

Job Performance Measure "C"

Facility: Vogtle

Task No: V-LO-TA-37011

Task Title: Depressurize RCS to Reduce Break Flow to Ruptured Steam Generator-Normal Pressurizer Spray Not Available and 1st PORV block valve fails to open. (Alternate Path)

JPM No: V-NRC-JP-19030-HL17

K/A Reference: 038EA1.04 RO 4.3 SRO 4.1

Examinee: _____ NRC Examiner: _____

Facility Evaluator: _____ Date: _____

Method of testing:

Simulated Performance _____ Actual Performance _____

Classroom _____ Simulator _____ 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: A tube rupture has occurred on SG-1. The crew has transitioned from 19000-C, "E-0 Reactor Trip or Safety Injection" to 19030-C, "E-3 Steam generator Tube Rupture." Steps 1 through 33 of 19030-C have been performed. Normal pressurizer spray was not available.

Initiating Cue: The SS has directed you to "Depressurize the RCS beginning with EOP 19030-C step 34."

Task Standard: RCS depressurized using a PORV to at or slightly below ruptured SG pressure per EOP 19030-C.

Required Materials: EOP 19030-C Ver. 37.1, "Steam Generator Tube Rupture". All steps marked up to step 34.

General References: None

Time Critical Task: No

This JPM is reuse from Exam 2011-301. The JPM number was V-LO-JP-19030-007.

Validation Time: 11 minutes

SIMULATOR SETUP:

Simulator Setup:

1. Reset to IC # 213 for HL-17 NRC Exam.

Simulator Setup from Scratch:

1. Reset to IC # 14 (100% MOL).
2. Override: PIC-455B to "CNT DN."
3. Override: PIC-455C to "CNT DN."
4. Override HV-8145 Aux Spray to close.
5. Insert malfunction SG01A at 50%.
6. Initiate manual Rx Trip and SI.
7. Throttle AFW flow to ~ 200gpm per SG.
8. Verify ruptured SG level > 10% NR.
9. Perform 19030 steps 1 through 33.
10. Insert Override HS-8000G to Block
11. Insert Override HS-8000H to Block
12. Ack/Reset alarms.
13. Freeze simulator

Setup time from scratch: 20 minutes

Performance Information

Critical steps denoted with an asterisk and bolded.

***Step 34** **Depressurize RCS using a PRZR PORV to refill PRZR:**

a. **Arm one available train of COPS and check PRZR PORV Block Valve – OPEN.**

NOTE to simulator operator: After candidate arms COPS, remove the override from the other train of COPS.

Standard: The candidate recognizes that the PRZR PORV Block Valve did not OPEN.

Comment:

Step 34.a RNO

Open PRZR PORV Block Valve.

Standard: The candidate recognizes that the PRZR PORV Block Valve did not remain open when handswitch released.

Comment:

***Step 34.a Arm one available train of COPS and check PRZR PORV Block Valve – OPEN.**

Standard: The candidate now arms the opposite train of COPS and checks the Block Valve OPEN. If the candidate does not use the second PORV and goes to Auxiliary Spray , then performance is unsatisfactory.

NOTE to examiner: The candidate may block the first train of COPS before arming the opposite train.

CUE: If asked, "SS desires the COPS train placed in Block."

Comment:

***Step 34.b Open one PRZR PORV.**

Standard: The candidate opens one PRZR PORV.

Comment:

Step 34.c Go To Step 37.

Standard: The candidate goes to Step 37.

Comment:

Step 37 Check if ANY of the following conditions are satisfied:

BOTH of the following:

- RCS pressure – LESS THAN RUPTURED SG(s) PRESSURE.
- PRZR level – GREATER THAN 9% [37% ADVERSE.]

OR

- RCS Subcooling – LESS THAN 24°F [38 °F ADVERSE.]

OR

- PRZR level – GREATER THAN 75% [52% ADVERSE.]

Standard: The candidate monitors these parameters until one of the criteria is satisfied.

Comment:

***Step 38 Terminate RCS depressurization:**

- a) Verify Normal PRZR Spray valve(s) – CLOSED.
- b) Verify PRZR PORV(s) – CLOSED.**
- c) **Block COPS.**
- d) Check Auxiliary Spray – IN SERVICE.

Standard: The candidate checks Normal PRZR Spray valves CLOSED.
The candidate shuts the open PORV.
The candidate blocks both trains of COPS.

Note to Examiner: One train of COPS may have been previously blocked prior to arming the opposite train.

The candidate checks auxiliary spray NOT IN SERVICE.

Comment:



Step 39 Check RCS pressure – RISING.

Standard: Candidate notes that RCS pressure is RISING.

Comments:

Terminating Cue: “Another operator will continue this procedure.”

Verification of Completion

Job Performance Measure No. V-NRC-JP-19030-HL17

Examinee's Name:

Examiner's Name:

Date Performed:

Number of Attempts:

Time to Complete:

Question Documentation:

Question: _____

Response: _____

Result: Satisfactory/Unsatisfactory

Examiner's signature and date: _____

Initial Conditions: A tube rupture has occurred on SG-1. The crew has transitioned from 19000-C, "E-0 Reactor Trip or Safety Injection" to 19030-C, "E-3 Steam generator Tube Rupture." Steps 1 through 33 of 19030-C have been performed. Normal pressurizer spray was not available.

Initiating Cue: The SS has directed you to "Depressurize the RCS beginning with EOP 19030-C step 34."