TASK CONDITIONS:

1. You are an extra operator on shift.
2. 2CV03F, Unit 2 RC Filter, needs to be replaced.
3. A worker tagout to isolate and drain 2CV03F, in accordance with BwOP CV-10, CV FILTERS ISOLATION AND RETURN TO SERVICE, step F.3, has been prepared by another operator.

INITIATING CUES:

1. Jim NSO asks you to peer check the clearance orders isolation points, sequence and OOS/RTS positions.
2. Inform Jim when you have completed the peer check.

TASK TITLE: **Verify Worker Tagout Checklist.**

JPM No.: **R-200**
Task No.: 4E.AM-06
Objective No.: R-AM-010

REV: NRC 09-1
K&A No.: 2.2.13
K&A IMP: 4.1/4.3

EXAMINEE: _____ RO SRO (circle one)

EVALUATOR: _____ DATE:_____

The Examinee: PASSED _____ this JPM.

FAILED _____

TIME STARTED: _____

TIME FINISHED:_____

JPM TIME:_____ MINUTES

CRITICAL ELEMENTS: **(*) 4, 6**

APPROX COMPLETION TIME: 30 MINUTES

CRITICAL TIME: **N/A**

EVALUATION METHOD:
_X_ PERFORM
___ SIMULATE

LOCATION:
_X_ IN PLANT
_X_ SIMULATOR

GENERAL REFERENCES:

1. OP-AA-109-101, CLEARANCE AND TAGGING, REV 1.
2. BwOP CV-10, CV FILTERS ISOLATION AND RETURN TO SERVICE, REV 18.
3. M-138, sheet 5B, DIAGRAM OF CVCS AND BTRS.
4. BwOP WX-197, CHANGING LIQUID RADWASTE FILTERS, Rev 19.

MATERIALS:

1. OP-AA-109-101, CLEARANCE AND TAGGING, REV 0.
2. BwOP CV-10, CV FILTERS ISOLATION AND RETURN TO SERVICE, REV 18.
3. M-138, sheet 5B, DIAGRAM OF CVCS AND BTRS.
4. BwOP WX-197, CHANGING LIQUID RADWASTE FILTERS, Rev 19.
5. Orange and green highlighting markers.

TASK STANDARDS:

1. Verify isolation points correct for 2CV03F.
2. Determine 2CV8425 position incorrect for 2CV03F.
3. Determine the sequence of isolation points for 2CV03F is incorrect.

TASK CONDITIONS:

1. You are an extra operator on shift.
2. 2CV03F, Unit 2 RC Filter, needs to be replaced.
3. A worker tagout to isolate and drain 2CV03F, in accordance with BwOP CV-10, CV FILTERS ISOLATION AND RETURN TO SERVICE, step F.3, has been prepared by another operator.

INITIATING CUES:

1. The Unit Supervisor directs you to peer check the clearance orders isolation points, sequence and OOS/RTS positions.

   CUE: Hand examinee partially completed Worker Tagout.
2. Inform Jim when you have completed the peer check.

RECORD START TIME: _____

	PERFORMANCE STEP	STANDARD	CIRCLE APPLICABLE
1.	Refer to BwOP CV-10, CV FILTERS ISOLATION AND RETURN TO SERVICE. **CUE: Provide examinee copy of BwOP CV-10.**	Refer to BwOP CV-10, step F.3:	SAT UNSAT N/A **Comments:**
2.	Refer to Drawing: • M-138, sheet 5B, DIAGRAM OF CVCS AND BTRS **CUE: Provide copy of M-138, sheet 5B.**	Refer to M-138, sheet 5B.	SAT UNSAT N/A **Comments:**
3.	Verify the clearance BOUNDARY for 2CV03F.	Determines clearance boundary valves selected are correct: • 2CV129 C/S, Demin Hi Temp Divert Valve. • 2CV8421, RC Filter Bypass Valve. • 2CV8425, RC Filter Inlet Isol Valve. • 2CV8422, RC Filter Outlet Isol Valve. • 2CV8424, RC Filter Drain Valve. • 2CV8423, RC Filter Vent Valve.	SAT UNSAT N/A **Comments:**

