: When providing “Evaluator Cues” to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee’s actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

NOTE: Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

Performance Step: Critical _____	Proceed with radio, flashlight, set of keys, and this Attachment (B) to 11 Battery Room.
Standard:	Examinee goes to 11 Battery Room with radio, flashlight, set of keys, and Attachment B. (Use lighted stairwell, near Records Room.) If accessible.
Evaluator Note:	Examinee should use stairways instead of elevators due to the potential for a loss of offsite power at any time during this event. Examinee should acknowledge, donning SCBA if directed by Unit 1 SS due to fire concerns.
Evaluator Cue:	As Examinee states that he/she would obtain a radio, flashlight, and set of keys, inform examinee that they have obtained said items.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u> (S-1)	On DC panel 11, Place 11-18, 125VDC Panel 191, in the "OFF" position.
Standard:	11-18 simulated placed in the "OFF" position.
Evaluator Cue:	Provide cues as needed to insure you as the examiner clearly understand the action the examinee has simulated. Example: I understand you have placed this breaker in the off position, point to the component the examinee pointed to.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u> (S-1)	On DC Panel 11, Place 11-5, 4KV Swgr Bus 15, in the "OFF" position.
Standard:	11-5 simulated placed in the "OFF" position.
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u> (S-1)	On DC Panel 11, Place 11-8, 125 VDC panel 171 in the "OFF" position.
Standard:	11-8 simulated placed in the "OFF" position.
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u> (S-2)	Proceed to 12 Battery Room.
Standard:	Examinee goes to 12 Battery Room.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u> (S-3)	On DC Panel 12, Place 12-18, 125VDC Panel 16, in the "OFF" position.
Standard:	12-18 simulated placed in the "OFF" position.
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u> (S-3)	On DC Panel 12, Place 12-8, 125VDC Panel 181, in the "OFF" position.
Standard:	12-8 simulated placed in the "OFF" position.
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u> (S-4)	Proceed to 22 Battery Room.
Standard:	Examinee goes to 22 Battery Room.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u> (S-5)	On DC Panel 22, Place 22-18, 125VDC Panel 26, in the "OFF" position.
Standard:	22-18 simulated placed in the "OFF" position.
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u> (S-5)	ON DC Panel 22, Place 22-10, 125VDC PNL 281 in OFF.
Standard:	22-10 simulated placed in OFF position
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step:	Proceed to 21 Battery Room.
Critical <u> Y </u> (S-6)	
Standard:	Examinee goes to 21 Battery Room.
Performance:	SATISFACTORY <u> </u> UNSATISFACTORY <u> </u>
Comments:	_____

Performance Step:	On DC Panel 21,Place 21-16, 125VDC Panel 25, in the "OFF" position.
Critical <u> Y </u> (S-7)	
Standard:	21-16 simulated placed in the "OFF" position.
Evaluator Cue:	
Performance:	SATISFACTORY <u> </u> UNSATISFACTORY <u> </u>
Comments:	_____

Performance Step:	On DC Panel 21,Place 21-10, 125VDC Panel 271, in the "OFF" position.
Critical <u> Y </u> (S-7)	
Standard:	21-10 simulated placed in the "OFF" position.
Evaluator Cue:	
Performance:	SATISFACTORY <u> </u> UNSATISFACTORY <u> </u>
Comments:	_____

Performance Step: Critical _____	Proceed back through Battery Rooms to east entrance of AFW Pump Room, enter and proceed to Hot Shutdown Panels.
Standard:	Examinee goes to Hot Shutdown Panels via the Battery Rooms, entering the AFW Pump Room through the east entrance.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Terminating Cues: Examinee should state that he/she would assist the Unit 1 Shift Supervisor in establishing hot shutdown conditions. At this point, inform Examinee that, "this JPM is complete."

Stop Time: _____

TURNOVER SHEET

INITIAL CONDITIONS:

- Both Units were at 100% power.
- A fire occurred in the Control Room and thick black smoke made visibility very difficult.
- The Unit 1 SS made the decision to evacuate the Control Room and to implement F5 Appendix B, Control Room Evacuation (Fire).

INITIATING CUES (IF APPLICABLE):

- Perform Unit 2 SS actions in accordance with F5 Appendix B, Attachment B.

ATTACHMENT 1

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
27. Are all items on the signature page filled in correctly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28. Has the JPM been reviewed and validated by SMEs?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
30. Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
31. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
32. Has the completion time been established based on validation data or incumbent experience?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
33. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
34. Is the Licensee level appropriate for the task being evaluated if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
35. Is the K/A appropriate to the task and to the licensee level if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
36. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
37. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
38. Are all references identified, current, accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
39. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

All questions/statements must be answered "YES" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation shall sign and date this form.

Validation Personnel /Date

Validation Personnel/Date

	JOB PERFORMANCE MEASURE (JPM)
-----------------------------------------------------------------------------------	--------------------------------------

SITE: **Prairie Island**

TASK TITLE: RESPONSE TO CONTAINMENT ISOLATION FAILURE

JPM NUMBER: E0-29SF-1 **REV.** 0

RELATED PRA INFORMATION:

TASK NUMBERS: CRO 3010010601

K/A NUMBERS: 013A4.01

APPLICABLE METHOD OF TESTING:

Discussion: Simulate/walkthrough: Perform:

EVALUATION LOCATION: In-Plant: Control Room:

Simulator: Other:

Lab:

Time for Completion: 10 Minutes Time Critical: _____

Alternate Path / Faulted: _____

TASK APPLICABILITY: SRO, RO

Additional signatures may be added as needed.

Developed by:	Dennis Westphal	7/14/03
	Instructor	Date
Validated by:	Validation Instructor (See JPM Validation Checklist, Attachment 1)	Date
Approved by:	Training Supervisor	Date

JPM BRIEFING/TURNOVER

Add required site specific JPM briefing material here:

i.e., This section is read once for the entire package of JPMs. It is not required to review this section for every JPM being performed in the package. The initial conditions and initiating cue(s)/tasks to be performed should be read and then provided to the examinee.

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

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

DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.

INITIAL CONDITIONS:

- Unit 1 at 100% reactor power.
- Rad monitor R-4 is OOS (charging pump area monitor).

INITIATING CUES (IF APPLICABLE):

- The SS directs you to respond to annunciator 47022:0108.

JPM PERFORMANCE INFORMATION

Required Materials: None

General References: C47048, C12.1

Task Standards: Isolate normal letdown

Start Time: _____

NOTE: When providing “Evaluator Cues” to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee’s actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

NOTE: Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

Performance Step:	Determine the initiating alarm(s) at the RD panel.
Critical <u>X</u>	
Standard:	Determine 1R-9 in alarm.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step:	Refer to C47048 for 1R-9.
Critical _____	
Standard:	Determine alarm response for 1R-9.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical _____(S-)	Verify rad levels high.
Standard:	Verify rad levels high on R-9 and requests RP to verify with portable monitor at letdown monitor location.
Evaluator Cue:	Examiner tells examinee that 1R9 reading 10.5 R/hr. locally.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical <u>X</u> (S-1)	Remove normal and excess letdown from service per C12.1.
Standard:	<ul style="list-style-type: none"> - All orifice isolation valves verified closed CV-31325, CV-31326, and CV-31327. - Isolate normal letdown, Both CV-31226 and CV-31255, Loop 'B' to letdown line closed. - Place charging pumps in manual, stop one pump. - Reduce charging to minimum and adjust seal injection flow to 8 gpm - Place LD press control in manual and set at approx 50% open. - Excess letdown verified not in service.
Evaluator Cue:	Alternate letdown is not required.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical _____	Initiate Unit shutdown to cold SD.
Standard:	Inform SS to initiate reactor shutdown to CSD.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Terminating Cues: When plant shutdown has been initiated, inform examinee the JPM is complete..

Stop Time: _____

SIMULATOR SETUP

INSTRUCTOR GUIDE:

- Initialize the simulator to IC-10
- Pull fuses on R-4
- Place WO sticker on 1R-4. A CARD ON THE PANEL FOR R-4 WILL GIVE BETTER INDICATION THAT R-4 IS O.O.S.
- Insert I/O's.
- Begin the JPM.

I/O SUMMARY

REL. ORDER	LINE	ENTRY CODE		ENTRY DESCRIPTION
	1	47022:0108W	CW	Train B RD Alarm
	2	R09-LRH	ON	High Alarm R-9
	3	R09-M1	100	R-9 Meter

TURNOVER SHEET

INITIAL CONDITIONS:

- Unit 1 at 100% reactor power.
- R-4 OOS (charging pump area monitor).

INITIATING CUES (IF APPLICABLE):

- The SS directs you to respond to annunciator 47022:0108.

ATTACHMENT 1

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
40. Are all items on the signature page filled in correctly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
41. Has the JPM been reviewed and validated by SMEs?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
42. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
43. Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
44. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
45. Has the completion time been established based on validation data or incumbent experience?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
46. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
47. Is the Licensee level appropriate for the task being evaluated if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
48. Is the K/A appropriate to the task and to the licensee level if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
49. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
50. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
51. Are all references identified, current, accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
52. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

All questions/statements must be answered "YES" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation shall sign and date this form.

Validation Personnel /Date

Validation Personnel/Date

ARS-1, Response to Condenser High Pressure

	SIMULATOR JPM GUIDE
-----------------------------------------------------------------------------------	---------------------

ARS - 1 Response to Condenser high pressure	7/2/03
JPM NUMBER/TITLE	DATE

Approved by:	<i>TRAINING MANAGEMENT</i>
Approved by:	<i>PROGRAM OWNER</i>

EVALUATION LOCATION:	<input type="checkbox"/> PLANT <input checked="" type="checkbox"/> SIMULATOR <input type="checkbox"/> CONTROL ROOM
EVALUATION METHOD:	<input checked="" type="checkbox"/> PERFORM <input type="checkbox"/> SIMULATE
AVG. COMPLETION TIME:	15 AVG. TIME FOR THIS JPM IN MINUTES
TIME CRITICAL TASK:	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
MAX. COMPLETION TIME:	MAX. TIME ALLOWED FOR JPM IN MINUTES <input checked="" type="checkbox"/> N/A FOR NON-TIME CRITICAL JPM
LICENSEE LEVEL:	<input checked="" type="checkbox"/> SRO <input checked="" type="checkbox"/> RO <input type="checkbox"/> OTHER: list applicable positions as needed
TASK NUMBER:	_____
TASK TITLE:	Respond to Condenser high pressure
TASK TYPE:	<input checked="" type="checkbox"/> INITIAL <input checked="" type="checkbox"/> CONTINUING
K/A REFERENCE:	AA1.08 AA2.02K/A REFERENCE
PLANT SYSTEM:	Air Removal
CRITICAL STEPS:	_____ CRITICAL (C) STEPS _____ SEQUENCE CRITICAL (S) STEPS _____ TIME (T) CRITICAL STEPS
TOOLS & EQUIPMENT:	LIST SPECIAL TOOLS REQUIRED TO PERFORM JPM
REFERENCES:	C - 47008 and C - 26

Note: The follow Simulator JPM and simulator Setup, Malfunctions, Override, Remote Function sections are only applicable when simulator is used.

SIMUALTOR JPM

ARS-1, Response to Condenser High Pressure

IF the Operator is present when setting up for the JPM, THEN read the following:

PLEASE STANDBY WHILE WE ESTABLISH CONDITIONS FOR THE NEXT JPM.

