PSEG Nuclear LLC

Job Performance Measure

REVIEW A COMPLETED SURVEILLANCE TEST

JPM Number: 21-01 NRC SRO-A2

Revision Number: 00

Date: 07/26/2022

Developed By:	**R. Chan** **Instructor**	**Date:**	7/26/22
Validated By:	**T. Shetrone** **SME or Instructor**	**Date:**	8/18/22
Reviewed By:	**M. Winkelspecht** **Operations Representative**	**Date:**	11/29/22
Approved By:	**M. Wadusky** **Training Department (Print/Sign)**	**Date:**	11/29/22

REVISION RECORD (Summary)

Revision Number	Date	Reason
00	7/26/22	Converted to new template.

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

NOTE

All steps of this checklist should be performed upon initial validation. Prior to JPM usage, revalidate JPM using steps 8 and 11 below.

RC 1. Task description and number, JPM description and number are identified.

RC 2. Knowledge and Abilities (K/A) references are included.

RC 3. Performance location specified. (in-plant, control room, or simulator)

RC 4. Initial setup conditions are identified.

RC 5. Initiating and terminating cues are properly identified.

RC 6. Task standards identified and verified by SME review.

RC 7. Critical steps meet the criteria for critical steps and are identified with an asterisk (*)

RC 8. Verify the procedure referenced by this JPM matches the most current revision of that procedure:

Procedure(s) S2.OP-ST.CBV-0001 Rev. 9 Date Checked: 7/25/22
S2.RA-ST.CBV-0001 Rev. 7
Dwg 238805

RC 9. Pilot test the JPM:

a. Verify cues both verbal and visual are free of conflict, and

b. Ensure performance time is accurate.

NA 10. If the JPM cannot be performed as written with proper responses, then revise the JPM.

NA 11. When JPM is revalidated, SME or instructor sign and date JPM cover page

R. Chan 11/28/22
SME/Instructor Date

SME/Instructor Date

SME/Instructor Date

SIMULATOR SETUP INSTUCTIONS

1. None, this is an Admin JPM.

SPECIAL INSTRUCTIONS

1. Copies of Unit 2 Tech Specs for each applicant.
2. Copies of drawing 238805 are available if requested by applicant.

INITIAL CONDITIONS

- Salem Unit 2 is at 100% power
- The BOP operator just completed performing S2.OP-ST.CBV-0001, Inservice Testing Containment Ventilation Valves Modes 1-6.

INITIATING CUE

You are the CRS, complete the review of the completed surveillance procedure for accuracy and completeness starting at Step 5.4.3.A.

Document any discrepancies and evaluate Tech Specs if necessary.

TASK STANDARD:

The task is satisfactorily met when the applicant has determined the 2VC13 stroke time is in the Required Action Range and as a minimum TS LCO 3.6.3 Action 1.a is applicable, and 2VC12 is in the Required Evaluation Range and must be immediately retested with the results evaluated by the IST Implementation Engineer or the valve must be declared inoperable.

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Information for Evaluators Use:

UNSAT requires written comments on the respective step.

(*) **Denotes critical steps**

If Time Critical, estimated time is the Time Critical time.

The comment section should be used to document the reason that a step is marked as unsatisfactory and to document unsatisfactory performance relating to management expectations.

Some operations that are performed from outside of the control room may require multiple steps. These items may be listed as individual steps in this JPM. It is acceptable for the candidate to direct the local operator to perform groups of procedure steps instead of calling for each individual item to be performed.

The time clock starts when the candidate acknowledges the initiating cue.

ANSWER KEY (optional)

ATTACHMENT 2
(Page 1 of 2)

STROKE TIME DATA

1.0 **CONTAINMENT VENTILATION SAMPLE, REGULAR AND BACKUP, ISOLATION VALVES OPERATED FROM 2RP1:**

Component Description	Stroke	Stroke Time (sec)	Stopwatch Number	Stroke Date/ Time	Initials	Test Results		
						Acceptable Range SAT	Required Evaluation Range SAT	Required Action Range UNSAT
2VC7 21R Outlet VA	X (1) (3)	1.41	220940	Today	JP	JD		
2VC11 21R Inlet VA	X (1) (3)	1.88	220945	Today	JD	JD		
2VC8 22R Outlet VA	X (1) (3)	2.16	220940	Today	JD	JD		
2VC12 22R Inlet VA	X (1) (3)	2.81	220945	Today	JD	JD		
2VC9 21B Outlet VA	X (2) (3)	1.09	220940	Today	JD	JD		
2VC13 21B Inlet VA	X (2) (3)	2.83	220945	Today	JD	JD		
2VC10 22B Outlet VA	X (2) (3)	1.33	220940	Today	JD	JD		
2VC14 22B Inlet VA	X (2) (3)	2.31	220945	Today	JD	JD		
Acceptance Criteria:	Measured values are within bands specified in S2.RA-ST.CBV-0001(Q), Inservice Testing Containment Ventilation Valves Modes 1-6 Acceptance Criteria OR data represents new baseline data as determined by the IST Implementation Engineer.							

