Validation Time: 15 minutes

Job Performance Measure Worksheet

Form ES-C-1 JPM A-6

Facility: Davis-Besse	Task No: 115-001-02-0100		
Task Title: Calculate RCS Flow with F755	i Inoperable		
K/A Reference: 2.1.25 (2.8/3.1)	Job Performance Measure No: A-6 (RO only)		
Examinee:	NRC Examiner:		
Facility Evaluator:	Date:		
Method of testing:			
Simulated Performance	Actual Performance X		
Classroom Simulator _X	<u>C</u> Plant		
	eps to simulate or discuss, and provide initiating cues. the objective for this job performance measure		
Initial Conditions: The unit is at 100% power The crew is performing DB-OP-03006, Miscellaneous Instrument Shift Checks The Plant Process Computer is available but Computer Point F744, RC CLG TOTAL FLOW (KGPM), is unavailable The SPDS is not available			
Task Standard: Perform miscellaneous instrument shift checks			
Required Materials:			
General References: DB-OP-03006, Miscellaneous Instrument Shift Checks Steam Tables			
•	Attachment 7: Calculation of RC Total Flow ordance with step 4.35.1.b of DB-OP-03006		
Evaluator Note: Provide a copy of DB-OP-	03006, Attachment 7 and Steam Tables		
Time Critical Task: No			

INITIAL CONDITIONS:

The unit is at 100% power

The crew is performing DB-OP-03006, Miscellaneous Instrument Shift Checks

The Plant Process Computer is available but Computer Point F744, RC CLG TOTAL FLOW (KGPM), is unavailable

The SPDS is not available

INITIATING CUE:

The Unit Supervisor directs you to perform Attachment 7: Calculation of RC Total Flow (Computer Point F744 Inoperable), in accordance with step 4.35.1.b of DB-OP-03006

PERFORMANCE INFORMATION

					START TIME:
1.	PERFOF	RMANCE STE	P: Using the com	=	ders, find and enter values
STA	ANDARD:	Find and en	ter the correct valu	ies on Attachment 7	
			Compute	r Points	Expected Value
		•	P722 (RC LOO	P 1 NR PRESS)	2145.3 PSIG
		•	P729 (RC LOO	P 2 NR PRESS)	2155.3 PSIG
		•	T780 (RCP 1-1	Disch NR Temp)	559.6 °F
		•	T800 (RCP 1-2	Disch NR Temp)	560.4 °F
		•	T820 (RCP 2-1	Disch NR Temp)	559.7 °F
		•	T840 (RCP 2-2	Disch NR Temp)	560.3 °F
		•	F857 (RC Loop	1 HLG Flow)	74.9 (MPPH)
		•	F858 (RC Loop	2 HLG Flow)	75.5 (MPPH)
	COMME	NT: The Sim	ulator may provide	e different values than	those above.
	CUE:			ts are found, then pr uter points filled in.	ovide a copy of
					SAT UNSAT
2.	PERFOI √	RMANCE STE	P: Record Specific Attachment 7	c Volume using ASME	E Steam Tables, pg. 183 on
	STANDA	Λ D D	ord Loop 1 avorag	e Tavg: (T780 + T800	0)/2 – 560
	STANDA			ressure: P722 + 14.7	•
			•		m Table = .0216 to .0217
	CUE:		183 in the Steam opy of page 183.	Tables is found, the	n SAT UNSAT

3. PERFORMANCE STEP: Calculate Loop 1 Flow

STANDARD: P

Performs calculation:

(F857 reading)(V1)(124.675) = 202.4139 KGPM

COMMENT:

Loop 1 flow calc between 202 and 203 KGPM is satisfactory

CUE: None

SAT UNSAT

4. PERFORMANCE STEP: Record Specific Volume using ASME Steam Tables, pg. 183 on

ATTACHMENT 7

STANDARD: Record Loop 2 average Tavg: (T820 + T840)/2 = 560

Record Loop 2 RCS Pressure: P729 + 14.7 = **2170**

Interpolate Specific Volume (V2) using Steam Table = .0216 to .0217

CUE: None

SAT UNSAT

5. PERFORMANCE STEP: Calculate Loop 2 Flow

√ V

STANDARD: Performs calculation:

(F858 reading)(V2)(124.675) = 203.9977 KGPM

COMMENT: Loop 2 flow calc between **203** and **205** KGPM is satisfactory

CUE: None

SAT UNSAT

6. PERFORMANCE STEP: Calculate RC Total Flow (Loop 1 + Loop 2)

 $\sqrt{}$

STANDARD: Add Loop 1 and Loop 2 flows

Loop 1 + Loop 2 = 406.412

COMMENT: Total Flow between 405 and 408 KGPM is satisfactory

CUE: None

SAT UNSAT

Job Performance Measure Worksheet

Form ES-C-1 JPM A-6

8. PERFORMANCE STEP: Complete ATTACHMENT 7

STANDARD: Signs and dates Calculation Performed by.

