Xcel Ene	rgy [∞]
-----------------	------------------

JOB PERFORMANCE MEASURE (JPM)

SITE:	PRAIRIE ISLAND	PRAIRIE ISLAND		
JPM TITLE:	RCS / STEAM GENERA	TOR TEMPERAT	URE VERIFICATION	
JPM NUMBER:	ADMIN-92	REV. 0		
RELATED PRA INFORMATION:	NONE			
TASK NUMBERS / TASK TITLE(S):	CRO 002 011 01 000 / H	EATUP THE REA	CTOR COOLANT SYSTEM	
K/A NUMBERS:	2.1.20 (4.6/4.6)			
APPLICABLE METHOD	OF TESTING:			
	Discussion:	Simulate/walkthr	rough: Perform:	X
EVALUATION LOCATION	DN: In-Plant:	Con	trol Room:	
	Simulator:	Othe	er: X	
	Lab:			
Time for Complet	ion: 8 Minutes	Tir	me Critical: NO	
Alternate Path:	NO			
TASK APPLICABILITY	SRO: X RO:	X NLO		
Additional site-specific s	ignatures may be added as	desired.		
Developed by:	Shawn Sarr	asin	2/18/2016	
	Develope	r	Date	
Validated by:	Justin Has	ner	2/22/2016	
	Validator (See JPM Validation Check		Date	
	(See Jrivi Valluation Check	MISI, AMACIIIICII I)	1	
Approved by:	Mike Peters		3/25/2016	
	Training Supe	rvisor	Date	

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:

- Preparations are being made to start the FIRST Reactor Coolant Pump.
- An Out Plant Operator reports SG Skin Temperatures are as follows:
 - 12413, 11 SG SKIN TI = 142°F
 - 12414, 12 SG SKIN TI = 147°F

INITIATING CUES:

The SS directs you to complete step 5.6.3 of 1C1.2-M5, UNIT 1 STARTUP TO MODE 5.

ADMIN-92, RCS / STEAM GENERATOR TEMPERATURE VERIFICATION, REV. 0 JPM PERFORMANCE INFORMATION

Required Materials.	ERCS Terminal.
General	1C1.2-M5, UNIT 1 STARTUP TO MODE 5 F e f e r e r e r s :
Task	Examinee determines the SG to RCS ΔT is 48°F and the limiting SG to RCS ΔT S of 50°F has NOT been exceeded. t a n c a r c s :
Start Time:	
the examinee.	g "Evaluator Cues" to the examinee, care must be exercised to avoid prompting Typically cues are only provided when the examinee's actions warrant receiving (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:	1C1.2-M5, step 5.6.3
Critical <u>N</u>	Verify the secondary water temperature of each SG is less than 50°F warmer than the RCS cold leg temperatures before starting an RCP as follows:
	 A. Record SG skin temperatures at the SG skin pyrometer locations: 12413, 11 SG SKIN TI 12414, 12 SG SKIN TI
Standard:	Examinee records 11 and 12 SG Skin Temperatures.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Performance Step: Critical <u>Y</u>	1C1.2-M5, step 5.6.3 Verify the secondary water temperature of each SG is less than 50°F warmer than the RCS cold leg temperatures before starting a RCP as follows:
	 B. Record RCS cold leg temperatures: 1T0406A, RCS A TCOLD 450B 1T0426A, RCS B TCOLD 451B
Standard:	Examinee demonstrates the ability to identify 1T0406A and 1T0426A in ERCS.
Evaluator Cue:	When examinee has demonstrated the ability to locate RCS cold leg temps, then provide the examinee with the following: • 1T0406A, RCS A TCOLD 450B = 99°F • 1T0426A, RCS B TCOLD 451B = 102°F
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	

Performance Step: Critical <u>N</u>	1C1.2-M5, step 5.6.3 Verify the secondary water temperature of each SG is less than 50°F warmer than the RCS cold leg temperatures before starting a RCP as follows:
	 B. Record RCS cold leg temperatures: 1T0406A, RCS A TCOLD 450B 1T0426A, RCS B TCOLD 451B
Standard:	Examinee records RCS A and B cold leg temperatures.
Evaluator Cue:	When examinee has demonstrated the ability to locate RCS cold leg temps, then provide the examinee with the following: • 1T0406A, RCS A TCOLD 450B = 99°F • 1T0426A, RCS B TCOLD 451B = 102°F
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Performance Step: Critical <u>Y</u>	1C1.2-M5, step 5.6.3.C Determine the limiting SG to RCS temperature difference by subtracting the lowest RCS cold leg temperature from the highest SG skin temperature:
	F°F =°F Highest SG Lowest RCS ΔT Skin T cold leg T
Standard:	Examinee determines the SG to RCS temperature difference is 48°F.
Evaluator Note:	Calculation: 147°F – 99°F = 48°F
Dowformana	SATISEACTORY THIS ATISE ACTORY T
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	

Performance Step: Critical <u>Y</u>	Verify the limiting SG to RCS temperature difference is less than 50°F.
Standard:	Examinee determines the limiting SG to RCS ΔT is LESS than 50°F and step D is met.
Performance: Comments:	SATISFACTORY UNSATISFACTORY
Terminating Cues:	When examinee determines the SG to RCS ΔT is 48°F and the limiting ΔT of 50°F has NOT been exceeded, then this JPM is complete.
Stop Time:	

ATTACHMENT 3

TURNOVER SHEET

INITIAL CONDITIONS:

- Unit 1 is in MODE 6.
- Preparations are being made to start the FIRST Reactor Coolant Pump.
- An Out Plant Operator reports SG Skin Temperatures are as follows:
 - 12413, 11 SG SKIN TI = 142°F
 - 12414, 12 SG SKIN TI = 147°F

INITIATING CUES:

• The SS directs you to complete step 5.6.3 of 1C1.2-M5, UNIT 1 STARTUP TO MODE 5.

JOB PERFORMANCE MEASURE (JPM)

SITE:	PRAIRIE ISLAND				
JPM TITLE:	DETERMINE RECOMME	NDED TURE	SINE STARTUP	AND LOAD TIME	
JPM NUMBER:	ADMIN-78	REV.	1		
RELATED PRA INFORMATION:	NONE				
TASK NUMBERS / TASK TITLE(S):	CRO 048 012 01 04 000 /	ADJUST TU	RBINE LOAD R	RATES	
K/A NUMBERS:	2.1.25 (3.9/4.2)				
APPLICABLE METHOD O	F TESTING:				
	Discussion:	Simulate/wa	alkthrough:	Perform:	X
EVALUATION LOCATION	: In-Plant:		Control Room:		
	Simulator:		Other:	X	
	Lab:				
Time for Completion	n: 13 Minutes		Time Critical:	NO	
Alternate Path:	NO				
TASK APPLICABILITY:	SRO: X RO:	X NL	.0		
Additional site-specific sign	natures may be added as o	desired.			l
Developed by:	Shawn Sarra	nein		2/17/2016	
Developed by:	Developer			Date	
Validated by:	Justin Hasr	ner		2/22/2016	
(3	Validator See JPM Validation Check	list, Attachme	nt 1)	Date	
(,	,		
Approved by:	Mike Peters Training Super			3/25/2016 Date	
	Hallillu Subel	VISUI		Daic	

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 plant startup is in progress.
- Preparations are in progress to roll the turbine in accordance with 1C1.2-M1, Unit 1 Startup to Mode 1.

INITIATING CUES:

- The SS directs you to determine the following in accordance with step 5.3.35 of 1C1.2-M1:
 - Turbine acceleration rate.
 - Maximum recommended loading rate.

ADMIN-78, DETERMINE RECOMMENDED TURBINE STARTUP AND LOAD TIME, REV. 1 JPM PERFORMANCE INFORMATION

Required Materials:	Calculator Picture of DEHC screen showing ERCS points 14019, 14020 and 14088. Consumable copy of 1C1.2-M1 and Fig. C1-2A.
General References:	1C1.2-M1, UNIT 1 STARTUP TO MODE 1 FIGURE C1-2A, RECOMMENDED STARTUP AND LOADING TIMES
Task Standards:	Examinee determines the correct turbine acceleration times and maximum recommended loading rate calculated per 1C1.2-M1 Att. 1.
Start Time:	<u> </u>
	Evaluator Cues" to the examinee, care must be exercised to avoid prompting pically 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

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 <u>N</u>	1C1.2-M1, Step 5.3.35 A. Using "Turbine Temperatures" screen, determine the following:
	1. LP 1 ST Stage metal temperatures:
	14019°F for LP1
	14020°F for LP2
	2. HP impulse chamber metal temperature:
	14088°F for Imp Chamber
Standard:	Examinee determines 14019 is 55.4°F, 14020 is 56.5°F and 14088 is 190.4 °F.
Evaluator Cue	Provide picture when examinee asks for DEHC.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	

Performance Step:	1C1.2-M1, Step 5.3.35
Critical <u>N</u>	B. Complete Attachment 1, Turbine Loading Calculation.
_	
Standard:	Examinee transitions to 1C1.2 Attachment 1.
Doufo was a sa	CATICEACTORY THINCATICEACTORY T
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Comments.	
Performance Step:	1C1.2-M1, Attachment 1, Step 1
Critical N	Record HP Turbine First Stage Metal Temperature from 1C1.2-M1 Step
Official <u>IV</u>	5.3.35A.2.
	HP Turbine First Stage Metal Temperature °F
Standard:	Examinee records 190.4 °F.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Performance Step:	1C1.2-M1, Attachment 1, Step 2
Critical Y	Determine the time to accelerate to synch from Figure C1-2A:
	Time = minutes
	Time = minutes
Standard:	Examinee determines the time to be 10-15 minutes.
otanaara.	Examined determines the time to be 10-10 minutes.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	

Performance Step:	1C1.2-M1, Attachment 1, Step 3
Critical Y	Calculate the maximum recommended acceleration rate:
_	
	1800 rpm / minutes = rpm/min
Standard:	Examinee calculates an acceleration rate of 120-180 rpm/min.
Performance:	SATISFACTORY UNSATISFACTORY
0	
Comments:	
-	
Performance Step:	1C1.2-M1, Attachment 1, Step 4
Critical Y	Determine the recommended time to hold at approximately 15% reactor
	power from figure C1-2A:
	Haldfan walantaa
	Hold for minutes
Standard:	Examinee determines a time of 25-35 minutes.
Standard.	Examinee determines a time of 25-55 minutes.
Performance:	SATISFACTORY UNSATISFACTORY
	OATIONATION - ONOATIONATION -
Comments:	
Performance Step:	1C1.2-M1, Attachment 1, Step 5
Critical Y	Determine the time to raise load to 100% from Figure C1-2A:
<u> </u>	Determine the time to raise load to 100 /6 month inguite o 1-22.
	Load increase in minutes
Standard:	Examinee determines a time of 85-95 minutes.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	

