Job Performance Measure Exam

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JPM NO JA001.008

Calculate Shutdown Margin for Operating Reactor with an Untrippable Rod

Revision #: 02	
Review Date: 9/14/2004	
Location: Simulator	
Estimated Time (minutes): 21.00	
Candidate:	
Evaluator:	
Actual Time:	
· · · · · · · · · · · · · · · · · · ·	
Trainee Performance: Satisfactory	_ Unsatisfactory
Trainee:	
Instructor:	
Submitted By	Date
Reviewed By	Date

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<u>NOTE</u>

THE EVALUATOR WILL EXPLAIN THE JPM INITIAL CONDITIONS AND PROVIDE CLARIFICATION AS REQUIRED. THE EXAMINEE MAY USE ANY CONTROLLED COPY REFERENCES THAT ARE NORMALLY AVAILABLE IN THE CONTROL ROOM, INCLUDING LOGS. MAKE ALL WRITTEN REPORTS, ORAL REPORTS, AND LOG ENTRIES AS IF THE EVOLUTION WAS ACTUALLY BEING PERFORMED. THE EVALUATOR WILL BE TAKING NOTES. ASK FOR CLARIFICATION OF JPM REQUIREMENTS PRIOR TO THE BEGINNING

Initial Conditions:

See the attached Data Sheet

Initiating Cues:

Shift Supervisor requests a SDM Calculation, Rod K-7 has been determined to be untrippable.

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Description: Calculate SDM for Operating Reactor with an Untrippable Rod (JA001.008)

JPM Tasks

Task ID: 351-010-01-05A

Task Standards

In accordance with the procedure

Tools :

Calculator

Procedures

Terminating Cues

References :

ID		Description	Review Date	<u>Ref Flag</u>
PRO	O-3.2	SHUTDOWN MARGIN FOR AN OPERATING REACTOR		

Safety Considerations

Consequences of Inadequate Performance:

General Comments :

May be performed on Simulator or in Control Room. If Simulator used, any at power IC. Predetermined data of BURNUP, RX POWER, BORON CONCENTRATION and ROD HEIGHT filled out in an O-3.2.

Element : Obtain controlled copy of O-3.2.		Conditions : CUE: Give student copy of O-3.2.		Standards : Same as element.	
Comments :					
	Satisfactory		Unsatisfactory		
Element : Review procedure initial conditions.	and verify	Conditions :		Standards : Same as element.	
Comments :					
	Satisfactory		Unsatisfactory		
Element : <u>CR</u> Properly collect an O-3.2.	ITICAL d record data in	Conditions : CUE: Give stu data.	dent predetermined	Standards : Same as element.	
Comments :					
	Satisfactory		Unsatisfactory		
Element : <u>CR</u> Properly perform c O-3.2.	ITICAL alculations per	Conditions :		 Standards : Same as element. 1) Read power defect + pcm. 2) If interpolate allow a value between rows. 3) Calculated SDM +/- pcm of answer key. 	
Comments :					
	Satisfactory		Unsatisfactory		
Element : Compare SDM to I COLR.	(TS 3.1.1 and	Conditions : TERMINATIN actions required completed O-3	•	Standards :	
Comments :					
	Satisfactory				

DATA SHEET

Rx Power 99.9% Burnup 8960 MWD/MTU Control Rod Position SD Bank A - 227 step Bank A - 228 steps Bank B - 229 steps Bank C - 230 steps Bank D - 198 steps Tave 561.1°F Boron 855 ppm Sample 11/1/04/0800

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	JPM NO	JC34	2.002	
Approve Confined Space Entry Pe	ermit 1) No	Faults	2)Errors	on Permit

Revision #: 0	
Review Date:	
Location: Simulator/Classroom	
Estimated Time (minutes): 10.00	
Candidate:	
Evaluator:	
Actual Time:	
Trainee Performance: Satisfactory	Unsatisfactory
Trainee:	
Instructor:	
Submitted By	_ Date
Reviewed By	Date

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Initial Conditions:

The "A" condensate storage tank has been isolated and drained in preperation for visual inspection.

Initiating Cues:

The "A" condensate storage tank has been isolated and drained in preparation for entry to visually inspect the tank. You as the Shift Supervisor are to review and either approve or disapprove the A.1.6.4.1 "Confined Space Entry Permit."

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Description: Approve Confined Spaces Entry Permits

JPM Tasks

Task ID: 342-020-03-03

Task Standards

Authorize Confined Space Entry Permit.
 Determine Permit cannot be authorized due to inadequate isolation.

Tools :

Terminating Cues

References :

ID		Description	Review Date	Ref Flag
PROPSA PROPSA	A-1.6.4 A-1401	Requirements for Safe Work in Confined Spaces STATION HOLDING RULES		

Safety Considerations

Consequences of Inadequate Performance:

General Comments :

Provide P& ID and A-1401 Figure 1 to student. Incorporate error on A-1401 Fig 1 of 4074 (AFW recirc to "B" CST) vs 4075 (AFW recirc to "A" CST) for Option 2.