	EVALUATOR NOTE: The examinee may determine the clearance position is incorrect (JPM step 7) prior to determining the sequence is incorrect (JPM step 5), or the examinee may discover both errors simultaneously. The examinee must identify both errors to complete critical tasks 4 & 6.		
	EVALUATOR NOTE: The JPM contains corrected Worker Tagout checklist to be given to the examinee after the errors are identified. **If the examinee first determines the incorrect sequence is listed on the Worker Tagout checklist prior to determining the incorrect position is listed, provide examinee JPM page 7.** **If the examinee first determines the incorrect position is listed on the Worker Tagout checklist, provide examinee JPM page 8.** **When the examinee has determined BOTH the incorrect sequence and position are listed on the Worker Tagout checklist, provide examinee JPM page 9.**		
	PERFORMANCE STEP	**STANDARD**	**CIRCLE APPLICABLE**
***4.**	**Determine the clearance SEQUENCE for the 2CV03F is incorrect.** **CUE: Acknowledge as Unit Supervisor and inform examinee the checklist sequence will be corrected.** **CUE: Hand examinee corrected worker tagout in accordance with the evaluator note above.**	Determines clearance sequence is incorrect: 1. 2CV129 C/S, Demin Hi Temp Divert Valve. 2. 2CV8421 RC Filter Bypass Valve. **3. 2CV8422 RC Filter Outlet Isol Valve.** **4. 2CV8425 RC Filter Inlet Isol Valve.** 5. 2CV8424 RC Filter Drain Valve. 6. 2CV8423 RC Filter Vent Valve. o Notifies SM and NSOs of sequencing error.	SAT UNSAT N/A **Comments:**
5.	Verify the tag type for 2CV03F.	Verifies clearance tag type: • 2CV129 C/S, Demin Hi Temp Divert Valve – CI. • 2CV8421 RC Filter Bypass Valve - RI. • 2CV8425 RC Filter Inlet Isol Valve - RD. • 2CV8422 RC Filter Outlet Isol Valve - RD. • 2CV8424 RC Filter Drain Valve - RI. • 2CV8423 RC Filter Vent Valve - RI.	

	PERFORMANCE STEP	STANDARD	CIRCLE APPLICABLE
***6.**	**Determine the clearance POSITION for the 2CV03F is incorrect.** **CUE: Acknowledge as Unit Supervisor and inform examinee the checklist position will be corrected.** **CUE: Hand examinee corrected worker tagout in accordance with the evaluator note above.**	Determines clearance position is incorrect: • 2CV129 C/S, Demin Hi Temp Divert Valve – INFO. • 2CV8421 RC Filter Bypass Valve - INFO. • 2CV8425 RC Filter Inlet Isol Valve - CLOSED. • **2CV8422 RC Filter Outlet Isol Valve - OPEN.** • 2CV8424 RC Filter Drain Valve - INFO. • 2CV8423 RC Filter Vent Valve - INFO. o Notifies SM and NSOs of position error.	SAT UNSAT N/A **Comments:**

CUE: THIS COMPLETES THIS JPM.

RECORD STOP TIME: _____

COMMENTS:

SIMULATOR SETUP INSTRUCTIONS

- N/A

COMMENTS

- Provide copy of OP-AA-109-101, CLEARANCE AND TAGGING, REV 4, .
- Provide copy of BwOP CV-10, CV FILTERS ISOLATION AND RETURN TO SERVICE, REV 18.
- Provide copy of M-138, sheet 5B, DIAGRAM OF CVCS AND BTRS.

ATTACHMENT 14 PART 1
WTO Form Hang/Lift Section
Page 1 of 1

Exceptional C/O: ☒ Mode Dependent: ☐ Condition Dependent: ☐

Production Risk: ☐ Environmental Risk: ☐ Atmospheric Risk: ☐ Reactivity Risk: ☐

WORKER TAGOUT# **PO9-005** JOB DESCRIPTION: **CHANGE 2CV03F**

WORKING DEPARTMENT: **OPS** W/O OR W/R: **12345** EQUIP. TAG# **2CV03F**

COMPONENT DESCRIPTION: **UNIT 2 RC FILTER**

FIRST APPROVAL: ***Jim NSO*** DATE/TIME: ***Today/One hour ago***

SECOND APPROVAL: _____ DATE/TIME: _____

WTO AUTHORIZATION: _____ DATE/TIME _____

SPECIAL INSTRUCTIONS: YES: ☒ NO: ☐ (IF YES SEE ATTACHMENT 14 PART 2)

EQUIP. TAG/EQUIPMENT NAME	SEQ	TAG TYPE	POSITION	HUNG BY	VERIF. BY	SFTY. VERIF.	RTS SEQ	RTS POSITION	RTS BY	VERIF. BY
2CV129 C/S (DEMIN HI TEMP DIVERT VLV)	1	CI	INFO				3	AS REQUIRED		
2CV8421 RC FILTER BYPASS VLV	2	RI	INFO				1	OPEN		
2CV8425 RC FILTER INLET ISOL VLV	3	RD	CLOSED				2	CLOSED		
2CV8422 RC FILTER OUTLET ISOL VLV	4	RD	OPEN				2	CLOSED		
2CV8424 RC FILTER DRAIN VLV	5	RI	INFO				2	CLOSED		
2CV8423 RC FILTER VENT VLV	6	RI	INFO				2	CLOSED		