Performance Step: Critical <u>Y</u>	1C1.2-M1, Attachment 1, Step 6 Determine the maximum recommended loading rate:					
	85%/ minutes = %/min					
Standard:	Examinee determines a load rate of 0.85 to 1.0 %/minute.					
Performance: Comments:	SATISFACTORY UNSATISFACTORY					
Terminating Cues:	When examinee has calculated turbine acceleration times per 1C1.2-M1, then this					
reminating cues.	JPM is complete.					
Stop Time:						

ATTACHMENT 3

TURNOVER SHEET

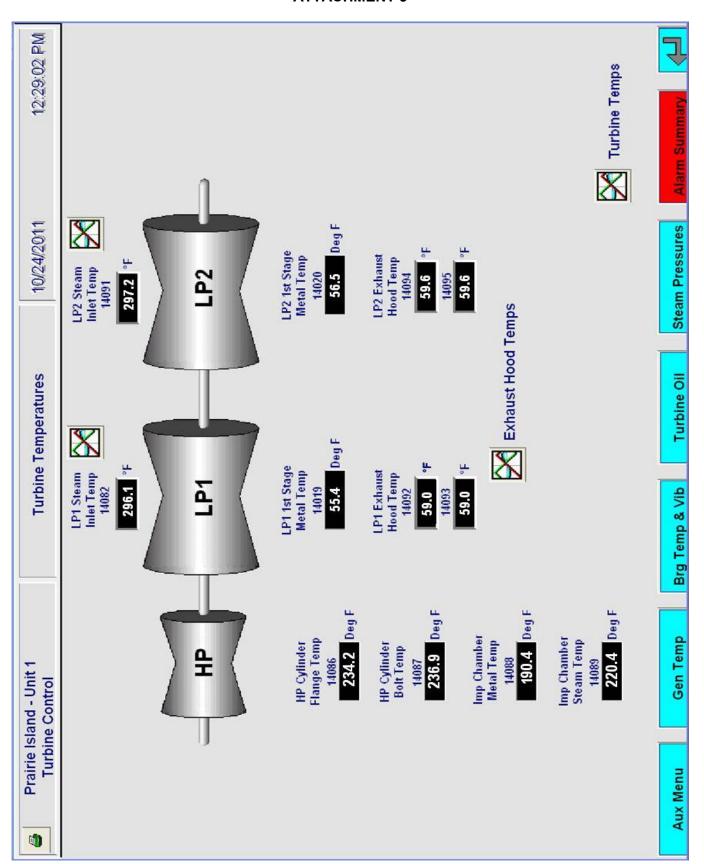
INITIAL CONDITIONS:

- A plant startup is in progress.
- Preparations are in progress to roll the turbine in accordance with 1C1.2-M1, Unit 1 Startup to Mode 1.

INITIATING CUES:

- The SS directs you to determine the following in accordance with step 5.3.35 of 1C1.2-M1:
 - Turbine acceleration rate.
 - Maximum recommended loading rate.

ATTACHMENT 3



JOB PERFORMANCE MEASURE (JPM)

JPM TITLE: REMOVE AN ANNUNCIATOR FROM SERVICE		
JPM NUMBER: ADMIN-11 REV. 3		
RELATED PRA INFORMATION: NONE		
TASK NUMBERS / CRO 083 ATI 00 00 025 / RESPONSE TO ANNUNCIATION TASK TITLE(S): MALFUNCTION	TOR SYSTEM	
K/A NUMBERS: 2.2.43 (3.0/3.3)		
APPLICABLE METHOD OF TESTING:		
Discussion: Simulate/walkthrough:	Perform:	X
EVALUATION LOCATION: In-Plant: Control Room:		
Simulator: Other:	X	
Lab:		
Time for Completion: 8 Minutes Time Critical:	NO	
Alternate Path: NO		
TASK APPLICABILITY: SRO: X RO: X NLO		
Additional site-specific signatures may be added as desired.		
Developed by: Shawn Sarrasin	2/18/2016	
Developer	Date	
	2/22/2016	
Validator (See JPM Validation Checklist, Attachment 1)	Date	
Approved by: Mike Petersen Training Supervisor	3/25/2016 Date	

ADMIN-11, REMOVE AN ANNUNCIATOR FROM SERVICE, REV. 3

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.
- 47013-0503, NIS POWER RANGE UPPER DETECTOR HI FLUX DEVIATION OR AUTO DEFEAT, alarm is
 occurring spuriously and causing a distraction to the Control Room.
- The SS has determined Annunciator 47013-0503 is non-functional.

INITIATING CUES:

• The SS directs you to complete Part A of PINGP 799, Annunciator Out of Service Record Sheet, for 47013-0503 per C47.0, Control Room Annunciators.

Copy C47.0 and C47013-0503

Required Materials:

	Consumable copy of PINGP 799.
General References:	C47.0 CONTROL ROOM ANNUNCIATORS
Task Standards:	Examinee completes Part A of PINGP 799.
Start Time:	-
the examinee. Typ	valuator Cues" to the examinee, care must be exercised to avoid prompting ically cues are only provided when the examinee's actions warrant receiving ., the examinee looks or asks for the indication).
the standard	s are marked with a "Y" below the performance step number. Failure to meet for any critical step shall result in failure of this JPM, per FP-T-SAT-73, erator Requalification Program Examinations.
Performance Step: Critical <u>Y</u>	C47 Step 5.2.1.A: Complete Part A, Identification of the Annunciator Out of Service Record Sheet (PINGP 799):
	Determine which system the specific annunciator is in using Table 1, Control Room Annunciators.
Standard:	Examinee records 1 for UNIT # and marks NSSS.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	- <u></u>
Performance Step: Critical <u>Y</u>	C47 Step 5.2.1.B: Record the nomenclature, annunciator window number, and SER input point(s).
Standard:	Examinee records "NIS POWER RANGE UPPER DETECTOR HI FLUX DEVIATION OR AUTO DEFEAT" or similar words for nomenclature, records 47013-0503 for annunciator window #, and records 169 for SER input point.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	

ADMIN-11, REMOVE AN ANNUNCIATOR FROM SERVICE, REV. 3

Critical <u>Y</u>	C47 Step 5.2.1.C: Complete the removal from service justification by documenting the reason for disabling the annunciator.
Standard:	Examinee records removal from service justification, such as "Alarm occurring spuriously", or "Alarm causing distraction to the Control Room", or combination of both, or similar words.
Performance: Comments:	SATISFACTORY UNSATISFACTORY
Terminating Cues:	When examinee has completed Part A of PINGP 799, then this JPM is complete.
Stop Time:	

ATTACHMENT 3

TURNOVER SHEET

INITIAL CONDITIONS:

- Unit 1 is at 100% power.
- 47013-0503, NIS POWER RANGE UPPER DETECTOR HI FLUX DEVIATION OR AUTO DEFEAT, alarm is occurring spuriously and causing a distraction to the Control Room.
- The SS has determined Annunciator 47013-0503 is non-functional.

INITIATING CUES:

• The SS directs you to complete Part A of PINGP 799, Annunciator Out of Service Record Sheet, for 47013-0503 per C47.0, Control Room Annunciators.

0	Xcel	Energy [*]
---	------	---------------------

JOB PERFORMANCE MEASURE (JPM)

SITE:	PRAIRIE ISLAND				
JPM TITLE:	DETERMINE STEAM GE	NERATOR T	UBE LEAK AC	TION LEVEL	
JPM NUMBER:	ADMIN-91	REV.	0		
RELATED PRA INFORMATION:	NONE				
TASK NUMBERS / TASK TITLE(S):	CRO 002 ATI 00 00 011 /	RESPONSE	TO SG TUBE L	EAK	
K/A NUMBERS:	2.4.11 (4.0/4.2)				
APPLICABLE METHOD O	F TESTING:				
	Discussion:	Simulate/wa	alkthrough:	Perform:	X
EVALUATION LOCATION	: In-Plant:		Control Room:		
	Simulator:		Other:	X	
	Lab:				
Time for Completion	n: 12 Minutes		Time Critical:	NO	
Alternate Path:	NO				
TASK APPLICABILITY:	SRO: X RO:	X NL	.0		
Additional site-specific sign	natures may be added as d	lesired.			
Developed by:	Shawn Sarra	sin		2/17/2016	
	Developer			Date	
Validated by:	Justin Hasn Validator	er		2/22/2016 Date	
(See JPM Validation Checkl	ist, Attachme	ent 1)	Dale	
Approved by:	Mike Peters	en		3/25/2016	
Applotod by:	Training Super			Date	

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.
- ERCS is out of service.
- The crew is performing 1C4 AOP2, Steam Generator Tube Leak.
- Table 1 of 1C4 AOP2 is being performed for periodic data entry.
- 1R-15 is currently reading 1240 CPM.
- Air Ejector flow is currently reading 3.1 CFM.

INITIATING CUES:

- Update Table 1 of 1C4 AOP2 for the 1045 entry based on current 1R-15 count rates.
- Determine the current Action Level per step 2.4.9 of 1C4 AOP2.

JPM PERFORMANCE INFORMATION

Required Materials:	Copy of 1C4 AOP2 with Table 1 filled out from 1000 to 1045 per Attachment 3.
General References:	1C4 AOP2, STEAM GENERATOR TUBE LEAK
Task Standards:	Examinee determines Steam Generator Tube Leak Action Level 1 is met.
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:	1C4 AOP2 Table 1 Step B.1
Critical <u>N</u>	<u>IF</u> ERCS is out of service <u>OR</u> completing the table for periodic data entry, THEN perform the following:
	1. Enter the current date and time in the date/Time column, the current 1R- 15 counts in column A, and the air ejector flow in Column H.
Standard:	Examinee records 1240 in Column A for 1R-15 Counts and 3.1 in Column H for air ejector flow.
Evaluator Note:	Current date and time is already entered on Table 1.
Evaluator Cue:	If examinee requests Chemistry to perform another leak rate determination based on sample, then inform examinee that sample results will take 1 hour

SATISFACTORY
UNSATISFACTORY

to complete.