(1) **ENSURE** Containment BU Isolation Valves, 2VC9/13 and 2VC10/14, are OPEN.

(2) **ENSURE** Containment REG Isolation Valves, 2VC7/11 and 2VC8/12, are OPEN.

(3) Back Up Isolation Valves must be manually CLOSED from 2RP1 if a Phase A Containment Isolation Signal occurs.

Additional Reference(s):

Attachment 1, STROKE TIME DATA ACCEPTANCE CRITERIA

1.0 VALVE PERFORMANCE DATA:

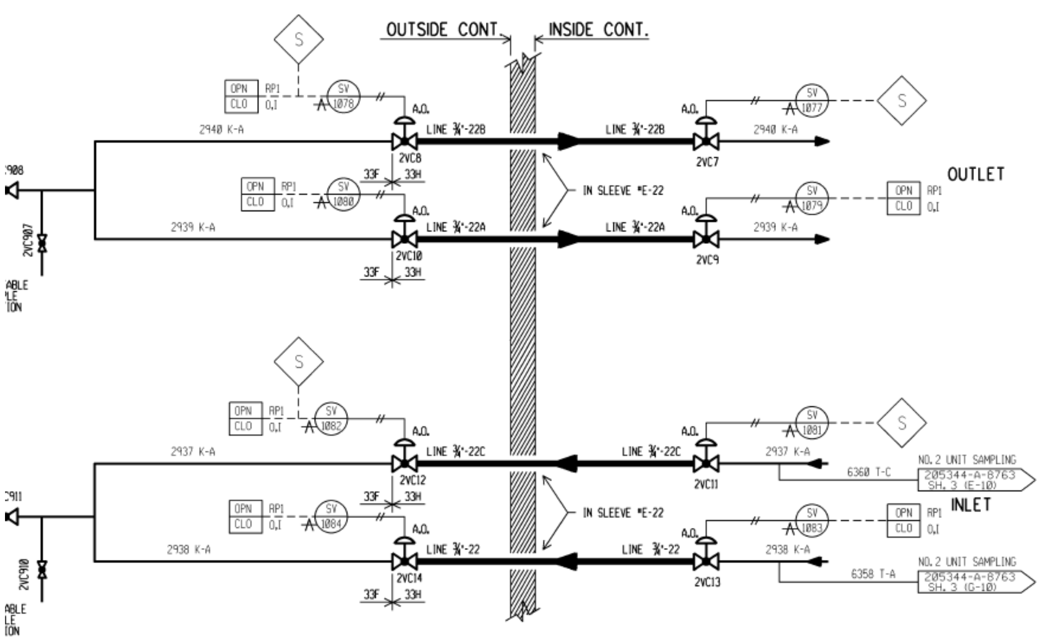
Component	Stroke	Reference Value (seconds)	Date	Test Results					
				Acceptable Range (seconds)	Required Evaluation (seconds)		Required Action Range (seconds)		TS/FSAR (seconds)
					Low	High	Low	High	
2VC7	X (1)	1.5 (2)	11/21/95	≤ 2.0	N/A	N/A	N/A	> 2.0	≤ 10.0
2VC11	X (1)	1.1 (2)	11/21/95	≤ 2.0	N/A	N/A	N/A	> 2.0	≤ 10.0
2VC8	X (1)	1.5 (6)	06/19/2001	0.8 - 2.3	< 0.8	> 2.3 - 3.0	N/A	> 3.0	≤ 10.0
2VC12	X (1)	1.8 (5)	10/14/00	0.9 - 2.7	< 0.9	> 2.7 - 3.6	N/A	> 3.6	≤ 10.0
2VC9	X (1)	0.9 (2)	11/21/95	≤ 2.0	N/A	N/A	N/A	> 2.0	N/A
2VC13	X (1)	0.9 (2)	11/21/95	≤ 2.0	N/A	N/A	N/A	> 2.0	N/A
2VC10	X (1)	1.9 (2)	01/27/2011	1.0 - 2.9	<1.0	>2.9 - 3.8	N/A	> 3.8	N/A
2VC14	X (1)	1.7 (2)	05/06/2009	0.9 - 2.6	<0.9	>2.6 - 3.4	N/A	> 3.4	N/A

(1) Credit is taken for satisfying the fail safe position.

(2) Reference value based on Order 40026547.

(5) Reference value based on Order 50027557.

(6) Reference value based on Order 60020334.



