Xcel Energy*	JOB PERFORM	ANCE MEASURE	(JPM)	
SITE:	PRAIRIE ISLAND			
JPM TITLE:	LOCAL OPERATION	OF THE 22 TD AFWP		
JPM NUMBER:	AF-16F-1	REV. 5		
RELATED PRA INFORMATION:	22 TD AFW PMP			
TASK NUMBERS / TASK TITLE(S):		06 / LOCAL OPERATIO 00 / LOCALLY START	ON OF TD AFW PUMP TD AFWP USING 3-WAY	′ VALVI
K/A NUMBERS:	061 A2.04 (3.4/3.8)			
APPLICABLE METHOD O	F TESTING:			
	Discussion:	Simulate/walkthrou	gh: X Perform:	
EVALUATION LOCATION	: In-Plant:	X Control	Room:	
	Simulator:	Other:		
	Lab:			
Time for Completion	n: 12 Minute	es Time	Critical: NO	
Alternate Path:	YES			
TASK APPLICABILITY:	SRO: X R	O: X NLO X		
Additional site-specific sign	natures may be added a	as desired.		\neg
Developed by:	Fredrick (Collins		
	Develo	per	Date	
Validated by:	Justin Ha	asner		
- (3	Valida See JPM Validation Che		Date	
, 		,		
Approved by:	Training Su	pervisor	 Date	_
		•		

Retention: Life of Plant

Retain in: Training Record
Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM BRIEFING/TURNOVER

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 Safety Injection has occurred in Unit 2.
- No AFW Pumps could be started from the Control Room.
- Pre-start checks on 22 TDAFWP per 2C28.1, section 5.8.1 and 5.8.2 are complete.
- Condensate Storage Tanks are near full level (19 feet).

INITIATING CUES:

- The SS directs you to start 22 TDAFWP per 2C28.1, beginning at step 5.8.3.
- ALL OPERATOR ACTIONS ARE TO BE SIMULATED UNLESS OTHERWISE DIRECTED.

Retention: Life of Plant Retain in: Training Record

JPM PERFORMANCE INFORMATION

Required Materials:	Consumable copy of 2C28.1	, sections 5.8 through 5.10	, with steps 5.8.1 and
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5.8.2 signed off.

General References: 2C28.1, AUXILIARY FEEDWATER SYSTEM UNIT 2

Task Standards: Examinee determines 22 TD AFW Pump local start pushbutton does not work

and starts 22 TD AFW Pump using 3-Way Valve 2AF-292-1.

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).

IMPORTANT: 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, per FP-T-SAT-73, Licensed Operator Requalification Program Examinations.

Performance Step: Critical N	2C28.1 Step 5.8.3	
-	Place CS-51617, 22 TDAFWP CV-31999, LOCAL/REMOTE switch in the LOCAL position.	
Standard:	Examinee places CS-51617 in the LOCAL position.	
Evaluator Cue:	When examinee simulates placing CS-51617 in the LOCAL position, then inform examinee CS-51617 is in the LOCAL position.	
Performance:	SATISFACTORY UNSATISFACTORY	
r enormance.	ONDATIONATION	
Comments:		

Retention: Life of Plant Retain in: Training Record

Performance Step: Critical N	2C28.1 Step 5.8.4
	Depress LOCAL RESET pushbutton CS-5161801, 22 TD AFW PMP RESET PB.
Standard:	Examinee depresses CS-5161801.
Evaluator Cue:	When examinee simulates depressing CS-5161801, then inform examinee CS-5161801 has been depressed.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Performance Step: Critical Y	2C28.1 Step 5.8.5
_	Depress and hold LOCAL START pushbutton CS-5161802, 22 TD AFW PMP START PB for five (5) seconds.
Standard:	Examinee determines CS-5101802 does not work and proceeds to: 2C28.1 Section 5.10, Use of 3-Way Valve 2AF-292-1
Evaluator Cues:	 After examinee has simulated depressing and holding CS-5161802, then inform examinee the 22 TDAFWP did NOT start and the 22 TDAFWP Aux Lube Oil Pump did NOT start. If examinee informs the SS the 22 TDAFWP did not start and asks for
	direction, then inform the examinee to start 22 TDAFWP per 2C28.1, SECTION 5.10.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	OATIOLACIONI ONOATIOLACIONI

ALTERNATE PATH STARTS HERE

Retention: Life of Plant Retain in: Training Record

Performance Step: Critical N	2C28.1 Steps 5.10.1.A through 5.10.1.D
ondicul <u>IV</u>	Verify the following: Oil levels between sightglass marks: Turbine IBRG Turbine OBRG Oil level within 1/4" of mark on governor sightglass. Pump oil level is between the sightglass upper mark and the top of the sightglass. 11081, 22 TD AFW PMP SUCT STRNR OUTL PI, is approx. eight (8) psig: Open 11081-ISOL Record 11081 Close 11081-ISOL
Standard:	Examinee determines steps A-D were previously completed in section 5.8.
Evaluator Cue:	If the examinee attempts to perform steps 5.10.1.A, B, C, and D, inform the examinee these steps were already accomplished in Section 5.8 and DO NOT perform them.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Performance Step: Critical N	2C28.1 Step 5.10.1.E
_	Condensate Storage Tank Level is greater than four (4) feet.
Standard:	Examinee determines CST levels are greater than 4 feet.
Evaluator Cue:	Inform the examinee that CST levels are all 19 feet.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	

Retention: Life of Plant

Retain in: Training Record
Form retained in accordance with record retention schedule identified in FP-G-RM-01.

Performance Step: Critical N	2C28.1 Step 5.10.2
_	Place CS-51617, 22 TD AFWP CV-31999, LOCAL/REMOTE switch in the LOCAL position.
Standard:	Examinee places CS-51617 in the LOCAL position.
Evaluator Note:	This step was already accomplished in section 5.8.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
<u>-</u>	
Performance Step: Critical N	2C28.1 Step 5.10.3
<u> </u>	2C28.1 Step 5.10.3 Depress LOCAL RESET pushbutton CS-5161801, 22 TD AFW PMP RESET PB.
<u> </u>	Depress LOCAL RESET pushbutton CS-5161801, 22 TD AFW PMP RESET
Critical <u>N</u>	Depress LOCAL RESET pushbutton CS-5161801, 22 TD AFW PMP RESET PB.
Critical <u>N</u> Standard:	Depress LOCAL RESET pushbutton CS-5161801, 22 TD AFW PMP RESET PB. Examinee depresses CS-5161801.
Critical <u>N</u> Standard:	Depress LOCAL RESET pushbutton CS-5161801, 22 TD AFW PMP RESET PB. Examinee depresses CS-5161801.

Retention: Life of Plant Retain in: Training Record

Performance Step: Critical <u>N</u>	2C28.1 Step 5.10.4
_	IF the auxiliary lube oil pump is NOT running, THEN depress LOCAL START pushbutton CS-19335, 22 TD AFWP AUX LUBE OIL PUMP, to start the auxiliary lube oil pump.
Standard:	Examinee starts the 22 TD AFWP AUX LUBE OIL PUMP using CS-19335.
Evaluator Cues:	 If the examinee asks for the status of 22 TD AFWP AUX LUBE OIL PUMP prior to pressing CS-19335, then inform the examinee it is NOT running. When CS-19335 is depressed, inform the examinee that the 22 TD AFWP AUX LUBE OIL PUMP is running.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Performance Step: Critical Y	2C28.1 Step 5.10.5
_	Place 2AF-292-1 in the OPEN position. 22 TD AFW Pump should roll up to full speed within 30 seconds.
Standard:	Examinee places 2AF-292-1 in the OPEN position.
Evaluator Cue:	When examinee simulates opening 2AF-292-1, inform examinee the 22 TDAFWP has started is up to rated speed and has a discharge pressure of 1650 psig.
Evaluator Note:	Question examinee how to verify proper operation of TD AFW Pump.
Evaluator Note.	 Discharge pressure 1650 psig AOP shuts down, etc
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Terminating Cues:	When the examinee has determined the 22 TD AFW Pump local start pushbutton did not work and has started 22 TD AFW Pump using 3-Way Valve 2AF-292-1, then this JPM is complete.
Stop Time:	

Retention: Life of Plant Retain in: Training Record

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 cover page filled in correctly?			
2.	Has the JPM been reviewed and validated by SMEs?			
3.	Can the required conditions for the JPM be appropriately established in the simulator if required?			
4.	Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?			
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?			
6.	If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?			
7.	If the task is time critical, is the time critical portion based upon actual task performance requirements?			
8.	Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators			
9.	Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators			
10.	Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?			
11.	Have all special tools and equipment needed to perform the task been identified?			
12.	Are all references identified, current, and accurate?			
13.	Have all required cues (as anticipated) been identified for the evaluator to assist task completion?			

All applicable questions must be answered "YES" or the JPM is not valid for use. If all applicable questions are answered "YES" then the JPM is considered valid and can be performed as written.

Retention: Life of Plant Retain in: Training Record

ATTACHMENT 2

JPM Number:	AF-16F-1		
JPM Title:	LOCAL OPERATION OF TH	E 22 TD AFWP	
Examinee & ID:		Evaluator:	
Job Title:		Date:	
PERFORMANCE		SAT:	UNSAT:
COMMENTS/FEE	DBACK: (Make written com	ments for any steps gra	ided unsatisfactory).

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.

Retention: Life of Plant Retain in: Training Record

EVALUATOR'S SIGNATURE:

ATTACHMENT 3

TURNOVER SHEET

INITIAL CONDITIONS:

- A Safety Injection has occurred in Unit 2.
- No AFW Pumps could be started from the Control Room.
- Pre-start checks on 22 TDAFWP per 2C28.1, section 5.8.1 and 5.8.2 are complete.
- Condensate Storage Tanks are near full level (19 feet).

INITIATING CUES:

- The SS directs you to start 22 TDAFWP per 2C28.1, beginning at step 5.8.3.
- ALL OPERATOR ACTIONS ARE TO BE SIMULATED UNLESS OTHERWISE DIRECTED.

Retention: Life of Plant Retain in: Training Record

Xcel Energy	JOB PERFORMANCE MEASURE (JPM)	
SITE:	PRAIRIE ISLAND	
JPM TITLE:	STOP 11 TDAFWP WITH ACCUMULATOR FAILURE	
JPM NUMBER:	AF-21SF REV. 1	
RELATED PRA INFORMATION:	IMPORTANT COMPONENT – 11 TD AFWP	
TASK NUMBERS / TASK TITLE(S):	CRO 061 009 01 01 000 / SHUTDOWN THE AFW SYSTE	≣M
K/A NUMBERS:	061 K4.01 (4.1/4.2)	
APPLICABLE METHO	D OF TESTING:	
	Discussion: Simulate/walkthrough:	Perform: X
EVALUATION LOCATI	ON: In-Plant: Control Room:	
	Simulator: X Other:	
	Lab:	
Time for Comple	etion: 7 Minutes Time Critical:	NO
Alternate Path:	YES	
TASK APPLICABILIT	Y: SRO: X RO: X NLO	
Additional site-specific	signatures may be added as desired.	
Developed by: Fr	redrick Collins	
	Developer	Date
Validated by: Ju	ustin Hasner	
	Validator (See JPM Validation Checklist, Attachment 1)	Date
Approved by: SI	hawn Sarrasin Training Supervisor	Date
1	Hailiilu Subervisui	Dale

Retention: Life of Plant

Retain in: Training Record
Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM BRIEFING/TURNOVER

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 at the Point of Adding Heat.
- The Main Generator is being prepared to synchronize to the grid.
- Main Feedwater is supplying both Steam Generators using the Main Feedwater Regulating Bypass Valves.
- 11 TDAFW Pump is running and supplying both Steam Generators.
- The crew is on step 5.6.10.A of 1C1.2-BOP, Unit 1 Balance of Plant Systems Startup, to shutdown any running AFW pumps.

INITIATING CUES:

• The Shift Supervisor directs you to STOP the 11 TDAFW Pump and align for safeguards operations per step 5.3 of 1C28.1. AUXILIARY FEEDWATER SYSTEM – UNIT 1.