Performance:

Comments:

Performance Step: Critical <u>Y</u>	1C4 AOP2 Table 1 Step B.2 Determine the current leak rate by dividing the 1R-15 counts (Column A) by the most recent conversion factor (Column C) and enter in Column F. (Column A ÷ Column C = Column F).				
Standard:	Examinee determines the current leak rate is between 30 and 75 GPD.				
Performance:	SATISFACTORY UNSATISFACTORY				
Comments:					
Performance Step: Critical <u>N</u>	1C4 AOP2 Table 1 Step B.2 Determine the current leak rate by dividing the 1R-15 counts (Column A) by the most recent conversion factor (Column C) and enter in Column F. (Column A ÷ Column C = Column F).				
Standard:	Examinee records 40 in Column F for 1R-15 Leak rate and 47 to 48 in Column G for 1R-15 Leak rate ROC.				
Performance:	SATISFACTORY UNSATISFACTORY				
Comments:					
Performance Step: Critical <u>N</u>	1C4 AOP2 Table 1 Step B.3 Determine the rate of change (ROC) by dividing the change in leak rate (change in Column F) by the change in time (change in Date/Time column in hours) for the most recent entries and enter in Column G. (Δ Column F $\div \Delta$ Hours = Column G).				
Standard:	Examinee records a number between 47 and 48 in column G for 1R-15 Leak rate ROC.				
Performance:	SATISFACTORY UNSATISFACTORY				
Comments:					

	Action Level	1U0016A CALC SG TUBE LEAK ROLLING AVG		ON: 1U0019A CALC SG TUBE LEAK RATE OF CHANGE	Go To Step
	Increased Monitoring	≥ 5 GPD < 30 GPD		NA	2.5
	1	≥ 30 GPD < 75 GPD		NA	2.6
	2	≥ 75 GPD sustained for 1 hour	AN	<u>D</u> < 30 GPD/hr	2.7
	3	<u>></u> 75 GPD	AN	<u>D</u> ≥ 30 GPD/hr	2.8
	3	≥ 150 GPD	AN	<u>D</u> < 30 GPD/hr	2.8
Standard: Evaluator Note:		mines Action Level 1 is 4 AOP2 is a continuou			
Performance: Comments:	SATISFACTOR	Y UNSATISFACTO	RY [
Commonto.					
Terminating Cues:	When examinee ha	as determined Steam G I is complete.	ienei	rator Tube Leak Actior	1 Level 1

1R-15	Leak rate						
Counts (CPM) U0018A	from Chemist (GPD)	Factor (CPM/GPD)	1R-15 Counts for 30 GPD Leak	1R-15 Counts for 75 GPD leak	1R-15 Leak rate (GPD)	1R-15 Leak rate ROC (GPD/HR)	Air Ejector flow (cfm)
620	20	31	430	2325			3.1
775				W) & D		20	3.1
868							3,1
240					40	47.6	3.1
7	00018A 620 775	00018A (GPD) 620 20 775	00018A (GPD) 620 20 31 775	U0018A (GPD) Leak 620 20 31 430 775	(CPM) Chemist (CPM/GPD) 30 GPD 75 GPD leak 620 20 31 430 2325	(CPM) Chemist (GPD) 30 GPD 75 GPD leak (GPD) 31 430 2325 20 775 25 25	(CPM) Chemist (GPD) 30 GPD 75 GPD leak (GPD) ROC (GPD/HR) 620 20 31 430 2325 20 - 775 25 20 2868

KEY

ATTACHMENT 3

TURNOVER SHEET

INITIAL CONDITIONS:

- Unit 1 is at 100% power.
- ERCS is out of service.
- The crew is performing 1C4 AOP2, Steam Generator Tube Leak.
- Table 1 of 1C4 AOP2 is being performed for periodic data entry.
- 1R-15 is currently reading 1240 CPM.
- · Air Ejector flow is currently reading 3.1 CFM.

INITIATING CUES:

- Update Table 1 of 1C4 AOP2 for the 1045 entry based on current 1R-15 count rates.
- Determine the current Action Level per step 2.4.9 of 1C4 AOP2.

ATTACHMENT 3

PRAIRIE ISLAND NUCLEAR	GENERATING PLANT ABNO	RMAL OPERATING PROCEDURE
С	STEAM GENERATOR TUBE LEAK	NUMBER: 1C4 AOP2
	SENERATOR TOBE LEAR	REV: 24
		Page 16 of 19

Table 1 SG Leakage Correlation to R-15 Counts (cont'd)

- B. <u>IF ERCS</u> is out of service <u>OR</u> completing the table for periodic data entry, <u>THEN</u> perform the following:
 - Enter the current date and time in the Date/Time column, the current 1R-15 counts in Column A, and the air ejector flow in Column H.
 - Determine the current leak rate by dividing the 1R-15 counts (Column A) by the most recent conversion factor (Column C) and enter in Column F. (Column A + Column C = Column F)
 - Determine the rate of change (ROC) by dividing the change in leak rate (change in Column F) by the change in time (change in Date/Time column in hours) for the two most recent entries and enter in Column G.
 (Δ Column F + Δ Hours = Column G)

	Column A	Column B	Column C	Column D	Column E	Column F	Column	
Date/Time	1R-15 Counts (CPM) 1U0018A	Leak rate from Chemist (GPD)	Conversion Factor (CPM/GPD)	1R-15 Counts for 30 GPD Leak	1R-15 Counts for 75 GPD leak	1R-15 Leak rate (GPD)	1R-15 Leak rate ROC (GPD/HR)	Air Ejector flow (cfm)
o1-16/1000	620	20	31	930	2325	20	(O. Dirity	
1-16/1015	775					25	20	3.1
-1-16/103c	868					28	1,2	3.1
-1-16/1045							1,00	5.1

0	Xcel Energy
---	--------------------

JOB PERFORMANCE MEASURE (JPM)

SITE:	PRAIRIE ISLAND			
JPM TITLE:	REVIEW THE UNIT 1 C	CONTROL ROOM	LOG	
JPM NUMBER:	ADMIN-35	REV.	2	
RELATED PRA INFORMATION:	NONE			
TASK NUMBERS / TASK TITLE(S):	SS 341 010 03 03 000 / CONDITIONS	REVIEW LOGS F	OR TRENDS/OUT-SPEC	
K/A NUMBERS:	2.1.18 (3.6/3.8)			
APPLICABLE METHOD	OF TESTING:			
	Discussion:	Simulate/walkth	nrough: Perfor	m: X
EVALUATION LOCATIO	N: In-Plant:	Cor	ntrol Room:	
	Simulator:	Oth	ner: X	
	Lab:			
Time for Completi	on: 30 Minutes	s T	ime Critical: NO	
Alternate Path:	NO			
TASK APPLICABILITY:	SRO: X RO	D: NLO		
Additional site-specific signal	gnatures may be added as	s desired.		
Developed by:	Shawn Sar	rasin	3/8/2016	
	Develop	er	Date	
Validated by:	Justin Ha	sner	3/15/2016	
	Validate (See JPM Validation Chee	-	Date	
	(,	,	
Approved by:	Mike Pete		3/25/2016	
	Training Sup	ICI AI20I	Date	

ADMIN-35, REVIEW THE UNIT 1 CONTROL ROOM LOG, REV. 2

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.
- Unit 2 is at 100% power.
- All systems are functioning properly.
- No equipment is tagged out.

INITIATING CUES:

- Review the 1800 0600 Unit 1 Control Room Log, SP 1001B.
- Inform the evaluator of discrepancies.

ADMIN-35, REVIEW THE UNIT 1 CONTROL ROOM LOG, REV. 2

JPM PERFORMANCE INFO	ORMATION
----------------------	----------

General References: SP 1001B, UNIT 1 CONTROL ROOM LOG - MODES 1 AND 2 SWI 0-200.5, PERIODIC DATA ACQUISITIONS & LOG KEEPING Task Standards: Examinee identifies out of specifications in the Control Room Log. Start Time:	Required Materials:	Consumable Copy of SP 1001B with discrepancies Blank sheet of paper for writing down discrepancies Calculator
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: Step 5.C, Check CST useable contents ≥ 100,000 gallons per operating unit. Critical Y Standard: Examinee identifies CST useable contents are less than 200,000 gallons. Evaluator Note: CST useable contents are 195,000 Gallons (page 10 of SP 1001B). Performance: SATISFACTORY □ UNSATISFACTORY □ Standard: Examinee identifies Control Bank Rod Position, within Deviation Limits. Evaluator Note: Control Bank D Rod K-7 is at 198, Control Bank D Step Counter is at 213 steps, and deviation is greater than 12 steps (page 19 of SP 1001B). Performance: SATISFACTORY □ UNSATISFACTORY □	General References:	·
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: Step 5.C, Check CST useable contents ≥ 100,000 gallons per operating unit. Critical Y Standard: Examinee identifies CST useable contents are less than 200,000 gallons. Evaluator Note: CST useable contents are 195,000 Gallons (page 10 of SP 1001B). Performance: SATISFACTORY □ UNSATISFACTORY □ Standard: Examinee identifies Control Bank D Deviation Limits. Evaluator Note: Control Bank D Rod K-7 is at 198, Control Bank D Step Counter is at 213 steps, and deviation is greater than 12 steps (page 19 of SP 1001B). Performance: SATISFACTORY □ UNSATISFACTORY □	Task Standards:	Examinee identifies out of specifications in the Control Room Log.
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: Step 5.C, Check CST useable contents ≥ 100,000 gallons per operating unit Critical Y Standard: Examinee identifies CST useable contents are less than 200,000 gallons. Evaluator Note: CST useable contents are 195,000 Gallons (page 10 of SP 1001B). Performance: SATISFACTORY □ UNSATISFACTORY □ Comments: Performance Step: Step 20, Control Bank Rod Position, within Deviation Limits. Critical Y Standard: Examinee identifies Control Bank D Deviation Limits are NOT acceptable. Evaluator Note: Control Bank D Rod K-7 is at 198, Control Bank D Step Counter is at 213 steps, and deviation is greater than 12 steps (page 19 of SP 1001B). Performance: SATISFACTORY □ UNSATISFACTORY □	Start Time:	_
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 Standard: Examinee identifies CST useable contents are less than 200,000 gallons. Evaluator Note: CST useable contents are 195,000 Gallons (page 10 of SP 1001B). Performance: SATISFACTORY □ UNSATISFACTORY □ Performance Step: Critical Y Standard: Examinee identifies Control Bank Rod Position, within Deviation Limits. Examinee identifies Control Bank D Deviation Limits are NOT acceptable. Evaluator Note: Control Bank D Rod K-7 is at 198, Control Bank D Step Counter is at 213 steps, and deviation is greater than 12 steps (page 19 of SP 1001B). Performance: SATISFACTORY □ UNSATISFACTORY □	the examinee. Typ	ically cues are only provided when the examinee's actions warrant receiving
Critical Y Standard: Examinee identifies CST useable contents are less than 200,000 gallons. Evaluator Note: CST useable contents are 195,000 Gallons (page 10 of SP 1001B). Performance: SATISFACTORY □ UNSATISFACTORY □ Comments: Comments: Performance Step: Step 20, Control Bank Rod Position, within Deviation Limits. Critical Y Standard: Examinee identifies Control Bank D Deviation Limits are NOT acceptable. Evaluator Note: Control Bank D Rod K-7 is at 198, Control Bank D Step Counter is at 213 steps, and deviation is greater than 12 steps (page 19 of SP 1001B). Performance: SATISFACTORY □ UNSATISFACTORY □	the standard	for any critical step shall result in failure of this JPM, per FP-T-SAT-73,
Evaluator Note: CST useable contents are 195,000 Gallons (page 10 of SP 1001B). Performance: SATISFACTORY UNSATISFACTORY Comments: Performance Step: Step 20, Control Bank Rod Position, within Deviation Limits. Critical Y Standard: Examinee identifies Control Bank D Deviation Limits are NOT acceptable. Evaluator Note: Control Bank D Rod K-7 is at 198, Control Bank D Step Counter is at 213 steps, and deviation is greater than 12 steps (page 19 of SP 1001B). Performance: SATISFACTORY UNSATISFACTORY		Step 5.C, Check CST useable contents > 100,000 gallons per operating unit.
Performance: SATISFACTORY UNSATISFACTORY Comments: Performance Step: Critical Y Standard: Examinee identifies Control Bank D Deviation Limits are NOT acceptable. Evaluator Note: Control Bank D Rod K-7 is at 198, Control Bank D Step Counter is at 213 steps, and deviation is greater than 12 steps (page 19 of SP 1001B). Performance: SATISFACTORY UNSATISFACTORY	Standard:	Examinee identifies CST useable contents are less than 200,000 gallons.
Comments: Step 20, Control Bank Rod Position, within Deviation Limits. Critical Y Standard: Examinee identifies Control Bank D Deviation Limits are NOT acceptable. Evaluator Note: Control Bank D Rod K-7 is at 198, Control Bank D Step Counter is at 213 steps, and deviation is greater than 12 steps (page 19 of SP 1001B). Performance: SATISFACTORY □ UNSATISFACTORY □	Evaluator Note:	CST useable contents are 195,000 Gallons (page 10 of SP 1001B).
Performance Step: Critical Y Standard: Examinee identifies Control Bank D Deviation Limits are NOT acceptable. Evaluator Note: Control Bank D Rod K-7 is at 198, Control Bank D Step Counter is at 213 steps, and deviation is greater than 12 steps (page 19 of SP 1001B). Performance: SATISFACTORY UNSATISFACTORY		SATISFACTORY UNSATISFACTORY
Critical Y Standard: Examinee identifies Control Bank D Deviation Limits are NOT acceptable. Evaluator Note: Control Bank D Rod K-7 is at 198, Control Bank D Step Counter is at 213 steps, and deviation is greater than 12 steps (page 19 of SP 1001B). Performance: SATISFACTORY UNSATISFACTORY	Comments:	
Critical Y Standard: Examinee identifies Control Bank D Deviation Limits are NOT acceptable. Evaluator Note: Control Bank D Rod K-7 is at 198, Control Bank D Step Counter is at 213 steps, and deviation is greater than 12 steps (page 19 of SP 1001B). Performance: SATISFACTORY UNSATISFACTORY		
Evaluator Note: Control Bank D Rod K-7 is at 198, Control Bank D Step Counter is at 213 steps, and deviation is greater than 12 steps (page 19 of SP 1001B). Performance: SATISFACTORY UNSATISFACTORY	•	Step 20, Control Bank Rod Position, within Deviation Limits.
steps, and deviation is greater than 12 steps (page 19 of SP 1001B). Performance: SATISFACTORY UNSATISFACTORY	Standard:	Examinee identifies Control Bank D Deviation Limits are NOT acceptable.
	Evaluator Note:	
Comments:	Performance:	SATISFACTORY UNSATISFACTORY
	Comments:	