WTO PLACED: _____ DATE/TIME: _____

WTL COMPLETED WORK START: _____ DATE/TIME: _____

WTO FINAL CLEAR: WORK CREWMEMBER RELEASE: _____ DATE/TIME: _____

WTO CLEARED: _____ DATE/TIME: _____

(COPIES MAY BE MADE OF THIS FORM FOR ADDITIONAL ISOLATION POINTS)

ATTACHMENT 14 PART 1

WTO Form Hang/Lift Section

Page 1 of 1

Exceptional C/O: ☒ Mode Dependent: ☐ Condition Dependent: ☐

Production Risk: ☐ Environmental Risk: ☐ Atmospheric Risk: ☐ Reactivity Risk: ☐

WORKER TAGOUT# **PO9-005** JOB DESCRIPTION: **CHANGE 2CV03F**

WORKING DEPARTMENT: **OPS** W/O OR W/R: **12345** EQUIP. TAG# **2CV03F**

COMPONENT DESCRIPTION: **UNIT 2 RC FILTER**

FIRST APPROVAL: ***Jim NSO*** DATE/TIME: ***Today/One hour ago***

SECOND APPROVAL: _____ DATE/TIME: _____

WTO AUTHORIZATION: _____ DATE/TIME _____

SPECIAL INSTRUCTIONS: YES: ☒ NO: ☐ (IF YES SEE ATTACHMENT 14 PART 2)

EQUIP. TAG/EQUIPMENT NAME	SEQ	TAG TYPE	POSITION	HUNG BY	VERIF. BY	SFTY. VERIF.	RTS SEQ	RTS POSITION	RTS BY	VERIF. BY
2CV129 C/S (DEMIN HI TEMP DIVERT VLV)	1	CI	INFO				3	AS REQUIRED		
2CV8421 RC FILTER BYPASS VLV	2	RI	INFO				1	OPEN		
2CV8422 RC FILTER OUTLET ISOL VLV	3	RD	CLOSED				2	CLOSED		
2CV8425 RC FILTER INLET ISOL VLV	4	RD	CLOSED				2	CLOSED		
2CV8424 RC FILTER DRAIN VLV	5	RI	INFO				2	CLOSED		
2CV8423 RC FILTER VENT VLV	6	RI	INFO				2	CLOSED		

WTO PLACED: _____ DATE/TIME: _____

WTL COMPLETED WORK START: _____ DATE/TIME: _____

WTO FINAL CLEAR: WORK CREWMEMBER RELEASE: _____ DATE/TIME: _____

WTO CLEARED: _____ DATE/TIME: _____

(COPIES MAY BE MADE OF THIS FORM FOR ADDITIONAL ISOLATION POINTS)

ATTACHMENT 14 PART 1

WTO Form Hang/Lift Section

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Exceptional C/O: ☒ Mode Dependent: ☐ Condition Dependent: ☐

Production Risk: ☐ Environmental Risk: ☐ Atmospheric Risk: ☐ Reactivity Risk: ☐

WORKER TAGOUT# **PO9-005** JOB DESCRIPTION: **CHANGE 2CV03F**

WORKING DEPARTMENT: **OPS** W/O OR W/R: **12345** EQUIP. TAG# **2CV03F**

COMPONENT DESCRIPTION: **UNIT 2 RC FILTER**

FIRST APPROVAL: ***Jim NSO*** DATE/TIME: ***Today/One hour ago***

SECOND APPROVAL: _____ DATE/TIME: _____

WTO AUTHORIZATION: _____ DATE/TIME _____

SPECIAL INSTRUCTIONS: YES: ☒ NO: ☐ (IF YES SEE ATTACHMENT 14 PART 2)

EQUIP. TAG/EQUIPMENT NAME	SEQ	TAG TYPE	POSITION	HUNG BY	VERIF. BY	SFTY. VERIF.	RTS SEQ	RTS POSITION	RTS BY	VERIF. BY
2CV129 C/S (DEMIN HI TEMP DIVERT VLV)	1	CI	INFO				3	AS REQUIRED		
2CV8421 RC FILTER BYPASS VLV	2	RI	INFO				1	OPEN		
2CV8425 RC FILTER INLET ISOL VLV	3	RD	CLOSED				2	CLOSED		
2CV8422 RC FILTER OUTLET ISOL VLV	4	RD	CLOSED				2	CLOSED		
2CV8424 RC FILTER DRAIN VLV	5	RI	INFO				2	CLOSED		
2CV8423 RC FILTER VENT VLV	6	RI	INFO				2	CLOSED		

WTO PLACED: _____ DATE/TIME: _____

WTL COMPLETED WORK START: _____ DATE/TIME: _____

WTO FINAL CLEAR: WORK CREWMEMBER RELEASE: _____ DATE/TIME: _____

WTO CLEARED: _____ DATE/TIME: _____

(COPIES MAY BE MADE OF THIS FORM FOR ADDITIONAL ISOLATION POINTS)