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.

Job Performance Measure Exam

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Element : Obtain controlled c	opy of O-3.2.	Conditions : CUE: Give student copy of O-3.2.		Standards : Same as element.	
Comments :					
	Satisfactory		Unsatisfactory		
Element : Review procedure a initial conditions.	and verify	Conditions :		Standards : Same as element.	
Comments :					
	Satisfactory		Unsatisfactory		
	ITICAL d record data in	Conditions : CUE: Give st data.	udent predetermined	Standards : Same as element.	
Comments :					
	Satisfactory		Unsatisfactory		
Element : <u>CR</u> Properly perform ca 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	actions require	NG CUE: No further ed. (Attach 3.2 to this JPM.)	Standards :	
Comments :					

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Initial Conditions:

See the attached Data Sheet

Initiating Cues:

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

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 JC342.002

Approve Confined Space Entry Permit 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

Job Performance Measure Exam

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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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Job Performance Measure Exam

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Description: Approve Confined Spaces Entry Permits

JPM Tasks

Task ID: 342-020-03-03

Task Standards

1) Authorize Confined Space Entry Permit.

2) Determine Permit cannot be authorized due to inadequate isolation.

<u>Tools :</u>

Terminating Cues

References :

ID		Description	<u>Review Date</u>	<u>Ref Flag</u>
PROPSA	A-1.6.4	Requirements for Safe Work in Confined Spaces		
PROPSA	A-1401	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.

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Job Performance Measure Exam

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	candidate with copy A.1.6.4.1 Confined Permit.	Conditions :		Standards :
Comments :				
	Satisfactory		Unsatisfactory	
	sponsibilities for e entry permit	Conditions :		Standards : Obtains current copy of A-1.6.4, "Requirements for Safe Work in Confined Space" and refers to Attach
Comments :				
	Satisfactory		Unsatisfactory	
space is prope	CRITICAL t required confinced erly isolated, held heric pressure.	Conditions :		Standards : Same as Element.
Comments :				
Comments :	Satisfactory		Unsatisfactory	
Element :	CRITICAL oundary is adequate.	Conditions : Note: 4075 is o to "A" CST	Unsatisfactory	Standards : Option 1 - Determines that hold is adequate. Option 2 - determines that 4074 is not correct valve to isolate "A" CST.
Element : Option 1 - Bo Option 2 - Bo	CRITICAL oundary is adequate.	Note: 4075 is a		Option 1 - Determines that hold is adequate. Option 2 - determines that 4074 is not correct valve to
Element : Option 1 - Bo Option 2 - Bo inadequate.	CRITICAL oundary is adequate.	Note: 4075 is a		Option 1 - Determines that hold is adequate. Option 2 - determines that 4074 is not correct valve to

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** **	17-Sep-200	Job P	Performa	nce Measure l	Exam	Page:	5
	Comment	S:					
		Satisfact	ory 🗌	Unsatisfactory			
<u>JPM</u>	I Questions						
Ques	stion						
Answ	ver						
Refe	rences						
Refe	rence Type	Reference ID	Description			Ref Flag	Ş

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<u>NOTE</u>

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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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JPM NO JS343.002

A-52.4, Control of Limiting Conditions for Operation Evaluation

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

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<u>NOTE</u>

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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.

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Job Performance Measure Exam

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 :

ID		Description	<u>Review Date</u>	<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 REOUIREMENT (SR) APPLICABILITY		

Safety Considerations

Consequences of Inadequate Performance:

General Comments :

Prepare an A-52.4 Attachment I as a key.

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Job Performance Measure Exam

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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% po	wer.	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 Sp determine prope	ec (and Basis) to r 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 s 2) Only one TS 3) Therefore, no function	entered	Standards : Same as element
Comments :			
Satisfactory		Unsatisfactory	
Element : Step 3.2.5 Record EOOS colors	Conditions : CUE: EOOS is PRF and top leve		Standards : Same as element

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Job Performance Measure Exam

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Comments:

		Satisfactory		Unsatisfactory	
*7	Element : Step 3.2.6 Det action and reco	CRITICAL ermine required ord	Conditions : TS 3.5.2A - One full train av - 72 hours to rest		Standards : Same as element
	Comments :				
		Satisfactory		Unsatisfactory	
*8	-	CRITICAL etermine Require etion Time not met rd	Conditions : TS 3.5.2B - Mode 3 6 hours - Mode 4 12 hour		Standards : Same as element
			CUE: No further	actions	
	Comments :				
***** [*]		Satisfactory		Unsatisfactory	
<u>JPM</u>	Questions				
Ques	tion				
Answ	/er				
<u>Refe</u>	rences				
Refe	rence Type R	eference ID D	escription		Ref Flag

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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.

Job Performance Measure Exam

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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.

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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	Ref Flag
PREPIP	EPIP 1-13	LOCAL RADIATION EMERGENCY		

Safety Considerations

Consequences of Inadequate Performance:

Inadequately protect the safety of plant personnel.

General Comments :

Job Performance Measure Exam

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	Performance (necklist			
1		CRITICAL Determines Local gency exists.	Local Resin spill in Aux. Building High		Standards : Enters EPIP 1-13.
	Comments :				
		Satisfactory		Unsatisfactory	
2	Notifies Contro to perform actio	otifies Control Room Operators EPII		res announcement lergency.	Standards : Notifies Evaluator to make announcement to evacuate the affected location (Aux. Building Top Level)
	Comments :				
		Satisfactory		Unsatisfactory	
3		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-() for classification.	Conditions : Not classifiable.		Standards : Same as element.
	Comments :	nments :			· · · · · · · · ·
		Satisfactory		Unsatisfactory	
5	Element : Notify RP and Manager.	<u>CRITICAL</u> Maintenance	Conditions : Notifies RP and I Manager to allov a recovery plant.	v them to develop	Standards : Same as element.

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Comments:

		Satisfactory		Unsatisfactory		
*6		Clement :CRITICALConditions :Notify RP to monitor individualSeveral individuals may be contamination.Contaminated.			Standards : Same as element.	
			CUE: No fu	rther actions		
	Comments	5:				
		Satisfactory		Unsatisfactory		
<u>JPM</u>	Questions					
Ques	tion					
Answ	/er					
<u>Refer</u>	<u>ences</u>					
Refer	rence Type	Reference ID I	Description		Ref Flag	

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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.

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ЈРМ	NO	JS340.020
01.1.1		0.00,00020

Event Classification

Revision #: 0	
Review Date: 9/14/2004	
Location: 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 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 Re	esponse As Site Emergency Coordinator	
JPM Tasks		
Task ID: 344-023-05-03		
Task Standards		
Classify the event correctly.		
Tools :		
Terminating Cues		
Classification complete		
Deferences		
References :		
ID	Description	<u>Review Date</u>

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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Ref Flag

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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 :		COL. 1101		5.1.5.	
		Satisfactory		Unsatisfactory		
<u>JPN</u>	A Questions					
Que	stion					
Ansv	wer					
<u>Refe</u>	erences					
Refe	erence Type	Reference ID D	escription		Ref Flag	