ADMIN-35, REVIEW THE UNIT 1 CONTROL ROOM LOG, REV. 2

Performance Step: Critical <u>Y</u>	Step 25.B, Check each accumulator pressure ≥ 710 psig and ≤ 770 psig.
Standard:	Examinee identifies 12 SI Accumulator Pressure is less than 710 psig.
Evaluator Note:	12 Accumulator pressure 709 psig on 1PI-936 and 699 psig on 1PI-937 (page 21 of SP 1001B).
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Terminating Cues:	When examinee has identified the out of specifications in the Control Room Log then this JPM is complete.
Stop Time:	

ATTACHMENT 3

TURNOVER SHEET

INITIAL CONDITIONS:

- Unit 1 is at 100% power.
- Unit 2 is at 100% power.
- All systems are functioning properly.
- No equipment is tagged out.

INITIATING CUES:

- Review the 1800 0600 Unit 1 Control Room Log, SP 1001B.
- Inform the evaluator of discrepancies.

0	Xcel	Energy [∞]
		<i></i>

JOB PERFORMANCE MEASURE (JPM)

SITE:	PRAIRIE ISLAND				
JPM TITLE:	VERIFY TIME TO BOILIN	G DURING F	REDUCED INV	ENTORY	
JPM NUMBER:	ADMIN-63	REV.	1		
RELATED PRA INFORMATION:	NONE				
TASK NUMBERS / TASK TITLE(S):	SS 342 ATI 00 00 029 / AS DURING COLD SHUTDO			DUNDARY CONTR	ROL
K/A NUMBERS:	2.1.25 (3.9/4.2)				
APPLICABLE METHOD O	F TESTING:				
	Discussion:	Simulate/wa	lkthrough:	Perform:	X
EVALUATION LOCATION	: In-Plant:		Control Room:		
	Simulator:		Other:	X	
	Lab:				
Time for Completion	n: 8 Minutes		Time Critical:	NO	
Alternate Path:	NO				
TASK APPLICABILITY:	SRO: X RO:	NL	0 🔲		
Additional site-specific sign	natures may be added as d	esired.]
Developed by:	Shawn Sarra	sin		3/2/2016	
	Developer			Date	
Validated by:	Justin Hasn	er		3/15/2016	
	Validator See JPM Validation Checkli	ist Attachmei	nt 1)	Date	
(1	CCC 31 W Valladilon Oncom	ot, Attaoriiio	1,		
Approved by:	Mike Peterse			3/25/2016	-
	Training Super	/isor		Date]

ADMIN-63, VERIFY TIME TO BOILING DURING REDUCED INVENTORY, REV. 1

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:

- It is November 19, 2009 at 0400.
- Unit 2 is in a refueling outage.
- During the shutdown, the Unit 2 Reactor was manually tripped on November 8th at 0800.
- Inventory Integrity is set.
- The crew is implementing 2C1.6, Shutdown Operations Unit 2.
- Reactor Vessel level is 1 foot below the Reactor Vessel Flange.
- Maintenance has requested to have both doors of the personnel airlock open to move equipment.
 During the equipment movement, it will take 20 minutes to close the airlock.
- The Reactor Operator has determined the current Time To Boiling is 21 minutes in accordance with step 5.2.3 of 2C1.6, Shutdown Operations Unit 2.
- The Reactor Operator also determined that Maintenance will be allowed to move equipment in accordance with C19.10, Containment Airlock Door Control At Shutdown, Limitation 4.3. due to the time to boiling is greater than 20 minutes.

INITIATING CUES:

- Review and verify the time to boiling determination and ensure C19.10 Limitation 4.3 is assessed correctly.
- Report your findings to the evaluator.

ADMIN-63, VERIFY TIME TO BOILING DURING REDUCED INVENTORY, REV. 1

JPM PERFORMANCE INFORMATION

Required Materials:	2C1.6, Shutdown Operations – Unit 2, page 9.
---------------------	--

Figure C1-32, Boiling Curve.

C19.10, Containment Airlock Door Control At Shutdown, Pages 6 & 7.

See JPM setup information on page 7.

General References: 2C1.6, SHUTDOWN OPERATIONS – UNIT 2

C19.10, CONTAINMENT AIRLOCK DOOR CONTROL AT SHUTDOWN

FIG C1-32, BOILING CURVE

Task Standards: Examinee determines the time to boiling is less than 20 minutes and

Limitation 4.3 of C19.10 is NOT met.

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 <u>Y</u>	2C1.6, SHUTDOWN OPERATIONS –UNIT 2 Step 5.2.3 Determine the time to boiling from Figure C1-32 or Nuclear Engineer, if necessary.
Standard:	Examinee determines time to boiling is less than 20 minutes.
Evaluator Cue:	Time between November 11 at 0800 and November 19 at 0400 is 260 hours.
Evaluator Cue:	If examinee request support from Nuclear Engineer, inform examinee no engineers are available.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	

ADMIN-63, VERIFY TIME TO BOILING DURING REDUCED INVENTORY, REV. 1

Performance Step: Critical Y	C19.10, CONTAINMENT AIRLOCK DOOR CONTROL AT SHUTDOWN Limitation 4.3
	If inventory Integrity is required, THEN at least one (1) door in each
	containment airlock SHALL be operable and capable of being CLOSED under the control provided in this procedure prior to the Time to boiling or 4
	(4) hours, whichever is less.
Standard:	Examinee determines time to boiling is less than the time to close the personnel airlock door and Limitation 4.3 of C19.10 is NOT met.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Terminating Cues:	When the examinee has determined the time to boiling is less than 20 minutes and Limitation 4.3 of C19.10 is NOT met, then this JPM is complete.
Stop Time:	
•	

TURNOVER SHEET

INITIAL CONDITIONS:

- It is November 19, 2009 at 0400.
- Unit 2 is in a refueling outage.
- During the shutdown, the Unit 2 Reactor was manually tripped on November 8th at 0800.
- Inventory Integrity is set.
- The crew is implementing 2C1.6, Shutdown Operations Unit 2.
- Reactor Vessel level is 1 foot below the Reactor Vessel Flange.
- Maintenance has requested to have both doors of the personnel airlock open to move equipment. During the equipment movement, it will take 20 minutes to close the airlock.
- The Reactor Operator has determined the current Time to Boiling is 21 minutes in accordance with step 5.2.3 of 2C1.6, Shutdown Operations Unit 2.
- The Reactor Operator also determined that Maintenance will be allowed to move equipment in accordance with C19.10, Containment Airlock Door Control at Shutdown, Limitation 4.3 due to the time to boiling is greater than 20 minutes.

INITIATING CUES:

- Review and verify the time to boiling determination and ensure C19.10 Limitation 4.3 is assessed correctly.
- Report your findings to the evaluator.

Xcel Energy

JOB PERFORMANCE MEASURE (JPM)

SITE:	PRAIRIE ISLAND				
JPM TITLE:	PERFORM SHUTDO	WN SAFETY AS	SSESSMENT FOR	R DC SYSTEM	
JPM NUMBER:	ADMIN-93	REV.	0		
RELATED PRA INFORMATION:	NONE				
TASK NUMBERS / TASK TITLE(S):	SS 342 ATI 00 00 03) / PERFORM S	HUTDOWN SAFE	TY ASSESSME	NT
K/A NUMBERS:	2.2.18 (2.6/3.9)				
APPLICABLE METHOD	OF TESTING:				
	Discussion:	Simulate/w	alkthrough:	Perform:	X
EVALUATION LOCATION	N: In-Plant:		Control Room:		
	Simulator:		Other:	X	
	Lab:				
Time for Completio	on: 21 Minut	es	Time Critical:	NO	
Alternate Path:	NO				
TASK APPLICABILITY:	SRO: X	RO: N	LO		
Additional site-specific sig	natures may be added	as desired.			٦
Developed by:	Shawn S			3/8/2016	
	Devel	oper		Date	
Validated by:	Justin F Valid			3/15/2016 Date	
	(See JPM Validation Ch		ent 1)	Date	
Approved by:	Mike Pe	tersen		3/25/2016	
	Training S	upervisor		Date	

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 in a refueling outage.
- A screenshot of DC1 ERCS SCREEN (ATTACHMENT 4) is provided.
- Instrument readings on DC1 ERCS SCREEN match corresponding in-plant indications.
- The following equipment is OUT OF SERVICE:
 - 21 Battery Charger.
 - 21 Battery.
 - Portable Battery Charger.
 - 42 Battery Charger.
 - 42 Battery.