Ensure the simulator is clear of all unauthorized individuals and conducive to conducting the examination.

Ensure all procedures and other materials necessary to conduct the JPM examination are in their proper locations

NOTE:

Insert FW03B (air leak on B condenser) at a severity rate adequate to cause the condenser high pressure alarm on ERCS and allow the examinee time to place the standby air ejector in service. Immediately after the air ejector is placed in service, increase the severity to cause the 1A/1B condenser vacuum DP to exceed 2.5 " Hg, requiring a manual reactor and turbine trip.

Note to evaluator:

Plant design is such that Condenser high pressure on B condenser will not result in any CB annunciators or auto trip. B condenser high pressure will result in an ERCS alarm.

Design assumes the highest pressure will be A Condenser because the Circ water passes through B then A. Alarms and trips are on A condenser.

The examinee may trip the turbine for any of the following reasons:

- Condenser high pressure 20 to 23" Hg
- Condenser backpressure outside allowable limit.
- Condenser DP > 2.5 " Hg

ARS-1, Response to Condenser High Pressure

SIMULATOR SET UP: IC-10

EVENT NUMBER	EVENT FILE NAME	EVENT LOGIC STATEMENT	EVENT WORD DESCRIPTION
1			

SIMULATOR MALFUNCTIONS:

TIME	MALFUNCTION No.	MALFUNCTION TITLE	ET	DELAY	F. SEV.	RAMP	I. SEV.
0	FW 03 B	condenser high pressure			60%		

SIMULATOR OVERRIDES:

TIME	OVERRIDE ID.	OVERRIDE DESCRIPTION	ET	DELAY	VALUE	RAMP

SIMULATOR REMOTE FUNCTIONS:

TIME	REMOTE FUNCTION No.	REMOTE FUNTION TITLE	VALUE	RAMP

GO TO NEXT PAGE

ARS-1

READ THE FOLLOWING INSTRUCTIONS TO THE OPERATOR:

THIS TASK IS NOT TIME CRITICAL

THE TASK CONDITIONS ARE: Respond to condenser high pressure.

THE STEPS IN THIS JPM SHOULD BE:

INITIATING CUE: The SS directs you to respond to the ERCS alarm for Condenser high pressure using Annunciator Response C-47008-0208

INFORM THE EVALUATOR WHEN YOU HAVE COMPLETED THE TASK:

DO YOU HAVE ANY QUESTIONS BEFORE WE BEGIN?

Answer any questions the operator may have, then read the following to initiate the JPM:

IF THERE ARE NO FURTHER QUESTIONS THEN LET'S BEGIN

GO TO NEXT PAGE

QF-1030-11 Rev. 1 (FP-T-SAT-30)

INSTRUCTOR ACTIONS:

If required take the simulator out of freeze. (Only applicable if using simulator.)

Use the JPM evaluation form to mark the Operator's performance as the task is being performed.

Follow the prescribed format for implementing the JPM evaluation.

Provide cues in accordance with the JPM.

Take notes to support the results of the pass/fail grade.

For unsatisfactory grades, documentation must be noted in the comments section of the JPM evaluation form.

GO TO NEXT PAGE

LOG START TIME:

NOTE: Critical steps are denoted with a "C." Failure to meet the standard for this step constitutes failure.

PERFORMANCE STEP: CRITICAL:	Verify low vacuum using control board indications.
STANDARD:	verifies low vacuum using available indication
PERFORMANCE RESULTS:	<input type="checkbox"/> SATISFACTORY <input type="checkbox"/> UNSATISFACTORY
COMMENTS:	

PERFORMANCE STEP: CRITICAL:	Refers to figure C1-20 to verify condenser backpressure is in the acceptable region of figure C1-20
STANDARD:	verify the most limiting condenser vacuum is within allowable region of Figure C1-20
PERFORMANCE RESULTS:	<input type="checkbox"/> SATISFACTORY <input type="checkbox"/> UNSATISFACTORY
COMMENTS:	

PERFORMANCE STEP: CRITICAL:	Verifies proper operation of equipment.
STANDARD:	Verify proper operation of the following: <ul style="list-style-type: none"> a. gland steam supply pressure greater than 3 psig PI-412902 b. condenser vacuum breakers closed MV-32052 c. condenser air ejectors functioning MV-32349 d. verify circ water flow, both circ pumps on e. verify condenser crossover valve MV-32005 is open
PERFORMANCE RESULTS:	<input type="checkbox"/> SATISFACTORY <input type="checkbox"/> UNSATISFACTORY
COMMENTS:	

PERFORMANCE STEP: CRITICAL:	Transition to C – 26 and place standby Air Ejector in service.
STANDARD:	Place standby Air Ejector in service as follows:

QF-1030-11 Rev. 1 (FP-T-SAT-30)

Aligned to "B" Condenser	<ul style="list-style-type: none"> a. open MV-32328 standby air ejector steam supply open MV-32358 standby secondary air ejector suction b. open MV-32347 standby primary air ejector suction from B condenser c. open SV-33341 air ejector loop seal drain d. notify the Duty Chemist that the lop seal drain is open
PERFORMANCE RESULTS:	<input type="checkbox"/> SATISFACTORY <input type="checkbox"/> UNSATISFACTORY
COMMENTS:	

PERFORMANCE STEP: CRITICAL: C	Manually trip the reactor and turbine due to high condenser pressure
STANDARD:	Identify any condenser high pressure limit exceeded and initiate a manual reactor and turbine trip. Limits: <ul style="list-style-type: none"> - Condenser high pressure 20" Hg - Condenser differential pressure >2.5" Hg - Condenser backpressure not within allowable limit 8" backpressure
PERFORMANCE RESULTS:	<input type="checkbox"/> SATISFACTORY <input type="checkbox"/> UNSATISFACTORY
COMMENTS:	

TERMINATING CUE: After the candidate manually trips the reactor and turbine, inform the candidate that the JPM is complete.

LOG STOP TIME:

GO TO NEXT PAGE

When the operator completes the JPM, then read the following:

THAT COMPLETES THIS PORTION OF THE JPM.

Ask any required follow-up questions and note the questions and answers in the JPM evaluation comments section.

When follow-up questions are complete, then read the following:

THAT COMPLETES THIS JPM.

GO TO NEXT PAGE

VERIFICATION OF COMPLETION

JPM NUMBER: _____

JPM TITLE: _____

OPERATOR: _____ EVALUATOR: _____

VERIFICATION STATEMENT	YES	NO	N/A
Were all critical steps performed correctly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If the JPM was time critical, <u>Then</u> was the JPM completed in the designated time?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If the JPM was not time critical, <u>Then</u> was acceptable progress made in performing the task?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Was the task standard met?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If any of the above questions were answered NO, then this JPM must be evaluated as unsatisfactory.

LICENSEE:

- SRO
- RO
- SRO CERTIFICATION
- OTHER: list applicable positions as needed

RESULTS:

- SATISFACTORY
- UNSATISFACTORY

COMMENTS/FEEDBACK: (Comments shall be made for any steps graded unsatisfactory).

EVALUATOR'S SIGNATURE: _____

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

ALL STEPS IN THIS CHECKLIST MUST BE PERFORMED UPON INITIAL VALIDATION AND REVALIDATION PRIOR TO USE.

REVIEW STATEMENTS	YES	NO
1. All items on page one of this procedure are filled in correctly?	<input type="checkbox"/>	<input type="checkbox"/>
2. The JPM has been reviewed and validated by SMEs?	<input type="checkbox"/>	<input type="checkbox"/>
3. The required conditions for the JPM can be appropriately established in the simulator?	<input type="checkbox"/>	<input type="checkbox"/>
4. The performance steps accurately reflect operator actions in accordance with plant procedures?	<input type="checkbox"/>	<input type="checkbox"/>
5. The standard for each performance item is specific as to what controls, indications and ranges are required to evaluate if the operator properly performed the step?	<input type="checkbox"/>	<input type="checkbox"/>
6. The average completion time has been established based on validation data or incumbent experience?	<input type="checkbox"/>	<input type="checkbox"/>
7. Establishing the task as time critical is based on actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>
8. The maximum time requirement has been established based on actual task performance requirements or if a maximum time requirement does not apply, then it has been based on reasonable progress in completing the task?	<input type="checkbox"/>	<input type="checkbox"/>
9. Licensee level is appropriate for the task being evaluated?	<input type="checkbox"/>	<input type="checkbox"/>
10. The K/A is appropriate to the task and to the licensee level?	<input type="checkbox"/>	<input type="checkbox"/>
11. Critical steps have been identified and typed (C, S, T) appropriately?	<input type="checkbox"/>	<input type="checkbox"/>
12. All special tools and equipment needed to perform the task have been identified and are available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>
13. All references are identified, current and accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>
14. All required cues (as can be anticipated) have been identified for the evaluator to assist task completion.	<input type="checkbox"/>	<input type="checkbox"/>

All questions/statements must be answered "YES" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation shall sign and date this form.

Validation Personnel /Date

Validation Personnel/Date

	JOB PERFORMANCE MEASURE (JPM)
-----------------------------------------------------------------------------------	--------------------------------------

SITE: **Prairie Island**

TASK TITLE: RESPONSE TO CONTAINMENT ISOLATION FAILURE

JPM NUMBER: E0-29SF-1 **REV.** 0

RELATED PRA INFORMATION:

TASK NUMBERS: CRO 3010010601

K/A NUMBERS: EA 1.02013A4.01

APPLICABLE METHOD OF TESTING:

Discussion: Simulate/walkthrough: Perform:

EVALUATION LOCATION: In-Plant: Control Room:
 Simulator: Other:
 Lab:

Time for Completion: 10 Minutes Time Critical: _____

Alternate Path / Faulted: _____

TASK APPLICABILITY: SRO, RO

Additional signatures may be added as needed.

Developed by:	Dennis Westphal Instructor	6/6/03 Date
Validated by:	Validation Instructor (See JPM Validation Checklist, Attachment 1)	Date
Approved by:	Training Supervisor	Date

JPM BRIEFING/TURNOVER

Add required site specific JPM briefing material here:

i.e., This section is read once for the entire package of JPMs. It is not required to review this section for every JPM being performed in the package. The initial conditions and initiating cue(s)/tasks to be performed should be read and then provided to the examinee.

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

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

DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.

INITIAL CONDITIONS:

- A Loss of All AC Power has occurred and the crew is at step 18 of ECA 0.0. All efforts to restore power have been unsuccessful so far.

INITIATING CUES (IF APPLICABLE):

- The Unit I SS has directed you to proceed with a flashlight and copy of C – 20.7 to D - 1 Diesel Generator Room to perform a local Emergency Start of D – 1.

