SRO ADMIN A.1.a

Calculate Subcooling Margin

Task:	Calculate Subcooling	with no Subco	ooling Monitors a	and NO Plant compute	ers available.
Task #:	3440100302				
Task Standard:	Examinee calculates F SI Termination is perm	RCS subcoolii nissible.	ng of 49 degrees	s based on initial cond	itions and determines
Time Critical Task	K: YES:	NO:	X		
K/A Reference/Ra	tings: 2.1.45 (4.3)				
Method of Testing	g:_				
Simulated Perform	mance:	Actual Perf	ormance:	X	
Evaluation Metho	<u>d:</u>				
Simulator	In-Plant	Classro	om X	_	
Main Control Roo	m	Mock-u	p	_	
Performer:	Trai	nee Name			
Evaluator:		/ Name / Signatu	ıre		DATE
Performance Ratio		UNSAT:			DATE
Validation Time:	14 min		Total Time:		
					
Performance Time	e: Start Time:		Finish Time:		
		CON	IMENTS		

- 1. Critical steps are identified in step SAT/UNSAT column by bold print 'Critical Step.'
- 2. Any UNSAT requires comments.

Tools/Equipment/Procedures Needed:

- 1. Calculator
- 2. 2-68-PIP-004 Saturation Table
- 3. AOP-C.04 SHUTDOWN FROM AUXILIARY CONTROL ROOM

References:

	Reference	Title	Rev No.
1.	AOP-C.04	SHUTDOWN FROM AUXILIARY CONTROL	25
		ROOM	

Read to the examinee:

DIRECTIONS TO TRAINEE:

I will explain the initial conditions, and state the task to be performed. All control room steps shall be performed for this JPM. I will provide initiating cues and reports on other actions when directed by you. When you complete the task successfully, the objective for this job performance measure will be satisfied. Ensure you indicate to me when you understand your assigned task. To indicate that you have completed your assigned task return the handout sheet I provided you.

HAND JPM BRIEFING SHEET TO EXAMINEE AT THIS TIME!

INITIAL CONDITIONS:

- 1. Unit 2 is in MODE 3
- 2. RCS Loop 1 Th is 540 Loop 2 Th is 545, Loop 3 Th is 560 and Loop 4 Th is 565.
- 3. RCS Pressure is 1700 psig
- 4. An event has occurred requiring Control Room Abandonment.
- 5. A valid SI signal has occurred.
- 6. AOP-C.04 SHUTDOWN FROM AUXILIARY CONTROL ROOM is in progress at step 26 RNO.

- 1. You are to calculate RCS subcooling using AOP-C.04 SHUTDOWN FROM AUXILIARY CONTROL ROOM Appendix F and the provided saturation table.
- 2. When you have calculated RCS subcooling, then determine if SI flow is required based on subcooling.
- 3. Inform the evaluator when you are complete.

	Start Ti	me
STEP 1 :	Obtain a copy of 2-68-PIP-004 Saturation Table and AOP-C.04 SHUTDOWN FROM AUXILIARY CONTROL ROOM	SAT
		UNSAT
<u>Standard</u> :	Examinee obtains a copy of 2-68-PIP-004 Saturation Table and AOP-C.04 SHUTDOWN FROM AUXILIARY CONTROL ROOM Appendix F.	
<u>Cue</u>	Provide a copy of 2-68-PIP-004 Saturation Table and AOP-C.04 SHUTDOWN FROM AUXILIARY CONTROL ROOM Appendix F to the examinee.	
<u>Comment</u>		
		L
Procedure Note	NOTE 1 Conditions (such as an unisolable LOCA) which require maintaining ECCS flow are outside the scope of this procedure.	
Procedure Note	NOTE 2 Arc flash protection requirements are waived in this procedure.	
STEP 2 :	1. IDENTIFY applicable unit: • Unit 1 • Unit 2	SAT UNSAT
<u>Standard</u> :	Examinee records Unit 2 as the applicable unit based on information provided in the initiating cue.	

Comment

STEP 3 :	IF terminating spurious SI during Appendix R fire event, THEN GO TO Note prior to Step 5.	SAT UNSAT
<u>Standard</u> :	Examinee determines step is N/A based on information provided in the initiating cue.	
<u>Comment</u>		
STEP 4 :	DETERMINE RCS subcooling: a. RECORD RCS pressure. [L-10]psig	SAT UNSAT
<u>Standard</u> :	Examinee records RCS pressure of 1700 based on information provided in the initiating cue.	Critical Step
Comment		
Examiner Note	This step is critical because the correct answer will be calculated only if the information placed into the calculation is correct.	

STEP 5 :	DETERMINE RCS subcooling: b. DETERMINE saturation temperature for current RCS pressure USING posted saturation table. [L-10]	SAT UNSAT
<u>Standard</u> :	Examinee determines the saturation temperature of 614 based on information provided in 2-68-PIP-004 Saturation Table.	Critical Step
Comment		
Examiner <u>Note</u>	This step is critical because the correct answer will be calculated only if the information placed into the calculation is correct.	
STEP 6 :	3. DETERMINE RCS subcooling: c. RECORD highest RCS T-hot. [L-10]°F	SAT UNSAT
<u>Standard</u> :	Examinee records RCS the highest RCS Thot of 565 based on information provided in the initiating cue.	Critical Step
Comment		
Examiner Note	This step is critical because the correct answer will be calculated only if the information placed into the calculation is correct.	