INITIATING CUES:

- Perform a Shutdown Safety Assessment for DC Power Availability ONLY.
- Determine the current condition for DC Power Availability.

Required Materials:

JPM PERFORMANCE INFORMATION

Consumable copy of PINGP 1103 and 5AWI 15.6.1.

	Concumumo copy on the concumum of the concumum
General	5AWI 15.6.1, SHUTDOWN SAFETY ASSESSMENT
	F PINGP 1103, UNIT 2 SHUTDOWN SAFETY ASSESSMENT
	e
	r
	1 G
	n
	C
	e
	S
	:
Task	Examinee determines DC Power Availability is an ORANGE condition.
	§
	t
	а
	n
	C
	a
	r
	5
	•
Start Time:	
NOTE: When providin	g "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 examiner is a leader or called for the indication.

g ng 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:	Safeguards Train A 125V DC Energized										
Critical <u>Y</u>	Yes	No									
	☐ ☐ Charger Functional (Yes, if any of the following are Yes)										
			Yes	No							
			☐ ☐ ERCS display DC1 shows 21 Battery Charger Amps greater than 5 & Volts greater than 119								
				,							
				\boxtimes	42 Batt Chg: Amps 10 to 150; Volts 124 to 140, and:						
 42 MAINT/TIE SW is in the "ON" position, and 31-42 BATT/XFRSW is in the "42 MAINT/TIE SW" position, and U1-U2 BATT/XFRSW is in the "21-22 BATT/XFRSW" position, and 21-22 BATT/XFRSW is in the "21-42 DCBT/DISC SW" position, and 21-42 DCBT/DISC SW is in the "ON" position. 											
					(0-1) 0						
Standard:	Exam	inee	alloca	ates :	zero points for Safeguards Train A 125V DC Charger.						
Evaluator Cues:		ers/s	witch 21 Ba 21 Pc 42 Ma 31-42 U1-U2 21-22	es, pattery ortab ainte Batt 2 Bat Batt	nat a plant tour is required to determine the status of provide the following information as needed: (Charger Isolation Breaker is OFF.) Ile Battery Charger Isolation Breaker is OFF. Inance Tie Switch is OFF. Itery Transfer Switch is OFF.						
Performance:	SATIS	SFAC	TORY	/	UNSATISFACTORY						
Comments:											

Performance Step:	Safeguards Train A 125V DC Energized (cont)							
Critical <u>Y</u>	Yes	No	5 44	-				
	☐ ☐ Battery Functional (Yes, if any of the following are Yes)							
			Yes	No				
				21 Battery Disc. SW ON & 21 Battery Volts on 21 Batt/Disc SW Panel within 5 volts of Panel 21 volts.				
				 42 Battery: Volts ≥124, and: 42 MAINT/TIE SW is in the "ON" position, and 31-42 BATT/XFRSW is in the "42 MAINT/TIE SW" position, and U1-U2 BATT/XFRSW is in the "21-22 BATT/XFRSW" position, and 21-22 BATT/XFRSW is in the "21-42 DCBT/DISC SW" position, and 21-42 DCBT/DISC SW is in the "ON" position. 				
				(0-1) 0				
Standard:	Exam	ninee	alloca	ates zero points for Safeguards Train A 125V DC Battery.				
Evaluator Cues:		ers/s • • • •	witch 21 Ba 42 Ma 31-42 U1-U 21-22	tes that a plant tour is required to determine the status of nes, provide the following information as needed: attery Disconnect SW is OFF. aintenance Tie Switch is OFF. Battery Transfer Switch is OFF.				
Performance:	SATIS	SFAC	TORY	Y UNSATISFACTORY				
Comments:								

Performance Step:	Safeguards Train B 125V DC Energized									
Critical <u>Y</u>	Yes	No								
	☐ Charger Functional (Yes, if any of the following are Yes)									
	Yes No									
				☐ ERCS display DC1 shows 22 Battery Charger Amps greater than 5 & Volts greater than 119						
				22 Batt Chg: Amps greater than 5; Volts greater than 119, & 22 Battery Charger Isol SW ON (inside 22 Battery Charger DC Transfer Switch)						
				Portable Batt Chg: Amps greater than 5, Volts greater than 119, & 22 Portable Battery Charger Isol SW ON (inside 22 Battery Charger DC Transfer Switch)						
				42 Batt Chg: Amps 10 to 150; Volts 124 to 140, and:						
				 42 MAINT/TIE SW is in the "ON" position, and 31-42 BATT/XFRSW is in the "42 MAINT/TIE SW" position, and U1-U2 BATT/XFRSW is in the "21-22 BATT/XFRSW" position, and 21-22 BATT/XFRSW is in the "22-42 DCBT/DISC SW" position, and 22-42 DCBT/DISC SW is in the "ON" position. 						
Standard:	Exam	inee	alloca	cates one point for Safeguards Train B 125V DC Charger.						
Evaluator Cues:		ers/s	witch 22 Ba 22 Po 42 Ma 31-42 U1-U2 21-22	Attes that a plant tour is required to determine the status of thes, provide the following information as needed: Battery Charger Isolation Breaker is ON. Portable Battery Charger Isolation Breaker is OFF. Baintenance Tie Switch is OFF. Battery Transfer Switch is OFF. DC Battery Disconnect Switch is OFF.						
Performance:	SATIS	3FAC	TORY	Y UNSATISFACTORY						
Comments:										

Performance Step:	Performance Step: Safeguards Train B 125V DC Energized (cont)							
Critical Y	Yes	No						
_	☑ Battery Functional (Yes, if any of the following are Yes)							
			Yes	No				
					22 Battery Disc. SW ON & 22 Battery Volts on 22 Batt/Disc SW Panel within 5 volts of Panel 22 volts.			
				\boxtimes	42 Battery: Volts ≥124, and:			
					 42 MAINT/TIE SW is in the "ON" position, and 31-42 BATT/XFRSW is in the "42 MAINT/TIE SW" position, and U1-U2 BATT/XFRSW is in the "21-22 BATT/XFRSW" position, and 21-22 BATT/XFRSW is in the "22-42 DCBT/DISC SW" position, are 22-42 DCBT/DISC SW is in the "ON" position. 			
						(0-1)	1	
						_		
Standard:	Exam	inee	alloca	ates	one point for Safeguards Train B 125V DC Battery.			
Evaluator Cues:		ers/s • • •	witch 22 Ba 42 Ma 31-42 U1-U 21-22	es, pattery ainte 2 Bat 2 Bat 2 Bat 2 Bat	nat a plant tour is required to determine the status of provide the following information as needed: y Disconnect SW is ON. In ance Tie Switch is OFF. Itery Transfer Switch is OFF. Battery Disconnect Switch is OFF.	of		
Performance: Comments:	SATIS	SFAC	TOR	Y	UNSATISFACTORY			

Performance Step:	Normal 125 Volt DC Line-up (One Point if all four high level categories are Yes)								
Critical <u>Y</u>	Yes	No Normal Charger (A Train) (Yes, if any of the following are Yes)							
	Ш		Yes	No No	ger (A fram) (165, if any of the following are 165)				
					ERCS Display DC1 shows 21 Battery Charger Amps greater than 5,Volts				
					greater than 119, and alarm "NORMAL" is displayed				
				\boxtimes	21 Batt Chg: Amps greater than 5, Volts greater than 119, & 21 Battery Charger Isol Bkr ON (inside 21 Battery Charger DC Transfer Switch)				
	Yes ⊠	No	Norm	al Chai	rger (B Train) (Yes, if any of the following are Yes)				
			Yes	No	ger (2 man) (100, man) or are renorming and 100,				
			\boxtimes		ERCS Display DC1 shows 22 Battery Charger Amps greater than 5,Volts greater than 119, and alarm "NORMAL" is displayed				
					22 Batt Chg: Amps greater than 5; Volts greater than 119, & 22 Battery Chargerlsol Bkr ON (inside 22 Battery Charger DC Transfer Switch)				
	Yes	No			4. - 4.				
			Norm Yes		ery (A Train) (Yes, if both of the following are Yes)				
				No ⊠	21 Batt. Disc. SW ON				
				\boxtimes	21-42 DCBT/DISC SW is in the "OFF" position.				
	Yes	No	_	_	· ·				
	\boxtimes		Normal Battery (B Train) (Yes, if both of the following are Yes)						
			Yes	No —					
			\boxtimes		22 Batt. Disc. SW ON				
				ш	22-42 DCBT/DISC SW is in the "OFF" position. (0-1)				
					· · · · · · · · · · · · · · · · · · ·				
Standard:	Exam	inee	alloca	ites z	ero points for Normal 125 Volt DC Line-up.				
Evaluator Cues:		ers/s • •	witch 21 Ba 22 Ba 21 Ba	es, po ttery ttery ttery	at a plant tour is required to determine the status of rovide the following information as needed: Charger Isolation Breaker is OFF. Charger Isolation Breaker is ON. Disconnect SW is OFF. Disconnect SW is ON.				
Performance: Comments:	SATIS	SFAC	TORY		UNSATISFACTORY				

Performance Step: Critical <u>Y</u>	Total Points "POWER AVAILABILITY" (DC)	Total (0-5)	2
Standard:	Examinee allocates a total of two points for DC Pow DC Power Availability is in an ORANGE condition.	er Availability a	nd determines
Performance: Comments:	SATISFACTORY UNSATISFACTORY	_	
Terminating Cues:	When examinee has determined DC Power Availabil then this JPM is complete.	ity is in an ORA	NGE condition
Stop Time:			

TURNOVER SHEET

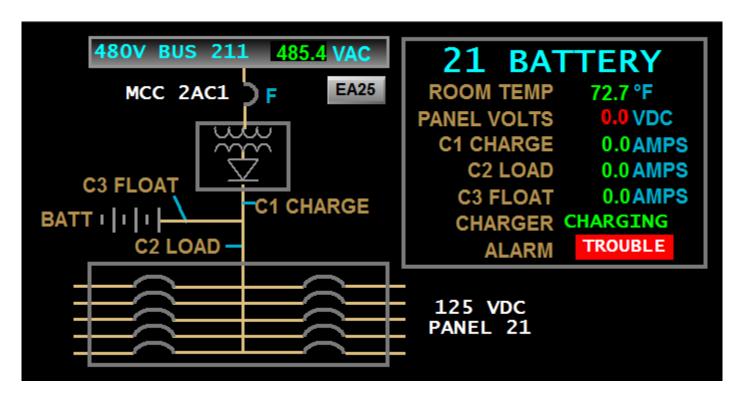
INITIAL CONDITIONS:

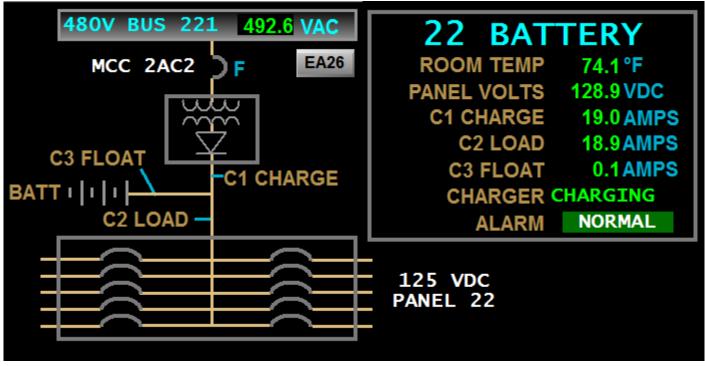
- Unit 2 is in a refueling outage.
- A screenshot of DC1 ERCS SCREEN (ATTACHMENT 4) is provided.
- Instrument readings on DC1 ERCS SCREEN match corresponding in-plant indications.
- The following equipment is OUT OF SERVICE:
 - 21 Battery Charger.
 - 21 Battery.
 - Portable Battery Charger.
 - 42 Battery Charger.
 - 42 Battery.