JPM PERFORMANCE INFORMATION

Required Materials:

Flashlight and copy of C – 20.7

General References:

C 20.7

Task Standards:

Perform local emergency start of a Diesel Generator

Start Time: _____

NOTE: When providing “Evaluator Cues” to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee’s actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

NOTE: Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

Performance Step: Critical	Obtain a flashlight and a copy of C 20.7 and proceed to D –1 Diesel Generator Room.
Standard:	Proceeds with a flashlight and copy of C – 20.7 to D –1 Diesel Generator Room.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical	Locate section 5.3.7 of C – 20.7 at local DG 1 engine control panel.
Standard:	Proceeds with step 5.3.7 Step A (page 39) At D1 engine control panel simulates placing CS-55309 engine control switch in local.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical	Verify Control at Engine light lit.
Standard:	Verifies on the Diesel Generator Gage panel that the Control at Engine light is lit.
Evaluator Cue:	When the examinee looks at the Control at Engine Light, tell examinee the light is lit.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical	Attempts local start of D 1 Diesel Generator.
Standard:	Examinee simulates placing CS-55308 D 1 Engine Control switch in the start position.
Evaluator Cue:	When the examinee simulates placing the control switch in the start position, tell the examinee nothing happened.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical	Manually open D 1 air start valve
	Y
Standard:	Examinee simulates manually opening D 1air start control valve CV-31954.
Evaluator Cue:	When examinee simulates opening CV-31954, tell examinee that the engine started.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical	Manually close D 1 air start valve
Standard:	Examinee simulates closing CV-31954
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical	Manually Flash D 1 Diesel Generator field.
Standard:	Examinee simulates depressing CS-55301 to initiate manual Field Flash of D 1 Diesel Generator.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical	Adjust frequency and voltage of D 1 Diesel Generator.
Standard:	Examinee simulates adjusting D 1 Frequency and voltage as needed to attain 60 Hz and approximately 4160 volts as indicated on the local gage panel.
Examiner Cue:	When examinee observes frequency and voltage on the local gage panel, tell examinee the frequency is 60 Hz and voltage is 4160.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical	Perform a visual check of the Diesel Generator gage panel for normal operation.
Standard:	Examinee looks at the engine and gauges on the gage panel to observe any abnormalities
Evaluator Cue:	When the examinee looks at the gauges, tell examinee that all parameters read in the normal range and no abnormalities are observed.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical	Verify room supply and exhaust fans on and dampers open.
Standard:	Examinee performs a visual inspection of the ventilation equipment, but if the control room has not energized the safeguard bus yet, then the fans will not be on.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical	Contact the Control Room
Standard:	Examinee may contact the control room to verify they know the Diesel Generator is available. (Main Control board indications will provide this info)
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Terminating Cues: The JPM may be terminated after the examinee performs a visual inspection of the engine and gauges.

Stop Time: _____

TURNOVER SHEET

INITIAL CONDITIONS:

- A Loss of All AC Power has occurred and the crew is at step 18 of ECA 0.0. All efforts to restore power have been unsuccessful so far.

INITIATING CUES (IF APPLICABLE):

- The Unit I SS has directed you to proceed with a flashlight and copy of C – 20.7 to D - 1 Diesel Generator Room to perform a local Emergency Start of D – 1.

ATTACHMENT 1

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
53. Are all items on the signature page filled in correctly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
54. Has the JPM been reviewed and validated by SMEs?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
55. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
56. Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
57. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
58. Has the completion time been established based on validation data or incumbent experience?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
59. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
60. Is the Licensee level appropriate for the task being evaluated if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
61. Is the K/A appropriate to the task and to the licensee level if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
62. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
63. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
64. Are all references identified, current, accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
65. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

All questions/statements must be answered "YES" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation shall sign and date this form.

Validation Personnel /Date

Validation Personnel/Date

	JOB PERFORMANCE MEASURE (JPM)
-----------------------------------------------------------------------------------	--------------------------------------

SITE: **Prairie Island**

TASK TITLE: RESPONSE TO CONTAINMENT ISOLATION FAILURE

JPM NUMBER: E0-29SF-1 **REV. 0**

RELATED PRA INFORMATION: **DOMINANT EVENT SEQUENCE leading to loss of secondary heat sink contributes 22% to CDF. This task is part of the mitigating strategies for loss of secondary heat sink.PRA Identified Task**

TASK NUMBERS: CRO 3010010601

K/A NUMBERS: 013A4.01

APPLICABLE METHOD OF TESTING:

Discussion: Simulate/walkthrough: Perform:

EVALUATION LOCATION: In-Plant: Control Room:

Simulator: Other:

Lab:

Time for Completion: 10 Minutes Time Critical: NO

Alternate Path/Faulted: NO

TASK APPLICABILITY: SRO, RO

Additional signatures may be added as needed.

Developed by:	Dennis Westphal	7/14/03
	Instructor	Date
Validated by:	Validation Instructor	Date
	(See JPM Validation Checklist, Attachment 1)	
Approved by:	Training Supervisor	Date

JPM BRIEFING/TURNOVER

Add required site specific JPM briefing material here:

i.e., This section is read once for the entire package of JPMs. It is not required to review this section for every JPM being performed in the package. The initial conditions and initiating cue(s)/tasks to be performed should be read and then provided to the examinee.

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EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

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

DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.

INITIAL CONDITIONS:

- Unit 1 reactor tripped on a loss of feedwater ATWS.
- The AFW pumps tripped.
- 1FRS.1 and 1E-0 have been performed and a transition to 1ES-0.1 “Reactor Trip Recovery” was just made.
- The crew identified a red path on heat sink.
- ERCS data is unreliable. Do not use ERCS.
- Outplant operators are attempting to establish AFW flow per C28.1.

INITIATING CUES (IF APPLICABLE):

- You have been directed by the SS to respond to the heat sink red path per FR-H.1 “Loss of Secondary Heat Sink”, step 1.

JPM PERFORMANCE INFORMATION

Required Materials: None

General References: 1FR-H.1

Task Standards: Bleed and feed established to RCS

Start Time: _____

NOTE: When providing “Evaluator Cues” to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee’s actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

NOTE: Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

Performance Step: Critical <u>N</u>	Check RCS pressure greater than any intact S/G pressure.
Standard:	RCS pressure checked on RCS pressure indicators - 1PI-709, 1PI-710 or recorder 1PR-420; OR PRZR pressure indicators - 1PI-429, 430,431, 449A, or recorder 1PR-429; and compared to S/G pressure on <ul style="list-style-type: none">• #11 S/G pressure recorder - 42068 or verified using 1PI-468, 469, 482A for #11 S/G.• #12 S/G pressure recorder - 42069 or verified using 1PI-478, 479, 483A for #12 S/G.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical <u>N</u>	Check RCS hot leg temperature greater than 350°F.
Standard:	RCS hot leg temperature verified > 350°F on 1TR-450 and 1TR-451.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical <u>N</u>	Check wide range level greater than 9% in either S/G.
Standard:	S/G levels checked, less than 9% on 1LR-460 and 1LR-470.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical <u>Y</u>(SEQ-1)	Stop #11 and #12 reactor coolant pumps.
Standard:	CS-46255 and CS-46256 to stop; green indicating lights on.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical <u>Y</u>(SEQ-2)	Actuate SI.
Standard:	SI actuated with CS-46408 or CS-46180. Annunciator 47014-0604 energized.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical <u>N</u>	Check #11 or #12 SI pumps running.
Standard:	CS-46178 or CS-46179 red indicating light on; discharge pressure on 1PI-922 or 1PI-923.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical <u>N</u>	Check SI valve alignment for operating pumps - proper emergency alignment.
Standard:	Suction Valves: <ul style="list-style-type: none">• MV-32162 open; CS-46193 red indicating light on• MV-32163 open ; CS-46194 red indicating light on BAST to SI Pumps: <ul style="list-style-type: none">• MV-32081 open; CS-46198 indicating light on• MV-32082 open; CS-46199 red indicating light on; AND SI Not Ready Light not lit for: <ul style="list-style-type: none">• MV-32083-E1 (light out) SI Supply to Cold Legs. SI Not Ready Lights not lit for: <ul style="list-style-type: none">• MV-32070-C3 (lights out)• MV-32068-D3 (lights out)• MV-32073-A3 (lights out)
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical <u>N</u>	Reset containment isolation.
Standard:	Containment isolation reset with CS-46083 and CS-46084. Annunciator 47018-0505 de-energized.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical <u>N</u>	Establish instrument air to containment.
Standard:	CV-31740 and CV-31741 verified open. Red indication light on CS-46154 and CS-46155.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical <u>N</u>	Verify power to pressurizer PORV block valves available.
Standard:	Red indicating light on CS-46263 energized. Green indicating light on CS-46264 energized.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical <u>N</u>	Verify PRZR PORV block valves - both open
Standard:	MV-32196 closed, CS-46264 green light on. MV-32195 open, CS-46263 red light on.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical <u>Y</u>(SEQ-3)	Open MV-32196 (CV-31232 block valve).
Standard:	CS-46264 taken to the open position. Red indicating light on; green indicating light off.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical <u>N</u>	Open CV-31231 pressurizer PORV.
Standard:	CS-46260 placed in the open position.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical <u>Y</u>(SEQ-3)	Open CV-31232 pressurizer PORV.
Standard:	CS-46259 placed in the open position .
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical <u>N</u>	Verify adequate RCS vent path, both PORVs open.
Standard:	CV-31231 closed, CS-46260 green light on. CV-31232 open, CS-46259 red light on.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical <u>Y</u>(SEQ-3)	Open RCS vents.
Standard:	SV-37035 opened, CS-46282 taken to open, CS-46282 red light on. SV-37036 opened, CS-46285 taken to open, CS-46285 red light on. SV-37037 opened, CS-46283 taken to open, CS-46283 red light on. SV-37038 opened, CS-46286 taken to open, CS-46286 red light on and either of the following: SV-37039 opened, CS-46284 taken to open, CS-46284 red light on OR SV-37040 opened, CS-46287 taken to open, CS-46287 red light on.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

QF-1030-11 Rev. 1 (FP-T-SAT-30)

EO-21SF-1, RCS Bleed & Feed During Response to a Loss of Secondary Heat Sink with a PORV Failing to Open, Rev. 6

Terminating Cues: SI pumps running with flow, one PZR PORV open, RCS vents open

Stop Time: _____

SIMULATOR SETUP

Instructor Guide:

- Initialize the simulator to IC-10.
- Close MV-32196 (PCV-430 Block Valve).
- Insert malfunction for Pzr PORV 431C failure (relative order 0)
- Insert malfunctions FW13A and FW13B (feedwater pump trip) on remote #1 (relative order 1).
- Insert malfunctions FW32, FW33 (AFW pump trip) on remote #2 (relative order 2).
- I/O #11 SG WR level recorder, #12 SG WR level recorder (relative order 3):
 42064-R 42078-G
 42064-G 42078-R
 46064-B 42078-B
- Freeze; give initial conditions.
- Silence alarms when ready to begin JPM. Take simulator to run.

REL. ORDER	PAGE	ENTRY CODE	ENTRY DESCRIPTION
0	MFS	1, RC16B	PZR PORV PCV-431C failed closed.
1	MFS	2, FW13A,,,,,1	#11 feedwater pump trip
1	MFS	3, FW13B,,,,,1	#12 feedwater pump trip
2	MFS	4, FW32,,,,,2	#11 AFW pump trip
2	MFS	5, FW33,,,,,2	#12 AFW pump trip
3	IOS	1, 42064-R,,,5	11 S/G wide range recorder red
3	IOS	2, 42064-G,,,5	11 S/G wide range recorder green
3	IOS	3, 42078-R,,,5	12 S/G wide range recorder red
3	IOS	4, 42078-G,,,5	12 S/G wide range recorder green
3	IOS	5, 42064-B,,,5	11 S/G wide range recorder blue
3	IOS	6, 42078-B,,,5	12 S/G wide range recorder blue

TURNOVER SHEET

INITIAL CONDITIONS:

- Unit 1 reactor tripped on a loss of feedwater ATWS.
- The AFW pumps tripped.
- 1FRS.1 and 1E-0 have been performed and a transition to 1ES-0.1 "Reactor Trip Recovery" was just made.
- The crew identified a red path on heat sink.
- ERCS data is unreliable. Do not use ERCS.
- Outplant operators are attempting to establish AFW flow per C28.1.

