Job Performance Measure "I"

Facility: **Vogtle**

Task No: V-LO-TA-60025

Task Title: **Establish RWST Gravity Drain Through RHR Pumps to RCS Hot Legs**

JPM No: V-NRC-JP-18019-HL17

K/A Reference: 025G2.1.20 RO 4.6 SRO 4.6

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: **During mid-loop operations, Unit 2 experienced a loss of all AC power to the 1E buses. The crew is attempting to align the RWST for gravity drain to the RCS. There is an inter systems LOCA on the "B" RHR train.**

The RCS is at 0 psig and the Reactor Vessel head removed.

Initiating Cue: **The SS has directed you to "Perform AOP 18019-C Attachment A, to align Train A for gravity drain at the greatest possible flowrate." Flow paths using the cold legs are UNAVAILABLE.**

Task Standard: RWST Gravity Drain aligned through RHR.

Required Materials: 1) AOP 18019-C Ver. 29.0
2) RWP and required dosimetry.

This JPM is a reuse from Exam 2011-301. The JPM number was V-NRC-JP-18019-003.

General References: None

Time Critical Task: No

Validation Time: 12 minutes

Performance Information

Critical steps denoted with an asterisk

ATTACHMENT A: RWST GRAVITY DRAIN TO RCS

NOTE
This attachment should not be used if an ECCS pump is available.

Standard: Determines ECCS pump not available due to loss of all AC power to 1E busses.

Comment:

ATTACHMENT A: RWST GRAVITY DRAIN TO RCS

CAUTION
An RCS pressure of 35 psig allows no RWST to RCS gravity drain.

Step 1: Check RCS pressure – LESS THAN 35 psig.

Standard: Determines RCS pressure < 35 psig.

Comment:

Step 2: Verify at least one of the following RCS Vent Paths:

a RV head removed.
b..... other conditions that are NOT applicable.

Standard: Determines RV head off from initial conditions.

Comment:

NOTES

- It is desirable to gravity drain to a closed cold leg using Section A or B.
- If a closed cold leg is unavailable, Section C or D should be performed for gravity drain to a hot leg.
- Gravity drain paths through the RHR loops are preferable since these can achieve the greatest flow rate.

Standard: Student reads note.

Comment:

Step 3: If desired to gravity drain from RWST through RHR pumps to cold legs, then go to Section A of this attachment.

Standard: Student determines Section A should not be used due to flow path to cold legs not available.

Comment:

Step 4: If desired to gravity drain from RWST through SI pumps to cold legs, then go to Section B of this attachment.

Standard: Determines Section B should not be used due to a closed cold leg being unavailable from initiating cue.

Comment:

Step 5: IF desired to gravity drain from RWST through RHR pumps to hot legs, THEN Go to Section C of this attachment.

Standard: Determines Section C should be used.

Comment:

ATTACHMENT A
SECTION C: RWST GRAVITY DRAIN THROUGH
RHR PUMPS TO HOT LEGS

NOTE to examiner: This valve is inaccessible, the path of ingress should be to the closest point allowed by radiological conditions. Use attached pictures or flow loop valve for student to indicate valve position and describe operation. The first three pictures are for this valve. (Closed)

***C1. Locally throttle open the following RWST TO RHR PMP-A SUCTION VALVE.**

2-HV-8812A (AB-D22)

Standard: Locates valve and determines current position is closed based on valve position indicator.

Throttles open 2-HV-8812A (AB-D22).

NOTE to examiner: The student should indicate he would depress the manual lever down to engage the handwheel and turn the handwheel counterclockwise.

Comment:

NOTE to examiner: This valve is inaccessible, the path of ingress should be to the closest point allowed by radiological conditions. Use attached pictures or flow loop valve for student to indicate valve position and describe operation. The fourth and fifth pictures are for this valve. (Open)

*C2. **Locally close the following RHR PMP-A TO COLD LEG ISO VLV valve:**

2-HV-8809A (AB-A103)

Standard: **Locates valve and determines current position is open based on valve position indicator.**

Determines valve position then closes valve 2-HV-8809A (AB-A103).

NOTE to examiner: The student should indicate he would depress the manual lever down to engage the handwheel and turn the handwheel clockwise.