INITIATING CUES:

- Perform a Shutdown Safety Assessment for DC Power Availability ONLY.
- Determine the current condition for DC Power Availability.

DC1 ERCS SCREEN





JOB PERFORMANCE MEASURE (JPM)

SITE:	PRAIRIE ISLAND				
JPM TITLE:	ASSURE CONTAINMENT I	NVENTO	ORY INTEGRITY	BOUNDARY CON	TROL
JPM NUMBER:	ADMIN-95	REV.	0		
RELATED PRA INFORMATION:	NONE				
TASK NUMBERS / TASK TITLE(S):	SS 342 ATI 00 00 029 / ASS DURING COLD SHUTDOW			OUNDARY CONTR	ROL
K/A NUMBERS:	2.3.13 / (3.4/3.8)				
APPLICABLE METHOD	OF TESTING:				
	Discussion: S	imulate/\	walkthrough:	Perform:	X
EVALUATION LOCATION	ON: In-Plant:		Control Room:	:	
	Simulator:		Other:	X	
	Lab:				
Time for Comple	tion: 20 Minutes		Time Critical	l: <u>NO</u>	
Alternate Path:	NO_				
TASK APPLICABILITY	SRO: X RO:		NLO		
Additional site-specific s	signatures may be added as des	sired.			
Developed by:	Fredrick Collin	s		5/4/2016	
Developed by.	Developer			Date	
Validated by:	Justin Hasner			5/5/2016	
	Validator (See JPM Validation Checklist	, Attachn	nent 1)	Date	
Approved by:	Shawn Sarrasii Training Supervis			Date	
	Training Supervis	<u> </u>		Date	i

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 in MODE 5.
- 11 CFCU is isolated for maintenance by CLEARANCE ORDER # 54321.
- Applicable section of C19.9-1, INVENTORY AND REFUELING INTEGRITY CONTAINMENT BOUNDARY CHECKLIST – UNIT 1, for 11 CFCU isolation is available for review.
- MV-32377, 11 FC CLG WTR INLT ISOL MV, is required to be OPEN per Maint. Work Order # 1234567.
- MV-32377 is located in the Auxiliary Building, Elevation: 746', J.9 / 6.3.
- Per W/O # 1435123, the closure method is LOCAL, MANUAL closure of MOV.
- Penetration closure responsibility belongs to Non-Licensed Operator John Smith, pager number 7530.
- Closure can be attained in 5 MINUTES.
- Shutdown Safety Assessment Time to Boil is 13 MINUTES.
- No other containment penetrations are open.

INITIATING CUES:

• As the Unit 1 Shift Supervisor, complete steps 5.2.1 through 5.2.6 of C19.9, Containment Boundary Control during MODE 5, Cold Shutdown and MODE 6, Refueling, for INVENTORY INTEGRITY ONLY.

JPM PERFORMANCE INFORMATION

Required materials:	 PINGP 1173 C19.9
General	 C19.9, Containment Boundary Control during MODE 5, Cold Shutdown and MODE 6, Refueling C19.9-1, Inventory and Refueling Integrity Containment Boundary Checklist – Unit 1 PINGP 1173, Substitute Penetration Control Method c c s :
Task	Examinee correctly fills out Table 1 of C19.9, Parts 1 & 2 of PINGP 1173, and S signs for SS on PINGP 1173. t a n c a r c s :
Start Time:	
-	g "Evaluator Cues" to the examinee, care must be exercised to avoid prompting

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:	C19.9, step 5.2.1:
Critical <u>Y</u>	In Table 1, enter the penetration number for the penetration to be controlled.
Standard:	Examinee enters penetration number 37B on Table 1 for 'PEN NO' per key ATTACHMENT 1.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Performance Step: Critical <u>Y</u>	C19.9, step 5.2.2:
<u>-</u>	In Table 1, enter a check mark for the penetration OPEN or alternate isolation.
Standard:	Examinee enters a checkmark (or equivalent) for 'OPEN PENT' per key ATTACHMENT 1.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Performance Step: Critical <u>N</u>	C19.9, step 5.2.3:
	In Table 1, enter the document number that is holding the penetration OPEN or requiring the alternate isolation.
Standard:	Examinee enters "w/o 1234567" in 'REASON FOR CHANGE' per key ATTACHMENT 1.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	

Performance Step: Critical <u>N</u>	C19.9, step 5.2.4.A: If the penetration is OPEN, then complete the following steps:
	In PINGP 1173, complete Parts 1 & 2.
Standard:	Examinee fills out PINGP 1173 Parts 1 and 2.
Evaluator Cue:	When examinee indicates need for PINGP 1173, then provide examinee with blank copy of PINGP 1173.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Performance Step:	PINGP 1173, page 1:
Performance Step: Critical <u>Y</u>	PINGP 1173, page 1: PART 1
Critical <u>Y</u>	PART 1 Examinee fills out PINGP 1173 Part 1 for penetration number, description,
Critical <u>Y</u> Standard:	PART 1 Examinee fills out PINGP 1173 Part 1 for penetration number, description, and location per key ATTACHMENT 2.

Performance Step:	PINGP 1173, page 1:
Critical <u>Y</u>	PART 2
Standard:	Examinee fills out PINGP 1173 Part 2 for closure designee, pager number, procedure and description of closure method, and indicates C19.9 estimated closure time requirement is met per key ATTACHMENT 2.
Evaluator Note:	 If examinee has already determined and indicated closure designee and/or contact number per step 5.2.4.B, then this step is NOT critical. If examinee has already determined and indicated penetration closure time requirements are met in C19.9, step 5.2.4.C.1, then this step is NOT critical.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Performance Step: Critical Y	PINGP 1173, page 1:
ontical <u>1</u>	DATE / TIME / SIGNATURE
Standard:	Examinee gives approval for substitute penetration control method.
Evaluator Note:	Examinee may give approval for alternate opening control via this form OR on C19.9, Table 1 (per step 5.2.6). If examinee gives approval via Table 1, then this step is NOT critical.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	

Critical N	PINGP 1173, page 2:
Critical <u>N</u>	Person designated for closure is available and knowledgeable about closure req., time, and the applicable procedure. Log on back.
Standard:	Examinee enters NAME, current DATE, and current TIME on page 2 of PINGP 1173.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Performance Step: Critical <u>Y</u>	C19.9, step 5.2.4.B: If the penetration is OPEN, then complete the following steps:
	In Table 1, enter CLOSURE responsibility and contact number.
Standard:	Examinee enters John Smith and/or pgr # 7530 (or similar description) in 'CLOSURE RESP. & CONTACT #' per key ATTACHMENT 1.
Evaluator Note:	If examinee has already determined and indicated closure designee and/or pager number on PINGP 1173, then this step is NOT critical.
Performance: Comments:	SATISFACTORY UNSATISFACTORY
Performance Step: Critical <u>Y</u>	C19.9, step 5.2.4.C.1: If the penetration is OPEN, then complete the following steps:
	Verify that all OPEN penetrations can be CLOSED within the following time limits for Inventory Integrity.
Standard:	Examinee verifies MV-32377 can be closed prior to Time to Boil.
Evaluator Note:	If examinee has already determined and indicated penetration closure time requirements are met on PINGP 1173, then this step is NOT critical.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	

Performance Step: Critical N	C19.9, step 5.2.4.C.2: If the penetration is OPEN, then complete the following steps:
Critical <u>IV</u>	If the penetration is OPEN, then complete the following steps.
	Verify that all OPEN penetrations can be CLOSED within the following time limits for Refueling Integrity.
Standard:	Examinee determines this step is not applicable.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Performance Step:	C19.9, step 5.2.5:
Critical <u>N</u>	If an alternate isolation is to be used, then complete the following steps:
24 Jamel,	
Standard:	Examinee determines this step is not applicable.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Comments.	
Performance Step: Critical Y	C19.9, step 5.2.6:
Critical 1	In Table 1, log active time, date, and your initials.
Standard:	Examinee enters current time, date, and their initials in Table 1 per key ATTACHMENT 1.
Evaluator Notes:	 Examinee may give approval for alternate opening control via Table 1OR on PINGP 1173. If examinee gives approval via PINGP 1173, then this step is NOT critical. Only the examinee's initials, for the purpose of approving alternate penetration closure control, are critical in this step. If examinee does not enter time and date, then this is NOT a JPM failure.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	

Terminating Cues:		
Stop Time:		

ATTACHMENT 1

PRAIRIE ISLAND NUCLEAR GENERATING PLANT

OPERATING PROCEDURE

C

CONTAINMENT BOUNDARY CONTROL DURING MODE 5, COLD SHUTDOWN AND MODE 6, REFUELING

NUMBER:	
	C19.9
REV:	20
Page	21 of 23

Table 1 Containment Boundary Log For Inventory/Refueling Integrity

DEN	OUE.		DE A CON ECD	CLOSURE RESPONSIBILITY		ВС	UNDAR	Y STAT	ับร	
PEN NO.	CHECK IF:		REASON FOR CHANGE	& CONTACT		ACTIVE		INACTIVE		
	ALT ISOL	OPEN PENT	(WR#, SP#, ETC)	NUMBER	TIME	DATE	INIT	TIME	DATE	INIT
				NOTE: MUST BE AVAILABLE AT ALL TIMES						
Maint Airlock		✓	C19.10.2.3	C19.10 AOP1 BEEPER *4536						
Pers Airlock		✓	C19.10.2.3	C19.10 AOP1 BEEPER *4536						
37B		X	WO# 1234567	PAGER 7530	TIME	CURRENT DATE	INITIALS			