Job Performance Measure Exam

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Element : Cue: Provide candidate with copy of marked up A.1.6.4.1 Confined Space Entry Permit.	Conditions :		Standards :
Comments :			
Satisfactory		Unsatisfactory	
Element : Review SS responsibilities for confined space entry permit (CSEP).	Conditions :		Standards : Obtains current copy of A-1.6.4, "Requirements Safe Work in Confined Space" and refers to Atta
Comments :			
Satisfactory		Unsatisfactory	
Element : <u>CRITICAL</u> Ensure permit required confinced space is properly isolated, held and at atmospheric pressure.	Conditions :		Standards : Same as Element.
Comments :			
Satisfactory		Unsatisfactory	
Element : <u>CRITICAL</u> Option 1 - Boundary is adequate. Option 2 - Boundary is	Conditions : Note: 4075 is o to "A" CST	correct AFW recirc	Standards : Option 1 - Determines th hold is adequate. Option 2 - determines th 4074 is not correct valve
inadequate.			isolate "A" CST.
Comments :			isolate "A" CST.
-		Unsatisfactory	isolate "A" CST.

$(j \to i)$	*						
	17-Sep-200	Job Pe	erforma	nce Measure	Exam	Page:	5
×	Comments	s:					
		Satisfacto	ry 🗖	Unsatisfactory			
JPN	1 Questions						
Que	stion						
Ansv	wer						
<u>Refe</u>	rences						
Refe	rence Type	Reference ID	Description			Ref Fla	r S

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JPM NO JS343.002

A-52.4, Control of Limiting Conditions for Operation Evaluation

Revision #: 3	
Review Date: 9/16/2004	
Location: In Plant	
Estimated Time (minutes): 20.00	
Candidate:	
Evaluator:	
Actual Time:	
Trainee Performance: Satisfactory	Unsatisfactory
Trainee:	
Instructor:	
Submitted By	Date
Reviewed By	Date

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Initial Conditions:

Plant is at 55% power, Mini-Purge is not in service, no other equipment has an A-52.4 submitted on it.

Initiating Cues:

Shift Supervisor requests "A" SI Pump be deemed inoperable and asks you to fill out an A-52.4 to declare the component inoperable. The equipment is inoperable due to low flow during testing. Required testing for operability will be determined after investigation of the problem. Use present date and time for when the component is to be deemed inoperable. AR 2004-1147 has been submitted to document the failure. This is the only equipment currently inoperable.

Description: A-52.4, Control Of Limiting Conditions For Operation Evaluation

JPM Tasks

Task ID: 300-003-03-02A

Task Standards

In accordance with the procedure

Tools :

Terminating Cues

Trainee Says Task is Completed Task Completion

References :

<u>ID</u>		Description	Review Date	<u>Ref Flag</u>
PROPSA	A-52.4	CONTROL OF LIMITING CONDITIONS FOR OPERATING EQUIPMENT		
TECHSP	ITS 3.0	LIMITING CONDITION FOR OPERATION (LCO) AND SURVEILLANCE REQUIREMENT (SR) APPLICABILITY		

Safety Considerations

Consequences of Inadequate Performance:

General Comments :

Prepare an A-52.4 Attachment I as a key.

Page:

Performance Checklist		
Element : Obtain controlled copy of A-52.4 or Attachment.	Conditions :	Standards : Same as element.
Comments :		
Satisfactory	Unsatisfactory	
Element : Properly fill in data in Step 3.2.1.	Conditions :	Standards : Same as element
Comments :		
Satisfactory	Unsatisfactory	
Element : <u>CRITICAL</u> Step 3.2.2 Determine plant is in Mode 1, record mode.	Conditions : Plant is > 5% power.	Standards : Same as element
Comments :		
Satisfactory	Unsatisfactory	
Element : <u>CRITICAL</u> Step 3.3.3 Determine TS 3.5.2 affected. Record in Attachment I	Conditions : Checks Tech Spec (and Basis) to determine proper spec.	Standards : Same as element
Comments :		
Satisfactory	Unsatisfactory	
Element : <u>CRITICAL</u> Step 3.2.4 Perform Safety Function determination (Attachment II) Initial line for completion	Conditions : Attachment II 1) No support spec entered 2) Only one TS entered 3) Therefore, no loss of safety function	Standards : Same as element
Comments :		
Satisfactory	Unsatisfactory	
Element : Step 3.2.5 Record EOOS colors	Conditions : CUE: EOOS is Green for both PRF and top level system	Standards : Same as element

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Comments :

		Satisfactory		Unsatisfactory	
*7	Element : Step 3.2.6 Dete action and reco	CRITICAL ermine required ord	Conditions : TS 3.5.2A - One full train a: - 72 hours to rest		Standards : Same as element
	Comments :				
		Satisfactory		Unsatisfactory	
*8	-	CRITICAL etermine Require etion Time not met ord	Conditions : TS 3.5.2B - Mode 3 6 hours - Mode 4 12 hours		Standards : Same as element
			CUE: No further	r actions	
	Comments :				
1999 - 19		Satisfactory		Unsatisfactory	
<u>JPM</u>	Questions				
Ques	tion				
Answ	ver				
<u>Refer</u>	ences				
Refer	ence Type R	eference ID D	escription		Ref Flag

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JPM NO JS340.019

Implement EPIP 1-13 Local Radiation Emergency

Revision #: 0	
Review Date: 9/16/2004	
Location: Plant or Simulator	
Estimated Time (minutes): 15.00	
Candidate:	
Evaluator:	
Actual Time:	
Trainee Performance: Satisfactory	Unsatisfactory
Trainee:	
Instructor:	
Submitted By	Date
Reviewed By	Date

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Initial Conditions:

The plant is at 100% power. RP and Rad Waste personnel are in the process of transferring spent resin from the Spent Resin Storage tank to a Spent Resin Transport cask.