INITIATING CUES (IF APPLICABLE):

- You have been directed by the SS to respond to the heat sink red path per FR-H.1 "Loss of Secondary Heat Sink", step 1.

ATTACHMENT 1

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
66. Are all items on the signature page filled in correctly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
67. Has the JPM been reviewed and validated by SMEs?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
68. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
69. Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
70. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
71. Has the completion time been established based on validation data or incumbent experience?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
72. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
73. Is the Licensee level appropriate for the task being evaluated if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
74. Is the K/A appropriate to the task and to the licensee level if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
75. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
76. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
77. Are all references identified, current, accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
78. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

All questions/statements must be answered "YES" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation shall sign and date this form.

Validation Personnel /Date

Validation Personnel/Date

	JOB PERFORMANCE MEASURE (JPM)
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SITE: **Prairie Island**

TASK TITLE: RESPONSE TO CONTAINMENT ISOLATION FAILURE

JPM NUMBER: E0-29SF-1 **REV.** 0

RELATED PRA INFORMATION: **PRA Identified Task**

TASK NUMBERS: CRO 3010010601

K/A NUMBERS: 013A4.01

APPLICABLE METHOD OF TESTING:

Discussion: Simulate/walkthrough: Perform:

EVALUATION LOCATION: In-Plant: Control Room:

Simulator: Other:

Lab:

Time for Completion: 25 Minutes Time Critical: _____

Alternate Path / Faulted: _____

TASK APPLICABILITY: SRO, RO

Additional signatures may be added as needed.

Developed by:	Dennis Westphal	7/14/03
	Instructor	Date
Validated by:	Validation Instructor	Date
	(See JPM Validation Checklist, Attachment 1)	
Approved by:	Training Supervisor	Date

JPM BRIEFING/TURNOVER

Add required site specific JPM briefing material here:

i.e., This section is read once for the entire package of JPMs. It is not required to review this section for every JPM being performed in the package. The initial conditions and initiating cue(s)/tasks to be performed should be read and then provided to the examinee.

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

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

DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.

INITIAL CONDITIONS:

- Both Units were at 100% power.
- A fire occurred in the Control Room and thick black smoke made visibility very difficult.
- The Unit 1 SS made the decision to evacuate the Control Room and to implement F5 Appendix B, Control Room Evacuation (Fire).
- You are the Unit 2 RO and have completed steps A through D of F5 Appendix B, Attachment D, such that the:
 - reactor is tripped,
 - turbine is tripped,
 - MSIV's are closed,
 - pressurizer PORV block valves are closed.

INITIATING CUES (IF APPLICABLE):

- You are to complete the Unit 2 RO actions for Control Room Evacuation in accordance with F5 Appendix B, Attachment D, starting at Step E.

JPM PERFORMANCE INFORMATION

Required Materials: Copy of F5 Appendix B, Attachment D

General References: F5 Appendix B

Task Standards: F5 Appendix B, Attachment D - Unit 2 Reactor Operator Actions completed.

Start Time: _____

NOTE: When providing “Evaluator Cues” to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee’s actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

NOTE: Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

Performance Step: Critical _____	Proceed with radio, flashlight, set of keys, and this Attachment (D) to 695' level, Aux Bldg, CC Pump area. (Use lighted stairwell, near Records Room to Access Control, through Normal Exit door into Aux Bldg, down stairwell and east of Boric Acid aisle to 695' level.)
Standard:	Candidate goes to the Auxiliary Building with radio, flashlight, set of keys, and Attachment D.
Evaluator Cue:	As candidate states that he/she would obtain a radio, flashlight, and set of keys, inform candidate that they have obtained said items.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u> (S-1)	Place 11 and 21 Component Cooling Pump LOCAL/REMOTE switches to "LOCAL".
Standard:	CS-19606, 11 CC Pmp Lcl/Rem Sel Sw and CS-19608, 21 CC Pmp Lcl/Rem Sel SW simulated placed in "LOCAL".
Evaluator Cue:	Use cues as needed to insure you as the examiner understand clearly the action the examinee has simulated.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u> (S-1)	Secure the RHR Sump Suction path: 3. Place MCC Bkr 2KA2-D1, Sump B to 22 RHR Pump MV-32179, in the "OFF" position.
Standard:	MCC Bkr 2KA2-D1 simulated placed in the "OFF" position.
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u> (S-1)	Place MCC Bkr 2K2-A4, 22 SG MS Sply to 22 TD AFW Pmp MV-32020 in the "OFF" position.
Standard:	MCC Bkr 2K2-A4 simulated placed in the "OFF" position.
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step:	Secure 23 charging pump
Critical <u>Y</u> (S-1)	2. Place MCC Bkr 2K2-B4, 23 Charging Pump bkr in the "OFF" position.
Standard:	MCC Bkr 2K2-B4 simulated placed in the "OFF" position.
Evaluator Note:	
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step:	Secure 21 Charging Pump
Critical <u>Y</u> (S-1)	4. Place MCC Bkr 2K2-C4, 21 Charging Pump bkr in the "OFF" position.
Standard:	MCC Bkr 2K2-C4 simulated placed in the "OFF" position.
Evaluator Note:	
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u> Y </u> (S-1)	Place MCC Bkr 2K1-G3, 21 SG MS Sply to 22 TD AFW Pmp MV-32019 in the "OFF" position.
Standard:	MCC Bkr 2K1-G3 simulated placed in the "OFF" position.
Evaluator Cue:	
Performance: SATISFACTORY _____ UNSATISFACTORY _____	
Comments: _____	

Performance Step: Critical <u> Y </u> (S-1)	Secure the RHR Sump Suction path: 1. Place MCC Bkr 2K1-D1, Sump B to 21 RHR Pump MV-32178, in the "OFF" position.
Standard:	MCC Bkr 2K1-D1 placed in the "OFF" position.
Evaluator Note:	
Evaluator Cue:	
Performance: SATISFACTORY _____ UNSATISFACTORY _____	
Comments: _____	

Performance Step: Critical _____	Proceed to 735' level above CV-31116, 21 SG MS Isol CV.
Standard:	Candidate goes to the 735' level above CV-31116.
Performance: SATISFACTORY _____ UNSATISFACTORY _____	
Comments: _____	

Performance Step:	CLOSE 2SA-59-60, Conn 4 AJB-45, in Air Junction Box 45.
Critical <u> Y </u> (S-2)	
Standard:	2SA-59-60 simulates CLOSED.
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step:	Remove CV-31116, Accumulator vent line plug.
Critical <u> Y </u> (S-3)	
Standard:	CV-31116 Accumulator vent line plug simulated removed.
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step:	OPEN 2MS-27-1, 21 SG MS Isol CV-31116 Accum Vent.
Critical <u> Y </u> (S-4)	
Standard:	2MS-27-1 simulated OPENED.
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical _____	Check OPEN MV-32019, 21 SG MS Sply to 22 TD AFW Pmp MV. If not OPEN, then manually OPEN MV-32019.
Standard:	MV-32019 checked OPENED.
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical _____	Proceed to CV-31117, 22 SG MS Isol CV.
Standard:	Candidate goes to CV-31117.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u> (S-5)	Remove Red Air Supply Tag and CLOSE Accumulator Local Air Supply Isolation Valve to CV-31117.
Standard:	Red Air Supply Tag simulated removed and Accumulator Local Air Supply Isolation Valve to CV-31117 CLOSED.
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step:	Remove CV-31117, Accumulator vent line plug.
Critical <u> Y </u> (S-6)	
Standard:	CV-31117 Accumulator vent line plug simulated removed.
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step:	OPEN 2MS-27-2, 22 SG MS Isol CV-41117 Accum Vent.
Critical <u> Y </u> (S-7)	
Standard:	2MS-27-2 simulated OPENED.
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step:	Check OPEN MV-32020, 22 SG MS Sply to 22 TD AFW Pmp MV. If not OPEN, then manually OPEN MV-32020.
Critical _____	
Standard:	MV-32020 checked OPENED.
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step:	Proceed to 22 Charging Pump Room.
Critical _____	
Standard:	Candidate goes to 22 Charging Pump Room.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step:	OPEN 2VC-1-1, MV32062 Bypass.
Critical <u>Y</u> (S-8)	
Standard:	2VC-1-1 simulated OPENED.
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step:	Place CS-7082001, 22 Charging Pump Loc/Rem Sel Sw, in the "LOCAL" position.
Critical <u>Y</u> (S-9)	
Standard:	CS-7082001 placed in the "LOCAL" position.
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u> (S-10)	Shift Charging Pump speed control to local by placing 2VC-33-1, 22 Chg Pmp Lcl Spd Cont 3-Way Vlv, in the "LOCAL" position.
Standard:	2VC-33-1 placed in the "LOCAL" position.
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical _____	If 22 Charging Pump is not running, then check if power is available.
Standard:	22 Charging Pump Stop Indicator Light Green, 7082005 verified LIT.
Evaluator Cue:	If candidate asks if 22 Charging Pump is running, inform candidate that, "22 Charging Pump is not running." When candidate asks if green indicator light 7082005 is lit, inform candidate that, "green light is LIT."
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u> (S-11)	When 480V power is available, then start 22 Charging Pump by momentarily depressing CS-7082002, 22 Charging Pump Start.
Standard:	CS-7082002 momentarily simulated depressed to start 22 Charging Pump.
Evaluator Cue:	22 Charging Pump is running.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u> (S-12)	Using 2HSC-428E, 22 Chg Pump Speed Manual Loader, adjust 22 Charging Pump speed as necessary to maintain pressurizer level.
Standard:	2HSC-428E simulated used to adjust 22 Charging Pump speed as necessary to maintain pressurizer level.
Evaluator Cue:	Pressurizer level is being maintained.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u> (S-13)	CLOSE 2VC-3-8, 21 VCT Outlet.
Standard:	2VC-3-8 simulated CLOSED.
Evaluator Note:	
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u> (S-14)	Candidate contacts the SS on the radio to determine if RCP seals are to be isolated.
Standard:	Candidate simulates contacting the SS on the radio.
Evaluator Note:	
Evaluator Cue:	As, SS direct candidate not to isolate RCP seals.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

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F5-10, Appendix B, Attachment D – Unit 2 Reactor Operator Actions, Rev. 2

Terminating Cues: After SS directs candidate not to isolate RCP seals, inform candidate that JPM is complete.

Stop Time: _____

TURNOVER SHEET

INITIAL CONDITIONS:

- Both Units were at 100% power.
- A fire occurred in the Control Room and thick black smoke made visibility very difficult.
- The Unit 1 SS made the decision to evacuate the Control Room and to implement F5 Appendix B, Control Room Evacuation (Fire).
- You are the Unit 2 RO and have completed steps A through D of F5 Appendix B, Attachment D, such that the:
 - reactor is tripped,
 - turbine is tripped,
 - MSIV's are closed,
 - pressurizer PORV block valves are closed.