STEP 7:	3. DETERMINE RCS subcooling:	SAT
	d. CALCULATE subcooling:	UNSAT
	sat temp T-hot subcooling	Critical Step
Standard:	The examinee calculates a subcooling value of 49	
Comment		
Examiner Note	This step is critical because SI flow cannot be terminated until RCS subcooling is calculated at a value of greater than 40 deg.	
STEP 8 :	4. MONITOR SI flow NOT required: • RCS subcooling (step 3) greater than 40°F.	SAT UNSAT Critical Step
<u>Standard</u> :	Examinee determines SI flow is NOT required based on RCS subcooling calculated is greater than 40°F.	
Comment		
Examiner Note	This step is critical because SI flow cannot be terminated until RCS subcooling is calculated at a value of greater than 40 deg.	
Terminating Cue:	When the examinee determines that RCS subcooling is greater than the SI flow termination requirement, provide the following cue, "Another Operator will complete the remaining steps of this procedure."	STOP
	Stop Tin	ne

JPM BRIEFING SHEET

The examiner will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

INITIAL CONDITIONS:

- 1. Unit 2 is in MODE 3
- 2. RCS Loop 1 Th is 540 Loop 2 Th is 545, Loop 3 Th is 560 and Loop 4 Th is 565.
- 3. RCS Pressure is 1700 psig
- 4. An event has occurred requiring Control Room Abandonment.
- 5. A valid SI signal has occurred.
- 6. AOP-C.04 SHUTDOWN FROM AUXILIARY CONTROL ROOM is in progress at step 26 RNO.

INITIATING CUES:

- You are to calculate RCS subcooling using AOP-C.04 SHUTDOWN FROM AUXILIARY CONTROL ROOM Appendix F and the provided saturation table.
- 2. When you have calculated RCS subcooling, then determine if SI flow is required based on subcooling.
- 3. Inform the evaluator when you are complete.

Acknowledge to the examiner when you are ready to begin.

HAND THIS PAPER BACK TO YOUR EVALUATOR WHEN YOU HAVE SATISFACTORILY COMPLETED THE ASSIGNED TASK.

SRO ADMIN A.1.b

Review and Evaluate Shift Daily Surveillance Log Mode One

Review and Evaluate Shift Daily Surveillance Log Mode One								
SRO 1190070301 Analyze operating loop for trends and out of specification conditions								
Correctly review data acceptable criteria an	on Appendix nd identify all	A to determine v	whether or not t tion statements	he surveillance meets				
x: YES:	NO:	X						
tings: 2.1.18 (3.6/	3.8)							
<u>ı:</u>								
nance:	Actual Per	formance:	X					
d:								
In-Plant	Classr	oom X						
m	Mock-	up						
Tra	ainee Name							
	/							
	Name / Signa	ture		DATE				
ng: SAT:	UNSAT:							
24 minutes		Total Time:						
e: Start Time:		Finish Time:						
	CO	MMENTS						
	SRO 1190070301 Ar Correctly review data acceptable criteria ar c: YES: tings: 2.1.18 (3.6/	SRO 1190070301 Analyze operation Correctly review data on Appendix acceptable criteria and identify all set. YES: NO: atings: 2.1.18 (3.6/3.8) G: Actual Period: Mock Trainee Name / Name / Signal and identify all set. Trainee Name / Name / Signal and identify all set. Zet minutes Start Time:	SRO 1190070301 Analyze operating loop for trend Correctly review data on Appendix A to determine acceptable criteria and identify all required LCO acceptable criteria and identify all required LC	Correctly review data on Appendix A to determine whether or not to acceptable criteria and identify all required LCO action statements c: YES: NO:X	SRO 1190070301 Analyze operating loop for trends and out of specification conditions Correctly review data on Appendix A to determine whether or not the surveillance meets acceptable criteria and identify all required LCO action statements c: YES: NO:X tings: 2.1.18 (3.6/3.8) ### Actual Performance:X d: In-Plant ClassroomX Mock-up Trainee Name / Name / Signature DATE ng: SAT: UNSAT: 24 minutes Total Time: Start Time: Finish Time:			

- 1. Critical steps are identified in step SAT/UNSAT column by bold print 'Critical Step.'
- 2. Any UNSAT requires comments.

Tools/Equipment/Procedures Needed:

- 1. 1-SI-OPS-000-002.0, Shift Log, Appendix A
- Technical Specifications, Unit 1
- 3. Chronological Test Log

References:

	Reference	Title	Rev No.
1.	1-SI-OPS-000-002.0	Shift Log, Appendix A	96
2.		Unit 1 Technical Specifications	

Read to the examinee:

DIRECTIONS TO TRAINEE:

I will explain the initial conditions, and state the administrative task to be performed. I will provide initiating cues and reports on other actions when directed by you. When you complete the task successfully, the objective for this job performance measure will be satisfied. Ensure you indicate to me when you understand your assigned task. To indicate that you have completed your assigned task return the handout sheet I provided you.

HAND JPM BRIEFING SHEET TO EXAMINEE AT THIS TIME!

INITIAL CONDITIONS:

- Unit 1 has been operating at 100% rated thermal power and has been stable for the last 30 days. No LCO entries at this time.
- 2. Portions of the field data have been entered by ROs and AUOs.
- 3. Data takers are present.
- 4. You are the Unit Supervisor and the Shift Manager has assigned you to review only the data that is currently logged on 1-SI-OPS-000-002.0, "Shift Log, Appendix A" for the 0630-1830 shift for discrepancies and take appropriate action(s) if any, once the review is complete.

- The Shift Manager directs you to review the data logged on the sections of Appendix A. (Another SRO will review the rest of the SI-2 data)
- 2. When you have finished reviewing the assigned pages of Appendix A, Identify and address any deviations on the Chronological Test Log.
- 3. Notify the Shift Manager when you have completed your task.