ATTACHMENT 2

PINGP 1173, Rev. 2 Page 1 of 2 (FRONT) Document Type: 4.907 Retention: 2 years

SUBSTITUTE PENETRAT	TION CONTROL METHOD
PART I	
PENETRATION NUMBER37B	UNIT 1 ⊠ UNIT 2 □
PENETRATION DESCRIPTION MV-32377, 11 (CFCU ISOL (or similar description)
PENETRATION LOCATION Aux Bldg, elev	. 746', J.9 / 6.3 (or similar description)
PART II OPENINGS	PART III ALTERNATE ISOLATION
SUPERVISOR OR DESIGNEE	WORK ORDER NO
FOR CLOSURE JOHN SMITH PAGER NUMBER PGR # 7530	ALTERNATE ISOLATION ID
ESTIMATED TIME FOR CLOSURE: MINUTES FOR EQUIPMENT HATCH ONLY (DURING REFUELING INTEGRITY) ESTIMATED TIME FOR COVERING: MINUTES	ATTACH "Tag Section" TO THIS FORM
PROCEDURE and DESC. OF CLOSURE METHOD: W/O 1234567	
LOCALMANUAL CLOSURE OF MOV	SS VERIFICATION:
SS VERIFICATION	ISOLATION REVIEWED
Time to boiling from Shutdown Safety Assessment min.	ISOLATION INSTALLED AND IV ACCEPTABLE
Verify Estimated closure time(s) meets C19.9 requirements: YES (or similar affirmative answer)	
Person designated for closure is available and knowledgeable about closure req., time, and the applicable procedure. Log on back.	
DATE: CURRENT DATE TIME: CURRENT TIME S	SS: SIGNATURE

PINGP 1173, Rev. 2 Page 2 of 2 (BACK)

CLOSURE RESPONSIBILITY SIGN-OFF SHEET

	NAME	DATE	TIME IN	TIME OUT	COMMENTS
	JOHN SMITH	CURRENT DATE	CURRENT TIME		
1					

TURNOVER SHEET

INITIAL CONDITIONS:

- Unit 1 is in MODE 5.
- 11 CFCU is isolated for maintenance by CLEARANCE ORDER # 54321.
- Applicable section of C19.9-1, INVENTORY AND REFUELING INTEGRITY CONTAINMENT BOUNDARY CHECKLIST – UNIT 1, for 11 CFCU isolation is available for review.
- MV-32377, 11 FC CLG WTR INLT ISOL MV, is required to be OPEN per Maint. Work Order # 1234567.
- MV-32377 is located in the Auxiliary Building, Elevation: 746', J.9 / 6.3.
- Per W/O # 1435123, the closure method is LOCAL, MANUAL closure of MOV.
- Penetration closure responsibility belongs to Non-Licensed Operator John Smith, pager number 7530.
- Closure can be attained in 5 MINUTES.
- Shutdown Safety Assessment Time to Boil is 13 MINUTES.
- No other containment penetrations are open.

INITIATING CUES:

• As the Unit 1 Shift Supervisor, complete steps 5.2.1 through 5.2.6 of C19.9, Containment Boundary Control during MODE 5, Cold Shutdown and MODE 6, Refueling, for INVENTORY INTEGRITY ONLY.

PRAIRIE ISLAND NUCLEAR GENERATING PLANT

INTEGRATED CHECKLIST

C

INVENTORY AND REFUELING INTEGRITY CONTAINMENT BOUNDARY CHECKLIST - UNIT 1

C19.9-1

REV: 25

Page 22 of 41

11 CONTAINMENT FAN COIL



Select Option 1 or Option 2. N/A the unused option.

OPTION 1 - 11 FAN COIL IN SERVICE

PEN#	COMPONENTS	DESCRIPTION	STATUS	INITIAL	IV
37B 38B	11 FCU	11 FAN COIL UNIT FACES AND PIPING INSIDE CONTAINMENT	INTACT	N/A	N/A

OPTION 2 - 11 FAN COIL ISOLATED

PEN#	COMPONENTS	DESCRIPTION	STATUS	INITIAL	IV
37B	MV-32377	11 FC CLG WTR INLT ISOL MV ST 54321	CLOSED	4	se
	CS-46487	11 FCU CLG WTR INLET ISOL MV-32377 ES ST 54321	AUTO/ CLOSED	M	E
	MCC 1L1-D2 BKR 112E-3	11 FCU CLG WTR INLT ISOL MV-32377 ST_5432(_	OFF	₩	SL
	CL-57-3	11 CONTAINMENT FAN COIL UNIT - RELIEF VLV	INTACT	4	Se

PEN#	COMPONENTS	DESCRIPTION	STATUS	INITIAL	IV
38B	CL-22-1	11 CNTMT FCU OUTLET PRESSURIZATION ISOL ST _54321	CLOSED	Ш	×
	MV-32133	11 FC CLG WTR RTRN ISOL MV B ST _54321	CLOSED	₩	51
	CS-46014	11 FCU CLG WTR RETURN ISOL MV-32133 ES ST	AUTO/ CLOSED	M	SL
	MCC 1L1-D1 BKR 112E-2	11 FCU CLG WTR RTRN ISOL MV-32133 ST	OFF	₩.	St

0	Xcel Energy
---	--------------------

JOB PERFORMANCE MEASURE (JPM)

SITE:	PRAIRIE ISLAND							
JPM TITLE:	REVIEW EMERGENCY	NOTIFICATIO	N REPORT					
JPM NUMBER:	ADMIN-94	REV.	0					
RELATED PRA INFORMATION:	NONE							
TASK NUMBERS / TASK TITLE(S):	SS 344 023 03 03 000 / EMERGENCY DIRECTO		GENCY RESP	ONSE FOR THE				
K/A NUMBERS:	2.4.40 (2.7/4.5)	2.4.40 (2.7/4.5)						
APPLICABLE METHOD C	F TESTING:							
	Discussion:	Simulate/wal	kthrough:	Perform:	X			
EVALUATION LOCATION	l: In-Plant:		Control Room:					
	Simulator:		Other:	X				
	Lab:							
Time for Completion	n: 10 Minutes		Time Critical:	YES				
Alternate Path:	NO							
TASK APPLICABILITY:	SRO: X RO:	NLC	O					
Additional site-specific sign	natures may be added as	desired.			7			
Developed by:	Shawn Sarra	asin		3/13/2016				
	Develope	r		Date				
Validated by:	Justin Hası	ner		3/15/2016				
	Validator		of 1\	Date				
(See JPM Validation Check	ansi, Allachinen	ц 1 <i>)</i>					
Approved by:	Mike Peters			3/25/2016				
	Training Supe	rvisor		Date				

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:

- Catastrophic damage occurred to the Unit 1 Main Turbine Generator.
- A turbine blade missile resulted in VISIBLE damage to the Control Room penetrations to the Turbine Building.
- NO radiological releases are in progress.
- The Shift Manager declared an ALERT for HA1.4 at 1005 AM on June 3, 2016.
- The Shift Manager has completed filling out the PINGP 577, Emergency Notification Report Form.
- The completed PINGP 577 (ATTACHMENT 4) is provided.
- A screenshot of U1 EPZ Map and Met Summary ERCS Screen (ATTACHMENT 5) is provided.
- It is currently 1010 AM on June 3, 2016.

INITIATING CUES:

- Review the filled out PINGP 577, Emergency Notification Report Form.
- Report any discrepancies to the evaluator.
- Determine if the Emergency Notification Report Form is ready to be given to the Emergency Communicator to be faxed out.
- This JPM is TIME CRITICAL.

NOTE: RECORD THE START TIME ON THE NEXT PAGE AS THE TIME WHEN THE EXAMINEE TELLS YOU THEY ARE READY TO BEGIN. THE TIME CRITICAL PORTION OF THIS JPM BEGINS WHEN THE EXAMINEE REVIEWS THE TURNOVER INFORMATION AND TELLS THE EXAMINER THAT HE/SHE IS READY TO BEGIN. THE ELAPSED TIME MUST BE LESS THAN 10 MINUTES.

JPM PERFORMANCE INFORMATION

Required Materials:	Consumable copy of PINGP 577 (including instructions).
General	PINGP 577, EMERGENCY NOTIFICATION REPORT FORM F SWI O-200.4, EP CLASSIFICATION EXPECTATIONS
	e
	f
	e
	r
	€
	n C
	C e
	S
	:
Task	Examinee identifies BOTH of the errors and determines the PINGP 577 form is \$ NOT ready to be given to the Emergency Communicator within 10 minutes of t the start time.
	a
	n
	c
	a
	r
	c
	S
	:
Start Time:	
the examinee.	g "Evaluator Cues" to the examinee, care must be exercised to avoid prompting Typically cues are only provided when the examinee's actions warrant receiving (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:	PINGP 577 Block 1						
Critical <u>N</u>	1. REASON FOR CAL (A) nitial Report [B] Emergency Class Change [C] PAR Change [D] Release Status Change Only						
Standard:	Examinee determines there are NO discrepancies with PINGP 577 Block 1.						
Performance:	SATISFACTORY UNSATISFACTORY						
Comments:							
<u></u>							
Performance Step: Critical <u>N</u>	PINGP 577 Block 2 2. STATUS ACTUAL EVENT						
	(B) DRILL/EXERCISE						
Standard:	Examinee determines there are NO discrepancies with PINGP 577 Block 2.						
Performance:	SATISFACTORY UNSATISFACTORY						
Periormance.							
Comments:							
Comments:	PINGP 577 Block 3 3. AFFECTED STATION						
Comments: Performance Step:	PINGP 577 Block 3						
Comments: Performance Step:	PINGP 577 Block 3 3. AFFECTED STATION						
Comments: Performance Step: Critical N	PINGP 577 Block 3 3. AFFECTED STATION PRAIRIE ISLAND NUCLEAR GENERATING PLANT						

Performance Step:	PINGP 577 Block 4					
Critical N	4. ONSITE CLASSIFICATION					
<u> </u>	[A] UNUSUAL EVENT					
	(B) LERT					
	ICI SITE AREA EMERGENCY					
	[D] GENERAL EMERGENCY					
	[D] GENERAL EMERGENCY [E] RECOVERY					
	[F] TERMINATED					
	[F] TERMINATED					
Standard:	Examinee determines there are NO discrepancies with PINGP 577 Block 4.					
Performance:	SATISFACTORY UNSATISFACTORY					
Comments:						
Comments.	·					
Performance Step:	DINCD 577 Plack 5					
Critical N	5. TIME & DATE OF CLASSIFICATION / PAR CHANGE / TERMINATION					
01111001 <u>11</u>	[A]CLASSIFICATION TIME 1005 DATE 6/3/2016 EAL# HA1.4					
	[B] PAR CHANGE TIME DATE					
	[C] TERMINATION TIME DATE					
	[D] RELEASE STATUS CHANGE ONLY					
Standard:	Examinee determines there are NO discrepancies with PINGP 577 Block 5.					
Performance:	SATISEACTORY LINGATISEACTORY					
Performance.	SATISFACTORY UNSATISFACTORY					
Comments:						
Odininonto.						
Performance Step:	PINGP 577 Rlock 6					
Critical Y	6. EVENT RELEASE STATUS					
<u> </u>						
	(A) NONE (B) OCCURRING (C) TERMINATED					
Ctandond,	Consider a determine plack C is incorrectly appointed with values at the se					
Standard:	Examinee determines Block 6 is incorrectly annotated with release status as "TERMINATED" instead of "NONE".					
	TERMINATED HISTEAU OF NOINE.					
Evaluator Cue:	If the examinee returns the form to the evaluator prior to identifying BOTH errors,					
	instruct the examinee to continue reviewing the document for additional errors.					
Performance:	SATISFACTORY UNSATISFACTORY					
Comments:						