CUE: None

SAT UNSAT

TERMINATING CUES: This JPM is complete (Terminated by examinee)

END TIME

Verification of Completion

Job Performance Measure No. <u>A-6</u>
Examinee's Name:
Examiner's Name:
Date Performed:
Facility Evaluator:
Number of Attempts:
Time to Complete:
Question Documentation:
Question:
Response:
Result: Satisfactory/Unsatisfactory
Examiner's signature and date:

Facility: <u>Davis-Besse</u>		Task No: <u>331-041-02-0300</u>
Task Title: <u>Perform an On-li</u>		nination
K/A Reference: 2.1.19 (3.0/	3.0)	Job Performance Measure No: A -1 (SRO only)
Examinee:		NRC Examiner:
Facility Evaluator:		Date:
Method of testing:		
Simulated Performance		Actual Performance <u>X</u>
Classroom	Simulator X	Plant

Read to the examinee:

I 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:

The plant is at 100%.

There is no adverse weather in the area or predicted

Ambient Conditions: Winter Ambient Conditions: 50°F Intake Temperature is 40°F

Current risk level is YELLOW because Aux. Feed Pump 2 (DBP 14-2) is out of service for maintenance

At turnover, equipment lineup was as follows:

Instrument Air Dryers 3 and 4 are in service

Station Air Compressor 2 is in service

CCW Pump 1 is running

CCW Pump 2 in standby

CAC 1 and CAC 2 are in service

Makeup Pump 2 is running

RC 11, PORV Block Valve is open

Service Water Pump 1 and Service Water Pump 2 are running

TPCW Heat Exchangers 2 and 3 are in service

TPCW Pump 1 and TPCW Pump 2 are running

Task Standard:

Perform an On-line Risk Determination

Required Materials:

Computer with Safety Monitor System installed

General References:

DBBP-OPS-0003, On-Line Risk Management Process, Attachment 5

Initiating Cue:

RC 11, PZR PORV Block Valve, has just been closed due to PORV leakage
The Shift Manager directs you to use the Safety Monitor to evaluate plant risk in accordance
with Attachment 5 of DBBP-OPS-0003, On-Line Risk Management Process

Time Critical Task: No

Validation Time: 15 minutes

INITIAL CONDITIONS:

The plant is at 100%

There is no adverse weather in the area or predicted

Ambient Conditions: Winter

Ambient Conditions: 50°F

Intake Temperature is 40°F

Current risk level is YELLOW because Aux. Feed Pump 2 (DBP 14-2) is out of service for maintenance

At turnover, equipment lineup was as follows:

Instrument Air Dryers 3 and 4 are in service
Station Air Compressor 2 is in service
CCW Pump 1 is running
CCW Pump 2 in standby
CAC 1 and CAC 2 are in service
Makeup Pump 2 is running
RC 11, PORV Block Valve is open
Service Water Pump 1 and Service Water Pump 2 are running
TPCW Heat Exchangers 2 and 3 are in service
TPCW Pump 1 and TPCW Pump 2 are running

INITIATING CUES:

RC 11, PZR PORV BLOCK VALVE, has just been closed due to PORV leakage

The Shift Manager directs you to use the Safety Monitor to evaluate plant risk in accordance with Attachment 5 of DBBP-OPS-0003, On-Line Risk Management Process

PERFORMANCE INFORMATION

	START TIME:
1.	PERFORMANCE STEP: Log on to Safety Monitor using one of the specified passwords $\underline{\hspace{1cm}}^{\hspace{1cm}}$
	STANDARD: Log on using (user id) SRO and (password) operations OR (user id) SRO1 and (password) operations1 OR (user id) SRO2 and (password) operations2
	CUE: Provide the examinee a copy of Attachment 5 of DBBP-OPS-0003
	SAT UNSAT
2.	PERFORMANCE STEP: Determine PORV/Block Valve is modeled in PSA
	STANDARD: Determines PORV/Block Valve is modeled in PSA and proceeds to Section 4.2.
	COMMENT: Candidate may choose to use the computer to make this determination but that is NOT required since it would be common knowledge
	CUE: None
	SAT UNSAT
3.	PERFORMANCE STEP: Select "Hypothetical mode" from the drop down menu next to " $\underline{\hspace{1cm}}$ Operation"
	STANDARD: "Hypothetical mode" selected.
	CUE: None
	SAT UNSAT
4.	PERFORMANCE STEP: Click on "Case," and select "New" in the dropdown lists $\underline{\hspace{1cm}}^{\hspace{1cm}}$
	STANDARD: Clicks on "Case," and selects "New"
	CUE: None
	SAT UNSAT

Job Performance Measure Worksheet

5.	PERFORMANCE STEP: Selects "No," when ask to save	
	STANDARD: Selects "No"	
	CUE: None	
		SAT UNSAT
6.	PERFORMANCE STEP: Selects "No Initial Configurations" and clicks "C $_{\underline{\hspace{1cm}}}^{\sqrt{}}$)K"
	STANDARD: Select "No Initial configurations" and click "OK"	
	CUE: None	
		SAT UNSAT
7.	PERFORMANCE STEP: Establish or verify minimum proper plant alignment $\frac{1}{2}$ risk is calculated	ment before plant
	STANDARD: Click on "View/Change Plant Configuration"	
	CUE: None	
		SAT UNSAT
8.	PERFORMANCE STEP: Establish or verify minimum proper plant alignment of the properties of the properti	ment (before plant
	STANDARD: Click on "Alignment"	
	CUE: None	
		SAT UNSAT
9.	PERFORMANCE STEP: Establish or verify minimum proper plant alignment $\frac{1}{2}$ risk is calculated	ment before plant
	STANDARD: At the bottom of the column for "Alignment System" select	"All Systems"
	CUE: None	
		SAT UNSAT