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Sta	rt	Ti	m	۵
Sta	IL		н	u

STEP 1 :	Obtain a copy of 1-SI-OPS-000-002.0, Shift Log, Appendix A and a Chronological Test Log	SAT
		UNSAT
Standard:	Copy of 1-SI-OPS-000-002.0, Shift Log, Appendix A and a Chronological Test Log have been obtained.	
<u>Cue</u>	Provide a copy of a marked up Appendix A and a Chronological Test Log to applicant.	
Comment		

STEP 2 :	Reviews data for	SAT						
					UNSAT			
Standard:	233A recorded o	Applicant reviews readings for CST Level 0-LI-2-230A and 0-LI-2-233A recorded on the data sheet, determines that the values meets T.S. limit of ≥240,000 gallons.						
<u>Startaara</u> .	>240,000 gals	0-LI-2-230A	gals	300,000				
	Operable	0-LI-2-233A	Gals	320,000				
<u>Comment</u>		•	•					

STEP 3	Applicant	D < 6.0%. t reviews cur	rent readings for	e, check Operable Germany	sheet an	d determines	SAT UNSAT Critical Step
	that SG 2 identify th	2 Level channe associate gical Test Lo ecs: Action 9 Action 17	nel 2-LI-3-52 is no d Tech Spec LCC	ot within MCD of <6.0 Action and write the)%. The c	andidate will	(Shaded portions critical)
			Operable	#1 LI-3-42	%	44	
			Operable	#1 LI-3-39	%	42	
Standard:			Operable	#1 LI-3-38	%	45	
	SG Water Level Channel Deviation	Operable	#2 LI-3-55	%	46		
		Operable	#2 LI-3-52	%	38		
			Operable	#2 LI-3-51	%	42	
			Operable	#3 LI-3-97	%	44	
			Operable	#3 LI-3-94	%	44	
			Operable	#3 LI-3-93	%	45	
			Operable	#4 LI-3-110	%	46	
			Operable	#4 LI-3-107	%	44	
			Operable	#4 LI-3-106	%	42	
Examiner Note:	If asked: Respond as the RO who took the data that the MCB still indicates as transcribed onto the data sheet.						
Examiner Note:		revious da		SI-2 data, inform rumentation was			
Examiner Note:	If asked the color of the placard for 2-LI-3-52 (to deduce if it is a PAMS instrument), respond that it is a black placard.						
Comment							

STEP 4 :	Reviews data in S Check, and MCD	SAT UNSAT				
	Applicant reviews determines that the within ≤ 60 psig.					
		Operable	#1 PI-1-2A	psig	865	
		Operable	#1 PI-1-2B	psig	860	
		Operable	#1 PI-1-5	psig	860	
	Steam Line Pressure	Operable	#2 PI-1-9A	psig	860	
Standard:		Operable	#2 PI-1-9B	psig	860	
		Operable	#2 PI-1-12	psig	870	
		Operable	#3 PI-1-20A	psig	870	
		Operable	#3 PI-1-20B	psig	860	
		Operable	#3 PI-1-23	psig	870	
		Operable	#4 PI-1-27A	psig	870	
		Operable	#4 PI-1-27B	psig	850	
		Operable	#4 PI-1-30	psig	860	
Comment						

STEP 5 :	Reviews data in Shutdown Banks data table, check Operable and Rod Position Indication agree within < 12 steps						SAT UNSAT
	Applicant revie determines tha	et, steps.					
			COLR	Gr 1 Step	steps	228	
		A	**	Gr 1 RPIs	steps	230	-
			COLR	Gr 2 Step	steps	228	
	Shutdown Banks		**	Gr 2 RPIs	steps	225	
Ctondond.		В	COLR	Gr 1 Step	steps	228	
Standard:			**	Gr 1 RPIs	steps	224	
			COLR	Gr 2 Step	steps	228	
			**	Gr 2 RPIs	steps	224	
	·		COLR	Gr Step	steps	228	
		С	**	Gr RPIs	steps	224	
			COLR	Gr Step	steps	228	
	D	**	Gr RPIs	steps	226		
Comment							

STEP 6 :	Reviews data in Control Banks A & B data table (page 6),check Operable, and Rod Position Indication agree within < 12 steps						SAT UNSAT	
	Applicant reviews readings for Control Banks A & B on the data sheet, determines that the RPIs are operable and RPIs are within ≤ 12 steps.							
			COLR figure 1	Gr 1 Step	steps	228		
		A ontrol Rod	**	Gr 1 RPIs	steps	225		
Standard:	Control Rod		COLR figure 1	Gr 2 Step	steps	228		
	Banks		**	Gr 2 RPIs	steps	225		
			COLR figure 1	Gr 1 Step	steps	228		
		В	**	Gr 1 RPIs	steps	226		
			COLR figure 1	Gr 2 Step	steps	228		
			**	Gr 2 RPIs	steps	225		
Comment				•	1			

STEP 7 :	Reviews data in Control Banks C & D data table (page 7),check Operable, and Rod Position Indication agree within ≤ 12 steps						SAT UNSAT
	Applicant review determines that						
			COLR figure 1	Gr 1 Step	steps	228	
	Control Rod Banks	С	**	Gr 1 RPIs	steps	225	
<u>Standard</u> :			COLR figure 1	Gr 2 Step	steps	228	
			**	Gr 2 RPIs	steps	225	-
			COLR figure 1	Gr 1 Step	steps	220	
		D	**	Gr 1 RPIs	steps	222	-
			COLR figure 1	Gr 2 Step	steps	220	-
			**	Gr 2 RPIs	steps	225	
Comment							

STEP 8 :	Reviews data in ECCS Subsystem (page 13), checks TS limit "Valve Open".					SAT
						5146/11
<u>Standard</u> :	Applicant reviews determines that the indicate that the view On/Green lights C					
	ECCS Subsystem	Valve Open	1-HS-63-1A	1	√	
	Gubsystem	Valve Open	1-HS-63-22A	1	√	
Evaluators Note	If asked by applicant for the current indications for 1-HS-63-1A and/or 1-HS-63-22A on 1-M-6, respond that the Red lights are lit.					
Comment						