CONTAINMENT RADIATION MONITORING SYSTEM
SAMPLE INLET & OUTLET ISOLATION VALVES
REFERENCE DRAWING 238805-B-9638 (PIPING)

RECORD JPM Start Time:____________

STEP	CRITICAL	ELEMENT	STANDARD	GRADE (S/U)
N/A		**RECORD** the JPM Start Time when the operator acknowledges READY TO START JPM.		N/A
Cue: Provide candidate completed surveillance procedure (S2.OP-ST.CBV-0001), S2.RA-ST.CBV-0001 **and** Unit 2 Tech Specs. **Examiners Note: Drawing 238805 is available upon request**. Comments: N/A				
5.4.3.A		**REVIEW** this procedure with Attachments 1-4 for completeness and accuracy.	Applicant determines that 2VC13 stroke time was incorrectly recorded as SAT and should be "REQUIRED ACTION RANGE" and 2VC12 was incorrectly recorded as SAT and should be in the "REQUIRED EVALUATION RANGE"	
Cue: N/A Examiners Note: N/A Comments:				
5.4.3.B		IF valve stroke times are within the ACCEPTABLE RANGE, THEN **DECLARE** the applicable valve(s) OPERABLE.	Applicant determines that 2VC13 is INOPERABLE.	
Cue: N/A Examiners Note: N/A Comments:				

<table>
<tr><th>STEP</th><th>CRITICAL</th><th>ELEMENT</th><th>STANDARD</th><th>GRADE (S/U)</th></tr>
<tr><td>5.4.3.C</td><td>*</td><td>IF ANY valve's stroke time is within the REQUIRED EVALUATION RANGE,
THEN:
Immediately RETEST the respective valve OR Declare the valve inoperable</td><td>Determines 2VC12 is in the required evaluation range and must be retested immediately or declared inoperable, results of retest must be evaluated by the IST Implementation Engineer</td><td></td></tr>
<tr><td colspan="5">Cue: N/A

Examiners Note: N/A

<u>Comments:</u></td></tr>
<tr><td>5.4.3.D.1</td><td>*</td><td>IF ANY valve's stroke time is in the REQUIRED ACTION RANGE,
THEN:
Immediately DECLARE the respective valve(s) inoperable.</td><td>Applicant determines 2VC13 INOPERABLE based on the stroke time in the REQUIRED ACTION RANGE.</td><td></td></tr>
<tr><td colspan="5">Cue: N/A

Examiners Note: N/A

<u>Comments:</u></td></tr>
<tr><td>5.4.3.D.2</td><td>*</td><td>EVALUATE Technical Specification requirements for system operability.</td><td>Applicant determine that TS LCO 3.6.3 is NOT MET for 2VC13.

TS action 1a – restore the inoperable valve(s) to operable status within 4 hours,
<u>OR</u>
TS action 1.b the 2VC14 must be closed and deactivated within four hours of the stroke time.
<u>OR</u>
TS action 1.c the penetration must be isolated within four hours of the stroke time.
<u>OR</u>
TS action 1.d - HOT STANDBY in the next 6 hours and COLD SHUTDOWN in the following 30 hours.</td><td></td></tr>
</table>

STEP	CRITICAL	ELEMENT	STANDARD	GRADE (S/U)
Cue: N/A Examiners Note: N/A <u>Comments:</u>				
Terminating Cue		**JPM COMPLETE when the applicant submits the worksheet.**		N/A

RECORD JPM Stop Time: ____________

Operator's Name: ______________________ **Job Title:** RO ______ SRO __X__

Facility: Salem **JPM No.:** 21-01 NRC SRO-A2 **Revision No.:** 00

Task Title: Review a Completed Surveillance Test

Task No.: N1230010302

Source: Bank __X__ New ______ Mod ______

System: Equipment Control (Generic)

K/A Number / Description: G2.2.12 Knowledge of surveillance procedures.

K/A Rating RO 3.7 SRO 4.1

Task Applicability: SRO Only __X__ RO/SRO ______ AO/RO/SRO ______ Other ______________

Time-Critical: Yes ______ No __X__ **Alternate Path:** Yes ______ No __X__

Estimated Time to Complete: **10** Minutes

Actual Time Used:	Minutes

Method of Testing: Simulated Performance ______ Actual Performance __X__

Location: Classroom __X__ Simulator ______ In-Plant ______ RCA ______

Required Materials: S2.OP-ST.CBV-0001, S2.RA-ST.CBV-0001, and Salem Unit 2 Tech Specs

Reference(s): S2.OP-ST.CBV-0001 S2.RA-ST.CBV-0001 Salem Unit 2 Tech Specs
DWG 205338, sheet 1

EVALUATION SUMMARY:

Were all the Critical Elements (steps) performed satisfactorily? Yes ____ No ____

The operator's performance was evaluated against the standards contained in this JPM, and has been determined to be: Satisfactory _____ Unsatisfactory _____

Comments:

Evaluator's Name: ______________________________

Evaluator's Signature: ______________________________ **Date:** ____________

STUDENT HANDOUT/WORKSHEET

Operator's Name: ______________________

INITIAL CONDITIONS

- Salem Unit 2 is at 100% power
- The BOP operator just completed performing S2.OP-ST.CBV-0001, Inservice Testing Containment Ventilation Valves Modes 1-6.

INITIATING CUE

You are the CRS, review the completed surveillance procedure for accuracy and completeness starting at Step 5.4.3.A.

Document any discrepancies and evaluate Tech Specs if necessary.

RECORD YOU'RE RESPONSE ON THIS WORKSHEET