Initiating Cues:

While transferring resin, the transfer hose coupling fails spilling spent resin on the Auxiliary Building floor near the resin transfer station. Rad Monitor R-8, Drumming Station, is in alarm reading 500 mR/hr and Plant Vent Monitors R-13 and R-14 increase to 1000 cps and 900 cps respectively. The spill has been stopped but several individuals may be contaminated. Take action as the Shift Supervisor to address this condition.

3

Description: Direct Shift Personnel Actions To Ensure Plant Safety During Abnormal Condition

JPM Tasks

Task ID: 344-002-04-02

Task Standards

Correctly implements Required Action of EPIP 1-13 to address the resin spill.

Tools :

Terminating Cues

References :

<u>ID</u>		Description	Review Date	<u>Ref Flag</u>
PREPIP	EPIP 1-13	LOCAL RADIATION EMERGENCY		

Safety Considerations

Consequences of Inadequate Performance:

Inadequately protect the safety of plant personnel.

General Comments :

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Performance C	necklist			
Element : Q Reviews Cue. D Radiation Emerg		Conditions : Resin spill in Aux. Building High Rad Alarm @ Drumming Station and spill raising contamination levels.		Standards : Enters EPIP 1-13.
Comments :				
	Satisfactory		Unsatisfactory	
Notifies Control	CRITICAL Room Operators ns announcements	Conditions : EPIP 1-13 Requi for Radiation Em	res announcement hergency.	Standards : Notifies Evaluator to make announcement to evacuate the affected location (Aux Building Top Level)
Comments :				
	Satisfactory		Unsatisfactory	
Element : <u>(</u> Notifies RP to ro the area.	CRITICAL ope off and post	Conditions : CUE: RP has completed its initial survey and determined that dose rate of up to 1 R/hr and contamination level of > 5 mRad smearable exist in the area.		Standards : Same as element.
Comments :				
	Satisfactory		Unsatisfactory	
Element : Check EPIP 1-0	for classification.	Conditions : Not classifiable.		Standards : Same as element.
Comments :				
	Satisfactory		Unsatisfactory	
Element : <u>(</u> Notify RP and M Manager.	CRITICAL Maintenance	Conditions : Notifies RP and Maintenance Manager to allow them to develop a recovery plant.		Standards : Same as element.

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Comments :

			Satisfactory		Unsatisfactory	
*6	Element : Notify RP for contam	to monit	ITICAL or individual	Condition Several inc contamina	dividuals may be	Standards : Same as element.
				CUE: No	further actions	
	Comments	5:				
			Satisfactory		Unsatisfactory	
<u>JPM</u>	Questions					
Ques	tion					
Answ	rer					
Refer	ences					
Refer	ence Type	Refere	nce ID E	escription		Ref Flag

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	JPM NO	JS340.020
Event Classification		
Revision #: 0		
Review Date: 9/14/2004		
Location: Simulator		
Estimated Time (minutes):	15.00	
Candidate:		
Evaluator:		
Actual Time:		
Trainee Performance: Satisfa	ictory	Unsatisfactory
Trainee:		
Instructor:		
Submitted By		Date

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Initial Conditions:

The plant has gone through the transient that you have just seen.

Initiating Cues:

What is the correct classification for the event.

Job Performance Measure Exam

Description: Direct Emergency Response As Site Emergency Coordinator

JPM Tasks

Task ID: 344-023-05-03

Task Standards

Classify the event correctly.

Tools :

Terminating Cues

Classification complete

References :

ID

Description

Review Date Ref Flag

Safety Considerations

Consequences of Inadequate Performance:

Failure to protect the safety and health of the general public.

General Comments :

This JPM is written for use with either of the NRC Initial License Exam Scenario 04-2-1 or 04-2-2.

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· ·	Performanc	e Checklist			
*1	Element : <u>CRITICAL</u> Classify the Event.		Conditions : Uses Simulator data and EPIP 1-0 to classify the event. CUE: No further actions.		Standards : Scenario 04-2-1 Classify as an Alert 1.4.1. Scenario 04-2-1 Classify as an Alert 3.1.3.
	Comments :				
		Satisfactory		Unsatisfactory	
<u>JPN</u>	1 Questions				
Que	stion				
Ansv	wer				
<u>⊅efe</u>	rences				
refe	erence Type I	Reference ID D	escription		Ref Flag