STEP 9 :	Leg during SI (pa	Reviews data in RWST Level and CNTMT Level for Auto Swapover Cold Leg during SI (page 13) data block, checks Operable, Channel Check, and MCD < 5% for RWST level and MCD < 6% for CNTMT sump level.						
	Applicant reviews of determines that the LI-63-52 at 91 The and write them on indicated level on 1 level is present (No Tech Spec: 3.3.2.1 Action 18	e MCI cand the C I-LI-6	D of ≤ 5% for R\ lidate will identif hronological Te 3-178 does not	WST level has t y the associated st Log. Applica	een e d Tech nt also	xceeded of Spec LCo	lue to 1- O Action es that	Critical Step (Shaded portions critical)
Standard:		R	Operable	1-LI-63-50	%	99		
	RWST Level	W S		1-LI-63-51	%	98		
	and CNTMT Level for Auto Swapover Cold Leg during SI	T		1-LI-63-52	%	91		
				1-LI-63-53	%	97		
		C Operable	Operable	1-LI-63-176	%	0		
		N M		1-LI-63-177	%	0		
		T		1-LI-63-178	%	2		
				1-LI-63-179	%	0		
Evaluators Note	If asked by app respond that th	licar e ind	nt for the curi	rent indication as listed in t	ns fo he tal	r RWST ble.	level,	
Evaluators Note	If asked by app Sump level, res							
EXAMINER NOTE:	If asked the color of the placard for 1-Ll-63-52 (to deduce if it is a PAMS instrument), respond that it is a white placard.							
Comment								

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Terminating Cue:	When the examinee determines acceptance criteria is NOT met, provide the following cue, "Another Operator will complete the remaining steps of this procedure."	STOP
		I—————————————————————————————————————

Stop	Time	
•		

JPM BRIEFING SHEET

DIRECTIONS TO TRAINEE:

The examiner will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

INITIAL CONDITIONS:

- Unit 1 has been operating at 100% rated thermal power and has been stable for the last 30 days. No LCO entries at this time.
- 2. Portions of the field data have been entered by ROs and AUOs.
- 3. Data takers are present.
- 4. You are the Unit Supervisor and the Shift Manager has assigned you to review only the data that is currently logged on 1-SI-OPS-000-002.0, "Shift Log, Appendix A" for the 0630-1830 shift for discrepancies and take appropriate action(s) if any, once the review is complete.

INITIATING CUES:

- 1. The Shift Manager directs you to review the data logged on the sections of Appendix A. (Another SRO will review the rest of the SI-2 data)
- 2. When you have finished reviewing the assigned pages of Appendix A, Identify and address any deviations on the Chronological Test Log.
- 3. Notify the Shift Manager when you have completed your task.

Acknowledge to the examiner when you are ready to begin.

HAND THIS PAPER BACK TO YOUR EVALUATOR WHEN YOU HAVE SATISFACTORILY COMPLETED THE ASSIGNED TASK.

SRO ADMIN A.2

Evaluate Arc Clothing Requirements and Tag Flash Verification Requirements

Task:	Evaluate Arc Clothing Requirements and Tag Verification Requirements				
Task #:	3420320302				
Task Standard:	The examinee determines the minimum protective clothing requirements for manipulating electrical breakers of a Flash Hood (ATPV 100 or 100 cal) and Flash Suit (ATPV 100 or 100 cal) during breaker manipulation and that independent verification is required when placing tags.				
Time Critical Tas	c: YES: NO:X				
K/A Reference/Ra	tings: 2.2.13 (3.8)				
Method of Testing	g:				
Simulated Perform	nance: Actual Performance: X				
Evaluation Metho	<u>d:</u>				
Simulator	In-Plant Classroom X				
Main Control Roo	m Mock-up				
Performer:	Trainee Name				
Evaluator:	/ Name / Signature DATE				
Performance Rati	ng: SAT: UNSAT:				
Validation Time:	15 min Total Time:				
Performance Time	e: Start Time: Finish Time:				
COMMENTS					

- 1. Critical steps are identified in step SAT/UNSAT column by bold print 'Critical Step.'
- 2. Any UNSAT requires comments.

Tools/Equipment/Procedures Needed:

- 1. NPG SPP-10.2, Clearance Procedure to Safely Control Energy
- 2. NPG-SPP-10.3, Verification Program
- 3. TI-300, Electrical Arc Flash Personal Protective Equipment & Protection Boundary Matrices
- 4. Copy of clearance 2- 82-1807

References:

	Reference	Title	Rev No.
1.	NPG SPP-10.2	Clearance Procedure to Safely Control Energy	1
2.	NPG-SPP-10.3	Verification Program	0
3.	TI-300	Electrical Arc Flash Personal Protective Equipment & Protection Boundary Matrices	19
4.	0-GO-10	ELECTRICAL APPARATUS OPERATION	45

Read to the examinee:

DIRECTIONS TO TRAINEE:

I will explain the initial conditions, and state the task to be performed. All control room steps shall be performed for this JPM. I will provide initiating cues and reports on other actions when directed by you. When you complete the task successfully, the objective for this job performance measure will be satisfied. Ensure you indicate to me when you understand your assigned task. To indicate that you have completed your assigned task return the handout sheet I provided you.

HAND JPM BRIEFING SHEET TO EXAMINEE AT THIS TIME!

INITIAL CONDITIONS:

- 1. Unit 2 is in Mode 1
- 2. Clearance 2- 82-1807 is being developed on Diesel 2A2 Starting Air Compressor.
- 3. The clearance will require opening Diesel 2A2 Starting Air Compressor breaker located on Diesel Aux Board 2A1-A.