INITIATING CUES (IF APPLICABLE):

- You are to complete the Unit 2 RO actions for Control Room Evacuation in accordance with F5 Appendix B, Attachment D, starting at Step E.

ATTACHMENT 1

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
79. Are all items on the signature page filled in correctly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
80. Has the JPM been reviewed and validated by SMEs?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
81. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
82. Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
83. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
84. Has the completion time been established based on validation data or incumbent experience?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
85. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
86. Is the Licensee level appropriate for the task being evaluated if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
87. Is the K/A appropriate to the task and to the licensee level if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
88. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
89. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
90. Are all references identified, current, accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
91. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

All questions/statements must be answered "YES" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation shall sign and date this form.

Validation Personnel /Date

Validation Personnel/Date

	JOB PERFORMANCE MEASURE (JPM)
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SITE: **Prairie Island**

TASK TITLE: RESPONSE TO CONTAINMENT ISOLATION FAILURE

JPM NUMBER: E0-29SF-1 **REV.** 0

RELATED PRA INFORMATION: **PRA Identified Task**

TASK NUMBERS: CRO 3010010601

K/A NUMBERS: 013A4.01

APPLICABLE METHOD OF TESTING:

Discussion: Simulate/walkthrough: Perform:

EVALUATION LOCATION: In-Plant: Control Room:

Simulator: Other:

Lab:

Time for Completion: 10 Minutes Time Critical: _____

Alternate Path / Faulted: _____

TASK APPLICABILITY: SRO, RO

Additional signatures may be added as needed.

Developed by:	Dennis Westphal	7/14/03
	Instructor	Date
Validated by:	Validation Instructor	Date
	(See JPM Validation Checklist, Attachment 1)	
Approved by:	Training Supervisor	Date

JPM BRIEFING/TURNOVER

Add required site specific JPM briefing material here:

i.e., This section is read once for the entire package of JPMs. It is not required to review this section for every JPM being performed in the package. The initial conditions and initiating cue(s)/tasks to be performed should be read and then provided to the examinee.

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

DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.

INITIAL CONDITIONS:

- Both Units were at 100% power.
- A fire occurred in the Control Room and thick black smoke made visibility very difficult.
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- You are the Unit 1 RO and have completed steps A through D of F5 Appendix B, Attachment C, such that the:
 - reactor is tripped,
 - turbine is tripped,
 - MSIV's are closed,
 - pressurizer PORV block valves are closed.

INITIATING CUES (IF APPLICABLE):

- You are to complete the Unit 1 RO actions for Control Room Evacuation in accordance with F5 Appendix B, Attachment C, starting at Step E.

JPM PERFORMANCE INFORMATION

Required Materials: Copy of F5 Appendix B, Attachment C

General References: F5 Appendix B

Task Standards: F5 Appendix B, Attachment C - Unit 1 Reactor Operator Actions completed.

Start Time: _____

NOTE: When providing “Evaluator Cues” to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee’s actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

NOTE: Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

Performance Step: Critical _____	Proceed with radio, flashlight, set of keys, and this Attachment (C) to both turbine front standards and verify turbines are tripped.
Standard:	Examinee goes to both turbine front standards with radio, flashlight, set of keys, and Attachment C and verifies both Units turbines are tripped.
Evaluator Note:	Examinee should indicate how he/she would determine if the turbines are tripped and then how he/she would trip the turbines if they were running.
Evaluator Cue:	As examinee states that he/she would obtain a radio, flashlight, and set of keys, inform examinee that they have obtained said items. After examinee demonstrates appropriate methods of determining the status of turbine operation and how to trip the turbines locally, inform examinee that, "both turbines are tripped."
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical _____	Proceed to the Screenhouse, 675' level, and check PI-11021, 11 MD CLWP DSCH PI 75 psig or greater. (Use lighted stairwell, near Records Room, across under turbine pedestal, out through Old Admin Bldg door to Screenhouse east door, then use stairwell on east end of Screenhouse to reach 675' level.)
Standard:	Examinee goes to Screenhouse 675' level and checks PI-11021 75 psig or greater.
Evaluator Cue:	PI-11021 indicates 0 psig.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u> (S-1)	If PI-11021 is reading less than 75 psig, then proceed to 12 DDCLP room and start 12 DDCLP as follows: 1. OPEN knife switch SW 7030038, 12 DD CLWP Cont Pnl Pwr Isol Knife Switch.
Standard:	Examinee goes to 12 DDCLP room and simulate OPENING knife switch SW 7030038.
Evaluator Cue:	Provide cues as needed to insure you as the examiner clearly understand the action the examinee has simulated.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

<p>Performance Step: Critical <u> Y </u> (S-2)</p>	<p>If PI-11021 is reading less than 75 psig, then proceed to 12 DDCLP room and start 12 DDCLP as follows: (cont'd)</p> <p>2. Manually override one of the starting air solenoid valves, by turning the small knob at the base of the solenoid, to admit air to the starting motor. Return the knob to the "SHUTOFF" position when the engine gets up to full speed.</p>
<p>Standard:</p>	<p>One of the starting air solenoid valves is simulated manually overridden and returned to the "SHUTOFF" position when the engine is up to full speed.</p>
<p>Evaluator Cue:</p>	<p>When examinee indicates that he/she would turn the override knob to admit air to the starting motor, inform examinee that, "the engine is running."</p>
<p>Performance:</p>	<p>SATISFACTORY _____ UNSATISFACTORY _____</p>
<p>Comments:</p>	<p>_____</p>

<p>Performance Step: Critical _____</p>	<p>If PI-11021 is reading less than 75 psig, then proceed to 12 DDCLP room and start 12 DDCLP as follows: (cont'd)</p> <p>3. Verify OPEN CV-31423, 12 DD Clg Wtr Jckt Clr Outl CV.</p>
<p>Standard:</p>	<p>CV-31423 verified OPEN.</p>
<p>Evaluator Cue:</p>	
<p>Performance:</p>	<p>SATISFACTORY _____ UNSATISFACTORY _____</p>
<p>Comments:</p>	<p>_____</p>

<p>Performance Step: Critical _____</p>	<p>If PI-11021 is reading less than 75 psig, then proceed to 12 DDCLP room and start 12 DDCLP as follows: (cont'd)</p> <p>4. Verify cooling water header is pressurized using PI-11022, 12 DD CLWP Dsch PI.</p>
<p>Standard:</p>	<p>PI-11022 used to verify cooling water header pressurized.</p>
<p>Evaluator Cue:</p>	<p>PI-11022 indicates 85 psig.</p>
<p>Performance:</p>	<p>SATISFACTORY _____ UNSATISFACTORY _____</p>
<p>Comments:</p>	<p>_____</p>

Performance Step: Critical <u>Y</u> (S-3)	If PI-11021 is reading less than 75 psig, then proceed to 12 DDCLP room and start 12 DDCLP as follows: (cont'd) 5. Proceed to 121 MD Cooling Water Pump Room and place CS-19058, 11 Sfgds Scrnhse Roof Exht Fan, in the "ON" position.
Standard:	CS-19058 simulated placed in the "ON" position.
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical _____	If it was necessary to start 12 DDCLP, then proceed to 22 DDCLP Room and check 22 DDCLP running. If not, then start 22 DDCLP as follows:
Standard:	Examinee goes to 22 DDCLP Room and determines that 22 DDCLP is not running.
Evaluator Cue:	22 DDCLP is not running.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u> (S-4)	If it was necessary to start 12 DDCLP, then proceed to 22 DDCLP Room and check 22 DDCLP running. If not, then start 22 DDCLP as follows: 1. OPEN knife switch SW 7035038, 22 DD CLWP Cont Pnl Pwr Isol Knife Switch.
Standard:	SW 7035038 is simulated OPENED.
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical <u>Y</u> (S-5)	If it was necessary to start 12 DDCLP, then proceed to 22 DDCLP Room and check 22 DDCLP running. If not, then start 22 DDCLP as follows: (cont'd) 2. Manually override one of the starting air solenoid valves, by turning the small knob at the base of the solenoid, to admit air to the starting motor. Return the knob to the "SHUTOFF" position when the engine gets up to full speed.
Standard:	One of the starting air solenoid valves is simulated manually overridden and returned to the "SHUTOFF" position when the engine is up to full speed.
Evaluator Cue:	When Examinee indicates that he/she would turn the override knob to admit air to the starting motor, inform examinee that, "the engine is running."
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical _____	If it was necessary to start 12 DDCLP, then proceed to 22 DDCLP Room and check 22 DDCLP running. If not, then start 22 DDCLP as follows: (cont'd) 3. Verify OPEN CV-31457, 22 DD Clg Wtr Jckt Cir Outl CV.
Standard:	CV-31457 verified OPEN.
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical _____	If it was necessary to start 12 DDCLP, then proceed to 22 DDCLP Room and check 22 DDCLP running. If not, then start 22 DDCLP as follows: (cont'd) 4. Verify cooling water header is pressurized using PI-11024, 22 DD CLWP Dsch PI.
Standard:	PI-11024 used to verify cooling water header pressurized.
Evaluator Cue:	PI-11024 indicates 85 psig.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical _____	Proceed to Screenhouse 695' level, southeast corner, and check PI-11082, Scrnhse FP Hdr PI, 90 psig or greater.
Standard:	Examinee goes to Screenhouse 695' level and checks PI-11082 90 psig or greater.
Evaluator Cue:	PI-11082 indicates 70 psig.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical _____	If PI-11082 is less than 90 psig, then check 122 Diesel Fire Pump running. If not, then start 122 Diesel Fire Pump per Attachment L.
Standard:	Examinee determines that 122 Diesel Fire Pump is not running.
Evaluator Cue:	122 Diesel Fire Pump is not running.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical _____	If PI-11082 is less than 90 psig, then check 122 Diesel Fire Pump running. If not, then start 122 Diesel Fire Pump per Attachment L. 1. At panel 136-2, place Dsl Fire Pmp 121 Oil Stg Tk Pump local AUTO/REMOTE/LOCAL control switch CS-19081 in "AUTO".
Standard:	CS-19081 is checked in "AUTO".
Evaluator Cue:	CS-19081 is in "AUTO".
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical _____	If PI-11082 is less than 90 psig, then check 122 Diesel Fire Pump running. If not, then start 122 Diesel Fire Pump per Attachment L. 2. Ensure the Battery Charger Control switch is in "ON".
Standard:	Battery Charger Control Switch verified in the "ON" position.
Evaluator Cue:	Battery Charger Control Switch is "ON".
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical _____	If PI-11082 is less than 90 psig, then check 122 Diesel Fire Pump running. If not, then start 122 Diesel Fire Pump per Attachment L. 3. Depress and release the Reset pushbutton CS-70394-04 located inside of the diesel control cabinet.
Standard:	CS-70394-04 simulates depressed and released.
Evaluator Cue:	
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical _____	If PI-11082 is less than 90 psig, then check 122 Diesel Fire Pump running. If not, then start 122 Diesel Fire Pump per Attachment L. 4. Turn local 5 - position selector switch CS-70394-01 to "MAN-A" or "MAN-B".
Standard:	CS-70394-01 selected to "MAN-A" or "MAN-B".
Evaluator Cue:	CS-70394-01 is in "MAN-A" ("MAN-B").
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical _____	If PI-11082 is less than 90 psig, then check 122 Diesel Fire Pump running. If not, then start 122 Diesel Fire Pump per Attachment L. 5. Depress Start pushbutton CS-70394-02 to crank engine. Release the pushbutton when the diesel starts.
Standard:	CS-70394-02 simulated depressed and released within 30 seconds.
Evaluator Note:	The diesel is not to be cranked on one set of batteries continuously for longer than 30 seconds.
Evaluator Cue:	CS-70394-02 the engine does not crank.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical _____	If PI-11082 is less than 90 psig, then check 122 Diesel Fire Pump running. If not, then start 122 Diesel Fire Pump per Attachment L. 6. If the engine fails to start within 20 seconds, or if the engine fails to crank, then turn the local 5 - position switch to the opposite Manual position of the position selected in Step 4 above and repeat Step 5.
Standard:	CS-70394-01 simulated selected to "MAN-B" or "MAN-A" (opposite of last position) and CS-70394-02 depressed and released within 30 seconds.
Evaluator Note:	The diesel is not to be cranked on one set of batteries continuously for longer than 30 seconds.
Evaluator Cue:	Examinee indicates that he/she would position CS-70394-01 to the opposite position from previously selected position. When examinee indicates that he/she would depress CS-70394-02, inform examinee that, the engine does not crank."
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Performance Step: Critical _____	If PI-11082 is less than 90 psig, then check 122 Diesel Fire Pump running. If not, then start 122 Diesel Fire Pump per Attachment L. 7. If engine fails to start in either "MAN-A" or "MAN-B" position and it is required for an emergency situation, then continue with Step 8.
Standard:	Examinee determines that 122 Diesel Fire Pump is required for an emergency situation and continues on with Step 8.
Evaluator Cue:	If examinee asks if 122 Diesel Fire Pump is required for an emergency situation, inform examinee that, "fire water pressure is low due to fire fighting efforts and 122 Diesel Fire Pump is required."
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