Retention: Life of Plant Retain in: Training Record

JPM PERFORMANCE INFORMATION

Required Materials:	NONE
General References:	1C28.1, Auxiliary Feedwater System – Unit 1 1C1.2-BOP Unit 1 Balance of Plant Systems Startup C47010
Task Standards:	Examinee stops 11 TDAFW and closes MV-32016 and MV-32017.
Start Time:	<u> </u>
the examinee. Ty	Evaluator Cues" to the examinee, care must be exercised to avoid prompting pically cues are only provided when the examinee's actions warrant receiving e., the examinee looks or asks for the indication).
the standar	os are marked with a "Y" below the performance step number. Failure to meet of for any critical step shall result in failure of this JPM, per FP-T-SAT-73, perator Requalification Program Examinations.
Performance Step:	1C28.1, Step 5.3.1:
Critical N	Refer to Precaution 3.12 prior to throttling total AFW flow.
Standard:	Examinee refers to precaution 3.12.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Performance Step: Critical N	1C28.1, Step 5.3.2:
Critical <u>N</u>	CLOSE MV-32238, 12 TD AFWP TO 11 STM GEN, using CS-46314.
Standard:	Examinee verifies MV-32238 is CLOSED.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	

Retention: Life of Plant Retain in: Training Record

Performance Step: Critical N	1C28.1, Step 5.3.3:
_	CLOSE MV-32239, 11 TD AFWP TO 12 STM GEN, using CS-46315.
Standard:	Examinee verifies MV-32239 is CLOSED.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
_	
Performance Step: Critical <u>Y</u>	1C28.1, Step 5.3.4:
	Stop 11 TD AFW Pump using CS-46424.
Standard:	Examinee stops 11 TD AFW Pump using CS-46424.
Evaluator Cue	Once the examinee takes CS-46424 to CLOSE, BOOTH OPERATOR, verify TRIGGER1 is inserted.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	

Performance Step: Critical N	1C28.1, Step 5.3.5 & 5.3.6:
01111001 <u>11</u>	Verify locally:
	A. 11 TD AFW Pump has stopped.
	B. CV-31153, 11 TD AFW PMP RECIRC/LUBE OIL COOLING VALVE,
	has CLOSED.
	C. Auxiliary lube oil pump is running.
Standard:	Examinee directs an out-plant operator to locally verify local actions.
Evaluator Cue:	When the examinee directs the out-plant operator to locally verify actions,
Evaluate: 535.	then inform examinee that the 11 TDAFWP is stopped, CV-31153 is closed, and aux lube oil pump is running.
	After examinee is informed of the outplant actions being completed, then insert (or verify) TRIGGER 1, 11 TD AFWP Accumulator Low Air Press.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Performance Step:	C47010-0105, 11 TD AFWP ACCUMULATOR LO AIR PRESS
Performance Step:	C47010-0105, 11 TD AFWP ACCUMULATOR LO AIR PRESS ALTERNATE PATH STARTS HERE
Performance Step: Critical <u>N</u>	ALTERNATE PATH STARTS HERE
Performance Step:	
Performance Step: Critical <u>N</u>	ALTERNATE PATH STARTS HERE
Performance Step: Critical <u>N</u>	ALTERNATE PATH STARTS HERE

Retention: Life of Plant Retain in: Training Record

Comments:

Performance Step: Critical N	C47010-0105, 11 TD AFWP Accumulator LO Air Press, Step 1:
_	Check for low air pressure on 18702, 11 TD AFW PMP STM BLK VLV AIR ACCUM.
Standard:	Examinee ascertains air pressure is low.
EVALUATOR CUE:	If the examinee requests the pressure on gage 18702 from the NLO, inform the examinee that pressure is 71 psig and slowly lowering.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Performance Step: Critical N	C47010-0105, 11 TD AFWP Accumulator LO Air Press, Step 2:
_	If a low air pressure condition exists, then notify the shift supervisor that
	11 TDAFW Pump is inoperable and enter T.S.3.7.5 Condition B.
Standard:	11 TDAFW Pump is inoperable and enter T.S.3.7.5 Condition B. Examinee makes notification to SS.
Standard: Performance:	

Performance Step: Critical Y	C47010-0105, 11 TD AFWP Accumulator LO Air Press, Step 3:
	IF 11 AFW pump is NOT running, THEN perform one of the following to prevent an undesired start of the pump due to CV-31998 failing OPEN:
	 CLOSE both steam supply valves to 11 TDAFW Pump; MV-32016 AND MV-32017
	OR
	● Locally CLOSE CV-31059, 11 TD AFW PMP TRIP THROTTLE CV
Standard:	Examinee CLOSES both MV-32016 and MV-32017
EVALUATOR NOTE:	If the examinee directs the NLO to locally close CV-31059, inform the examinee that the valve is STUCK and will NOT close.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	UNDATION
Terminating Cues:	When the examinee stops 11 TDAFWP and closes MV-32016 and MV-32017, there the JPM is complete.
Stop Time:	

Simulator Setup:

- 1. Reset the simulator to IC-260.
- 2. Place the simulator in RUN and go to step 5.
- 3. If an IC is NOT created for this scenario, then create as follows:
 - a. Reset to IC-103.
 - b. Place the simulator in RUN.
 - c. Start 11 TDAFWP per 1C28.1.
 - d. If running this JPM in conjunction with **EG-20S**, then:
 - 1) D5 Diesel Generator is NOT running.
 - 2) Place CS-46946, D5 DSL GEN START SPEED SEL SW, is in FAST
 - 3) Place D5 OUTPUT BKR (25-2) AUTO/MAN SEL SW in MANUAL.
 - e. Place simulator in FREEZE.
 - f. If desired, save to an available IC.
 - g. Place simulator in RUN.
 - h. Go to step 4.
- 4. Reset the simulator to IC created from step 3 and place in RUN.
- 5. If available, run schedule file **AF-21SF.sch** as follows:
 - a. Select open file in the Schedule application.
 - b. Locate schedule file.
 - c. Open schedule file by double clicking it.
 - d. Run the schedule file by pressing the "Stopped" button on the toolbar.
 - e. Verify the schedule file is running.
- 6. If schedule file is NOT available, then insert malfunctions, remotes, and overrides, as specified by the Simulator Input Summary.
- 7. If available (and desired to be used by Lead Evaluator), open event file **AF-21SF.evt** as follows:
 - a. Select open file in the EVENT application.
 - b. Locate event file.
 - c. Open by double clicking file.
- 8. If event file is NOT available, then enter event codes as specified by the Simulator Event Summary below.
- 9. If running this JPM in conjunction with **EG-20S**, then:
 - a. Place a "D5 DSL GEN OOS" magnetic sign on the G Panel (U1).
 - b. Mark steps 6.1.1.K of 2C20.7, D5/D6 DIESEL GENERATORS, as complete.
- 10. Clear recorder memory after each reset.
- 11. Verify Director or Schedule File matches the input summary below.

SIMULATOR INPUT SUMMARY

@Time	Event	Action	Description
	1	Insert malfunction M47010:0105W after 5 to Cry_Wolf on event 1	11 TD AFWP Accumulator Lo Air Press

	SIMULATOR EVENT SUMMA	RY
Event ID	Event CODE	Event DESCRIPTION
1	HWZFWP6424(1)==1	11 TD AFWP PUMP STOPPED

Retention: Life of Plant Retain in: Training Record

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 cover page filled in correctly?			
2. Has the JPM been reviewed and validated by SMEs?			
3. Can the required conditions for the JPM be appropriately established in the simulator if required?			
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?			
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?			
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?			
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?			
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators			
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators			
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?			
11. Have all special tools and equipment needed to perform the task been identified?			
12. Are all references identified, current, and accurate?			
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?			

All applicable questions must be answered "YES" or the JPM is not valid for use. If all applicable questions are answered "YES" then the JPM is considered valid and can be performed as written.

Retention: Life of Plant Retain in: Training Record

ATTACHMENT 2

JPM Number:	AF-21SF		
JPM Title:	STOP 11 TDAFWP WITH A	CCUMULATOR FAILUR	E
Examinee & ID:		Evaluator:	
Job Title:		Date:	
PERFORMANCE		SAT:	
COMMENTS/FEE	DBACK: (Make written com	ments for any steps gra	nded unsatisfactory).

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.

Retention: Life of Plant Retain in: Training Record

EVALUATOR'S SIGNATURE:

ATTACHMENT 3

TURNOVER SHEET

INITIAL CONDITIONS:

- Unit 1 is at the Point Of Adding Heat.
- The Main Generator is being prepared to synchronize to the grid.
- Main Feedwater is supplying both Steam Generators using the Main Feedwater Regulating Bypass Valves.
- 11 TDAFW Pump is running and supplying both Steam Generators.
- The crew is on step 5.6.10.A of 1C1.2-BOP, Unit 1 Balance of Plant Systems Startup, to shutdown any running AFW pumps.

INITIATING CUES:

• The Shift Supervisor directs you to STOP the 11 TDAFW Pump and align for safeguards operations per step 5.3 of 1C28.1, AUXILIARY FEEDWATER SYSTEM – UNIT 1.

Retention: Life of Plant Retain in: Training Record

SITE: PRAIRIE ISLAND JPM TITLE: STARTUP THE PORTABLE BATTERY CHARGER JPM NUMBER: DC-1 REV. 6 RELATED PRA INFORMATION: LODC (<1%) TASK NUMBERS / TASK TITLE(S): NLO 063 010 01 04 000 / INSTALL/REMOVE PORTABLE BATTERY CHARGE
JPM NUMBER: DC-1 REV. 6 RELATED PRA INFORMATION: LODC (<1%) TASK NUMBERS /
RELATED PRA INFORMATION: LODC (<1%) TASK NUMBERS /
INFORMATION: LODC (<1%) TASK NUMBERS /
K/A NUMBERS: 058 AA1.03 (3.1/3.3)
APPLICABLE METHOD OF TESTING:
Discussion: Simulate/walkthrough: X Perform:
EVALUATION LOCATION: In-Plant: X Control Room:
Simulator: Other:
Lab:
Time for Completion: 11 Minutes Time Critical: NO
Alternate Path: NO
TASK APPLICABILITY: SRO: X RO: X NLO X
Additional site-specific signatures may be added as desired.
Developed by: Fredrick Collins
Developer Date
Validated by: Justin Hasner
Validator Date (See JPM Validation Checklist, Attachment 1)
Approved by: Training Supervisor Date

Retention: Life of Plant Retain in: Training Record

JPM BRIEFING/TURNOVER

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 2 is at 100% power.
- The 22 Battery Charger has failed and can NOT be returned to service.
- The Portable Battery Charger is installed and connected in the 22 Battery Room.
- Steps 1 3 of Attachment C of 2C20.9 AOP4, FAILURE OF 22 BATTERY CHARGER, are complete.

INITIATING CUES:

- The Unit 2 Shift Supervisor directs you to startup the Portable Battery Charger in 22 Battery Room per step 4.A – 4.F of Attachment C of 2C20.9 AOP4, FAILURE OF 22 BATTERY CHARGER.
- ALL OPERATOR ACTIONS ARE TO BE SIMULATED UNLESS DIRECTED OTHERWISE.

Retention: Life of Plant Retain in: Training Record

JPM PERFORMANCE INFORMATION

Required Materials: 0	Consumable copy of 2C20.9 AOP4 Attachment (C with steps 1 – 3 marked	as

complete.

General References: 2C20.9 AOP4, FAILURE OF 22 BATTERY CHARGER

Task Standards: Examinee starts up the Portable Battery Charger.

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).

IMPORTANT: 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, per FP-T-SAT-73, Licensed Operator Requalification Program Examinations.

BKR 22 BTCHGAC, 22 BATTERY CHARGER AC INPUT BREAKER ipped" or "OFF."
e determines BKR 22 BTCHGAC is OFF.
ual Portable Battery Charger in the plant is NOT located in the 22 doom, then simulate that the Portable Battery Charger is already and connected in the 22 Battery Room.
e examinee locates and observes the position of BKR 22 BTCHGAC, cate the breaker is in the tripped position.
CTORY UNSATISFACTORY

Retention: Life of Plant Retain in: Training Record

Performance Step: Critical <u>N</u>	2C20.9 AOP4, Attachment C, Step 4.A.2On the failed 22 Battery Charger:OPEN BKR 22 BTCHGDC, 22 BATTERY CHARGER DC OUTPUT BREAKER.
Standard:	Examinee opens BKR 22 BTCHGDC.
Evaluator Cue:	When the examinee simulates opening BKR 22 BTCHGDC, then inform examinee the breaker is open.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Performance Step: Critical <u>N</u>	2C20.9 AOP4, Attachment C, Step 4.B.1 Inside 22 Battery Charger DC Transfer Switch: 1. OPEN the "22 Battery Charger Isolation Breaker."
Standard:	Examinee opens the 22 Battery Charger Isolation Breaker.
Evaluator Note:	Optional opportunity for evaluator to question examinee on PPE requirements and location.
Evaluator Cue:	 Provide examinee with Attachment 4, picture of Battery Charger Isolation Breaker inside DC Transfer Switch. When the examinee simulates opening the 22 Battery Charger Isolation Breaker, then inform examinee the breaker is open.
Performance: Comments:	SATISFACTORY UNSATISFACTORY

Performance Step: Critical <u>Y</u>	2C20.9 AOP4, Attachment C, Step 4.B.2 Inside 22 Battery Charger DC Transfer Switch: 2. CLOSE the "Portable Battery Charger Isolation Breaker."
Standard:	Examinee closes the Portable Battery Charger Isolation Breaker.
Evaluator Cue:	When the examinee simulates closing the Portable Battery Charger Isolation Breaker, then inform examinee the breaker is closed.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	-
Performance Step: Critical <u>N</u>	2C20.9 AOP4, Attachment C, Step 4.C Verify MCC 2AC2 cell A6, "22 Battery Charger" is "ON."
Standard:	Examinee determines MCC 2AC2 cell A6 is ON.
Evaluator Cue:	When the examinee locates and observes the position of MCC 2AC2 cell A6, then indicate the breaker is ON.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Performance Step: Critical <u>Y</u>	2C20.9 AOP4, Attachment C, Step 4.D Place 22 Battery Charger AC Transfer Switch to the "PORTABLE CHARGER" position.
Standard:	Examinee places the 22 Battery Charger AC Transfer Switch to the PORTABLE CHARGER position.
Evaluator Cue:	When the examinee simulates placing 22 Battery Charger AC Transfer Switch to the PORTABLE CHARGER position, then inform examinee the Transfer Switch is in the PORTABLE CHARGER position.
	•
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	