- 1. You are the WCC SRO and will complete developing clearance 2-82-1807
- 2. You will identify:
 - a. The protective clothing requirements for the individual performing the breaker manipulation
 - b. The verification requirements for the actual placement of the clearance cards.
- 3. Inform the evaluator when you are complete.

04-	-4	T :		_
Sta	т	- 1 1	m	e

	- Contraction of the contraction	
STEP 1 :	Obtain a copy of clearance 2- 82-1807.	SAT UNSAT
<u>Standard</u> :	Copy of clearance 2- 82-1807 is obtained	
<u>Cue</u>	Provide a copy of clearance 2- 82-1807.	
Comment		
STEP 2 :	Obtain a copy of Tl-300, Electrical Arc Flash Personal Protective Equipment & Protection Boundary Matrices	SAT
		UNSAT
<u>Standard</u> :	Copy of TI-300, Electrical Arc Flash Personal Protective Equipment & Protection Boundary Matrices is obtained	
<u>Cue</u>	When directed, provide a copy of TI-300, Electrical Arc Flash Personal Protective Equipment & Protection Boundary Matrices.	
Comment		

STEP 3 :	Determine the MINIMUM Arc Flash protective clothing requirements above normal PPE for the individual opening Diesel 2A2 Starting Air Compressor breaker.	SAT UNSAT Critical Step		
<u>Standard</u> :	Examinee determines the MINIMUM Arc Flash protective clothing requirements above normal PPE for the individual opening Diesel 2A2 Starting Air Compressor breaker is a Flash Hood (ATPV 100 or 100 cal) and a Flash Suit (ATPV 100 or 100 cal).			
Comment				
Examiner Note:	The reference for the MINIMUM Arc Flash protective clothing requirements is contained in TI-300, Electrical Arc Flash Personal Protective Equipment & Protection Boundary Matrices Appendix A (Page 7 of 24)			
Examiner Note:	Appendix A (Page 7 of 24) ARC FLASH PERSONAL PROTECTIVE EQUIPMENT (PPE)/PROTECTIVE BOUNDARY MATRICES (cocation Working Distance Incident Energy Stownary (ATPV 8) (ATPV 8) (ATPV 10) (AT			
Examiner Note:	This step is critical because it identifies the minimum PPE required to complete the breaker manipulation.			

STEP 4 :	Obtain a copy of NPG-SPP-10.3, Verification Program	SAT UNSAT
<u>Standard</u> :	Copy of NPG-SPP-10.3, Verification Program is obtained.	
<u>Cue</u>	When directed, provide a copy of NPG-SPP-10.3, Verification Program.	
Comment		
STEP 5 :	Determine the MINIMUM verification requirements for the actual placement of the clearance cards	SAT UNSAT Critical Step
<u>Standard</u> :	Examinee determines the MINIMUM verification requirements for the actual placement of the clearance cards is independent verification	
<u>Comment</u>		
Examiner Note:	3.4.4 Independent Verification Requirements IV is used to confirm that an activity or condition has been implemented in conformance with specified requirements. The individual performing the IV shall physically check the condition without relying on observation or verbal confirmation by the initial performer. However, the independent verifier may be involved in unrelated portions of the same activity. IV is required for the following (except for components which meet the criteria in Section 3.4.5 for concurrent verification): E. Placement and release of hold order tags.	
Examiner Note:	The reference for the MINIMUM is NPG-SPP-10.3, Verification Program step 3.4.4.E	
Examiner Note:	This step is critical because it identifies the minimum verification requirement for clearance placement.	
Terminating Cue:	The task is complete when the Examinee returns the cue sheet to the examiner.	STOP

Sto	p Ti	me	

JPM BRIEFING SHEET

DIRECTIONS TO TRAINEE:

The examiner will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

INITIAL CONDITIONS:

- 1. Unit 2 is in Mode 1
- 2. Clearance 2- 82-1807 is being developed on Diesel 2A2 Starting Air Compressor.
- 3. The clearance will require opening Diesel 2A2 Starting Air Compressor breaker located on Diesel Aux Board 2A1-A.

INITIATING CUES:

- 1. You are the WCC SRO and will complete developing clearance 2- 82-1807
- 2. You will identify:
 - a. The protective clothing requirements for the individual performing the breaker manipulation
 - b. The verification requirements for the actual placement of the clearance cards.
- 3. Inform the evaluator when you are complete.

Acknowledge to the examiner when you are ready to begin.

HAND THIS PAPER BACK TO YOUR EVALUATOR WHEN YOU HAVE SATISFACTORILY COMPLETED THE ASSIGNED TASK.

SRO ADMIN A.3

Pre Job Analysis for Emergent Work in the RCA

Task:	Pre Job Analysis for Emergent Work in the RCA			
Task #:	3430290302			
Task Standard:	Examinee calculates a total dose of 160 mrem and based on that calculation, applies the result to On Line Work Management Appendix A to conclude the evolution is a category "High Risk."			
Time Critical Tasl	«: YES:	NO:X		
K/A Reference/Ra	tings: 2.3.13 (3.8	3)		
Method of Testing	g:			
Simulated Perfori	mance:	Actual Performanc	e: X	
Evaluation Metho	d:			
Simulator	In-Plant	Classroom	X	
Main Control Roo	m	Mock-up		
Performer:	Tra	ainee Name		
Evaluator:		/		
		/ Name / Signature		DATE
Performance Rati	ng: SAT:	UNSAT:	***	
Validation Time:	14 min	Total ⁻	Time:	
Performance Time	e: Start Time:	Finish	Time:	
		COMMENTS		

- 1. Critical steps are identified in step SAT/UNSAT column by bold print 'Critical Step.'
- 2. Any UNSAT requires comments.