10.	PERFORMANCE STEP: Ensure the minimum alignments are correct $\frac{}{}$	
	STANDARD: Correct equipment alignments to match Initial Conditions:	
	CUE: None	CAT LINCAT
		SAT UNSAT
11.	PERFORMANCE STEP: Ensure the minimum alignments are correct	
	STANDARD: Verify "Add alignment change" box is checked	
	CUE: None	
		SAT UNSAT
12.	PERFORMANCE STEP: Verifies date and time correct	
	STANDARD: Select the proper date and time on the "Date/Time of change	ges" open window
	CUE: None	
		SAT UNSAT
13.	PERFORMANCE STEP: Input alignment changes	
	STANDARD: Click "Apply All" and confirm by Clicking "YES"	
	CUE: None	
		SAT UNSAT

14.	PERFORMANCE STEP: Input alignment changes	
	STANDARD: Clicks on "Calculate" button	
	CUE: None	
		SAT UNSAT
15.	PERFORMANCE STEP: Remove AFP 2 from service $\frac{1}{\sqrt{2}}$	
	STANDARD: Click on "View/Change Plant Configuration"	
	CUE: None	
		SAT UNSAT
16.	PERFORMANCE STEP: Verify "Components" tab is selected	
	STANDARD: Verify "Components" tab is selected	
	CUE: None	
		SAT UNSAT
17.	PERFORMANCE STEP: Verify "Remove from service" box is selected	
	STANDARD: Verify "Remove from service" box is selected	
	CUE: None	
		SAT UNSAT
18.	PERFORMANCE STEP: Ensure date and time correct $\frac{}{}$	
	STANDARD: Change time to a time later than the last configuration chan	ige
	CUE: None	
		SAT UNSAT
19.	PERFORMANCE STEP: Select DBP 14-2, Aux Feed Pump 1-2, in "Com $\frac{1}{\sqrt{2}}$	ponents" window
	STANDARD: Double Click on "DBP 14-2 Aux Feed Pump 1-2" in Subsys	tem 50
	CUE: None	
		SAT LINSAT

Job Performance Measure Worksheet

20.	PERFORMANCE STEP: Verify the correct Environmental/Test Factors a	re entered.
	STANDARD: Click on "Environmental/Test Factors" tab	
	CUE: None	
		SAT UNSAT
21.	PERFORMANCE STEP: Verify "Set In Effect" box is selected	
	STANDARD: Verify "Remove From Service" box is selected	
	CUE: None	
		SAT UNSAT
22.	PERFORMANCE STEP: Ensure date and time correct	
	STANDARD: Change time to a time later than the last configuration chan	ge
	CUE: None	
		SAT UNSAT
23.	PERFORMANCE STEP: Select Winter Conditions	
	STANDARD: Double click on "Winter Conditions"	
	CUE: None	
		SAT UNSAT
24.	PERFORMANCE STEP: Calculate Risk	
	STANDARD: Clicks on the "Calculate" button	
	Comment: ORANGE RISK	
	CUE: None	
		SAT UNSAT
TEF	RMINATING CUES: This JPM is complete. (Terminated by the evaluator)	
		END TIME

Verification of Completion

Job Performance Measure No. A-1	
Examinee's Name:	
Examiner's Name:	
Date Performed:	
Facility Evaluator:	
Number of Attempts:	
Time to Complete:	
Question Documentation:	
Question:	
Response:	
Result: Satisfactory/Unsatisfactory	
Evaminer's signature and date:	

Facility: Davis-Besse		Task No: <u>333-012-01-3000</u>
Task Title: Review Auxiliary Operability		mp 2 Monthly Periodic Test and Determine
K/A Reference: <u>2.1.33 (3.4/4</u>	4.0) Job	Performance Measure No: A-2 (SRO only)
Examinee:		NRC Examiner:
Facility Evaluator:		Date:
Method of testing:		
Simulated Performance		Actual Performance X
Classroom	Simulator X	Plant
Read to the examinee:		
	mplete the task	os to simulate or discuss, and provide successfully, the objective for this job
Initial Conditions: The plant is operating at 100 DB-SP-04159, Auxiliary Feed through step 4.75		Monthly Periodic Test, has been completed
Task Standard: Review test for accuracy and	determine ope	erability
Required Materials: Technical Specifications Calculator		
General References: DB-SP-04159, AFP Monthly	Periodic Test	
Initiating Cue: The Shift Manager directs yo the procedure and acceptance		AFP 2 Monthly Periodic Test and complete
Time Critical Task: No		
Validation Time: 15 minute		

INITIAL CONDITIONS:

The plant is operating at 100% power

DB-SP-04159, Auxiliary Feedwater Pump 2 Monthly Periodic Test, has been completed through step 4.75

INITIATING CUE:

The Shift Manager directs you to review the AFP 2 Monthly Periodic Test and complete the procedure and acceptance criteria