<p>Performance Step: Critical <u>Y</u> (S-6)</p>	<p>If PI-11082 is less than 90 psig, then check 122 Diesel Fire Pump running. If not, then start 122 Diesel Fire Pump per Attachment L. 8. Turn the Manual Override Knob fully clockwise to bypass the electric solenoid control and permit fuel flow.</p>
<p>Standard:</p>	<p>Examinee simulates Manual Override Knob turned fully clockwise.</p>
<p>Evaluator Cue:</p>	
<p>Performance:</p>	<p>SATISFACTORY _____ UNSATISFACTORY _____</p>
<p>Comments:</p>	<p>_____</p>

<p>Performance Step: Critical <u>Y</u> (S-7)</p>	<p>If PI-11082 is less than 90 psig, then check 122 Diesel Fire Pump running. If not, then start 122 Diesel Fire Pump per Attachment L. 9. OPEN cooling line bypass valve to the heat exchanger FP-121-3.</p>
<p>Standard:</p>	<p>Cooling line bypass valve simulated OPENED.</p>
<p>Evaluator Cue:</p>	
<p>Performance:</p>	<p>SATISFACTORY _____ UNSATISFACTORY _____</p>
<p>Comments:</p>	<p>_____</p>

<p>Performance Step: Critical _____</p>	<p>If PI-11082 is less than 90 psig, then check 122 Diesel Fire Pump running. If not, then start 122 Diesel Fire Pump per Attachment L. 10. Lift Contactor A Start Lever to the Emergency Start.</p>
<p>Standard:</p>	<p>Contactor A Start Lever simulated lifted to the Emergency Start position.</p>
<p>Evaluator Note:</p>	<p>The diesel is not to be cranked on one set of batteries continuously for longer than 30 seconds.</p>
<p>Evaluator Cue:</p>	<p>The engine does not crank.</p>
<p>Performance:</p>	<p>SATISFACTORY _____ UNSATISFACTORY _____</p>
<p>Comments:</p>	<p>_____</p>

Performance Step: Critical <u>Y</u> (S-8)	If PI-11082 is less than 90 psig, then check 122 Diesel Fire Pump running. If not, then start 122 Diesel Fire Pump per Attachment L. 11.If engine fails to start within 20 seconds, then lift Contactor B Start.
Standard:	Contactor B Start Lever simulated lifted to the Emergency Start position.
Evaluator Note:	The diesel is not to be cranked on one set of batteries continuously for longer than 30 seconds.
Evaluator Cue:	The engine is running.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Terminating Cues: When 122 Diesel Fire Pump is started, inform examinee that, "this JPM is complete."

Stop Time: _____

TURNOVER SHEET

INITIAL CONDITIONS:

- Both Units were at 100% power.
- A fire occurred in the Control Room and thick black smoke made visibility very difficult.
- The Unit 1 SS made the decision to evacuate the Control Room and to implement F5 Appendix B, Control Room Evacuation (Fire).
- You are the Unit 1 RO and have completed steps A through D of F5 Appendix B, Attachment C, such that the:
 - reactor is tripped,
 - turbine is tripped,
 - MSIV's are closed,
 - pressurizer PORV block valves are closed.

INITIATING CUES (IF APPLICABLE):

- You are to complete the Unit 1 RO actions for Control Room Evacuation in accordance with F5 Appendix B, Attachment C, starting at Step E.

ATTACHMENT 1

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
92. Are all items on the signature page filled in correctly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
93. Has the JPM been reviewed and validated by SMEs?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
94. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
95. Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
96. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
97. Has the completion time been established based on validation data or incumbent experience?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
98. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
99. Is the Licensee level appropriate for the task being evaluated if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
100. Is the K/A appropriate to the task and to the licensee level if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
101. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
102. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
103. Are all references identified, current, accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
104. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

All questions/statements must be answered "YES" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation shall sign and date this form.

Validation Personnel /Date

Validation Personnel/Date

	JOB PERFORMANCE MEASURE (JPM)
-----------------------------------------------------------------------------------	--------------------------------------

SITE: **Prairie Island**

TASK TITLE: RESPONSE TO CONTAINMENT ISOLATION FAILURE

JPM NUMBER: E0-29SF-1 **REV. 0**

RELATED PRA INFORMATION: **None**

TASK NUMBERS: CRO 3010010601

K/A NUMBERS: 013A4.01

APPLICABLE METHOD OF TESTING:

Discussion: Simulate/walkthrough: Perform:

EVALUATION LOCATION: In-Plant: Control Room:

Simulator: Other:

Lab:

Time for Completion: 10 Minutes Time Critical: NO

Alternate Path / Faulted: NO

TASK APPLICABILITY: SRO, RO

Additional signatures may be added as needed.

Developed by:	Dennis Westphal	6/6/03
	Instructor	Date
Validated by:	Validation Instructor (See JPM Validation Checklist, Attachment 1)	Date
Approved by:	Training Supervisor	Date

JPM BRIEFING/TURNOVER

Add required site specific JPM briefing material here:

i.e., This section is read once for the entire package of JPMs. It is not required to review this section for every JPM being performed in the package. The initial conditions and initiating cue(s)/tasks to be performed should be read and then provided to the examinee.

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

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

DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.

INITIAL CONDITIONS:

- Unit 1 has experienced a loss of all AC power.
- Attempts to restore power IAW 1ECA-0.0 have thus far been unsuccessful.
- The Control Room Operators have made the decision to depressurize the RCS by depressurizing the S/G's.
- Instrument Air header pressure is 0 psig.

INITIATING CUES (IF APPLICABLE):

- The Control Room Operator has directed you to locally dump steam from 12 S/G by locally-manually opening S/G PORV fully IAW 1ECA-0.0 Step 28.b. RNO.

JPM PERFORMANCE INFORMATION

Required Materials: None

General References: 1ECA-0.0

Task Standards: 12 S/G PORV (CV-31089 handwheel used to simulate opening the valve fully.

Start Time: _____

NOTE: When providing “Evaluator Cues” to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee’s actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

NOTE: Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

Performance Step: Critical <u>Y</u> (SEQ-1)	Locally dump steam from 12 SG using PORV (CV-31089).
Standard:	12 SG PORV handwheel used to open CV-31089 fully.
Evaluator Note:	Handwheel must be turned clockwise to open valve.
Evaluator Cue:	When examinee simulates turning the handwheel clockwise, inform him/her that steam flow can be heard through valve. After the examinee continues to turn the handwheel, tell him/her the valve is full open.
Performance:	SATISFACTORY _____ UNSATISFACTORY _____
Comments:	_____

Terminating Cues: When examinee indicates that PORV is fully open.

Stop Time: _____

TURNOVER SHEET

INITIAL CONDITIONS:

- Unit 1 has experienced a loss of all AC power.
- Attempts to restore power IAW 1ECA-0.0 have thus far been unsuccessful.
- The Control Room Operators have made the decision to depressurize the RCS by depressurizing the S/G's.
- Instrument Air header pressure is 0 psig.

INITIATING CUES (IF APPLICABLE):

- The Control Room Operator has directed you to locally dump steam from 12 S/G by locally-manually opening S/G PORV fully IAW 1ECA-0.0 Step 28.b. RNO.

ATTACHMENT 1

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
105. Are all items on the signature page filled in correctly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
106. Has the JPM been reviewed and validated by SMEs?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
107. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
108. Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
109. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
110. Has the completion time been established based on validation data or incumbent experience?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
111. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
112. Is the Licensee level appropriate for the task being evaluated if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
113. Is the K/A appropriate to the task and to the licensee level if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
114. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
115. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
116. Are all references identified, current, accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
117. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

All questions/statements must be answered "YES" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation shall sign and date this form.

Validation Personnel /Date

Validation Personnel/Date

PS-6S, Respond to Pressurizer Level Channel Failed High

	SIMULATOR JPM GUIDE
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PS-6S rev. 0 Respond to Pressurizer Level Channel Failed High	7/2/03
JPM NUMBER/TITLE	DATE

Approved by:	TRAINING MANAGEMENT
Approved by:	PROGRAM OWNER

EVALUATION LOCATION:	<input type="checkbox"/> PLANT <input checked="" type="checkbox"/> SIMULATOR <input type="checkbox"/> CONTROL ROOM
EVALUATION METHOD:	<input checked="" type="checkbox"/> PERFORM <input type="checkbox"/> SIMULATE
AVG. COMPLETION TIME:	12 AVG. TIME FOR THIS JPM IN MINUTES
TIME CRITICAL TASK:	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
MAX. COMPLETION TIME:	MAX. TIME ALLOWED FOR JPM IN MINUTES <input checked="" type="checkbox"/> N/A FOR NON-TIME CRITICAL JPM
LICENSEE LEVEL:	<input checked="" type="checkbox"/> SRO <input checked="" type="checkbox"/> RO <input type="checkbox"/> OTHER: list applicable positions as needed
TASK NUMBER:	CRO 011.ATI.01 TASK NUMBER
TASK TITLE:	Respond to pressurizer level failed high TASK TITLE
TASK TYPE:	<input checked="" type="checkbox"/> INITIAL <input checked="" type="checkbox"/> CONTINUING
K/A REFERENCE:	2.1.23 K/A REFERENCE
PLANT SYSTEM:	Pressurizer Level PLANT SYSTEM NAME/NUMBER
CRITICAL STEPS:	Yes CRITICAL (C) STEPS SEQUENCE CRITICAL (S) STEPS TIME (T) CRITICAL STEPS
TOOLS & EQUIPMENT:	Simulator
REFERENCES:	C-51 Instrument Failure Guide, C47012

Note: The follow Simulator JPM and simulator Setup, Malfunctions, Override, Remote Function sections are only applicable when simulator is used.