Tools/Equipment/Procedures Needed:

- 1. NPG-SPP-07.1, On Line Work Management
- 2. Calculator
- 3. Survey map A216 U-1 Pipe Chase
- 4. Survey map A217 U-2 Pipe Chase
- 5. Survey map 408 U-1 Mixed Bed Valve Gallery
- 6. Survey map 417 U-2 Mixed Bed Valve Gallery

References:

	Reference	Title	Rev No.
1.	NPG-SPP-07.1	On Line Work Management	3
2.	RCI-3	PERSONNEL MONITORING	48

Read to the examinee:

DIRECTIONS TO TRAINEE:

I will explain the initial conditions, and state the task to be performed. All control room steps shall be performed for this JPM. I will provide initiating cues and reports on other actions when directed by you. When you complete the task successfully, the objective for this job performance measure will be satisfied. Ensure you indicate to me when you understand your assigned task. To indicate that you have completed your assigned task return the handout sheet I provided you.

HAND JPM BRIEFING SHEET TO EXAMINEE AT THIS TIME!

INITIAL CONDITIONS:

- 1. Unit 2 is in MODE 1
- 2. You are the WCC SRO and are performing a review of a work package to be merged into the schedule in two weeks.
- 3. The work is 2.5 feet from valve 2-63-750 Test Conn on RHR Suction from RWST located in the Auxiliary Bldg 653 elevation pipe chase.
- 4. The total time to perform the job is 12 min

- 1. Calculate the total dose that the worker will accumulate performing the job
- Using the total dose, perform an Impact Assessment of the level of risk while performing the task using NPG-SPP-07.1 On Line Work Management, Appendix A On Line Work Management Work Management Process Description.
- 3. Inform the evaluator when you are complete.

Sta	m	- 1 1	m	•
JLa	1 L			

STEP 1 :	Obtain the correct copy of a Survey map.	SAT
		UNSAT
		Critical step
<u>Standard</u> :	Examinee discriminates and chooses Survey map A217 U-2 Pipe Chase of the four given.	
	Provide a copy of the following survey maps:	
	Survey map A216 U-1 Pipe Chase	
<u>Cue</u>	Survey map A217 U-2 Pipe Chase	
	Survey map 408 U-1 Mixed Bed Valve Gallery	
	Survey map 417 U-2 Mixed Bed Valve Gallery	
<u>Comment</u>		
Examiner Note	Both the Unit 1 and Unit 2 Pipe Chase and Mixed Bed Valve Gallery survey maps are provided.	
Examiner Note	This step is critical because the examinee needs to differentiate between the survey maps to get the correct results.	

STEP 2 :	Calculate the dose	SAT UNSAT Critical step
<u>Standard</u> :	Examinee calculates a total dose of 160 mrem will be accumulated performing the task.	
<u>Comment</u>		
Examiner Note	This step is critical because the examinee needs to calculate the correct dose to get the correct result from the Impact Assessment.	
Examiner Note	The work will be performed near valve 2-63-750 Test Conn on RHR Suction from RWST. General area dose rate from survey map A217 from a hot spot in the area is 800 mr/hr. The job as indicated from the initiating cue will take 12 minutes. 800 mrem/hr X 60 min/1 hr ÷ 12 min = 160 mrem	
STEP 3 :	Obtain a copy of NPG-SPP-07.1 On Line Work Management Appendix A On Line Work Management Work Management Process Description.	SAT UNSAT
Standard:	Copy of NPG-SPP-07.1 On Line Work Management Appendix A On Line Work Management Work Management Process Description is obtained.	
<u>Cue</u>	Provide a copy of NPG-SPP-07.1 On Line Work Management Appendix A On Line Work Management Work Management Process Description.	
<u>Comment</u>		

STEP 4 :	Matrix 1 (Impact Assessment)					O. 4 -
STEP 4 :	Category	High	Medium	Low	Routine	SAT
	Radiation Dose (5)	≥ 150 mrem	≥ 100 mrem	≥ 50 mrem	< 50 mrem	UNSAT
					The state of the s	Critical Step
<u>Standard</u> :	The examinee p					
Comment						
Examiner Note	The first matrix (performance of decreasing from consideration ar assessment coloconsiderations s complexity.	the task. The half to right. The half to right. The half includes the present and LCO re	orizontal axis re ne vertical axis i traditional risk o estraints to less	epresents the less a list of items considerations traditional risk	evel of risk, s for from risk	
Examiner <u>Note</u>	(5) Radiation Dose: Setting site-specific thresholds to trigger the need for enhanced preparation and oversight for planned activities is critical in managing overall risk, not only from the standpoint of personnel protection but also for out-of-service time. Higher dose activities can increase the amount of time needed for implementation. Required activities such as ALARA briefings, radiation surveys after components are isolated and drained, and contamination checks for equipment breaches can impact out-of-service time. In addition, worker stay times may be limited by area dose rates or required personnel protective equipment.					
Examiner Note	This step is critical because the examinee needs to make the determination of high risk in order to achieve the terminal standard.					
Terminating Cue:	The task is cor the examiner.	nplete when	the Examinee	returns the c	cue sheet to	STOP

Stop	Time	
•		

JPM BRIEFING SHEET

DIRECTIONS TO TRAINEE:

The examiner will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

INITIAL CONDITIONS:

- 1. Unit 2 is in MODE 1
- 2. You are the WCC SRO and are performing a review of a work package to be merged into the schedule in two weeks.
- 3. The work is 2.5 feet from valve 2-63-750 Test Conn on RHR Suction from RWST located in the Auxiliary Bldg 653 elevation pipe chase.
- 4. The total time to perform the job is 12 min

INITIATING CUES:

- 1. Calculate the total dose that the worker will accumulate performing the job
- 2. Using the total dose, perform an Impact Assessment of the level of risk while performing the task using NPG-SPP-07.1 On Line Work Management, Appendix A On Line Work Management Work Management Process Description.
- 3. Inform the evaluator when you are complete.