PERFORMANCE INFORMATION

	Start Time
.1.	PERFORMANCE STEP: Review Attachment 1 data sheet for accuracy
	STANDARD: Identify Attachment 1 of DB-SP-04159 as the correct procedure and attachment
	CUE: Provide a copy of DB-SP-04159 to the candidate SAT UNSAT
2.	PERFORMANCE STEP: Determine differential pressure (Δ P) was calculated incorrectly and is inadequate
	STANDARD: Identify Attachment 1 of DB-SP-04159 and perform the differential pressure (ΔP) calculation
	COMMENT: The correct calculated differential pressure is 1275 psid
	CUE: None SAT UNSAT
3.	PERFORMANCE STEP: Evaluate re-calculated differential pressure (Δ P) for AFW Train 2 operability
	STANDARD: Review DB-SP-04159 acceptance criteria step 5.1, and recognize the correctly calculated ΔP is outside the acceptable range
	CUE: (If asked) Shift Manager has been informed that the test ΔP is outside the acceptable range. He directs you to determine operability
	SAT UNSAT
.4.	PERFORMANCE STEP: Verify AFP 2 speed is between 3595 and 3633 rpm
	STANDARD: Review DB-SP-04159 speed acceptance criteria step 5.2
	CUE: None SAT UNSAT

5.	PERFORMANCE STEP √	P: Review TS 3.7.1.2 or DB-SP-04159 Acce Criteria and determine that AFW Train 2 is	•			
		TS 3.7.1.2 or DB-SP-04159 Acceptance Crit ty criteria	teria for			
	CUE: (If asked) Shift I	Manager acknowledges that AFW Train 2	is inoperable			
			SAT UNSAT			
6.	PERFORMANCE STEP	: Determine actions to be performed				
		TS 3.7.1.2 Action a. would be taken, restore nours or be in HOT STANDBY within 12 hou	•			
	CUE: What Technical S	Specification and action statement(s)				
	. ,		SAT UNSAT			
TEF	TERMINATING CUES: This JPM is complete. (Terminated by the examiner)					
			END TIME			

Verification of Completion

Job Performance Measure No. <u>A-2</u>	
Examinee's Name:	
Examiner's Name:	
Date Performed:	
Facility Evaluator:	
Number of Attempts:	
Time to Complete:	
Question Documentation:	
Question:	
Response:	
Result: Satisfactory/Unsatisfactory	
Evaminer's signature and date:	

Facility: Davis-Besse	Task No: <u>119-023-03-100</u>
Task Title: Review a safety tagout for H	ligh Pressure Injection Pump 1 with eSOMS unavailable
K/A Reference: <u>2.2.13 (3.6/3.8)</u>	Job Performance Measure No: <u>A-3</u>
Examinee:	NRC Examiner:
Facility Evaluator:	Date:
Method of testing:	
Simulated Performance	Actual Performance X
Classroom Simulator	X Plant
Read to the examinee:	
	steps to simulate or discuss, and provide initiating cues ly, the objective for this job performance measure
Initial Conditions:	
	vill not be restored for another four hours eak on the pump's seal that must be replaced
Task Standard: Review a safety tagout and correct error	rs
Required Materials:	
General References:	
NOP-OP-1001, Clearance/Tagging Prog NOBP-OP-1001, Clearance Program Operations Schematic, OS-3 (High Pres Initiating Cue:	
The Shift Manager directs you to review seal replacement and determine if the ta	a safety tagout for High Pressure Injection Pump 1 for agout is acceptable.
Evaluator Note: Provide candidate with	copy of Cover Sheet, Index Sheet, tagout sheet, and

Time Critical Task: No

OS-3.

Validation Time: 20 minutes

INITIAL CONDITIONS:

The plant is currently operating at 100%

eSOMS is currently out of service and will not be restored for another four hours

High Pressure Injection 1 has a leak on the pump's seal that must be replaced

INITIATING CUES:

The Shift Manager directs you to review a safety tagout for High Pressure Injection Pump 1 for seal replacement and determine if the tagout is acceptable.

PERFORMANCE INFORMATION

	STA	RT TIME:
1.	PERFORMANCE STEP: Locate copy of NOP-OP-1001, Clearance/Tag	gging Program
	STANDARD: Locate copy of NOP-OP-1001, Clearance/Tagging Program	m, step 4.28
	COMMENT: Sequence is not required for this JPM Hand trainee a copy of NOP-OP-1001	
	CUE: None	SAT UNSAT
2.	PERFORMANCE STEP: Review Manual Clearance Tracking Index, NO	DP-OP-1001-8
	STANDARD: Review index and determine index correctness	
	COMMENT: Provide candidate with form NOP-OP-1001-8 (form)	
	CUE: None	
		SAT UNSAT
3.	PERFORMANCE STEP: Review Manual Outage Clearance Covershee	et, NOP-OP-1001-7
	STANDARD: Review coversheet and determine coversheet correctness	i
	COMMENT: Provide candidate with form NOP-OP-1001-7 (form)	
	CUE: None	
		SAT UNSAT

4.	PERFORMANCE STEP:	Review Manual	Clearance	Tag List,	NOP-OP-1	001-9
	$\sqrt{}$					

STANDARD: Verify clearance provides adequate boundaries, correct job information, and any hazards (none). The following is the correct components to be tagged out:

- A. Candidate identifies the following incorrect actions:
 - *1. Pump breaker AD 111 (correct breaker is AC 111) (CRITICAL)
 - *2. Pump discharge valve HP 22 (correct valve is HP 24) (CRITICAL)
 - *3. Breaker was tagged out after the suction and discharge valves were closed. (CRITICAL)
 - 4. HP 12, suction valve, sequenced before HP 24, discharge valve, is closed. (NON- critical)
- B. The candidate corrects the tagging list by:
 - *1. Changing AD 111 to AC 111 (in 585' A HVSG Rm) (CRITICAL)
 - *2. Changing HP 22 to HP 24 (CRITICAL)
 - 3. Changing Placement Configuration to hang
 - a. AC 111 second, (CRITICAL)
 - b. HP 39 after breaker is tagged (CRITICAL)
 - c. HP 24 third, (NON-critical)
 - d. HP 12 fourth or fifth (NON-critical)
 - e. Vents and drains last. (CRITICAL)

COMMENT: Steps with a "*" are CRITICAL actions.