Retention: Life of Plant Retain in: Training Record

Performance Step: Critical <u>Y</u>	 2C20.9 AOP4, Attachment C, Step 4.E.1 On the Portable Battery Charger: 1. CLOSE BKR 11 PBTCHGAC, 11 PORTABLE BATTERY CHARGER AC INPUT BREAKER.
Standard:	Examinee closes BKR 11 PBTCHGAC.
Evaluator Note:	If the actual Portable Battery Charger in the plant is NOT located in the 22 Battery Room, then inform examinee to simulate actions at the location where the Portable Battery Charger is currently stored.
Evaluator Cue:	When examinee simulates closing BKR 11 PBTCHGAC, then inform the examinee the breaker is closed.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Comments.	
Comments.	
Performance Step: Critical Y	2C20.9 AOP4, Attachment C, Step 4.E.2 On the Portable Battery Charger: 2. CLOSE BKR 11 PBTCHGDC, 11 PORTABLE BATTERY CHARGER DC OUTPUT BREAKER.
Performance Step:	On the Portable Battery Charger: 2. CLOSE BKR 11 PBTCHGDC, 11 PORTABLE BATTERY CHARGER DC
Performance Step: Critical <u>Y</u>	On the Portable Battery Charger: 2. CLOSE BKR 11 PBTCHGDC, 11 PORTABLE BATTERY CHARGER DC OUTPUT BREAKER.
Performance Step: Critical <u>Y</u> Standard:	On the Portable Battery Charger: 2. CLOSE BKR 11 PBTCHGDC, 11 PORTABLE BATTERY CHARGER DC OUTPUT BREAKER. Examinee closes BKR 11 PBTCHGDC. When examinee simulates closing BKR 11 PBTCHGDC, then inform the
Performance Step: Critical <u>Y</u> Standard:	On the Portable Battery Charger: 2. CLOSE BKR 11 PBTCHGDC, 11 PORTABLE BATTERY CHARGER DC OUTPUT BREAKER. Examinee closes BKR 11 PBTCHGDC. When examinee simulates closing BKR 11 PBTCHGDC, then inform the

Performance Step: Critical <u>N</u>	2C20.9 AOP4, Attachment C, Step 4.F Verify 11 P CHG/AMM, 11 PORT BATTERY CHARGER DC AMMETER is 20 – 300 amps.
Standard:	Examinee determines 11 P CHG/AMM is between 20 and 300 amps.
Evaluator Cue:	When examinee locates and observes 11 P CHG/AMM, then indicate meter is reading 100 amps.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Terminating Cues:	When examinee has started up the Portable Battery Charger, then this JPM is complete.
Stop Time:	

DC-1, STARTUP THE PORTABLE BATTERY CHARGER, REV 6 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		NO	N/A
1. Are all items on the cover page filled in correctly?	\boxtimes		
2. Has the JPM been reviewed and validated by SMEs?			
3. Can the required conditions for the JPM be appropriately established in the simulator if required?			
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?			
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?			
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?			
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?			
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators			
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators			
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?			
11. Have all special tools and equipment needed to perform the task been identified?			
12. Are all references identified, current, and accurate?	\boxtimes		
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?			

All applicable questions must be answered "YES" or the JPM is not valid for use. If all applicable questions are answered "YES" then the JPM is considered valid and can be performed as written.

Retention: Life of Plant Retain in: Training Record

DC-1, STARTUP THE PORTABLE BATTERY CHARGER, REV 6 ATTACHMENT 2

JPM Number:	DC-1				
JPM Title:	STARTUP THE PORTABLE B	ATTERY CHARG	GER		
Examinee:		Eva	luator:		
Job Title:			Date:		
Start Time		Finis	h Time		
PERFORMANCE	E RESULTS:	SAT:		UNSAT:	
COMMENTS/FF	EEDBACK: (Make written comr	nents for any st	tens ara	ided unsatisfa	ctory)
OOMMENT ON E			ecps gro		otory).

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.

Retention: Life of Plant Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

EVALUATOR'S SIGNATURE:

ATTACHMENT 3

TURNOVER SHEET

INITIAL CONDITIONS:

- Unit 2 is at 100% power.
- The 22 Battery Charger has failed and can NOT be returned to service.
- The Portable Battery Charger is installed and connected in the 22 Battery Room.
- Steps 1 3 of Attachment C of 2C20.9 AOP4, FAILURE OF 22 BATTERY CHARGER, are complete.

INITIATING CUES:

- The Unit 2 Shift Supervisor directs you to startup the Portable Battery Charger in 22 Battery Room per step 4.A – 4.F of Attachment C of 2C20.9 AOP4, FAILURE OF 22 BATTERY CHARGER.
- ALL OPERATOR ACTIONS ARE TO BE SIMULATED UNLESS DIRECTED OTHERWISE.

 ATTACHMENT 4

Retention: Life of Plant Retain in: Training Record



Retention: Life of Plant Retain in: Training Record

Acei Energy	JOB PERFORMANCE MEASURE (JPM)				
SITE:	PRAIRIE ISLAND				
JPM TITLE:	MANUAL START OF D5 CONTROL ROOM	EMERGENC	Y DIESEL GEN	IERATOR FROM	ГНЕ
JPM NUMBER:	EG-20S	REV.	1		
RELATED PRA INFORMATION:	IMPORTANT COMPONE	ENT – D5 DSL	_ GEN		
TASK NUMBERS / TASK TITLE(S):	CRO 064 ATI 00 00 002	MANUALLY	START DG FR	OM CONTROL RO	ООМ
K/A NUMBERS:	064 A3.06 (3.3/3.4)				
APPLICABLE METHOD O	F TESTING:				
EVALUATION LOCATION	Discussion: : In-Plant:	Simulate/wa	lkthrough:	Perform:	X
	Simulator: Lab:	X	Other:		
Time for Completion	n: 10 Minutes		Time Critical:	NO	
Alternate Path:	<u>NO</u>				
TASK APPLICABILITY:	SRO: X RO:	X NL	0 🗌		
Additional site-specific sign	natures may be added as	desired.			
Developed by: Fred	rick Collins				
	Develope	-		Date	
Validated by: Zach	Elbert				
	Validator See JPM Validation Check	list, Attachme	nt 1)	Date	
Approved by: Shave	vn Sarrasin				
	Training Super	VISOr		Date	ı

Retention: Life of Plant Retain in: Training Record

EG-20S, NUMBER, MANUAL START OF D5 DIESEL GENERATOR FROM THE CONTROL ROOM, REV. 1

JPM BRIEFING/TURNOVER

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:

Steps 6.1.1.A through 6.1.1.K of 2C20.7, D5/D6 DIESEL GENERATORS, have been completed.

INITIATING CUES:

 The Shift Supervisor directs you to manually perform a SLOW START of D5 Emergency Diesel Generator per steps 6.1.1.L through 6.1.1.Q of 2C20.7, D5/D6 Diesel Generators.

Retention: Life of Plant Retain in: Training Record

EG-20S, NUMBER, MANUAL START OF D5 DIESEL GENERATOR FROM THE CONTROL ROOM, REV. 1

JPM PERFORMANCE INFORMATION

Required Materials:	Consumable copy of 2C20.7.		
General References:	2C20.7, D5/D6 DIESEL GENERATORS		
Task Standards:	Examinee starts D5 in SLOW speed and raises voltage to between 4200 and 4400 V.		
Start Time:	-		
the examinee. Typ	Evaluator Cues" to the examinee, care must be exercised to avoid prompting pically cues are only provided when the examinee's actions warrant receiving e., the examinee looks or asks for the indication).		
the standard	s are marked with a "Y" below the performance step number. Failure to meet I for any critical step shall result in failure of this JPM, per FP-T-SAT-73, perator Requalification Program Examinations.		
Performance Step:	2C20.7, step 6.1.1.L:		
Critical <u>Y</u>	If desired, THEN place CS-46946, D5 DSL GEN START SPEED SEL SW, in "SLOW".		
Standard:	Examinee places CS-46946 in SLOW.		
Performance:	SATISFACTORY UNSATISFACTORY		
Comments:			
Performance Step: Critical N	2C20.7, step 6.1.1.M:		
Sittious <u>it</u>	Place CS-46947, D5 DSL GEN GOVERNOR CONTROL, in "LOWER" for approximately 10 seconds.		
Standard:	Examinee places CS-46947 in LOWER for approximately 10 seconds.		
Performance:	SATISFACTORY UNSATISFACTORY		
Comments:			

Retention: Life of Plant Retain in: Training Record

EG-20S, NUMBER, MANUAL START OF D5 DIESEL GENERATOR FROM THE CONTROL ROOM, REV. 1

Performance Step: Critical Y	2C20.7, step 6.1.1.N		
	Start D5 using control switch, CS-46945, D5 DIESEL GENERATOR		
Standard:	Examinee places D5 to start.		
Performance:	SATISFACTORY UNSATISFACTORY		
Comments:			
Performance Step: Critical N	2C20.7, step 6.1.1.O:		
Ontical <u>IV</u>	Verify Bus 25 Status Panel white indicating light 4432-0201, D5 UP TO SPEED & VOLTAGE, is LIT.		
Standard:	Examinee verifies that 4432-0201 is lit.		
Evaluator Note:	This light will illuminate after the diesel is up to speed, which takes ~90 seconds per the note on step L.		
Performance:	SATISFACTORY UNSATISFACTORY		
Comments:			
Performance Step:	2C20.7, step 6.1.1.P		
Critical <u>N</u>	On Main Control Room Panel B-2 verify Status Panel indicating light 44514-A2, D5 RUNNING, is LIT.		
Standard:	Examinee asks the Unit 2 personnel what the status of 44514-A2.		
Evaluator Cue:	When the examinee inquires as to the status of 44514-A2, inform the examinee that the light it LIT.		
Producton Notes	AAPAA AO in u aa uu adala diin tha aireedatan		
Evaluator Note:	44514-A2 is not modeled in the simulator.		
Performance:	SATISFACTORY UNSATISFACTORY		
Comments:			

Retention: Life of Plant Retain in: Training Record

EG-20S, NUMBER, MANUAL START OF D5 DIESEL GENERATOR FROM THE CONTROL ROOM, REV. 1

Critical Y	Maintain 4200-4400 volts on 41903, D5 DSL GEN METER GROUP, using CS
Standard:	46949, D5 DSL GEN EXCITER CONTROL. Examinee takes CS-46949 to "RAISE" until voltage on 4190303 is between 4200 and 4400.
Performance: Comments:	SATISFACTORY UNSATISFACTORY
Township of the second	When the convince has started DE in allow and and arised college to allow
Terminating Cues: Stop Time:	When the examinee has started D5 in slow speed and raised voltage to above 4200 V, then the JPM is complete.

EG-20S, NUMBER, MANUAL START OF D5 DIESEL GENERATOR FROM THE CONTROL ROOM, REV. 1

Simulator Setup:

- 1. If this JPM is being run in conjunction with **AF-21SF**, then set up the simulator per the simulator set up in **AF-21SF**.
- 2. If an IC is Not created for this scenario, then create one as follows:
 - a. Reset the Simulator to IC-6.
 - b. Place the simulator in RUN.
 - c. Verify the following:
 - 1) D5 Diesel Generator is NOT running.
 - 2) CS-46946, D5 DSL GEN START SPEED SEL SW, is in FAST
 - 3) D5 OUTPUT BKR (25-2) AUTO/MAN SEL SW is in MANUAL.
 - d. Place simulator in FREEZE.
 - e. If desired, save to an available IC.
 - f. Place the simulator in RUN.
 - g. Go to Step 4.
- 3. Reset the simulator to the IC created form step 2 and place in RUN.
- 4. Place a "D5 DSL GEN OOS" magnetic sign on the G Panel (U1).
- 5. Mark steps 6.1.1.K of **2C20.7**, D5/D6 DIESEL GENERATORS, as complete.
- 6. Clear recorder memory after each reset.

SIMULATOR INPUT SUMMARY

NONE

Retention: Life of Plant Retain in: Training Record

EG-20S, NUMBER, MANUAL START OF D5 DIESEL GENERATOR FROM THE CONTROL ROOM, REV. 1 ATTACHMENT 1

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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

REV	IEW STATEMENTS	YES	NO	N/A
1.	Are all items on the cover page filled in correctly?	\boxtimes		
2.	Has the JPM been reviewed and validated by SMEs?	\boxtimes		
3.	Can the required conditions for the JPM be appropriately established in the simulator if required?			
4.	Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?			
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?			
6.	If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?			
7.	If the task is time critical, is the time critical portion based upon actual task performance requirements?			
8.	Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators			
9.	Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators			
10.	Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?			
11.	Have all special tools and equipment needed to perform the task been identified?			
12.	Are all references identified, current, and accurate?	\boxtimes		
13.	Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	\boxtimes		

All applicable questions must be answered "YES" or the JPM is not valid for use. If all applicable questions are answered "YES" then the JPM is considered valid and can be performed as written.

Retention: Life of Plant Retain in: Training Record

EG-20S, NUMBER, MANUAL START OF D5 DIESEL GENERATOR FROM THE CONTROL ROOM, REV. 1

ATTACHMENT 2

JPM Number:	EG-20S
JPM Title:	MANUAL START OF D5 DIESEL GENERATOR FROM CONTROL ROOM.
Examinee & ID:	Evaluator:
Job Title:	Date:
Start Time	Finish Time
PERFORMANCE I	RESULTS: SAT: UNSAT:
COMMENTS/FEE	DBACK: (Make written comments for any steps graded unsatisfactory).