Acknowledge to the examiner when you are ready to begin.

HAND THIS PAPER BACK TO YOUR EVALUATOR WHEN YOU HAVE SATISFACTORILY COMPLETED THE ASSIGNED TASK.

SEQUOYAH NUCLEAR PLANT

SRO ADMIN A.4

Evaluate Conditions For Emergency Classification

SRO JOB PERFORMANCE MEASURE

lask:	Evaluate Conditions F	or Emergency Classification	
Task #:	3440030302		
Task Standard:	minutes of starting the	e task.	r 1.1.1 P and 1.2.2 P is declared within 15 y is initiated within 14 minutes of event
Time Critical Tasl	c: YES: X	NO:	
K/A Reference/Ra	tings: 2.4.41 (4.6)		
Method of Testing	<u>j:</u>		
Simulated Perform	nance:	Actual Performance:	X
Evaluation Metho	d:		
Simulator	In-Plant	Classroom X	_
Main Control Roo	m	Mock-up	_
Performer:		inee Name	
	Tra	inee Name	
Evaluator:		/ Name / Signature	DATE
Performance Rati	ng: SAT:	UNSAT:	5.0.2
Validation Time:	21 min	Total Time:	
Performance Time	e: Start Time:	Finish Time:	
- Andrews of the Control of the Cont		COMMENTS	

SPECIAL INSTRUCTIONS TO EVALUATOR:

- 1. Critical steps are identified in step SAT/UNSAT column by bold print 'Critical Step.'
- 2. Any UNSAT requires comments.

Tools/Equipment/Procedures Needed:

- 1. EPIP- 1, EMERGENCY PLAN CLASSIFICATION MATRIX
- 2. EPIP-2 NOTIFICATION OF UNUSUAL EVENT
- 3. EPIP-4, SITE AREA EMERGENCY
- 4. A clock must be available in classroom that all examinees and evaluator can see

References:

	Reference	Title	Rev No.
1.	EPIP- 1	EMERGENCY PLAN CLASSIFICATION MATRIX	45
2.	EPIP-2	NOTIFICATION OF UNUSUAL EVENT	30
3.	EPIP-4	SITE AREA EMERGENCY	32

Read to the examinee:

DIRECTIONS TO TRAINEE:

I will explain the initial conditions, and state the task to be performed. All control room steps shall be performed for this JPM. I will provide initiating cues and reports on other actions when directed by you. When you complete the task successfully, the objective for this job performance measure will be satisfied. Ensure you indicate to me when you understand your assigned task. To indicate that you have completed your assigned task return the handout sheet I provided you.

HAND JPM BRIEFING SHEET TO EXAMINEE AT THIS TIME!

INITIAL CONDITIONS:

- 1. Unit 1 is currently in a NOUE based upon system degradation, 2.1 due to loss of both channels of control room annunciators as well as the annunciator printer and CRT.
- 2. EPIP-2, NOTIFICATION OF UNUSUAL EVENT is in progress at step 3.2.3
- 3. Subsequently a Reactor trip occurred
- 4. Safety Injection actuated and E-1, Loss of Reactor or Secondary Coolant, was entered.
- 5. FR-C.2, Response to Degraded Core Cooling, is being performed due to an Orange condition on the CSF Status Trees.
- ICS is available.
- 7. The ODS is NOT available.
- 8. The TSC is NOT operational.
- 9. Emergency Paging System (EPS) is not available in MCR.
- 10. There are no indications of an Onsite Security Event.

INITIATING CUES:

- 1. You are the Site Emergency Director in the Control Room until the TSC is staffed.
- 2. Given the initial conditions take all required actions as the Site Emergency Director.
- 3. Notify the examiner when all required actions are complete.
- 4. There is an element of this task that is Time Critical.

	Start Tir	ne
STEP 1 :	Obtain a copy of EPIP-2 NOTIFICATION OF UNUSUAL EVENT	SAT UNSAT
Standard:	Examinee obtains a copy of EPIP-2 NOTIFICATION OF UNUSUAL EVENT.	
<u>Cue</u>	Provide a copy of EPIP-2 NOTIFICATION OF UNUSUAL EVENT marked up through step 3.2.3	
Comment		
STEP 2 :	Obtain a copy of EPIP-1, EMERGENCY PLAN CLASSIFICATION MATRIX.	SAT UNSAT
<u>Standard</u> :	Examinee obtains a copy of EPIP-1, EMERGENCY PLAN CLASSIFICATION MATRIX.	
<u>Cue</u>	Provide a copy of EPIP-1, EMERGENCY PLAN CLASSIFICATION MATRIX.	
<u>Comment</u>		
Examiner Note	Annotate start time when the examinee acknowledges the task is understood. Start time	

Procedure Note	INSTRUCTIONS Note: A condition is considered to be MET if, in the judgment of the SED, the condition will be MET IMMINENTLY (i.e.: with two hours). The classification shall be made as soon as this determination is made.	
STEP 3 :	 In the matrix to the left, REVIEW the initiating conditions in all three barrier columns and circle the conditions that are MET. In each of the three barrier columns, IDENTIFY if any Loss or Potential Loss INITIATING CONDITIONS have been MET. 	SAT UNSAT
Standard:	Examinee reviews the EMERGENCY PLAN CLASSIFICATION MATRIX and identifies initiating conditions provided in the initial conditions.	
Comment		