COMMENT: Provide candidate with form NOP-OP-1001-9 (form)

CUE: (If asked) The Shift Manager directs you to make appropriate Changes to the clearance request.

SAT UNSAT

5. PERFORMANCE STEP: Inform the Clearance Requester of the needed changes

STANDARD: Contact the Clearance Requester of needed changes

CUE: The Clearance Requester agrees with your changes and asks you to change the Clearance Request accordingly

SAT UNSAT

TERMINATING CUES: This JPM is complete (Terminated by the examiner)

END TIME

Verification of Completion

Job Performance Measure Worksheet

Job Performance Measure No. <u>A-3</u>
Examinee's Name:
Examiner's Name:
Date Performed:
Facility Evaluator:
Number of Attempts:
Time to Complete:
Question Documentation:
Question:
Response:
Result: Satisfactory/Unsatisfactory
Examiner's signature and date:

Manual Clearance Tag List NOP-OP-1001-09 Rev. 01							Sheet	CLEA	RANCE No.				
1101 01 100	. 66 1.61. 61									1	Of <u>1</u>	DB-06	3-0001
Equipment ID	Equipment Description	Equipment Location	Tag#	Tag Type	Placement Configuration	Hang order	1 st Verify	2 nd Verify	Restoration Configuration	Clear Order	1 st Remove	2 nd Remove	Notes
HP 12	HPI PUMP 1 SUCTION	545' ECCS RM 1	01	R	Closed	2			Open				
HP 22	HPI PUMP 1 DISCH	545' ECCS RM 1	02	R	Closed	3			Open				
HP 39	HPI PMP 1 MINIMUM RECIRC TO BWST	565' Aux. Bldg	03	R	Closed	3			Open				
AD111	HPI Pump1 breaker	585' B HVSG Rm	04	R	Racked Out	4			Racked In				
HP 18	HPI PMP1 VENT	545' ECCS RM 1	05	No Tag	Open	5			Closed				
HP 18A	HPI PMP 1 VENT	545' ECCS RM 1	06	No Tag	Open	5			Closed				
HP 16	HPI PMP 1 DRAIN	545' ECCS RM 1	07	No Tag	Open	5			Closed				
HP 16A	HPI PMP 1 DRAIN	545' ECCS RM 1	08	No Tag	Open	5			Closed				
HIS 1524	HPI PMP 1 Control Switch	623' Control Room	09	R	Tagged	1			Tagged Removed				

MANUAL OUTAGE CLEARANCE COVERSHEET							
NOP-OP-1001-07 Rev. 01							
Manual Outage Clearance DB-063-0001		Date 2/9/2	2008	Time 1200			
Equipment ID / Asset Num P58-1	ber:	1					
Description / Reason	otion Dumn	1 (DEQ 1) for cool r	onlogoment				
Tagout High Pressure Injection Pump 1 (P58-1) for seal replacement							
Placement Notes							
Cautions None							
Completion Notes							
Order Number		FLOC		Description			
200283217		P58-1	High Pressure Injection Pu		Pump 1		
Clearance Acceptance			Work Group Acce	eptance			
Print/Sign	/	Date	-	Print/Sign	/ Date		
Clearance Release		Bato	Work Group Rele		<u> </u>		
	/	1			/		
Print/Sign		Date		Print/Sign	Date		
Status		Name (Print / S	ign)	Date /	Time		
Prepared By		PT/pt		02/09/20	08/1200		
Reviewed By		1		/			
Approved by		1		/			
Issued for Work by		1		/			
Removal Authorized by /				1			
Clearance Closed by /				/	,		

MANUAL OUTAGE CLEARANCE TRACKING INDEX

NOP-OP-1001-08 Rev. 01

NOP-OP-1001-08 Rev. 01				NOMO	
Clearance Number	Reason of Clearance	Created by (Date / Time)	Reviewed By (Date / Time)	NOMS Generated Number	Transferred to NOMS by
DB-063-0001	Replace HPI 1 seal	pt 2/9/08 / 1200			