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.

Retention: Life of Plant Retain in: Training Record

EVALUATOR'S SIGNATURE: _

ATTACHMENT 3

TURNOVER SHEET

INITIAL CONDITIONS:

• Steps 6.1.1.A through 6.1.1.K of 2C20.7, D5/D6 DIESEL GENERATORS, have been completed.

INITIATING CUES:

• The Shift Supervisor directs you to manually perform a SLOW START of D5 Emergency Diesel Generator per steps 6.1.1.L through 6.1.1.Q of 2C20.7, D5/D6 Diesel Generators.

Retention: Life of Plant Retain in: Training Record

⊘ Xcel Energy [∞]	JOB PERFORMANCE MEASURE (JF	PM)
SITE:	Prairie Island	
JPM TITLE:	Respond to Fire Detection Panel FP121	
JPM NUMBER:	FP-10S REV. 0	
RELATED PRA INFORMATION:	None	
TASK NUMBERS / TASK TITLE(S):	CRO 000 082 05 01 000 Respond to Fire De accordance with C47022-0611	etection Panel FP121 fire alarm ir
K/A NUMBERS:	2.4.27 (3.4/3.9)	
APPLICABLE METHOD	OF TESTING:	
	Discussion: Simulate/walkthro	ugh: 🛛 Perform: 🗌
EVALUATION LOCATION	N: In-Plant: Contro	ol Room:
	Simulator: Other:	: 🗆
	Lab:	
Time for Completion	on: 10 Minutes Time	e Critical: NO
Alternate Path:	NO	
TASK APPLICABILITY:	SRO: 🛛 RO: 🖾 NLO	
Additional site-specific sig	natures may be added as desired.	
Developed by:	Justin Hasner	
	Developer	Date
Validated by:	Fredrick Collins	
	Validator (See JPM Validation Checklist, Attachment 1)	Date
Approved by:	Shawn Sarrasin	
Apploted by:	Training Supervisor	Date

Retention: Life of Plant Retain in: Training Record

JPM BRIEFING/TURNOVER

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:

- You are the Unit 1 Lead Reactor Operator.
- 47022-0611, Fire Detection Panel FP121-FP126 Fire Alarm, is in ALARM.
- The Turbine Building Operator has reported a fire in the OLD ADMIN BUILDING FIRST FLOOR STAIRWELL.

INITIATING CUES (IF APPLICABLE):

• The Shift Supervisor has directed you to implement IMMEDIATE MANUAL ACTIONS of F5 Appendix L, Response to a Fire, and continue with C47022-0611.

Retention: Life of Plant Retain in: Training Record

JPM PERFORMANCE INFORMATION

Required Materials: Marked up copy of C47022-0611 with steps 1-4 marked complete or NA as

applicable.

General References: C47022, Alarm Response

C31, Fire Protection and Detection Systems

F5 Appendix L, Response to a Fire

Task Standards: When the examinee has actuated the fire alarm, made an announcement, and

bypassed the alarming detector, the JPM is complete.

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).

IMPORTANT: 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, per FP-T-SAT-73, Licensed Operator Requalification Program Examinations.

Performance Step: Critical Y	F5 App L 2.3.1: Manually actuate the Fire Alarm for 10 seconds using CS-7046820.
Standard:	The examinee actuates the fire alarm using CS-7046820
Evaluator Note:	The critical portion of the step is considered satisfactory once the fire alarm is actuated.
	The examinee is required to repeat this process for step 2.3.3. If this action is completed successfully for either step, the critical portion of this step is considered met.
Doufownous	CATIONACTORY IN LINEATION CTORY
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	

Retention: Life of Plant Retain in: Training Record

Performance Step: Critical Y	F5 App L 2.3.2:
	Announce over the plant paging system:
	"Attention all plant personnel. There is a fire in the Old Admin Building, First Floor Stairwell. Fire Brigade and EMTs respond. All other personnel exit the Old Admin Building and stand clear until further notice."
Standard:	The examinee makes the announcement using the paging system in the simulator.
Evaluator Note:	The critical portion of the step is considered NOT met if the examinee states the incorrect room or the incorrect building. The step may be considered met if the examinee corrects the announcement.
	The examinee is required to repeat this process for step 2.3.4. If this action is completed successfully for either step, the critical portion of this step is considered met.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Performance Step: Critical N	F5 App L 2.3.3:
Onticul N	Manually actuate the Fire Alarm for 10 seconds using CS-7046820.
Standard:	The examinee actuates the fire alarm using CS-7046820
Evaluator Note:	The examinee is required to repeat this process from step 2.3.1. If this action is completed successfully for either step, the critical portion of step 2.3.1 is considered met.
Performance:	SATISFACTORY UNSATISFACTORY
Commonts:	

Retention: Life of Plant Retain in: Training Record

Performance Step: Critical N	F5 App L 2.3.4:			
	Repeat the announcement over the plant page.			
Standard:	The examinee makes the announcement using the paging system in the simulator.			
Evaluator Note:	This step is considered NOT met if the examinee states the incorrect room or the incorrect building. The step may be considered met if the examinee corrects the announcement.			
	The examinee is required to repeat this process for step 2.3.2. If this action is completed successfully for either step, the critical portion of step 2.3.2 is considered met.			
Evaluator Cue:	If the examinee continues on with F5 App L, inform them that the SS will be performing the remainder of the procedure and that they should continue on with the alarm response.			
Performance:	SATISFACTORY UNSATISFACTORY			
Comments:				
Performance Step: Critical N	C47022-0611 Step 6:			
	If the alarm is caused by a malfunctioning detector, or the alarm is valid, but there is no fire, then go to subsequent actions step 1.			
Standard:	Examinee determines this step is not applicable.			
Performance:	SATISFACTORY UNSATISFACTORY			
Comments:				

	-
Performance Step: Critical N	C31 6.29.1.a & b:
	Using F5 Appendix K, Fire protection System Functional Requirements,
	determine the required actions with inoperable detection instrumentation.
	Verify the fire detection impairment has been entered into the Fire Protection Suite.
Standard:	The examinee determines these steps are NA.
Evaluator Note:	This section of the procedure is REFERENCE use and may be performed from memory.
Evaluator Cue:	If the examinee asks about steps a & b, inform examinee that the SS will evaluate steps a & b.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Performance Step: Critical Y	C31 6.29.1.c:
	For the affected Zone, lift the cover and place the toggle switch in the UP position.
Standard:	The examinee places the toggle switch for zone 90 in the UP position.
Evaluator Note:	This section of the procedure is REFERENCE use and may be performed from memory.
	If an incorrect zone is placed in the bypass position, and not restored, this step is considered UNSATISFACTORY.
Performance:	SATISFACTORY UNSATISFACTORY

Retention: Life of Plant Retain in: Training Record

Performance Step: Critical N	C31 6.29.1.d:
Ontion N	Place a yellow or pink (for fire drill) "Zone in B-P" tag on the toggle switch for the affected zone.
Standard:	The examinee places the yellow tag on zone 90.
Evaluator Note:	This section of the procedure is REFERENCE use and may be performed from memory.
Performance: Comments:	SATISFACTORY UNSATISFACTORY
Performance Step: Critical Y	C47022-0611 Step 8:
	Reset Fire Detection Panel.
Standard:	The examinee will hold RESET TEST POWER toggle switch and SILENCE TROUBLE toggle switch for 3 seconds.
Evaluator Note:	This section of the procedure is REFERENCE use and may be performed from memory. The Fire Detection Panel will buzz and the Control Room A Panel annunciator will sound when alarm resets.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Terminating Cues:	When the examinee has actuated the fire alarm, made an announcement, and bypassed the alarming detector, the JPM is complete.
Stop Time:	

Retention: Life of Plant

Retain in: Training Record
Form retained in accordance with record retention schedule identified in FP-G-RM-01.

Simulator Setup:

- 1. Reset the simulator to IC-259.
- 2. Place the simulator in RUN and go to step 4.
- 3. If an IC is NOT created for this JPM, then create one as follows:
 - a. Reset simulator to IC-10 and place in RUN.
 - b. Input REMOTE per Simulator Input Summary below.
 - c. If running this JPM in conjunction with **VC-104S**, then:
 - 1) Take CS-46294, 13 CHG PUMP, to PULLOUT.
 - 2) If also running this JPM in conjunction with **VC-29SF**, then go to step 3.c, if not then continue with next step.
 - 3) Place simulator in FREEZE.
 - 4) If desired, save to an available IC.
 - 5) Place simulator in RUN.
 - 6) Go to step 4.
 - d. If also running this JPM in conjunction with **VC-29SF**, then:
 - 1) If available, run schedule files **ZC-1SF.sch & VC-29SF.sch** as follows:
 - (a) Select open file in the Schedule application.
 - (b) Locate schedule file.
 - (c) Open schedule file by double clicking it.
 - (d) Run the schedule file by pressing the "Stopped" button on the toolbar.
 - (e) Verify the schedule file is running.
 - 2) If schedule file is NOT available, then insert malfunctions, remotes, and overrides, as specified by the Simulator Input Summary.
 - 3) If available, open event files **ZC-1SF.evt & VC-29SF.evt** as follows:
 - (a) Select open file in the EVENT application.
 - (b) Locate event file.
 - (c) Open by double clicking file.
 - 4) If event file is NOT available, then enter event codes as specified by the Simulator Event Summary below.
 - 5) Place simulator in FREEZE.
 - 6) If desired, save to an available IC.
 - 7) Place simulator in RUN.
 - 8) Go to step 4.
- 4. Reset the simulator to IC-259 or the IC created from step 3 and place in RUN.
- 5. Clear recorder memory after each reset.

Verify Director or Schedule File matches the input summary below

SIMULATOR INPUT SUMMARY							
Manual Trigger Type Code Description Delay Ramp Severity Or Value							
	REM	CH121	FIRE DETECTION ALARMS			90	

Retention: Life of Plant Retain in: Training Record

ATTACHMENT 1

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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

REV	REVIEW STATEMENTS			N/A
1.	Are all items on the cover page filled in correctly?	\boxtimes		
2.	Has the JPM been reviewed and validated by SMEs?	\boxtimes		
3.	Can the required conditions for the JPM be appropriately established in the simulator if required?	\boxtimes		
4.	Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	\boxtimes		
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?			
6.	If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?			
7.	If the task is time critical, is the time critical portion based upon actual task performance requirements?			
8.	Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators			
9.	Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators			
10.	Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?			
11.	Have all special tools and equipment needed to perform the task been identified?			
12.	Are all references identified, current, and accurate?	\boxtimes		
13.	Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	\boxtimes		

All applicable questions must be answered "YES" or the JPM is not valid for use. If all applicable questions are answered "YES" then the JPM is considered valid and can be performed as written.

Retention: Life of Plant Retain in: Training Record

ATTACHMENT 2

JPM Number:	FP-10S		
JPM Title:	Respond to Fire Detection	Panel FP121	
Examinee & ID:		Evaluator:	
PERFORMANCE	RESULTS:	SAT:	
COMMENTS/FEE	DBACK: (Make written com	ments for any steps gra	aded unsatisfactory).

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.

Retention: Life of Plant Retain in: Training Record

EVALUATOR'S SIGNATURE:

ATTACHMENT 3

TURNOVER SHEET

INITIAL CONDITIONS:

- You are the Unit 1 Lead Reactor Operator.
- 47022-0611, Fire Detection Panel FP121-FP126 Fire Alarm, is in ALARM.
- The Turbine Building Operator has reported a fire in the OLD ADMIN BUILDING FIRST FLOOR STAIRWELL.

INITIATING CUES (IF APPLICABLE):

• The Shift Supervisor has directed you to implement IMMEDIATE MANUAL ACTIONS of F5 Appendix L, Response to a Fire, and continue with C47022-0611.

Retention: Life of Plant Retain in: Training Record

Xcel Energy	JOB PERFORMANCE MEASURE (JPM	1)
SITE:	PRAIRIE ISLAND	
JPM TITLE:	PERFORM RCP SEAL ISOLATION FOLLOW	ING LOSS OF ALL AC POWE
JPM NUMBER:	RC-8 REV. 14	
RELATED PRA INFORMATION:	LOAC (<1%)	
TASK NUMBERS / TASK TITLE(S):	NLO 000 056 05 04 000 / RESPOND TO LOS	S OF ALL AC POWER
K/A NUMBERS:	055 EK3.02 (4.3/4.6)	
APPLICABLE METHOD	OF TESTING:	
	Discussion: Simulate/walkthroug	yh: X Perform:
EVALUATION LOCATION	ON: In-Plant: X Control	Room:
	Simulator: Other:	
	Lab:	
Time for Complet	ion: 4 Minutes Time	Critical: NO
Alternate Path:	NO	
TASK APPLICABILITY	SRO: X RO: X NLO X]
Additional site-specific s	ignatures may be added as desired.	
Developed by:	Fredrick Collins	8/12/2014
	Developer	Date
Validated by:	Shawn Sarrasin	8/15/2014
	Validator (See JPM Validation Checklist, Attachment 1)	Date
	(222 c. m. ramadion entonion, radomion i)	
Approved by:	Travis Ouret	9/23/2014
	Training Supervisor	Date

Retention: Life of Plant Retain in: Training Record

JPM Number:	RC-8		
JPM Title:	PERFORM RCP SEAL	ISOLATION FOLLOWING	LOSS OF ALL AC
Examinee:		Evalua	tor:
Job Title:			ate:
Start Time		Finish T	ime
PERFORMANCE	E RESULTS:	SAT:	UNSAT:
COMMENTS/FE	EDBACK: (Make writte	n comments for any step	s graded unsatisfactory).
EVALUATOD'S S	CONATURE:		

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.