Performance Step: Critical <u>N</u>	PINGP 577 Block 7 7. TYPE OF RELEASE
	(A)NOT APPLICABLE [B] AIRBORNE
	[C] LIQUID
Standard:	Examinee determines there are NO discrepancies with PINGP 577 Block 7.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	
Douformon Cham	DINIOD F77 Disale 0
Critical N	 PINGP 577 Block 8 WIND DIRECTION (Use current 15 minute average and Table 1 to choose currently affected downwind Sectors, if < 5 mph all sectors are affected.)
	FROM 141.3 DEGREES
	DOWNWIND SECTORS A B C D E F G H J K L M N P Q R (Circle currently affected sectors.)
Standard:	Examinee determines there are NO discrepancies with PINGP 577 Block 8.
Performance:	SATISFACTORY UNSATISFACTORY
	·
Performance:	·
Performance:	SATISFACTORY UNSATISFACTORY
Performance: Comments: Performance Step:	SATISFACTORY UNSATISFACTORY PINGP 577 Block 9 9. WIND SPEED & STABILITY CLASS(Use
Performance: Comments: Performance Step:	PINGP 577 Block 9 9. WIND SPEED & STABILITY CLASS(Use current 15 minute average.)
Performance: Comments: Performance Step:	PINGP 577 Block 9 9. WIND SPEED & STABILITY CLASS(Use current 15 minute average.) MILES/HR.:11.3 STABILITY CLASS: A B C D E F G
Performance: Comments: Performance Step: Critical N	PINGP 577 Block 9 9. WIND SPEED & STABILITY CLASS (Use current 15 minute average.) MILES/HR.:

Performance Step: Critical <u>Y</u>	PINGP 577 Block 10 10. PRECAUTIONARY MEASURES and PROTECTIVE ACTION RECOMMENDATIONS (Use Table 1 to choose affected downwind Sectors and geopolitical Subareas.) [A] NONE
	
	[B] EVACUATE (or SHELTER) SECTORS OUT TO _2_ MILES EVACUATE (or SHELTER) SECTORS FROM _2_ MILES TO _5_ MILES
	EVACUATE (or SHELTER) SECTORS FROM 5 MILESTO 10 MILES
	Affected SUBAREAS: (circle all that apply) 25N 5E 5S 5W 10NW 10N 10NE 10E 10SE 10SW 10W
	AND PUBLIC IN THOSE AFFECTED SUBAREAS TAKE KI IF AVAILABLE;
	AND REMAINDER OF PLUME EPZ TO MONITOR RADIO/TV BROADCASTS FOR FURTHER INFORMATION. (Clarifying notes, if needed)
	[C] PRECAUTIONARY MEASURE FOR CASINO SHUTDOWN AND DISMISSAL OF STAFF AND PATRONS.
	PRECAUTIONARY MEASURE TO ADVISE CASINO AND RESIDENTS WITHIN A 2 MILE RADIUS TO STAY INDOORS AND CONTINUE TO MONITOR RADIO/TV BROADCASTS FOR FURTHER INFORMATION.
	[E] OTHER:
Standard:	Examinee determines Block 10 is incorrectly annotated with "D" circled for precautionary measure instead of "A" being circled for no precautionary measures or protective action recommendations.
Evaluator Cue:	If the examinee returns the form to the evaluator prior to identifying BOTH errors, instruct the examinee to continue reviewing the document for additional errors.
Performance: Comments:	SATISFACTORY UNSATISFACTORY
- ·	
Performance Step: Critical <u>N</u>	PINGP 577 Block 11 11. ADDITIONAL INFORMATION (Apply the EAL Gum Label or write the event descriptions based on the EAL. If PAR Change, write "None", "PAR Change" or other PAR information. If Release Status Change Only, specify time of change. If terminating, specify reason.)
	HA1.4 Turbine failure-generated missiles result in any VISIBLE DAMAGE to or penetration of any of the following plant areas (Table H-1).
Standard:	Examinee determines there are NO discrepancies with PINGP 577 Block 11.
Performance:	SATISFACTORY UNSATISFACTORY
Comments:	

Performance Step: Critical <u>N</u>	PINGP 577 Block 12 APPROVAL SIGNATURE
	Jehn Smith EMERGENCY DIRECTOR/EMERGENCY MANAGER
Standard:	Examinee determines there are NO discrepancies with PINGP 577 Block 12.
Performance: Comments:	SATISFACTORY UNSATISFACTORY

Performance Step: Critical <u>Y</u>	SWI O-200.4 Step 6.9 When the SM has completed the PINGP 577, including signing the PINGP 577, then they will relieve the STA/3 rd SRO from oversight. The STA/3 rd SRO will then perform a peer check of the PINGP 577, utilizing the MET Data printed out by the SEC.				
Standard:	Examinee determines the PINGP 577 form is NOT ready to be given to the Emergency Communicator within 10 minutes of the start time.				
Evaluator Cue:	If the examinee returns the form to the evaluator prior to identifying BOTH errors, instruct the examinee to continue reviewing the document for additional errors.				
Performance:	SATISFACTORY UNSATISFACTORY				
Comments:					
Terminating Cues:	When the examinee has identified at BOTH of the errors and determined the PINGP 577 form is NOT ready to be given to the Emergency Communicator within 10 minutes of the start time, then this JPM is complete.				
Stop Time:					

TURNOVER SHEET

INITIAL CONDITIONS:

- Catastrophic damage occurred to the Unit 1 Main Turbine Generator.
- A turbine blade missile resulted in VISIBLE damage to the Control Room penetrations to the Turbine Building.
- NO radiological releases are in progress.
- The Shift Manager declared an ALERT for HA1.4 at 1005 AM on June 3, 2016.
- The Shift Manager has completed filling out the PINGP 577, Emergency Notification Report Form.
- The completed PINGP 577 (ATTACHMENT 4) is provided.
- A screenshot of U1 EPZ Map and Met Summary ERCS Screen (ATTACHMENT 5) is provided.
- It is currently 1010 AM on June 3, 2016.

INITIATING CUES:

- Review the filled out PINGP 577, Emergency Notification Report Form.
- Report any discrepancies to the evaluator.
- Determine if the Emergency Notification Report Form is ready to be given to the Emergency Communicator to be faxed out.
- This JPM is TIME CRITICAL.

PINGP 577, Rev 57 Page 1 of 9 Doc Type/Sub Type: N/A Retention: N/A

EMERGENCY NOTIFICATION REPORT FORM

1.	REASON FOR CAL [A] nitial Repo	ort [B] Emergency Class C	Change	[C] P	AR Change [D] Release	Status Change Only
2.	STATUS	3. AFFECTED STATIO	<u>N</u>			
	[A] ACTUAL EVENT	PD NDIE IOI AN			OFFICE ATIMO DI ANIT	
	(B) DRILL/EXERCISE				GENERATING PLANT	
4.	ONSITE CLASSIFICATION	_			ON / PAR CHANGE / TE	
	IAI UNUSUAL EVENT IBI ALERT	[A]CLASSIFICATION	N T	ΓIME _	1005 DATE 6/3/20	016 EAL# HA1.4
	C SITE AREA EMERGENCY	[B] PAR CHANGE	Т	TIME _	DATE	
	[D] GENERAL EMERGENCY	[C] TERMINATION	Т	TIME	DATE	
	[E] RECOVERY		[D] RELEASE STATUS CHANGE ONLY			
6	[F] TERMINATED EVENT RELEASE STATUS	[D] HELEAGE STATE	00 011	HINGL		
ъ.	EVENT RELEASE STATUS				7. TYPE OF RELEASE [A] NOT APPLICABLE	
	[A] NONE [B] OCCURE	RING (C)TERMINA	ATED		(A)NOT APPLICABLE	
		sinute average and Table 1	to oboo		o WIND CDEED & CTA	[C] LIQUID
8.	WIND DIRECTION (Use current 15 m currently affected downwind Sectors,				 WIND SPEED & STA current 15 minute ave 	
	FROM 141.3 DEGREES	·		,	MILES/HR.:11	.3
	DOWNWIND SECTORS ABCD	F F G H J K I M N P	O R	`		A B ODEFG
(C	rcle currently affected sectors.)	ET GHOKE MAY	Q II		CIABILITI CLACC.	unstable <= => stable
10	PRECAUTIONARY MEASURES ar	nd PROTECTIVE ACTION	RECO	MMEN	I <mark>DATIONS</mark> (Use Table 1 to	choose affected
	downwind Sectors and geopolitical (IA) NONE	Subareas.)				
	[B] EVACUATE (or SHELTER)	S	SECTOR	RS OU	IT TO 2 MILES	
	EVACUATE (or SHELTER)					IILES
		SECTORS FROM 5 MILESTO 10 MILES				
	Affected SUBAREAS: (circle a					
	AND PUBLIC IN THOSE AFFE					
	AND REMAINDER OF PLUME (Clarifying notes, if needed)	EPZ TO MONITOR RADIO	O/TV BF	ROAD	CASTS FOR FURTHER I	NFORMATION.
	[C] PRECAUTIONARY MEASURE	FOR CASINO SHUTDOW	N AND	DISM	ISSAL OF STAFF AND P	ATRONS.
	(D) PRECAUTIONARY MEASURE					
	INDOORS AND CONTINUE TO	MONITOR RADIO/TV BR	ROADC	ASTS	FOR FURTHER INFORM	ATION.
	[E] OTHER:					
11.	the event descriptions based on the			APPR	ROVAL SIGNATURE	
	"None", "PAR Change" or other PAI	R information. If Release			John Smith	
	Status Change Only, specify time o reason.)	f change. If terminating, spe	ecify		GENCY DIRECTOR/EMERO	
	12. <u>EMERGENCY COMMUNICATOR</u> (<i>Print Name</i>)					
	HA1.4 (Circle or indicate the appropriate callback number.)					nte callback number.)
	Turbine failure-generated m	nissiles result in any			SC Callback (651) 388-1	
	VISIBLE DAMAGE to or pe	_	∍	• (Other Callback	
	following plant areas (Table	: H-1).			Security Event SEC	
			OF Callback (651) 388-1			
41.	P. 1 11 11 1 2	12 22	0 5		Backup EOF Callback (612	,
*Itá	lic words provide guidance for the pe	rson completing this form.	See Di	irection	ns tor more guidance on c	ompleting form