Job Performance Measure Worksheet

Form ES-C-1 JPM A-4

Facility: Davis-Besse	Task No: <u>005-054-05-0100</u>
Task Title: Calculate Steam Generator Lea	ukrate
K/A Reference : <u>2.3.10</u> (2.9/3.3)	Job Performance Measure No: A-4
Examinee:	NRC Examiner:
Facility Evaluator:	Date:
Method of testing:	
Simulated Performance	Actual Performance X
Classroom Simulator X	Plant
Read to the examinee:	
	ps to simulate or discuss, and provide initiating cues he objective for this job performance measure
Initial Conditions:	
The unit is at 100% power SG 1 has a tube leak Pressurizer level is 220 inches and steady	
Task Standard:	
RO: Determine SG leakrate and applicable SRO: Determine SG leakrate, applicable TS	
Required Materials:	
Calculator	
General References:	
DB-OP-02531, SG Tube Leaks, Attachmen Chemistry Sheet (on Simulator Status Boar	
Initiating Cue:	
The Shift Manager directs you to perform a DB-OP-02531, Attachment 1 Step 3	SG Tube Leak calculation using procedure
Time Critical Task: No	

Validation Time: 15 minutes

INITIAL CONDITION:

Any Mode

ADDITIONAL SETUP/DEVIATION FROM INITIAL CONDITION:

None

MALFUNCTIONS/FAILURES TO INSERT:

Raise Steam Jet Air Ejector (SJAE) activity

Fail RE 1003A to position: IMF CM34E 2.42E-5 Fail RE 1003B to position: IMF CM33E 3.34E-5

Start RE 1003A pump

ACTION/CUES:

Step 5: Steam Jet Air Ejector flow is 15 scfm

INITIAL CONDITIONS:

The unit is at 100% power

SG 1 has a tube leak

Pressurizer level is 220 inches and steady

INITIATING CUE:

The Shift Manager directs you to perform a SG Tube Leak calculation using procedure DB-OP-02531, Attachment 1, Step 3

PERFORMANCE INFORMATION

		;	START T	IME	: :	
1.	PERFORMANCE	STEP: Record Date and time				
	STANDARD:	Correct date and time used				
	CUE: None					
			SA	١T	UNSAT	
2.	PERFORMANCE	STEP: Record Steam Jet Air Ejector radiation lev	els .			
	STANDARD:	Correctly read RE 1003A (250 cpm) and RE 1003B (350 cpm)				
	COMMENT:					
	CUE: None					
			SA	١T	UNSAT	
3.	PERFORMANCE	STEP: Convert RE readings (cpm) to µCi/cc				
	STANDARD:	Correctly multiply SJAE reading by conversion factors RE 1003A = 1.63E-06 μ Ci/cc RE 1003B = 1.12E-05 μ Ci/cc	ctor:			
	COMMENT:	Candidate may round off number				
	CUE: None					
			SA	١T	UNSAT	_

4.	PERFORMANCE STEP: Record Steam Jet Air Ejector (SJAE) flow from $\frac{1}{\sqrt{2}}$	FI1002
	STANDARD: Communicate with an Equipment Operator to obtain the correctly record	SJAE flow and
	CUE: Steam Jet Air Ejector flow is 15 scfm	
		SAT UNSAT
5.	PERFORMANCE STEP: Record RCS Xe-133 activity from Chemistry she	eet
	STANDARD: Correctly record RCS Xe-133 activity (6.66E-3 µCi/cc)	
	EVALUATOR NOTE: Chemistry Sheet is on Simulator Status Board	
	CUE: None	
		SAT UNSAT
6.	PERFORMANCE STEP: Calculate primary-to-secondary tube leak using $\frac{1}{\sqrt{2}}$	RE 1003B
	STANDARD: Correctly calculate tube leak using RE 1003B (0.18 – 0.2 (259 - 288 gpd)	gpm)
	COMMENT: RE1003B is used because it is the highest value in Step	С
	CUE: None	
		SAT UNSAT
7.	PERFORMANCE STEP: Determine operational limits associated with tube $\frac{1}{\sqrt{2}}$	e leakage
	STANDARD: RO: Correctly identify applicable TS 3.4.6.2 SRO: Correctly identify applicable TS 3.4.6.2 and action a, v PRESSURE BOUNDARY LEAKAGE, or with primary leakage not within limit, be in at least HOT STANDBY and in COLD SHUTDOWN with the following 30 hours	to secondary within 6 hours
	CUE: What operational limitations are associated with this leakage.	SAT UNSAT
TEF	RMINATING CUES: This JPM is complete (Terminated by candidate)	
		END TIME

Verification of Completion

Job Performance Measure No. <u>A-4</u>
Examinee's Name:
Examiner's Name:
Date Performed:
Facility Evaluator:
Number of Attempts:
Time to Complete:
Question Documentation:
Question:
Response:
Result: Satisfactory/Unsatisfactory
Examiner's signature and date:

Facility: <u>Davis-Besse</u>		Task No: <u>334-004-05-0300</u>
Task Title: State and Cou	unties Notification	on for an Alert emergency classification
K/A Reference: 2.4.43 (2	.8/3.5)	Job Performance Measure No: A-7 (RO only)
Examinee:		NRC Examiner:
Facility Evaluator:		Date:
Method of testing:		
Simulated Performance		Actual Performance X
Classroom	Simulator X	Plant

Read to the examinee:

I 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:

Plant is shut down. An RCS leak is in progress.