Retention: Life of Plant Retain in: Training Record

JPM BRIEFING/TURNOVER

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 on Unit 1.

INITIATING CUES:

- The Unit 1 SS directs you to perform Steps 8.b and 8.c of 1ECA-0.0, LOSS OF ALL SAFEGUARDS AC POWER.
- ALL OPERATOR ACTIONS ARE TO BE SIMULATED UNLESS DIRECTED OTHERWISE.

Retention: Life of Plant Retain in: Training Record

JPM PERFORMANCE INFORMATION

Required Materials:	Copy of 1ECA-0.0, page 8, step 8.
General References:	1ECA-0.0, LOSS OF ALL SAFEGUARDS AC POWER.
Task Standards:	Examinee closes the RCP seal injection throttle valves and RCP CC return isolation valves.
Start Time:	
NOTE: When providing '	'Evaluator Cues" to the examinee, care must be exercised to avoid prompting

the information (i.e., the examinee looks or asks for the indication).

IMPORTANT: Critical steps are marked with a "Y" below the performance step number. Failure to meet

the examinee. Typically cues are only provided when the examinee's actions warrant receiving

the standard for any critical step shall result in failure of this JPM, per FP-T-SAT-73,

Licensed Operator Requalification Program Examinations.

Performance Step: Critical Y	1ECA-0.0, step 8.b	
	RCP seal injection throttle valves:	
	• VC-14-1	
	• VC-14-2	
Standard:	Examinee closes RCP seal injection throttle valves VC-14-1 and VC-14-2.	
Evaluator Note:	VC-14-1 and VC-14-2 are located in the Auxiliary Building, second floor valve gallery, as you enter the SG Blowdown Flash Tank area.	
Evaluator Cue:	When examinee simulates closing the valves, then inform examinee the valves are closed.	
Performance:	SATISFACTORY UNSATISFACTORY	
Comments:		

Retention: Life of Plant Retain in: Training Record

Performance Step: Critical Y	1ECA-0.0, step 8.c
<u>1</u>	RCP CC return isolation valves: • CC-16-3 • CC-16-2
Standard:	Examinee closes RCP CC return isolation valves CC-16-3 and CC-16-2.
Evaluator Note:	Valves are located in the Auxiliary Building, first floor, in the overhead (near SI room door closure device, west of elevator). Reach rod operators are below the valves, about waist high.
Evaluator Cue:	When examinee simulates closing the valves, then inform examinee the valves are closed.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Terminating Cues:	When examinee has closed the RCP seal injection throttle valves and RCP CC return isolation valves, then this JPM is complete.
Stop Time:	

TURNOVER SHEET

INITIAL CONDITIONS:

• A Loss of All AC power has occurred on Unit 1.

INITIATING CUES:

- The Unit 1 SS directs you to perform Steps 8.b and 8.c of 1ECA-0.0, LOSS OF ALL SAFEGUARDS AC POWER.
- ALL OPERATOR ACTIONS ARE TO BE SIMULATED UNLESS DIRECTED OTHERWISE.

Retention: Life of Plant Retain in: Training Record

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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

	/IEW STATEMENTS	YES	NO	N/A
1.	Are all items on the cover page filled in correctly?			
2.	Has the JPM been reviewed and validated by SMEs?			
3.	Can the required conditions for the JPM be appropriately established in the simulator if required?			
4.	Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?			
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?			
6.	If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?			
7.	If the task is time critical, is the time critical portion based upon actual task performance requirements?			
8.	Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators			
9.	Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators			
10.	Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?			
11. Have all special tools and equipment needed to perform the task been identified?				
12. Are all references identified, current, and accurate?				
13.	Have all required cues (as anticipated) been identified for the evaluator to assist task completion?			
are a	oplicable questions must be answered "YES" or the JPM is not valid for nswered "YES" then the JPM is considered valid and can be performed rming the validation sign and date this form. Ation Personnel /Date Validation Personnel/Date			
Valid	ation Personnel /Date Validation Personnel/Date			
Valid	ation Personnel /Date Validation Personnel/Date			
Valid	ation Personnel /Date Validation Personnel/Date			

Retention: Life of Plant Retain in: Training Record

Xcel Energy	JOB PERFORMANCE MEASURE (JPM)		
SITE:	PRAIRIE ISLAND		
JPM TITLE:	12 RCP THERMAL BARRIER I	HEAT EXCHANGER LEAK	
JPM NUMBER:	RC-24SF	REV. 1	
RELATED PRA INFORMATION:	ISLOCA (4.4%)		
TASK NUMBERS / TASK TITLE(S):	CRO 008 ATI 00 00 011 / RESF	PONSE TO LEAKAGE INTO THE CC SYST	
K/A NUMBERS:	003 A4.08 (3.2/2.9)		
APPLICABLE METHOD	OF TESTING:		
EVALUATION LOCATION		ulate/walkthrough: Perform: Control Room: Other:	
Time for Completion		Time Critical: NO	
Alternate Path:	YES		
TASK APPLICABILITY:	SRO: X RO: X	NLO	
Additional site-specific sig	natures may be added as desired	d.	
Developed by: Fred	Irick Collins		
	Developer	Date	
Validated by: Just	in Hasner		
	Validator (See JPM Validation Checklist, At	Date tachment 1)	
Approved by: Sha	wn Sarrasin		
	Training Supervisor	Date	

JPM BRIEFING/TURNOVER

Retention: Life of Plant Retain in: Training Record

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 at 100% power.
- Two 40 gpm letdown orifices are in service.

INITIATING CUE:

 The SS directs you to remove CV-31325 letdown orifice from service per Section 6.11 of 1C12.1, LETDOWN, CHARGING & SEAL WATER INJECTION – UNIT 1.

Retention: Life of Plant Retain in: Training Record

JPM PERFORMANCE INFORMATION

Required Materials:	NONE
General References:	1C12.1, LETDOWN, CHARGING & SEAL WATER INJECTION-UNIT 1 1C14 AOP2, LEAKAGE INTO THE COMPONENT COOLING SYSTEM C47015-0109, 12 RCP THERMAL BARRIER CC WATER HI FLOW C7, REACTOR CONTROL SYSTEM
Task Standards:	Examinee removes one letdown orifice from service and isolates Component Cooling to 12 RCP Thermal Barrier Heat Exchanger.
Start Time:	<u> </u>
the examinee. Ty	Evaluator Cues" to the examinee, care must be exercised to avoid prompting pically cues are only provided when the examinee's actions warrant receiving e., the examinee looks or asks for the indication).
the standar	os are marked with a "Y" below the performance step number. Failure to meet d for any critical step shall result in failure of this JPM, per FP-T-SAT-73, perator Requalification Program Examinations.
Performance Step: Critical <u>N</u>	1C12.1, step 6.11.1 IF desired, THEN place 1HC-135A, LTDN PRESS CONT CV-31203, to MANUAL.
Standard:	Examinee places 1HC-135A in MANUAL or leaves 1HC-135A in AUTO.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Performance Step: Critical <u>N</u>	1C12.1, step 6.11.2 Maintain letdown pressure less than 445 psig to prevent lifting the low pressure letdown relief valve.
Standard:	Examinee maintains letdown pressure less than 445 psig.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	

Retention: Life of Plant Retain in: Training Record

Performance Step: Critical <u>Y</u>	1C12.1, step 6.11.3 CLOSE the desired letdown orifice isolation valve: • CV-31325, LTDN ORIFICE ISOL 40 GPM, using CS-46170 OR • CV-31326, LTDN ORIFICE ISOL 40 GPM, using CS-46171 OR • CV-31327, LTDN ORIFICE ISOL 80 GPM, using CS-46174
Standard:	Examinee closes CV-31325 using CS-46170.
Evaluator Note:	If examinee closes CV-31326 instead of CV-31327, then the task will still be met and it will NOT constitute a JPM failure.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Performance Step: Critical <u>N</u>	1C12.1, step 6.11.4 Transfer the inservice charging pump from AUTOMATIC to MANUAL speed control per C7, Reactor Control System.
Standard:	Examinee transfers 11 Charging Pump to manual.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Performance Step: Critical <u>N</u>	1C12.1, step 6.11.5 Lower charging pump speed while adjusting 1HC-142, CHG LINE FLOW CONT, to maintain seal injection flow at 8 gpm, until charging flow is about 30 gpm.
Standard:	Examinee reduces charging flow to approximately 30 gpm.
Evaluator Note:	When examinee has established approximately 30 gpm charging flow OR at evaluator discretion, enter Trigger 1, 12 RCP Thermal Barrier Failure.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	

Retention: Life of Plant Retain in: Training Record

Performance Step: Critical N	1C12.1, step 6.11.6 Transfer one of the inservice charging pumps from MANUAL to AUTOMATIC speed control per C7, Reactor Control System.
Standard:	Examinee transfers 11 or 12 Charging Pump to automatic.
Evaluator Note:	If examinee transitions to 1C14 AOP2 or C47015-0109, then this step is NOT applicable.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Performance Step:	C47015-0109, 12 RCP THERMAL BARRIER CC WATER HI FLOW
Critical N	, and the second
	ALTERNATE PATH STARTS HERE
Standard:	Examinee acknowledges annunciator.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Performance Step: Critical <u>Y</u>	1C14 AOP2, Step 2.4.1.A OR C47015-0109, Step 1 Verify CV-31246, 12 RC PUMP THERMAL BARRIER CLNT OUTL, using CS-46026, is CLOSED.
Standard:	Examinee closes CV-31246 using CS-46026.
Evaluator Note:	If the examinee places CS-46026 in the closed position, then AUTO Trigger 2 will be entered to allow CV-31246 to close.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Terminating Cues:	When examinee has removed one letdown orifice from service and isolated Component Cooling to 12 RCP Thermal Barrier Heat Exchanger, then this JPM is complete.
Stop Time:	

Retention: Life of Plant

Retain in: Training Record
Form retained in accordance with record retention schedule identified in FP-G-RM-01.

Simulator Setup:

- 1. If an IC is already created for this JPM, then go to step 3.
- 2. If an IC is NOT created for this scenario, then create as follows:
 - a. Reset the simulator to IC-10.
 - b. Place the simulator in RUN.
 - c. Place a second 40 GPM letdown orifice in service per 1C12.1.
 - d. Place simulator in FREEZE.
 - e. If desired, save to an available IC.
 - f. Place simulator in RUN.
 - g. Go to step 4.
- 3. Reset the simulator to IC-245 or the IC created from step 2 and place in RUN.
- 4. If available, run schedule file RC-24SF.sch as follows:
 - a. Select open file in the Schedule application.
 - b. Locate schedule file.
 - c. Open schedule file by double clicking it.
 - d. Run the schedule file by pressing the "Stopped" button on the toolbar.
 - e. Verify the schedule file is running.
- 5. If schedule file is NOT available, then insert malfunctions, remotes, and overrides, as specified by the Simulator Input Summary below.
- 6. If available, run event file **RC-24SF.evt** as follows:
 - a. Select open file in the EVENT application.
 - b. Locate event file.
 - c. Open by double clicking file.
- 7. If event file is NOT available, then enter event codes as specified by the Simulator Event Summary below.
- 8. Verify CONG1 ERCS terminal is set to Group QP CCDATA.
- 9. When examinee has closed one letdown orifice valve and established approximately 30 gpm charging flow, or at the discretion of the evaluator, enter **Trigger 1, 12 RCP Thermal Barrier Failure**.
- 10. When examinee places CS-46026 in the closed position, verify **AUTO Trigger 2** is entered.

SIMULATOR INPUT SUMMARY

@Time	Event	Action	Description
00:00:00		Insert override DI-46026O to True	CV-31246 FAILS TO CLOSE ON HIGH FLOW
	1	Insert malfunction VC21B after 5 to 10.00000 on event 1	REACTOR COOLANT PUMP #12 THERMAL BARRIER TUBE FAILURE
	2	Insert override DI-46026O to False on event 2	CV-31246 FAILURE REMOVED

	SIMULATOR EVENT	SUMMARY
Event ID	Code	Description
2	HWZCCC026(1) == 1	CV-31246 MANUALLY CLOSED

Retention: Life of Plant Retain in: Training Record

ATTACHMENT 1

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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

REVI	EW STATEMENTS	YES	NO	N/A
1.	Are all items on the cover page filled in correctly?	\boxtimes		
2.	Has the JPM been reviewed and validated by SMEs?	\boxtimes		
	Can the required conditions for the JPM be appropriately established in the simulator if required?			
	Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	\boxtimes		
	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?			
	If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?			
	If the task is time critical, is the time critical portion based upon actual task performance requirements?			\boxtimes
	Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators			
	Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators			
	Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?			
	Have all special tools and equipment needed to perform the task been identified?			
12.	Are all references identified, current, and accurate?	\boxtimes		
	Have all required cues (as anticipated) been identified for the evaluator to assist task completion?			

All applicable questions must be answered "YES" or the JPM is not valid for use. If all applicable questions are answered "YES" then the JPM is considered valid and can be performed as written.