PS-6S, Respond to Pressurizer Level Channel Failed High

SIMUALTOR JPM

IF the Operator is present when setting up for the JPM, THEN read the following:

PLEASE STANDBY WHILE WE ESTABLISH CONDITIONS FOR THE NEXT JPM.

Ensure the simulator is clear of all unauthorized individuals and conducive to conducting the examination.

- Initialize to IC-10
- Place the simulator in run
- Place CS-46291, PZR level control selector switch is in 2-3 pos. (White-Blue)
- Place the simulator in freeze
- Read the Cue to the examinee: **Respond to plant conditions**
- Place the simulator to run
- Enter the over ride to cause the pressurizer LT to fail high

Ensure all procedures and other materials necessary to conduct the JPM examination are in their proper locations

PS-6S, Respond to Pressurizer Level Channel Failed High

SIMULATOR SET UP:

EVENT NUMBER	EVENT FILE NAME	EVENT LOGIC STATEMENT	EVENT WORD DESCRIPTION

SIMULATOR MALFUNCTIONS:

TIME	MALFUNCTION No.	MALFUNCTION TITLE	ET	DELAY	F. SEV.	RAMP	I. SEV.

SIMULATOR OVERRIDES:

TIME	OVERRIDE ID.	OVERRIDE DESCRIPTION	ET	DELAY	VALUE	RAMP
0	RX206	Pzr level LT 428			100	

SIMULATOR REMOTE FUNCTIONS:

TIME	REMOTE FUNCTION No.	REMOTE FUNTION TITLE	VALUE	RAMP

GO TO NEXT PAGE

PS-6S

READ THE FOLLOWING INSTRUCTIONS TO THE OPERATOR:

THIS TASK IS NOT TIME CRITICAL

THE TASK CONDITIONS ARE:

THE STEPS IN THIS JPM SHOULD BE:

INITIATING CUE: You are the Unit I RO, Respond to plant conditions

INFORM THE EVALUATOR WHEN YOU HAVE COMPLETED THE TASK:

DO YOU HAVE ANY QUESTIONS BEFORE WE BEGIN?

Answer any questions the operator may have, then read the following to initiate the JPM:

IF THERE ARE NO FURTHER QUESTIONS THEN LET'S BEGIN

GO TO NEXT PAGE

QF-1030-11 Rev. 1 (FP-T-SAT-30)

INSTRUCTOR ACTIONS:

If required take the simulator out of freeze. (Only applicable if using simulator.)

Use the JPM evaluation form to mark the Operator's performance as the task is being performed.

Follow the prescribed format for implementing the JPM evaluation.

Provide cues in accordance with the JPM.

Take notes to support the results of the pass/fail grade.

For unsatisfactory grades, documentation must be noted in the comments section of the JPM evaluation form.

GO TO NEXT PAGE

LOG START TIME:

NOTE: Critical steps are denoted with a "C." Failure to meet the standard for this step constitutes failure.

PERFORMANCE STEP: CRITICAL:	Respond to Pressurizer level deviation alarm: <ul style="list-style-type: none"> - Verify level deviation - Verify level controller LC-428 controlling in Auto - Place charging in manual
STANDARD:	Charging placed in manual
PERFORMANCE RESULTS:	<input type="checkbox"/> SATISFACTORY <input type="checkbox"/> UNSATISFACTORY
COMMENTS:	Examinee may respond to the alarm response or go directly to C-51 Instrument Failure Guide

PERFORMANCE STEP: CRITICAL:	Determine LT 428 failed high and Implement C-51 Instrument Failure Guide
STANDARD:	Implement C-51: <ul style="list-style-type: none"> - Verify level indicator failed high - Blue status light on for PZR high level RX trip 0313 - High level channel alert annunciator - If Blue channel selected to level control <ul style="list-style-type: none"> a. Charging to min. speed b. Charging pump high/lo speed alarm c. BU heaters on d. PZR level deviation alarm
PERFORMANCE RESULTS:	<input type="checkbox"/> SATISFACTORY <input type="checkbox"/> UNSATISFACTORY
COMMENTS:	

QF-1030-11 Rev. 1 (FP-T-SAT-30)

PERFORMANCE STEP: CRITICAL: N	Control pressurizer heaters manually
STANDARD:	Pressurizer heater control switches are placed in any position except AUTO.
PERFORMANCE RESULTS:	<input type="checkbox"/> SATISFACTORY <input type="checkbox"/> UNSATISFACTORY
COMMENTS:	

PERFORMANCE STEP: CRITICAL: C	Place charging in manual and adjust level to setpoint.
STANDARD:	Charging pump speed control is placed in MANUAL. If pressurizer level is above setpoint, charging flow is reduced until total flow is less than letdown + RCP seal leakoff. If pressurizer level is below setpoint, charging flow is reduced until total flow is less than letdown + RCP seal leakoff.
PERFORMANCE RESULTS:	<input type="checkbox"/> SATISFACTORY <input type="checkbox"/> UNSATISFACTORY
COMMENTS:	

PERFORMANCE STEP: CRITICAL: C	Select 2-1 (White-Red) on PZR level control selector switch
STANDARD:	PZR level control selector switch is placed in 2-1 (White-Red) position.
PERFORMANCE RESULTS:	<input type="checkbox"/> SATISFACTORY <input type="checkbox"/> UNSATISFACTORY
COMMENTS:	

QF-1030-11 Rev. 1 (FP-T-SAT-30)

PERFORMANCE STEP: CRITICAL: N	Complete corrective actions of C-51
STANDARD:	Complete corrective actions of C-51 - Return pressurizer heaters to auto - Return one charging pump speed control to auto - Ensure pressurizer level recorder not in Blue channel - Recommend SS refer to TS LCO 3.3.1
PERFORMANCE RESULTS:	<input type="checkbox"/> SATISFACTORY <input type="checkbox"/> UNSATISFACTORY
COMMENTS:	

TERMINATING CUE: JPM may be terminated when SS is referred to TS

LOG STOP TIME:

When the operator completes the JPM, then read the following:

THAT COMPLETES THIS PORTION OF THE JPM.

Ask any required follow-up questions and note the questions and answers in the JPM evaluation comments section.

When follow-up questions are complete, then read the following:

THAT COMPLETES THIS JPM.

GO TO NEXT PAGE

VERIFICATION OF COMPLETION

JPM NUMBER: _____

JPM TITLE: _____

OPERATOR: _____ EVALUATOR: _____

VERIFICATION STATEMENT	YES	NO	N/A
Were all critical steps performed correctly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If the JPM was time critical, <u>Then</u> was the JPM completed in the designated time?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If the JPM was not time critical, <u>Then</u> was acceptable progress made in performing the task?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Was the task standard met?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If any of the above questions were answered NO, then this JPM must be evaluated as unsatisfactory.

LICENSEE:

- SRO
- RO
- SRO CERTIFICATION
- OTHER: list applicable positions as needed

RESULTS:

- SATISFACTORY
- UNSATISFACTORY

COMMENTS/FEEDBACK: (Comments shall be made for any steps graded unsatisfactory).

EVALUATOR'S SIGNATURE: _____

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

ALL STEPS IN THIS CHECKLIST MUST BE PERFORMED UPON INITIAL VALIDATION AND REVALIDATION PRIOR TO USE.

REVIEW STATEMENTS	YES	NO
1. All items on page one of this procedure are filled in correctly?	<input type="checkbox"/>	<input type="checkbox"/>
2. The JPM as been reviewed and validated by SMEs?	<input type="checkbox"/>	<input type="checkbox"/>
3. The required conditions for the JPM can be appropriately established in the simulator?	<input type="checkbox"/>	<input type="checkbox"/>
4. The performance steps accurately reflect operator actions in accordance with plant procedures?	<input type="checkbox"/>	<input type="checkbox"/>
5. The standard for each performance item is specific as to what controls, indications and ranges are required to evaluate if the operator properly performed the step?	<input type="checkbox"/>	<input type="checkbox"/>
6. The average completion time has been established based on validation data or incumbent experience?	<input type="checkbox"/>	<input type="checkbox"/>
7. Establishing the task as time critical is based on actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>
8. The maximum time requirement has been established based on actual task performance requirements or if a maximum time requirement does not apply, then it has been based on reasonable progress in completing the task?	<input type="checkbox"/>	<input type="checkbox"/>
9. Licensee level is appropriate for the task being evaluated?	<input type="checkbox"/>	<input type="checkbox"/>
14. The K/A is appropriate to the task and to the licensee level?	<input type="checkbox"/>	<input type="checkbox"/>
11. Critical steps have been identified and typed (C, S, T) appropriately?	<input type="checkbox"/>	<input type="checkbox"/>
12. All special tools and equipment needed to perform the task have been identified and are available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>
13. All references are identified, current and accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>
14. All required cues (as can be anticipated) have been identified for the evaluator to assist task completion.	<input type="checkbox"/>	<input type="checkbox"/>

All questions/statements must be answered "YES" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation shall sign and date this form.

Validation Personnel /Date

Validation Personnel/Date

	JOB PERFORMANCE MEASURE (JPM)
-----------------------------------------------------------------------------------	--------------------------------------

SITE: **Prairie Island**

TASK TITLE: RESPONSE TO CONTAINMENT ISOLATION FAILURE

JPM NUMBER: E0-29SF-1 **REV. 0**

RELATED PRA INFORMATION: **Important Operator Action. This provides 10.3% CDF Reduction if performed correctly.**

TASK NUMBERS: CRO 3010010601

K/A NUMBERS: 013A4.01

APPLICABLE METHOD OF TESTING:

Discussion: Simulate/walkthrough: Perform:

EVALUATION LOCATION: In-Plant: Control Room:

Simulator: Other:

Lab:

Time for Completion: 10 Minutes Time Critical: _____

Alternate Path / Faulted: _____

TASK APPLICABILITY: SRO, RO

Additional signatures may be added as needed.

Developed by:	Dennis Westphal	7/14/03
	Instructor	Date
Validated by:	Validation Instructor	Date
	(See JPM Validation Checklist, Attachment 1)	
Approved by:	Training Supervisor	Date

JPM BRIEFING/TURNOVER

Add required site specific JPM briefing material here:

i.e., This section is read once for the entire package of JPMs. It is not required to review this section for every JPM being performed in the package. The initial conditions and initiating cue(s)/tasks to be performed should be read and then provided to the examinee.

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

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

DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.

INITIAL CONDITIONS:

- A large break LOCA has occurred on Unit 1.
- All actions in 1E-0 performed to TRANSITION to 1E1.
- All actions in 1FR-Z.1 were performed before TRANSITION to 1E1 was made.
- All actions in 1E-1 were completed through and including Step 6.
- RWST level has decreased to 32%.
- SS has directed TRANSITION to 1ES-1.2 to transfer ECCS to recirculation.

INITIATING CUES (IF APPLICABLE):

- The Unit 1 SS directs you to continue with 1ES-1.2 starting at step 2, and place Train "A" ECCS in the recirculation mode.

JPM PERFORMANCE INFORMATION

Required Materials: None

General References: 1ES-1.2

Task Standards: Train A safeguard equipment in recirculation mode.