Task Standard:

Make notifications to the State and County agencies during an Emergency Plan activation

Required Materials:

General References:

DB-OP-02110, Emergency Notification
DBEP-012, Emergency Notification Cover Sheet
DBEP-010, Initial Notification Form, filled out for an ALERT based on 2.A.2
Davis-Besse Emergency Plan Telephone Directory (EPTD)

Initiating Cue:

You are the spare Reactor Operator. The Shift Manager declared an Alert classification 3 minutes ago based on RCS leakage. He has directed you to notify Ottawa County, Lucas County, and the State of Ohio using the Initial Notification Form in accordance with Section 6.3 of RA-EP-02110, Emergency Notifications. Section 6.3 steps are complete through 6.3.4.

This is a time critical JPM

Evaluate Note: Provide candidate with procedure DB-OP-02210, Alert Initial Notification Form, and Cover Sheet

Time Critical Task: Yes

Alternate JPM: Yes

Validation Time: 15 minutes

I/S Cues:

- Step 3: This is the Ottawa County Sheriff's office, this is the Lucas County Sheriff's office.
- Step 5: Repeat back Initial Notification Form information provided by candidate.
- Step 7: This is the Ohio State Highway Patrol Repeat back Initial Notification Form information provided by candidate

INITIAL CONDITIONS:

Plant is shut down. An RCS leak is in progress.

INITIATING CUES:

You are the spare Reactor Operator. The Shift Manager declared an Alert classification 3 minutes ago based on RCS leakage. He has directed you to notify Ottawa County, Lucas County, and the State of Ohio using the Initial Notification Form in accordance with Section 6.3 of RA-EP-02110, Emergency Notifications. Section 6.3 steps are complete through 6.3.4.

This is a time critical JPM

PERFORMANCE INFORMATION

	STAR ⁻	T TIME:
1.	PERFORMANCE STEP: Locates the correct procedure section and step.	
1.	PERFORMANCE STEF. Locates the correct procedure section and step.	•
	STANDARD: Identifies RA-EP-02110, step 6.3.5 as the next step to perfo	orm.
	CUE: None	Time Starts
		SAT UNSAT
2.	PERFORMANCE STEP: Activate the Davis-Besse 4-way ringdown circui $\frac{1}{\sqrt{2}}$	t.
	STANDARD: Picks up receiver for 4-way ringdown phone.	
	CUE: (I/S) This is the Ottawa County Sheriff's office, this is the Lucas County Sheriff's office.	
	·	SAT UNSAT
3.	PERFORMANCE STEP: Recognize State of Ohio is not on the 4-way ring	gdown circuit.
	STANDARD: Reports State of Ohio did not answer the 4-way ringdown p	hone.
	CUE: (If asked) Shift Manager directs you to continue with Notificat accordance with RA-EP-02110.	ions in
		SAT UNSAT
4.	PERFORMANCE STEP: Document notification on Emergency Notification Sheet.	n Cover
	STANDARD: Document agency notified, time of contact and if the 4-way was used.	ringdown phone
	COMMENT: Time Critical: 12 minutes from step 1 (assumes 3 minutes for Shift Manger to fill out forms after declaration). Time critical stops when Ottawa and Lucas Counties are contacted by candidate as indicated by the time written on the Cover Sheet.	Time Stops
	CUE: None.	CAT LINICAT
		SAT UNSAT

5.	PERFORI	MANCE STEP: Transmit information from the Initial Notifica	ation Form.
	STANDAF	RD: Inform Lucas County and Ottawa County.	
	•	S) Repeatback Initial Notification Form information provide andidate.	by
			SAT UNSAT
6.	PERFORI	MANCE STEP: Contact State of Ohio using the Emergency Directory.	/ Plan Telephone
	STANDA	RD: Locate phone number for State of Ohio Highway Patrol the Immediate Notification section of the EPTD. The nu 614-466-2660.	
	COMMEN	NT: An outside line is not available on Simulator. The Simul phone will respond with a beeping signal when the Stat is dialed.	
	CUE:	Once the State of Ohio phone is found in the EPTD, dial x8282.	, have the candidate
			SAT UNSAT
7.	PERFORI	MANCE STEP: Contact State of Ohio using the Emergency Directory.	/ Plan Telephone
	STANDA	RD: Use normal telephone to contact State of Ohio.	
) This is the Ohio State Highway Patrol peat back Initial Notification Form information provided	by candidate
			SAT UNSAT
TEI	RMINATING	G CUES: This JPM is complete (Terminated by evaluator)	
			END TIME

Verification of Completion

Job Performance Measure No. <u>A-7</u>	
Examinee's Name:	
Examiner's Name:	
Date Performed:	
Facility Evaluator:	
Number of Attempts:	
Time to Complete:	
Question Documentation:	
Question:	
Response:	
Result: Satisfactory/Unsatisfactory	
Evaminer's signature and date:	

Job Performance Measure Worksheet

Form ES-C-1 JPM A-5

Facility: <u>Davis-Besse</u>	Task No: <u>334-012-05-0300</u>		
Task Title: Security Event Classification	and Notification		
K/A Reference: 2.4.43 (2.8/3.5)	Job Performance Measure No: A-5 (SRO only)		
Examinee:	NRC Examiner:		
Facility Evaluator:	Date:		
Method of testing:			
Simulated Performance	Actual Performance X		
Classroom Simulator _X_	Plant		
Read to the examinee:			

I 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:

The plant is at 100% power No equipment is out of service

Task Standard:

Perform actions required for a Security Event Classify emergency plan event in accordance with the Emergency Plan

Required Materials:

SAP numbers for candidiates

General References:

DB-OP-02544, Security Events or Threats RA-EP-01500, Emergency Classification Candidate SAP numbers NRC Security Authentication Code book

Initiating Cue:

You are the Shift Manager

The Security Supervisor reports to the Control Room that the plant has received information from the Ottawa County Sheriff of a Davis Besse Specific Credible Threat. The Ottawa Sheriff reports that an outside source is suspected of planning to take control of Davis-Besse in 2 hours Perform the required actions for this event.