Retention: Life of Plant Retain in: Training Record

ATTACHMENT 2

JPM Number:	RC-24SF		
JPM Title:	12 RCP THERMAL BARRIER H	HEAT EXCHANGER L	EAK
Examinee & ID:		Evaluator:	
Job Title:		Date:	
Start Time		Finish Time	
PERFORMANCE I	RESULTS:	SAT:	UNSAT:
COMMENTS/EEE	EDBACK: (Make written comme	nte for any etone ara	dod uncatisfactory)
COMMENTS/FEE		ilis ioi ally steps gra	ided disadistactory).
EVALUATOR'S SIG	GNATURF:		

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.

Retention: Life of Plant Retain in: Training Record

ATTACHMENT 3

TURNOVER SHEET

INITIAL CONDITIONS:

- Unit 1 is at 100% power.
- Two 40 gpm letdown orifices are in service.

INITIATING CUE:

 The SS directs you to remove CV-31325 letdown orifice from service per Section 6.11 of 1C12.1, LETDOWN, CHARGING & SEAL WATER INJECTION – UNIT 1.

Retention: Life of Plant Retain in: Training Record

Acerenery	IV JOB PERFOR	RMANCE MEA	ASURE (JPM)		
SITE:	PRAIRIE ISLAND				
JPM TITLE:	SECURE R11/12 I	N CONTROL RO	ОМ		
JPM NUMBER:	RM-5S	REV.	. 1		
RELATED PRA INFORMATION:	NONE				
TASK NUMBERS / TASK TITLE(S):	CRO 073 ATI 00 0 SERVICE	0 008 / REMOVE	REDUNDANT RAI	D MONITORS FF	ROM
K/A NUMBERS:	073 A4.02 (3.7/3.7))			
APPLICABLE METHO	DD OF TESTING:				
	Discussion:	Simulate/	walkthrough:	Perform:	X
EVALUATION LOCAT	ΓΙΟΝ: In-Plant:		Control Room:		
	Simulator:	X	Other:		
	Lab:				
Time for Comp	letion: 8 Mi	nutes	Time Critical:	NO	
Alternate Path:	NO				
TASK APPLICABILI	TY: SRO: X	RO: X	NLO		
Additional site-specific	signatures may be add	ed as desired.			
Developed by: F	Fredrick Collins				
		/eloper		Date	
Validated by:	lustin Hasner				
	Va (See JPM Validation	lidator Checklist, Attachr	ment 1)	Date	
	•	-,	,		
Approved by:	Shawn Sarrasin Training	Supervisor		Date	
Approved by:		Supervisor		Date	

Retention: Life of Plant Retain in: Training Record

RM-5S, SECURE R11/12 IN CONTROL ROOM, REV 1

JPM BRIEFING/TURNOVER

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 and Unit 2 are at 100% power.
- R-11 and R-12 need to be removed from service for preventative maintenance.
- Steps 6.4.1 through 6.4.8.B of C11, Radiation Monitoring System, are complete.
- The outplant operator has been briefed and is standing by.

INITIATING CUES:

 The Shift Supervisor directs you to remove 1R11/12 from service per section 6.4.8.C & 6.4.8.D of C11, Radiation Monitoring System.

Retention: Life of Plant Retain in: Training Record

RM-5S, SECURE R11/12 IN CONTROL ROOM, REV 1

JPM PERFORMANCE INFORMATION

Required Materials:	Steps 6.4.1 through 6.4.8.B of C11 marked complete. Key 167 for the Control Room RAM 606.
General References:	C11, RADIATION MONITORING SYSTEM
Task Standards:	Examinee changes R11/R12 pump status to OFF.
Start Time:	
the examinee. Ty	"Evaluator Cues" to the examinee, care must be exercised to avoid prompting pically cues are only provided when the examinee's actions warrant receiving i.e., the examinee looks or asks for the indication).
the standa	ps are marked with a "Y" below the performance step number. Failure to meet rd for any critical step shall result in failure of this JPM, per FP-T-SAT-73, Operator Requalification Program Examinations.
Performance Step:	C11 step 6.4.8.C.1:
Critical <u>N</u>	Place the Control Room RAM606 key switch in the "KEYPAD" position.
Standard:	Examinee places the RAM606 key switch in the "KEYPAD" position.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Performance Step: Critical N	C11 step 6.4.8.C.2:
Officer 14	Depress the up arrow to select Channel 1R-11 [2R-11] on the RAM606 display.
Standard:	Examinee selects 1R-11 on the RAM606 display.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	

Retention: Life of Plant Retain in: Training Record

RM-5S, SECURE R11/12 IN CONTROL ROOM, REV 1

Performance Step:	C11 step 6.4.8.C.3:
Critical <u>N</u>	Check the Pump Status "ON" indicated on the lower line of the single channel rate display.
Standard:	Examinee identifies that the pump status is "on."
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Performance Step: Critical <u>N</u>	C11 step 6.4.8.C.4:
<u> </u>	Depress the up arrow twice to return to the dual rate display.
Standard:	Examinee returns to the dual rate display.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Performance Step:	C11 step 6.4.8.C.5:
Performance Step: Critical <u>Y</u>	C11 step 6.4.8.C.5: Depress MODE once. The Pump Status Display will be shown.
	·
Critical <u>Y</u>	Depress MODE once. The Pump Status Display will be shown.
Critical <u>Y</u> Standard:	Depress MODE once. The Pump Status Display will be shown. Examinee navigates to Pump Status Display.
Critical <u>Y</u> Standard: Performance: Comments:	Depress MODE once. The Pump Status Display will be shown. Examinee navigates to Pump Status Display. SATISFACTORY UNSATISFACTORY
Critical Y Standard: Performance: Comments: Performance Step:	Depress MODE once. The Pump Status Display will be shown. Examinee navigates to Pump Status Display.
Critical <u>Y</u> Standard: Performance: Comments:	Depress MODE once. The Pump Status Display will be shown. Examinee navigates to Pump Status Display. SATISFACTORY UNSATISFACTORY
Critical Y Standard: Performance: Comments: Performance Step:	Depress MODE once. The Pump Status Display will be shown. Examinee navigates to Pump Status Display. SATISFACTORY UNSATISFACTORY C11 step 6.4.8.C.6:
Critical Y Standard: Performance: Comments: Performance Step: Critical Y	Depress MODE once. The Pump Status Display will be shown. Examinee navigates to Pump Status Display. SATISFACTORY UNSATISFACTORY C11 step 6.4.8.C.6: Depress SET to enter the pump status change subroutine.

Retention: Life of Plant Retain in: Training Record

Performance Step: Critical <u>Y</u>	C11 step 6.4.8.C.7:			
Criucai <u>i</u>	Depress the Up arrow to select pump status to OFF.			
Standard:	Examinee selects pump status to OFF.			
Performance:	SATISFACTORY UNSATISFACTORY			
Comments:				
Performance Step: Critical <u>Y</u>	C11 step 6.4.8.C.8:			
<u> </u>	Depress SET to accept the pump status change.			
Standard:	Examinee accepts pump status change.			
Performance:	SATISFACTORY UNSATISFACTORY			
Comments:				
Desfermence Otoni	044 (1 = 0.40.00)			
Performance Step: Critical <u>N</u>	C11 step 6.4.8.C.9:			
_	Depress MODE once to return to the dual rate display.			
Standard:	Examinee returns to the dual rate display.			
Performance:	SATISFACTORY UNSATISFACTORY			
Comments:				
Performance Step: Critical N	C11 step 6.4.8.C.10:			
Offical 14	Depress the up arrow to select Channel 1R-11 [2R-11] on the RAM606 display.			
Standard:	Examinee selects 1R-11 on the RAM606 display.			
Performance:	SATISFACTORY UNSATISFACTORY			
Comments:				

Retention: Life of Plant Retain in: Training Record

Performance Step: Critical N	C11 step 6.4.8.C.11:
_	Verify the Pump Status OFF in the lower line display.
Standard:	Examinee identifies that the pump status is "off."
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Performance Step: Critical N	C11 step 6.4.8.D:
<u> </u>	Place the Control Room RAM606 key switch in the "OFF" position.
Standard:	Examinee places the RAM606 key in "OFF."
Performance:	SATISFACTORY UNSATISFACTORY
Periormance.	SATISFACTORY UNSATISFACTORY
Comments:	
Terminating Cues:	When the examinee has changed R11/R12 pump status to OFF, then this JPM is complete.
Stop Time:	

Retention: Life of Plant Retain in: Training Record

Simulator Setup:

- 1. Reset the simulator to IC-10.
- 2. Place the simulator in RUN.
- 3. If R11/12 is NOT in service, then perform steps 6.6.5.G, 6.6.5.H, 6.6.5.R, and 6.6.5.S of C11.
- 4. Verify EVENT BUFFER is clear by cycling power to R11/12. The best practice is to run through the JPM prior to administering to the first examinee.
- 5. Markup C11, radiation Monitoring System, steps 6.4.1 through 6.4.8.B complete.

Retention: Life of Plant Retain in: Training Record

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			NO	N/A
1.	Are all items on the cover page filled in correctly?			
2.	Has the JPM been reviewed and validated by SMEs?			
3.	Can the required conditions for the JPM be appropriately			
	established in the simulator if required?			
4.	Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?			
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?			
6.	If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?			
7.	If the task is time critical, is the time critical portion based upon actual task performance requirements?			
8.	Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators			
9.	Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators			
10.	Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?			
11.	Have all special tools and equipment needed to perform the task been identified?			
12.	Are all references identified, current, and accurate?			
13.	Have all required cues (as anticipated) been identified for the evaluator to assist task completion?			

All applicable questions must be answered "YES" or the JPM is not valid for use. If all applicable questions are answered "YES" then the JPM is considered valid and can be performed as written.

Retention: Life of Plant Retain in: Training Record

ATTACHMENT 2

JPM Number:	RM-5S		
JPM Title:	SECURE R11/12 IN CONTROL	. ROOM	
Examinee & ID:		Evaluator:	
Job Title:		Date:	
PERFORMANCE		SAT:	UNSAT:
COMMENTS/FEE	DBACK: (Make written comme	ents for any steps gra	ded unsatisfactory).

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.

Retention: Life of Plant Retain in: Training Record

EVALUATOR'S SIGNATURE:

ATTACHMENT 3

TURNOVER SHEET

INITIAL CONDITIONS:

- Unit 1 and Unit 2 are at 100% power.
- R-11 and R-12 need to be removed from service for preventative maintenance.
- Steps 6.4.1 through 6.4.8.B of C11, Radiation Monitoring System, are complete.

INITIATING CUES:

• The Shift Supervisor directs you to remove 1R11/12 from service per section 6.4.8.C & 6.4.8.D of C11, Radiation Monitoring System.

Retention: Life of Plant Retain in: Training Record

Acei Energy	JOB PERFORMANCE MEASURE (JPM)			
SITE:	PRAIRIE ISLAND			
JPM TITLE:	MALFUNCTION OF AUTOMATIC MAKEUP DURI	NG BORATION		
JPM NUMBER:	VC-29SF REV. 1			
RELATED PRA INFORMATION:	NONE			
TASK NUMBERS / TASK TITLE(S):	CR 000 023 05 01 000, INADVERTANT REACTIVITY	TY CHANGES		
K/A NUMBERS:	004 A4.12 (3.8/3.3)			
APPLICABLE METHOD O	F TESTING:			
	Discussion: Simulate/walkthrough:	Perform: X		
EVALUATION LOCATION	: In-Plant: Control Roor	n:		
	Simulator: X Other:			
	Lab:			
Time for Completion	n: 10 Minutes Time Critic	al: NO		
Alternate Path:	YES			
TASK APPLICABILITY:	SRO: X RO: X NLO			
Additional site-specific sign	natures may be added as desired.			
Developed by:	Fredrick Collins			
	Developer	Date		
Validated by:	Justin Hasner			
(3	Validator See JPM Validation Checklist, Attachment 1)	Date		
, 	,			
Approved by:	Training Supervisor	Date		

Retention: Life of Plant Retain in: Training Record

JPM BRIEFING/TURNOVER

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 at 100% Power.

INITIATING CUES:

• The Unit 1 Shift Supervisor directs you to perform a 10 gallon BORATION to the RCS using 1C12.5, Unit 1 Boron Concentration Control, section 5.9.