STEP 4 :	3. COMPARE the number of barrier Losses and Potential losses to the criteria below and make the appropriate declaration. Emergency Class Criteria Site Area Emergency	SAT UNSAT Critical Step
	LOSS or Potential LOSS of any two barriers	
<u>Standard</u> :	The examinee compares barrier losses and classifies the event as a Site Area Emergency within 15 minutes of starting the task. Potential LOSS of the Fuel Clad Barrier 1.1.1 due to Core Cooling Orange (FR-C.2) entry and Potential LOSS of the RCS Barrier 1.2.2. Non Isolatable RCS leak exceeding the capacity of one charging pump in the normal charging alignment OR RCS leakage results in entry into E-1	
Comment		
EXAMINER NOTE:	This is a critical step because of the requirement to arrive at the correct classification within 15 minutes.	
EXAMINER NOTE:	Annotate the stop time for the event classification here	
EXAMINER NOTE:	Examinee continues with the task to complete the State Notification Form using EPIP-4, SITE AREA EMERGENCY. The critical time element continues.	
EXAMINER NOTE:	Annotate the start time for the State Notification here.	
EXAMINER NOTE:	The start data is provided to the examinee on the JPM briefing sheet.	
EXAMINER NOTE:	Examinee transitions to EPIP-4 SITE AREA EMERGENCY	

STEP 5 :	Obtain a copy of EPIP-4, SITE AREA EMERGENCY	SAT UNSAT
<u>Standard</u> :	Examinee obtains a copy of EPIP-4, SITE AREA EMERGENCY.	
<u>Cue</u>	Provide a copy of EPIP-4, SITE AREA EMERGENCY	
Comment		
Procedure Note	NOTE: IF there are personnel injuries, THEN IMPLEMENT EPIP-10, "Medical Emergency Response." NOTE: IF there are immediate hazards to plant personnel, THEN consider immediately implementing EPIP-8 "Personnel Accountability and Evacuation" in parallel with this procedure	
STEP 6:	 3.1 SITE AREA EMERGENCY DECLARATION BY THE MAIN CONTROL ROOM Upon classifying events as a <u>SITE AREA EMERGENCY</u> the SM/SED shall: [1] IF TSC is <u>OPERATIONAL</u>, (SED transferred to TSC), THEN GO TO Section 3.2 (Page 7). [2] RECORD time of Declaration. [3] ACTIVATE Emergency Paging System (EPS) as follows: 	SAT UNSAT
Standard:	The examinee addresses steps 3.1.1 through 3.1.3	
Comment		

STEP 7 :	3.1 SITE AREA EMERGENCY DECLARATION BY THE MAIN CONTROL ROOM Upon classifying events as a SITE AREA EMERGENCY the SM/SED shall: [4] COMPLETE Appendix B, TVA Initial Notification for Site Area Emergency. The examinee completes an Appendix B, TVA Initial Notification for Site Area Emergency with no errors on items noted with an * on the answer key within 14 minutes of event declaration.	SAT UNSAT Critical Step
EXAMINER NOTE:	This is a critical step because of the requirement to provide notification of an event to the state within 15 minutes.	
Comment		
STEP 8 :	3.1 SITE AREA EMERGENCY DECLARATION BY THE MAIN CONTROL ROOM Upon classifying events as a SITE AREA EMERGENCY the SM/SED shall: [5] FAX completed Appendix B to ODS. 5-751-8620 (Fax) [6] CALL and READ ODS completed Appendix B. ODS: Ringdown Line or 5-751-1700 or 5-751-2495 or 9-785-1700	SAT UNSAT
Standard:	The examinee recognizes steps 5 and 6 are N/A based on the initial conditions.	
Comment		

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STEP 8 :	3.1 SITE AREA EMERGENCY DECLARATION BY THE MAIN CONTROL ROOM Upon classifying events as a SITE AREA EMERGENCY the SM/SED shall: [7] IF ODS CANNOT be contacted within 10 minutes of the declaration, THEN [a] CONTACT Tennessee Emergency Management Agency	SAT UNSAT Critical Step
Standard:	The examinee simulates initiating the process of notifying TEMA (state of Tennessee).within 14 minutes of event declaration.	
Examiner Note:	This is a critical step because of the requirement to provide notification of an event to the state within 15 minutes.	
Examiner Note:	Annotate the stop time for the initiation of state notification	
Comment		
Terminating Cue:	The task is complete when the Examinee initiates the process of notifying TEMA (state of Tennessee).	STOP
Stop Time		ne

JPM BRIEFING SHEET

DIRECTIONS TO TRAINEE:

The examiner will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

INITIAL CONDITIONS:

- 1. Unit 1 is currently in a NOUE based upon system degradation, 2.1 due to loss of both channels of control room annunciators as well as the annunciator printer and CRT.
- 2. EPIP-2, NOTIFICATION OF UNUSUAL EVENT is in progress at step 3.2.3
- 3. Subsequently a Reactor trip occurred.
- 4. Safety Injection actuated and E-1, Loss of Reactor or Secondary Coolant, was entered.
- 5. FR-C.2, Response to Degraded Core Cooling, is being performed due to an Orange condition on the CSF Status Trees.
- 6. ICS is available.
- 7. The ODS is NOT available.
- 8. The TSC is NOT operational.
- 9. Emergency Paging System (EPS) is not available in MCR.
- 10. There are no indications of an Onsite Security Event.

INITIATING CUES:

- 1. You are the Site Emergency Director in the Control Room until the TSC is staffed.
- 2. Given the initial conditions take all required actions as the Site Emergency Director.
- 3. Notify the examiner when all required actions are complete.
- 4. There is an element of this task that is Time Critical.

Acknowledge to the examiner when you are ready to begin.

HAND THIS PAPER BACK TO YOUR EVALUATOR WHEN YOU HAVE SATISFACTORILY COMPLETED THE ASSIGNED TASK.