This is a time critical JPM.

Time Critical Task: Yes

Validation Time: 10 minutes

INITIAL CONDITIONS:

The plant is at 100% power No equipment is out of service

INITIATING CUES:

You are the Shift Manager

The Security Supervisor reports to the Control Room that the plant has received information from the Ottawa County Sheriff of a Davis Besse Specific Credible Threat. The Ottawa Sheriff reports that an outside source is suspected of planning to take control of Davis-Besse in 2 hours Perform the required actions for this event.

This is a time critical JPM.

Job Performance Measure Worksheet

Form ES-C-1 JPM A-5

PERFORMANCE INFORMATION	N
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	STAR	T TIME:
1.	PERFORMANCE STEP: Locate a copy of DB-OP-02544, Security Even	ts or Threats
	STANDARD: Implements section 4.3 of DB-OP-02544	
	COMMENT: Critical to make classification within 15 minutes Candidate may go to procedure RA-EP-01500 first	
	CUE: Hand the trainee a copy of DB-OP-02544	
		SAT UNSAT
2.	PERFORMANCE STEP: Classify the event $_{\underline{\hspace{1cm}}}^{}$	
	STANDARD: Declare an Unusual Event per EAL 7.I.1 Time critical, 15 minute time limit from security Notification of threat	ime of declaration:
	CUE: None	
		SAT UNSAT
3.	PERFORMANCE STEP: Make a plant announcement $\sqrt{}$	
	STANDARD: Use the Gaitronics to sound the Initiate Emergency Alarm and announce the security threat	
	CUE: (If asked) Security concurs with the plant announcement (If asked) Security is not available to activate CANS (Compute Notification System)	terized
		SAT UNSAT

4.	PERFOF	RMANCE STEP: Notify the Emergency Response Organization	
	STANI	DARD: Dial CANS number 2412	
	COMM	ENT: The Simulator phone system will not respond to this number	er.
	(The CANS phone number has been dialed CANS answers: "This is the Remote Activation module." Please enter your scenario activation password followed by	the pound sign.
			SAT UNSAT
5.	PERFOF	RMANCE STEP: Notify the Emergency Response Organization	
	STANI	DARD: Enter the scenario activation password (individual's compa followed by the # sign	any SAP number)
	COMM	ENT: JPM Attachment has individual's company SAP numbers.	
	CUE:	(After SAP number and # are entered) "To start a scenario, enter the scenario ID followed by the press pound alone for more options."	oound sign, or
			SAT UNSAT
6.	PERFOI	RMANCE STEP: Notify the Emergency Response Organization	
	STANI	DARD: Press 1111 (scenario id number). "#" pressed	
	CUE:	(After scenario id number entered and # is pressed) "The pager event code is (scenario id number entered). "Press 1 to change the pager event code. "Press 2 to continue"	

SAT UNSAT

7. PERFROMANCE STEP: Notify the Emergency Response Organization

STANDARD: Press 2

CUE: (After 2 is pressed) "To start the scenario, press 3. To return to the main menu, press pound. To abort activation, Press pound"

SAT UNSAT

CUE: None

SAT UNSAT

8.	PERFOF √	RMANCE STEP: Notify the Emergency Response Organization	
	STANE	OARD: Press 3 to start the scenario	
	CUE:	(After 3 is pressed) "The scenario is building. To start a scenario, press 1, To stop a scenario, press 2, To check scenario information, press 3, To enter a different scenario activation password, press 4, To end this call, press pound,	
			SAT UNSAT
9.	PERFOF	RMANCE STEP: Notify the Emergency Response Organization	
	STANE	DARD: Press pound to end the call	
	CUE:	(After # is pressed) Goodbye	SAT UNSAT
10.	PERFC	RMANCE STEP: Prepare an Accelerated NRC Call form	
	STANE	DARD: Locate and prepare Form DB-0252 Line 1 - Candidate's name Line 2 - Check the first block, Davis-Besse Credible Threat Line 3 - Check Unusual Event Line 4 - Brief Description	

12. PERFORMANCE STEP: Make the NRC Accelerated call

STANDARD: Use the Emergency Notification System to notify the NRC Line 5 – Record time call completed

COMMENT: The simulator ENS phone will ring the I/S booth when the handset is picked up.

CUE: (When ENS phone is called, Role play as the NRC)

"NRC Operations Headquarters Office.

Who is calling?"

(After the individual identifies himself)

Repeat back information

SAT UNSAT

TERMINATING CUES: This JPM is complete. (Terminated by the examiner)

END TIME

Verification of Completion

Job Performance Measure No. A-5	
Examinee's Name:	
Examiner's Name:	
Date Performed:	
Facility Evaluator:	
Number of Attempts:	
Time to Complete:	
Question Documentation:	
Question:	
Response:	-
Result: Satisfactory/Unsatisfactory	
Examiner's signature and date:	