Retention: Life of Plant Retain in: Training Record

NONE

Required Materials:

VC-29SF, MALFUNCTION OF AUTOMATIC MAKEUP DURING BORATION, REV.1

JPM PERFORMANCE INFORMATION

General References:	1C12.5, Unit 1 Boron Concentration Control C12.5 AOP 2, Malfunction of Automatic Make-up		
Task Standards:	Examinee takes makeup mode selector switch to borate and secures the boration.		
Start Time:			
the examinee. T	"Evaluator Cues" to the examinee, care must be exercised to avoid prompting ypically cues are only provided when the examinee's actions warrant receiving (i.e., the examinee looks or asks for the indication).		
the standa	eps are marked with a "Y" below the performance step number. Failure to meet ard for any critical step shall result in failure of this JPM, per FP-T-SAT-73, Operator Requalification Program Examinations.		
Performance Step:	1C12.5 Section 5.9		
Critical N	1C 12.5 Section 5.5		
_	1. <u>IF</u> not yet reviewed this shift, <u>THEN</u> perform a review of the precautions in section 5.7.		
Standard:	Examinee reviews precautions in section 5.7.		
Performance:	SATISFACTORY UNSATISFACTORY		
Comments:			
Performance Step: Critical <u>N</u>	1C12.5 Section 5.9		
<u> </u>	2. Verify the Boric Acid Integrator is reset.		
Standard:	Examinee determines the Boric Acid Integrator is reset.		
Performance:	SATISFACTORY UNSATISFACTORY		
Comments:			

Retention: Life of Plant Retain in: Training Record

Performance Step: Critical <u>N</u>

VC-29SF, MALFUNCTION OF AUTOMATIC MAKEUP DURING BORATION, REV.1

1C12.5 Section 5.9

	3. Set 1YIC-110, BA TO BLENDER BATCH INTEGRATOR, to the quantity desired.
Standard:	Examinee sets 1YIC-110 to 10.0
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Performance Step: Critical Y	1C12.5 Section 5.9
_	4. Place CS-46300, MAKE-UP MODE SELECTOR, to "BORATE"
Standard:	Examinee places CS-46300 to borate.
Evaluator Note:	When the make-up mode selector switch is taken to borate, a boration will begin immediately.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	

ALTERNATE PATH STARTS HERE

Retention: Life of Plant Retain in: Training Record

Performance Step: Critical Y	C12.5 AOP 2, Section 2.4.1
<u> </u>	IF T _{avg} , control rods, or source range are changing in an unexpected direction or rate, <u>THEN</u> stop makeup flow using one or more of the following methods: A. Place CS-46300, MAKE-UP MODE SELECTOR TO OFF. B. 1HC110, BA TO BLENDER FLOW CONT CV-31199, to MANUAL and CLOSE C. STOP the reactor makeup pumps and boric acid transfer pumps ○ CS-46161, 11 BORIC ACID TRANSFER PUMP D. CLOSE CV-31200, BA BLENDER TO VC TNK OUTLT E. CLOSE CV-31199, BA INLT TO BLENDER
Standard:	Examinee secures the boration.
Evaluator Note	There are multiple ways to stop the boration. Only the effective methods are listed above are from C12.5 AOP2, in addition to appropriate valve isolations.
Evaluator Cue:	If examinee informs the evaluator about the automatic boration malfunction, as examinee as the Shift Supervisor what action they recommend taking to remedy the situation.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
	en the examinee takes makeup mode selector switch to borate and secures boration, then this JPM is complete

Retention: Life of Plant Retain in: Training Record

Stop Time:

Simulator Setup:

- 1. Reset the simulator to IC-259.
- 2. Place the simulator in RUN and go to step 4.
- 3. If an IC is NOT created for this scenario, then create as follows:
 - a. Reset to IC-10.
 - b. Place the simulator in RUN.
- 4. If available, run schedule file VC-29SF.sch as follows:
 - a. Select open file in the Schedule application.
 - b. Locate schedule file.
 - c. Open schedule file by double clicking it.
 - d. Run the schedule file by pressing the "Stopped" button on the toolbar.
 - e. Verify the schedule file is running.
- 5. If schedule file is NOT available, then insert malfunctions, remotes, and overrides, as specified by the Simulator Input Summary.
- 6. If available, open event file **VC-29SF.evt** as follows:
 - a. Select open file in the EVENT application.
 - b. Locate event file.
 - c. Open by double clicking file.
- 7. If event file is NOT available, then enter event codes as specified by the Simulator Event Summary below.
- 8. If running this JPM in conjunction with **VC-104S** & **ZC-1SF**, then refer to ZC-1SF for set up instructions. If not, then continue with next step.
- 9. Place simulator in FREEZE.
- 10. If desired, save to an available IC.
- 11. Place simulator in RUN.
- 12. Clear recorder memory after each reset.
- 13. Verify Boric Acid and RMU Counters are RESET after each reset.
- 14. Verify Director or Schedule File matches the input summary below.

SIMULATOR INPUT SUMMARY

Insert	Pause	@Time	Event	Action	Description
			1	Insert override DI-46457NAST to False on event 1	NRML AF STRT
			1	Insert override DI-46457SP to False on event 1	STOP
			1	Insert override DI-46457ST to True on event 1	START
			1	Insert override DI-41111RS to False on event 1	RESET

SIMULATOR EVENT SUMMARY				
Event ID	Event CODE	Event DESCRIPTION		
1	ZVCR457(1)==1	BORIC ACID MU CONTROL TO START		

Retention: Life of Plant Retain in: Training Record

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			NO	N/A
1. Are all items on the cover page filled in correctly?		\boxtimes		
2. Has the JPM been reviewed and validated by SMEs?		\boxtimes		
3. Can the required conditions for the JPM be appropriate established in the simulator if required?	ely			
4. Do the performance steps accurately reflect trainee's a accordance with plant procedures?	actions in			
5. Is the standard for each performance item specific as t controls, indications and ranges are required to evalua trainee properly performed the step?				
6. If the task is NOT time critical, has the completion time established based on validation data or incumbent exp				
7. If the task is time critical, is the time critical portion bas actual task performance requirements?	ed upon			
8. Is the Licensee level appropriate for the task being ever required? Not applicable to Non-Licensed Operators	aluated if			
9. Is the K/A appropriate to the task and to the licensee le required? Not applicable to Non-Licensed Operators	evel if			
10. Have the performance steps been identified and typed Sequence / Time Critical) appropriately?	(Critical /			
11. Have all special tools and equipment needed to perfor been identified?	m the task			
12. Are all references identified, current, and accurate?		\boxtimes		
13. Have all required cues (as anticipated) been identified evaluator to assist task completion?	for the			

All applicable questions must be answered "YES" or the JPM is not valid for use. If all applicable questions are answered "YES" then the JPM is considered valid and can be performed as written.

Retention: Life of Plant Retain in: Training Record

ATTACHMENT 2

JPM Number:	VC-29SF		
JPM Title:	Malfunction of Automatic Mal	keup During Boration	
Examinee & ID:		Evaluator:	
Job Title:		Date:	
PERFORMANCE	RESULTS:	SAT:	UNSAT:
COMMENTS/FEE	DBACK: (Make written commo	ents for any steps gra	ded unsatisfactory).

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.

Retention: Life of Plant Retain in: Training Record

EVALUATOR'S SIGNATURE:

ATTACHMENT 3

TURNOVER SHEET

INITIAL CONDITIONS:

• Unit 1 is at 100% Power.

INITIATING CUES:

• The Unit 1 Shift Supervisor directs you to perform a 10 gallon BORATION to the RCS using 1C12.5, Unit 1 Boron Concentration Control, section 5.9.

Retention: Life of Plant Retain in: Training Record

Xcel Energy	JOB PERFORMANCE I	MEASURE (JPM)
SITE:	PRAIRIE ISLAND	
JPM TITLE:	RETURN 13 CHARGING PUMI	P TO STANDBY
JPM NUMBER:	VC-104S	REV. 1
RELATED PRA INFORMATION:	NONE	
TASK NUMBERS / TASK TITLE(S):	CRO 004 ATI 00 00 003 / SWA SERVICE	PPING CHARGING PUMPS WITH 2 PUMPS I
K/A NUMBERS:	011 A4.01 (3.5 / 3.2)	
APPLICABLE METHOI	O OF TESTING:	
	Discussion: Simu	ılate/walkthrough: Perform: X
EVALUATION LOCATI	ON: In-Plant:	Control Room:
	Simulator: X	Other:
	Lab:	
Time for Comple	etion: 8 Minutes	Time Critical: NO
Alternate Path:	NO	
TASK APPLICABILIT	Y: SRO: X RO: X	NLO
Additional site-specific	signatures may be added as desired	d.
Developed by: Ju	ıstin Hasner	
Developed by. 30	Developer	Date
_		
Validated by: Za	ach Elbert Validator	Date
	(See JPM Validation Checklist, At	
Approved by: SI	nawn Sarrasin	
	Training Supervisor	Date

Retention: Life of Plant Retain in: Training Record

JPM BRIEFING/TURNOVER

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:

- 11 and 12 Charging Pumps are RUNNING.
- The crew is preparing to swap charging pumps.
- 13 Charging Pump is in PULLOUT.
- Outplant Operators have completed the desurger pressure check for 13 Charging Pump.

INITIATING CUES:

• The Shift Supervisor directs you to return 13 Charging Pump to STANDBY per 1C12.1, Letdown, Charging, and Seal Water Injection – Unit 1, starting with step 6.14.4.V.

Retention: Life of Plant Retain in: Training Record

JPM PERFORMANCE INFORMATION

Required Materials:	NONE
General References:	1C12.1, Letdown, Charging, and Seal Water Injection – Unit 1
Task Standards:	The examinee places the 13 Charging Pump in standby status (Neutral position with green light lit and white light not lit).
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).

IMPORTANT: 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, per FP-T-SAT-73, Licensed Operator Requalification Program Examinations.

Performance Step: Critical Y	1C12.1 Letdown, Charging, and Seal Water Injection – Unit 1, Step 6.14.4.V:	
_	Return CS-46294, 13 CHG PUMP, to "NEUTRAL".	
Standard:	The examinee returns CS-46294 to the neutral position.	
Performance:	SATISFACTORY UNSATISFACTORY	
Comments:		

Retention: Life of Plant Retain in: Training Record

Performance Step: Critical <u>Y</u>	1C12.1 Letdown, Charging, and Seal Water Injection – Unit 1, Step 6.14.4.W.1:	
	Perform the following to energize the VFD and place charging pump in a	
	standby status: Energize VFD by momentarily placing CS-46294, 13 CHG PUMP, to	
	"START".	
Standard:	The examinee places CS-46294 in "START" and releases it.	
Performance:	SATISFACTORY UNSATISFACTORY	
Comments:		
Performance Step: Critical <u>N</u>	1C12.1 Letdown, Charging, and Seal Water Injection – Unit 1, Step 6.14.4.W.2:	
	Perform the following to energize the VFD and place charging pump in a standby status:	
	Verify control switch green and white lights are LIT.	
Standard:	The examinee verifies green and white lights on the 13 charging pump are LIT.	
Performance:	SATISFACTORY UNSATISFACTORY	
Comments:		
Performance Step: Critical <u>Y</u>	1C12.1 Letdown, Charging, and Seal Water Injection – Unit 1, Step 6.14.4.W.3:	
	Perform the following to energize the VFD and place charging pump in a standby status:	
	Momentarily place CS-46294, 13 CHG PUMP, to "STOP".	
Standard:	The examinee places CS-46294 in "STOP" and releases it.	
Performance:	SATISFACTORY UNSATISFACTORY	
Comments:		

Retention: Life of Plant Retain in: Training Record

Terminating Cues:	When examinee has placed the 13 Charging Pump in standby status (Neutral position with green light lit and white light not lit), then this JPM is complete.
Stop Time:	

Retention: Life of Plant

Retain in: Training Record
Form retained in accordance with record retention schedule identified in FP-G-RM-01.

Simulator Setup:

- 1. If this JPM is being run in conjunction with **ZC-1SF & VC-29SF**, then set up the simulator per the simulator set up in **ZC-1SF**, then continue with step 5.
- 2. If an IC is already created for this JPM, then go to step 4.
- 3. If an IC is NOT created for this JPM, then create as follows:
 - a. Reset to IC-10.
 - b. Place the simulator in RUN.
 - c. Take CS-46294, 13 CHG PUMP to PULLOUT.
 - d. Place simulator in FREEZE.
 - e. If desired, save to an available IC.
 - f. Place simulator in RUN.
 - g. Go to step 5.
- 4. Reset the simulator to the IC created from step 3 and place in RUN.
- 5. Mark steps R-U complete on page 55 of 1C12.1.
- 6. Clear recorder memory after each reset.

SIMULATOR INPUT SUMMARY

NONE

Retention: Life of Plant Retain in: Training Record

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 cover page filled in correctly?	\boxtimes		
2.	Has the JPM been reviewed and validated by SMEs?	\boxtimes		
3.	Can the required conditions for the JPM be appropriately established in the simulator if required?	\boxtimes		
4.	Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?			
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?			
6.	If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	\boxtimes		
7.	If the task is time critical, is the time critical portion based upon actual task performance requirements?			
8.	Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators			
9.	Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators			
10.	Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?			
11.	Have all special tools and equipment needed to perform the task been identified?	\boxtimes		
12.	Are all references identified, current, and accurate?	\boxtimes		
13.	Have all required cues (as anticipated) been identified for the evaluator to assist task completion?			

All applicable questions must be answered "YES" or the JPM is not valid for use. If all applicable questions are answered "YES" then the JPM is considered valid and can be performed as written.

Retention: Life of Plant Retain in: Training Record

ATTACHMENT 2

JPM Number:	VC-104S
JPM Title:	RETURN 13 CHARGING PUMP TO STANDBY
Examinee & ID:	Evaluator:
	Date:
	Finish Time
PERFORMANCE	
COMMENTS/FEE	DBACK: (Make written comments for any steps graded unsatisfactory).

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.

Retention: Life of Plant Retain in: Training Record

EVALUATOR'S SIGNATURE:

ATTACHMENT 3

TURNOVER SHEET

INITIAL CONDITIONS:

- 11 and 12 Charging Pumps are RUNNING.
- The crew is preparing to swap charging pumps.
- 13 Charging Pump is in PULLOUT.
- Outplant Operators have completed the desurger pressure check for 13 Charging Pump.

INITIATING CUES:

• The Shift Supervisor directs you to return 13 Charging Pump to STANDBY per 1C12.1, Letdown, Charging, and Seal Water Injection – Unit 1, starting with step 6.14.4.V.