Start Time: _____

NOTE: When providing “Evaluator Cues” to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee’s actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

NOTE: Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

Performance Step:	Reset SI
Critical <u>N</u>	
Standard:	Annunciator 47014-0504 on; Annunciator 47014-0604 off.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step:	Reset containment spray.
Critical <u>N</u>	
Standard:	CS-46001 and CS-46065 depressed, annunciator 47019-0103 off.
Evaluator Note:	IF only CS-46001 is depressed, annunciator 47019-0103 off.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical <u>N</u>	Check both trains of safeguards pumps available for recirculation
Standard:	Verifies both trains of safeguards pumps are running.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical <u>Y</u>	Stop 11 RHR pump.
Standard:	CS-46184 to stop position; green indicating light on.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical <u>Y</u>	Stop 11 SI pump.
Standard:	CS-46178 to stop position; green indicating light on.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical <u>N</u>	Stop 11 containment spray pump.
Standard:	CS-46008 to stop; green indicating light on.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

[SI-11S], [Transfer SI to Recirculation Mode], [Rev. 12]

Performance Step: Critical <u>Y</u>	Close RWST to 11 RHR pump suction MV-32084.
Standard:	CS-46202 to close; green indicating light on.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical <u>Y</u>	Close SI test line to RWST valves MV-32202 and MV-32203.
Standard:	CS-46204 and CS-46205 to close position; green indicating light on.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical <u>N</u>	Verify RHR to reactor vessel nozzle valves MV-32064 and MV-32065 open.
Standard:	CS-46223 and CS-46224 red indicating light on.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical <u>N</u>	Align CC to RHR Heat Exchanger for Idle RHR Train, Opens MV-32093
Standard:	CS-46023 red indicating light on.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

[SI-11S], [Transfer SI to Recirculation Mode], [Rev. 12]

Performance Step: Critical <u>N</u>	Check Sump B level adequate to support RHR Pump Operation Sump B level – 100% OR Containment level greater than 1.75 feet
Standard:	Checks Sump B levels on indicators 1LI725 and 1LI726 OR Containment levels on indicators 1LI727 and 1LI728.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical <u>Y</u>	Verify RWST to RHR isolation valves for 11 RHR pump are CLOSED, MV-32084.
Standard:	Examinee checks red light off, green light on for CS-46202.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical <u>N</u>	Check Sump B to RHR MV bonnets vented per Attachment K.
Standard:	Examinee asks Aux Building Operator if bonnets vented.
Evaluator Cue:	Aux Building Operator reports that bonnets vented per Attachment K.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical <u>Y</u>	Open Sump B to RHR isolation valves for 11 RHR pump MV-32075 <u>AND</u> MV-32077.
Standard:	Positions CS-44210 and CS-46208 to OPEN; red light on for both switches.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

[SI-11S], [Transfer SI to Recirculation Mode], [Rev. 12]

Performance Step: Critical <u>N</u>	Check if 12 containment spray pump can be stopped. Check 12 Containment Spray Pump running Verify containment Pressure <20psig Stop 12 CS Pump
Standard:	CS-46009 to stop; green indicating light on.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical <u>Y</u>	Verify Sump B to RHR isolation valves for 11 RHR pump are FULL OPEN, MV-32075 <u>AND</u> MV-32077.
Standard:	Red light on and green light off for CS-44210 and CS-46208.
Evaluator Note:	Examinee SHALL not proceed until both valves are full open.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical <u>Y</u>	Start 11 RHR pump.
Standard:	CS-46184 to start; red indicating light on.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical <u>N</u>	Check RCS pressure less than 125 psig.
Standard:	Pressure check on 1PI-709, 1PI-710, ERCS, or 1PR-420 pressure greater than 125 psig. Transitions to step 14.
Evaluator Note:	If indicated RCS pressure is less than 125 psig, tell examinee, "RCS pressure is greater than 125 psig".
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical <u>Y</u>	Close 11 SI pump suction isolation valve MV-32162.
Standard:	CS-46193 to close; green indicating light on.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical <u>N</u>	Check RHR pressure less than 210 psig.
Standard:	Examinee checks RHR pressure less than 210 psig on 1PI-629.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical <u>Y</u>	Open 11 RHR pump supply to 11 SI pump suction MV-32206.
Standard:	CS-46206 to open; red indicating light on.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical <u>Y</u>	Start 11 SI pump.
Standard:	CS-46178 to start; red indicating light on.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

[SI-11S], [Transfer SI to Recirculation Mode], [Rev. 12]

Performance Step:	Verify SI flow.
Critical <u>N</u>	
Standard:	SI flow indicated on 1FI-925.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step:	Close 11 RHR pump supply to reactor vessel nozzle MV-32064.
Critical <u>N</u>	
Standard:	CS-46223 to close; green indicating light on.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Terminating Cues: 11 SI pump being supplied from 11 RHR pump via sump B, RHR supply to reactor vessel valve MV-32064 closed.

Stop Time: _____

SIMULATOR SETUP

Instructor Guide:

- Initialize the simulator to IC-10.
- Insert code lines to prepare for transfer to recirc (Attachment K) **(Relative Order 0)**.
- Insert malfunction RC07A at 15% severity, cold leg LOCA **(Relative Order 1)**.
- Manually actuate containment spray when containment pressure exceeds 17 psig.
- Perform steps of E-0, E-1 through step 6.
- Place all FCU's in slow and stop SFP Make-up and Exhaust Fans.
- **Freeze** simulator after RCS pressure is less than 500 psig.
- Give initial conditions.
- Do not come out of freeze until just before the first control board manipulation.

REL.				<i>CODE</i>	<i>SEVERITY ENTRY</i>
<i>ORDER</i>	<i>DESCRIPTION</i>				
0	WD104	ANN SUMP		WL-87-1	aligned to ASMP
0	WD105	ANN SUMP		WL-87-2	aligned to ASMP
0	CH127	OFF		Rad Waste Bldg Vent	Stopped
0	CC111	Removed		11 CC Travel Stops	Removed
0	CC112	Removed		12 CC Travel Stops	Removed
0	SI107	NRML		SI suction from RHR BKR	ON
0	SI108	NRML		SI suction from RHR BKR	ON
0	SI115	33		Puts RWST to	33%
0	AO-1LI725	100		Sump B Level	
0	AO-1LI726	100		Sump B Level	
0	AO-1LI727	40		CTMNT Level	
0	AO-1LI728	40		CTMNT Level	
1	RC07A	15		Cold leg LOCA	

TURNOVER SHEET

INITIAL CONDITIONS:

- A large break LOCA has occurred on Unit 1.
- All actions in 1E-0 performed to TRANSITION to 1E1.
- All actions in 1FR-Z.1 were performed before TRANSITION to 1E1 was made.
- All actions in 1E-1 were completed through and including Step 6.
- RWST level has decreased to 32%.
- SS has directed TRANSITION to 1ES-1.2 to transfer ECCS to recirculation.

INITIATING CUES (IF APPLICABLE)

The Unit 1 SS directs you to continue with 1ES-1.2 starting at step 2, and place Train "A" ECCS in the recirculation mode.

ATTACHMENT 1

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
118. Are all items on the signature page filled in correctly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
119. Has the JPM been reviewed and validated by SMEs?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
120. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
121. Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
122. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
123. Has the completion time been established based on validation data or incumbent experience?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
124. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
125. Is the Licensee level appropriate for the task being evaluated if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
126. Is the K/A appropriate to the task and to the licensee level if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
127. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
128. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
129. Are all references identified, current, accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
130. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

All questions/statements must be answered "YES" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation shall sign and date this form.

Validation Personnel /Date

Validation Personnel/Date

	JOB PERFORMANCE MEASURE (JPM)
-----------------------------------------------------------------------------------	--------------------------------------

SITE: **Prairie Island**

TASK TITLE: RESPONSE TO CONTAINMENT ISOLATION FAILURE

JPM NUMBER: E0-29SF-1 **REV.** 0

RELATED PRA INFORMATION:

TASK NUMBERS: CRO 3010010601

K/A NUMBERS: 013A4.01

APPLICABLE METHOD OF TESTING:

Discussion: Simulate/walkthrough: Perform:

EVALUATION LOCATION: In-Plant: Control Room:

Simulator: Other:

Lab:

Time for Completion: 10 Minutes Time Critical: _____

Alternate Path / Faulted: _____

TASK APPLICABILITY: SRO, RO

Additional signatures may be added as needed.

Developed by:	Dennis Westphal	7/14/03
	Instructor	Date
Validated by:	Validation Instructor	Date
	(See JPM Validation Checklist, Attachment 1)	
Approved by:	Training Supervisor	Date

JPM BRIEFING/TURNOVER

Add required site specific JPM briefing material here:

i.e., This section is read once for the entire package of JPMs. It is not required to review this section for every JPM being performed in the package. The initial conditions and initiating cue(s)/tasks to be performed should be read and then provided to the examinee.

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

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

DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.

INITIAL CONDITIONS:

- The control rods failed to insert following an attempted Reactor Trip.
- FR-S.1 ATWS procedure is in effect.
- Steps 1, 2 and 3 of FR-S.1 have been completed.

INITIATING CUES (IF APPLICABLE):

- Perform step 4 of FRS.1.

JPM PERFORMANCE INFORMATION

Required Materials: None

General References: FR-S.1

Task Standards: Initiate emergency boration IAW FR-S.1

Start Time: _____

NOTE: When providing “Evaluator Cues” to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee’s actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

NOTE: Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

Performance Step: Critical _	Attempts normal boration
Standard:	Examinee attempts normal boration: - Places make up mode selector switch to borate - Sets boric acid integrator to desired value - Sets boric acid flow control to desired value - Places control switch to start
Evaluator Cue:	Normal boration will be unsuccessful, start switch fails to initiate.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: (S-1) Critical <u>Y</u>	Examinee transitions to RNO to FRS.1 and shifts running BA pump to fast.
Standard:	Running pump shifted to FAST (CS-46163 or CS-46164) and started (CS-46161 or CS-46162)
Evaluator Cue:	CS-46161 or CS-46162 FAST red light ON.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: Critical ____	Open inservice BAST recirc valve to 50%
Standard:	Inservice BAST recirc valve (CV-31195 or CV-31197) opened to 50% (1HC-105 or 1HC-104)
Evaluator Cue:	Inservice BAST recirc valve at 50% open.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Performance Step: (S-1) Critical <u>Y</u>	Open emergency boration motor valve.
Standard:	MV-32086 opened (CS-46297).
Evaluator Cue:	CS-46297 red light in ON.
Performance:	SATISFACTORY ____ UNSATISFACTORY ____
Comments:	_____

Terminating Cues: Emergency boration established., integrator begins to click one gallon about every 10 sec.

Stop Time: _____

- Initialize to IC-10
- Insert any ATWS malf
- Insert IO D1- 46301 C close
- Insert IO D1- 46281 : IN
- Run for 1 min.
- Freeze

Provide examinee with initial conditions and cue

Remove simulator from freeze

TURNOVER SHEET

INITIAL CONDITIONS:

- The control rods failed to insert following a Unit 1 reactor trip.
- FR-S.1 ATWS procedure is in effect.
- Steps 1, 2 and 3 of FR-S.1 have been completed.

INITIATING CUES (IF APPLICABLE):

- Perform step 4 of FRS.1.

ATTACHMENT 1

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138. Is the Licensee level appropriate for the task being evaluated if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
139. Is the K/A appropriate to the task and to the licensee level if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
140. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
141. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
142. Are all references identified, current, accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Validation Personnel /Date

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