Retention: Life of Plant Retain in: Training Record

Xcel Energy	JOB PERFORMANCE MEAS	URE (JPM)
SITE:	PRAIRIE ISLAND	
JPM TITLE:	CFCU HIGH TEMP WHILE ALTERNA	TING FAN COIL UNITS
JPM NUMBER:	ZC-1SF REV.	1
RELATED PRA INFORMATION:	NONE	
TASK NUMBERS / TASK TITLE(S):	CRO 022 ATI 00 00 007 / CHANGE FA	N COIL UNIT FAN SPEED
K/A NUMBERS:	022 A4.01 (3.6/3.6)	
APPLICABLE METHOD	OF TESTING:	
	Discussion: Simulate/wa	lkthrough: Perform:
EVALUATION LOCATION	ON: In-Plant:	Control Room:
	Simulator: X	Other:
	Lab:	
Time for Comple	tion: Minutes	Time Critical: NO
Alternate Path:	YES	
TASK APPLICABILITY	SRO: X RO: X NLO	0 🔲
Additional site-specific s	signatures may be added as desired.	
Developed by:	Fredrick Collins	
	Developer	Date
Validated by:	Justin Hasner	
	Validator (See JPM Validation Checklist, Attachmer	Date
	(200 of the validation of looking, / maoriffor	,
Approved by:	Shawn Sarrasin Training Supervisor	Date
	rianing Capervico	Date

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JPM BRIEFING/TURNOVER

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 at 100% power.
- 11 FCU is in FAST to the SUPPORT COOLING.
- 12 FCU is in SLOW to the DOME.
- 13 FCU is in FAST to the GAP.
- 14 FCU is in SLOW to the DOME.

INITIATING CUES:

- The SS directs you to alternate FCUs per Section 6.6.4.A of 1C19.2, Containment System Ventilation Unit 1, as follows:
 - 11 FCU in SLOW to the DOME.
 - 12 FCU in FAST to the SUP CLG.
 - 13 FCU in SLOW to the DOME.
 - 14 FCU in FAST to the GAP.

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JPM PERFORMANCE INFORMATION

Required Materials:	NONE
General References:	1C19.2, CONTAINMENT SYSTEM VENTILATION UNIT 1 C47019-0405, 12 CONTAINMENT FAN COIL UNIT MOTOR STATOR HI TEMP
Task Standards:	Examinee alternates FCUs, stops 12 FCU due to high temperature, and realigns 11 FCU to SUPPORT in fast speed.
Start Time:	
	Evaluator Cues" to the examinee, care must be exercised to avoid prompting pically cues are only provided when the examinee's actions warrant receiving

IMPORTANT: 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, per FP-T-SAT-73, Licensed Operator Requalification Program Examinations.

the information (i.e., the examinee looks or asks for the indication).

Performance Step: Critical Y	1C19.2, step 6.6.4.A.1: Containment Fan Coil Fans and Discharge Dampers	
_		
	 Shift the desired fan coil units to SLOW by placing the control switch in "OFF" for 15 seconds, then placing the control switch in "SLOW:" CS-46018, 11 CNTMT FAN COIL UNIT CS-46020, 12 CNTMT FAN COIL UNIT CS-46019, 13 CNTMT FAN COIL UNIT CS-46021, 14 CNTMT FAN COIL UNIT 	
Standard:	Examinee shifts 11 and 13 FCUs to slow speed using CS-46018 and CS-46019.	
Performance:	SATISFACTORY UNSATISFACTORY	
Comments:		

Retention: Life of Plant Retain in: Training Record

Performance Step: Critical Y	1C19.2, step 6.6.4.A.2:
	Align fan coil unit discharge dampers as desired, observing Precaution 4.7:
	 CS-46440, 11 FCU DISCH TO CNTMT DOME/SUPPORT DMPRS CS-46441, 12 FCU DISCH TO CNTMT DOME/SUPPORT DMPRS CS-46442, 13 FCU DISCH TO CNTMT DOME/GAP DAMPERS
	CS-46443, 14 FCU DISCH TO CNTMT DOME/GAP DAMPERS
Standard:	Examinee aligns FCU Discharge dampers as follows: 11 CFCU to DOME using CS-46440
	12 CFCU to SUPPORT using CS-46441
	• 13 CFCU to DOME using CS-46442
	14 CFCU to GAP using CS-46443
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Performance Step: Critical <u>N</u>	1C19.2, step 6.6.4.A.3:
	Verify associated white fan coil unit damper improper lights remain NOT LIT:
	ML-44002-0101, 11 CNTMT FCU DISCH DMPRS IMPROPER
	 ML-44002-0102, 12 CNTMT FCU DISCH DMPRS IMPROPER
	ML-44002-0201, 13 CNTMT FCU DISCH DMPRS IMPROPER
	ML-44002-0202, 14 CNTMT FCU DISCH DMPRS IMPROPER
Standard:	Examinee determines the IMPROPER lights are NOT lit.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	

Retention: Life of Plant Retain in: Training Record

Performance Step: Critical Y	1C19.2, step 6.6.4.A.4:		
_	Shift the desired fan coil units to FAST by placing the control switch in		
	"OFF" for at least one (1) second, then placing the control switch in "FAST:"		
	CS-46018, 11 CNTMT FAN COIL UNIT		
	CS-46020, 12 CNTMT FAN COIL UNIT		
	• CS-46019, 13 CNTMT FAN COIL UNIT		
	CS-46021, 14 CNTMT FAN COIL UNIT		
Standard:	 Examinee shifts 12 and 14 FCUs to fast speed using CS-46020 and CS-46021. 		
Evaluator Note:	When examinee places CS-46020 & CS-46021, 12 & 14 CFCUs, in FAST, then verify AUTO Trigger 1, 12 CFCU High temp, is entered.		
Performance:	SATISFACTORY UNSATISFACTORY		
Comments:			
Performance Step: Critical N	C47019-0405, 12 CONTAINMENT FAN COIL UNIT MOTOR STATOR HI TEMP		
<u></u>	ALTERNATE PATH STARTS HERE		
Standard:	Examinee acknowledges annunciator.		
Evaluator Note:	12 CFCU high stator temperature annunciator alarms 5 seconds after BOTH 12 & 14 CFCUs are in fast speed.		
Doufourness	CATICEACTORY		
Performance:	SATISFACTORY UNSATISFACTORY		
Comments:			

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Performance Step: Critical N	C47019-0405, step 1:		
Offical <u>N</u>	Verify one of 12 FCU discharge dampers is OPEN. IF necessary, THEN open appropriate damper using CS-46441, 12 FCU DISCH TO DOME/SUPPORT CD-34074/34075 CS.		
Standard:	Examinee determines one of 12 FCU discharge dampers are already open.		
Performance:	SATISFACTORY UNSATISFACTORY		
Comments:			
Performance Step:	C47019-0405, step 2:		
Critical <u>N</u>	Verify cooling water alignment to 12 FCU:		
	MV-32379, 12 FCU CLG WTR INLT ISOL MV, OPEN.		
	 MV-32135, 12 FCU CLG WTR OUTL ISOL MV A, OPEN. 		
	MV-32136, 12 FCU CLG WTR OUTL ISOL MV B, OPEN.		
Standard:	Examinee determines cooling water is aligned to 12 FCU.		
Performance:	SATISFACTORY UNSATISFACTORY		
Comments:			
Performance Step: Critical Y	C47019-0405, step 3.A:		
	IF Steps 1 & 2 did not cause stator temperature to decrease to below alarm setpoint, THEN perform the following:		
	1) Stop 12 FCU (FCU is not considered inoperable at this time).		
Standard:	Examinee stops 12 CFCU using CS-46020.		
Performance:	SATISFACTORY UNSATISFACTORY		
Comments:			

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Performance Step: Critical Y	C47019-0405, step 3.B:			
	Verify CD-34073, 11 FCU NORM DISCH TO RX VESSEL SUPPORT, OPEN.			
Standard:	Examinee aligns 11 FCU to SUPPORT using CS-46440.			
Performance:	SATISFACTORY UNSATISFACTORY			
Comments:				
Performance Step: Critical Y	C47019-0405, step 3.C:			
Critical <u>1</u>	3) Verify 11 CFCU running in fast.			
Standard:	Examinee shifts 11 FCU to fast speed using CS-46018.			
Performance:	SATISFACTORY UNSATISFACTORY			
Comments:				
Terminating Cues:	When the examinee has alternated FCUs, stopped 12 FCU due to high temperature, and has re-aligned 11 FCU to SUPPORT in fast speed, then this JPM is complete.			
Stop Time:				

Simulator Setup:

- 1. Reset the simulator to IC-259.
- 2. Place the simulator in RUN and go to step 4.
- 3. If an IC is NOT created for this JPM, then create one as follows:
 - a. Reset simulator to IC-10 and place in RUN.
 - b. If running this JPM in conjunction with **VC-104S**, then:
 - 1) Take CS-46294, 13 CHG PUMP, to PULLOUT.
 - 2) If also running this JPM in conjunction with **VC-29SF**, then go to step 3.c, if not then continue with next step.
 - 3) Place simulator in FREEZE.
 - 4) If desired, save to an available IC.
 - 5) Place simulator in RUN.
 - 6) Go to step 4.
 - c. If also running this JPM in conjunction with **VC-29SF**, then:
 - 1) If available, run schedule files **ZC-1SF.sch & VC-29SF.sch** as follows:
 - (a) Select open file in the Schedule application.
 - (b) Locate schedule file.
 - (c) Open schedule file by double clicking it.
 - (d) Run the schedule file by pressing the "Stopped" button on the toolbar.
 - (e) Verify the schedule file is running.
 - 2) If schedule file is NOT available, then insert malfunctions, remotes, and overrides, as specified by the Simulator Input Summary.
 - 3) If available, open event files **ZC-1SF.evt & VC-29SF.evt** as follows:
 - (a) Select open file in the EVENT application.
 - (b) Locate event file.
 - (c) Open by double clicking file.
 - 4) If event file is NOT available, then enter event codes as specified by the Simulator Event Summary below.
 - 5) Place simulator in FREEZE.
 - 6) If desired, save to an available IC.
 - 7) Place simulator in RUN.
 - 8) Go to step 4.
- 4. Reset the simulator to IC-259 or the IC created from step 3 and place in RUN.
- 5. Clear recorder memory after each reset.
- 6. Verify Director or Schedule File matches the input summary below.

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SIMULATOR INPUT SUMMARY

VC-29SF:

Insert	Pause	@Time	Event	Action	Description
			1	Insert override DI-46457NAST to False on event 1	NRML AF STRT
			1	Insert override DI-46457SP to False on event 1	STOP
			1	Insert override DI-46457ST to True on event 1	START
				Insert evenide by 1013731 to 11de on event 1	STRICT
			1	Insert override DI-41111RS to False on event 1	RESET
_					

ZC-1SF:

@Time	Event	Action	Description
	2	Insert malfunction CP-1T1030A from 90.00000 to 150.00000 in 15 on event 2	12 CNTMT FCU MTR STR T
	2	Insert malfunction M47019:0405W after 5 to Cry_Wolf on event 2	Annunciator malfunction

SIMULATOR EVENT SUMMARY			
Event ID	Event CODE	Event DESCRIPTION	
1	ZVCR457(1)==1	BORIC ACID MU CONTROL TO START	
2	HWZCHFFCF(2)==1 & HWZCHFFCF(4)==1	12 & 14 CFCUs IN FAST	

Retention: Life of Plant Retain in: Training Record

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
Are all items on the cover page filled in correctly?			
2. Has the JPM been reviewed and validated by SMEs?			
3. Can the required conditions for the JPM be appropriately established in the simulator if required?			
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?			
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?			
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?			
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?			
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators			
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators			
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?			
11. Have all special tools and equipment needed to perform the task been identified?			
12. Are all references identified, current, and accurate?			
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?			

All applicable questions must be answered "YES" or the JPM is not valid for use. If all applicable questions are answered "YES" then the JPM is considered valid and can be performed as written.

Retention: Life of Plant Retain in: Training Record

ATTACHMENT 2

JPM Number:	ZC-1SF		
JPM Title:	CFCU HIGH TEMP WHILE ALTERNA	TING FAN COIL UI	NITS, REV. 1
Examinee & ID:		Evaluator:	
Job Title:		Date:	
PERFORMANCE		r:	<u></u>
COMMENTS/FFF	TDDACK: /Maka wwitten comments	for one stone are	
COMMENTS/FEE	EDBACK: (Make written comments	for any steps gra	aded unsatisfactory).

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.

Retention: Life of Plant Retain in: Training Record

EVALUATOR'S SIGNATURE:

ATTACHMENT 3

TURNOVER SHEET

INITIAL CONDITIONS:

- Unit 1 is at 100% power.
- 11 FCU is in FAST to the SUPPORT COOLING.
- 12 FCU is in SLOW to the DOME.
- 13 FCU is in FAST to the GAP.
- 14 FCU is in SLOW to the DOME.

INITIATING CUES:

- The SS directs you to alternate FCUs per Section 6.6.4.A of 1C19.2, Containment System Ventilation Unit 1, as follows:
 - 11 FCU in SLOW to the DOME.
 - 12 FCU in FAST to the SUP CLG.
 - 13 FCU in SLOW to the DOME.
 - 14 FCU in FAST to the GAP.

Retention: Life of Plant Retain in: Training Record