Comment:

C3. Verify RHR PMP-A SUCTION FROM HOT LEG LOOP isolation valve open:

CUE: "The RHR Suction from hot leg loop isolation valves have been verified open."

Standard: None.

Comment:

C4. RV level may be maintained by throttling valves in Step C1 or by cycling valves in Step C3.

Standard: Valves are left open to achieve greatest flow per initial conditions.

Comment:

Terminating cue: Student returns initiating cue sheet

Verification of Completion

Job Performance Measure No. V-NRC-JP-18019-HL17

Examinee's Name:

Examiner's Name:

Date Performed:

Number of Attempts:

Time to Complete:

Question Documentation:

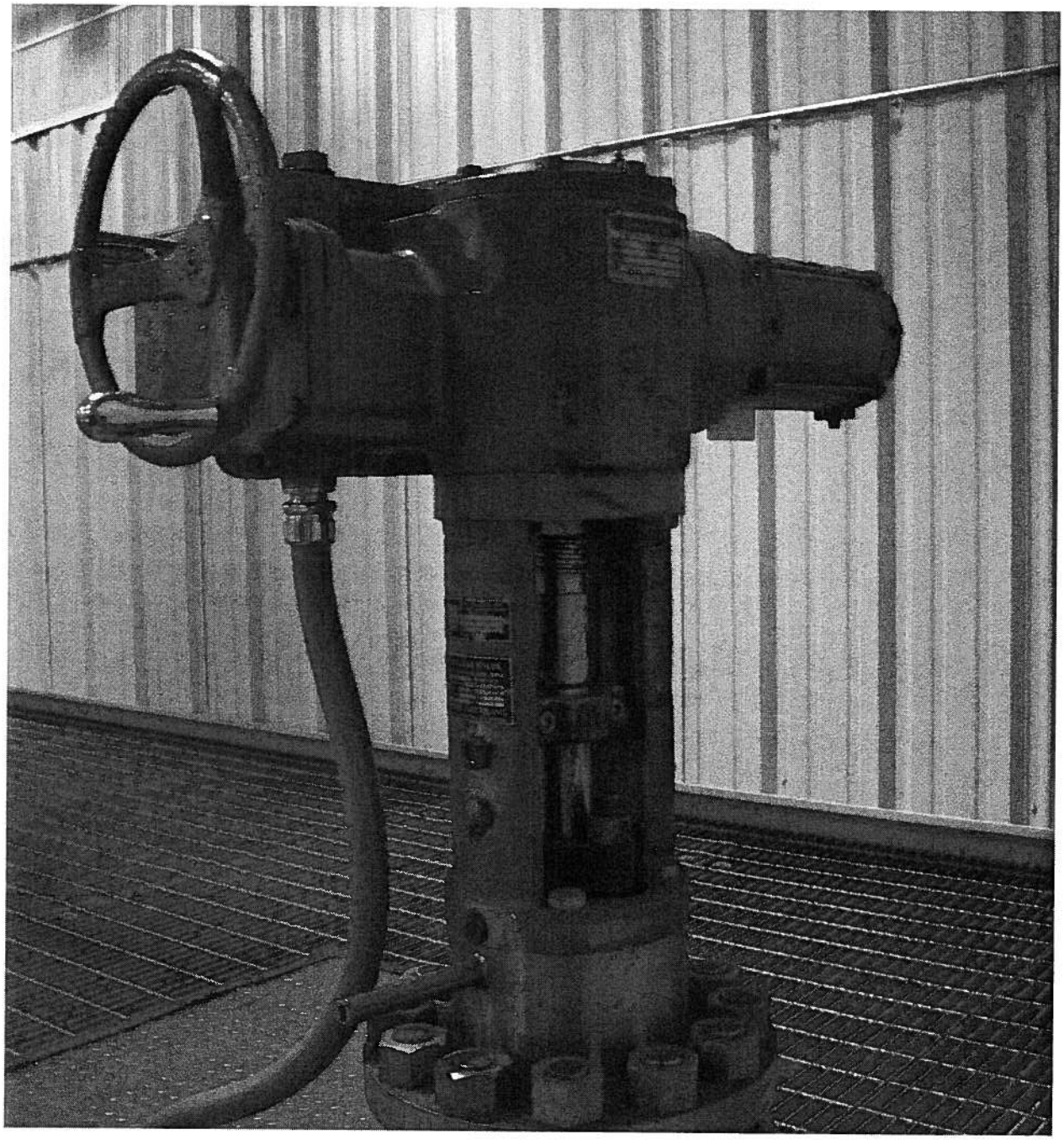
Question:_____
_____
_____

Response:_____
_____
_____
_____

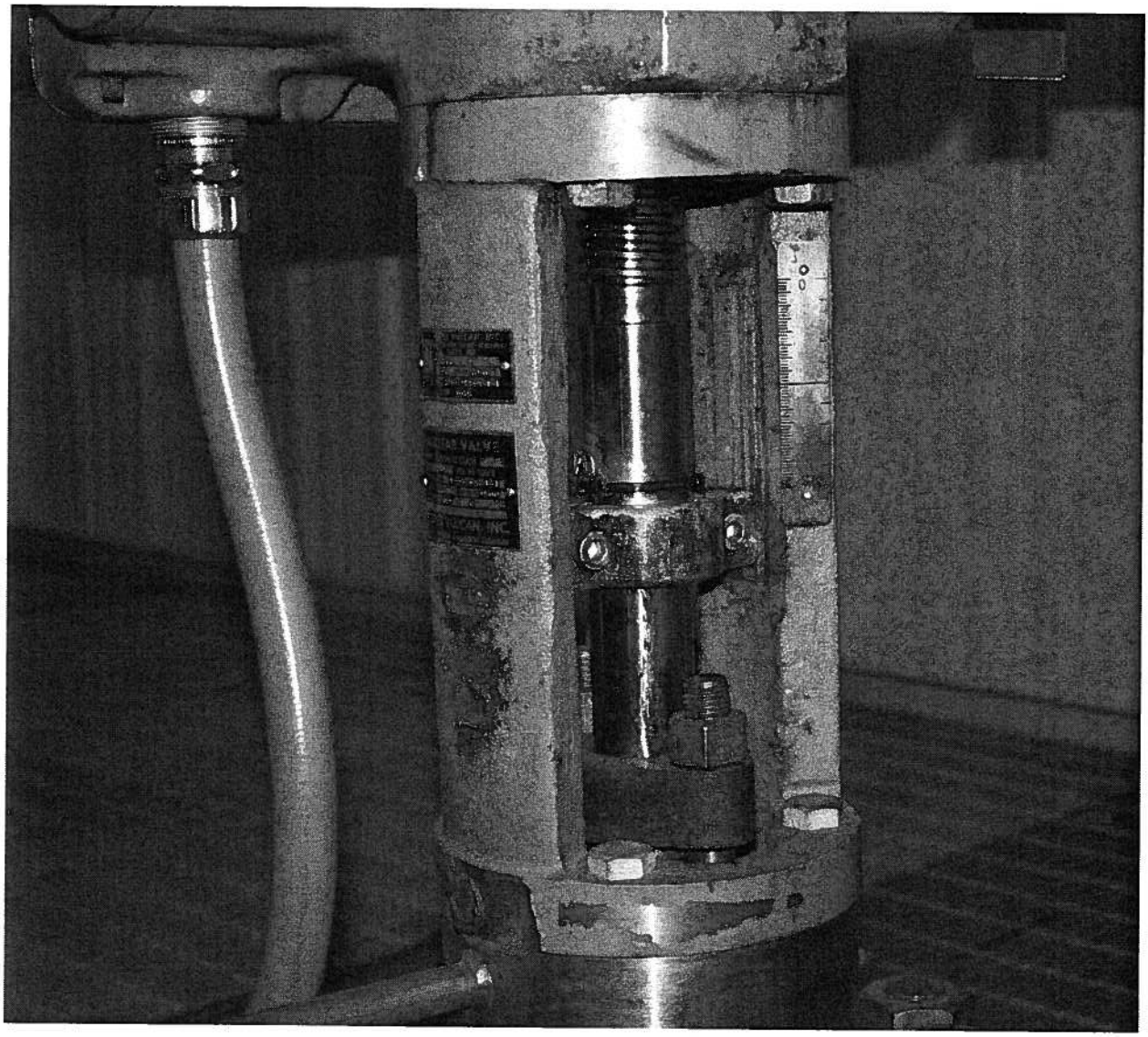
Result: Satisfactory/Unsatisfactory

Examiner's signature and date: _____ _____

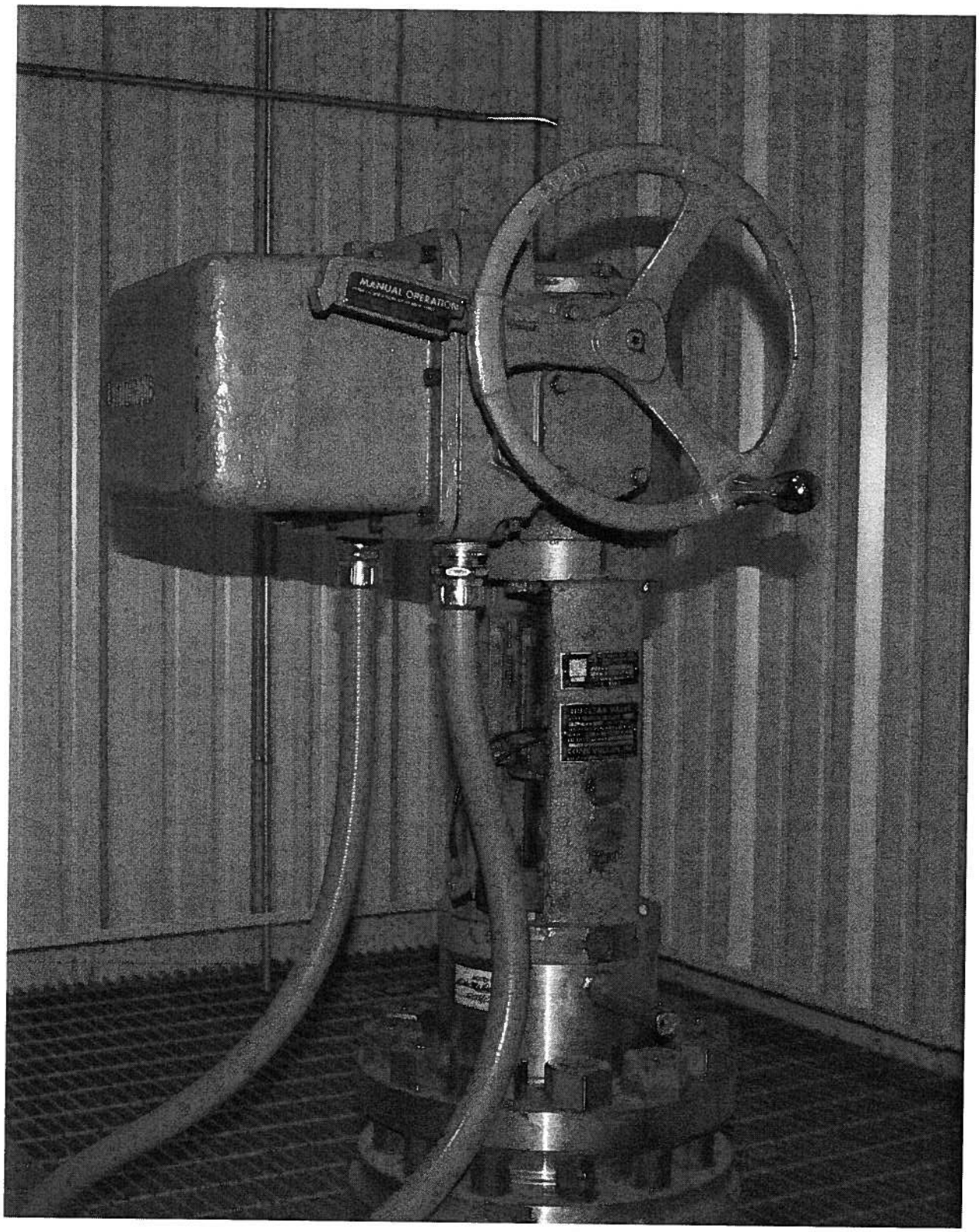
MOV PICTURES



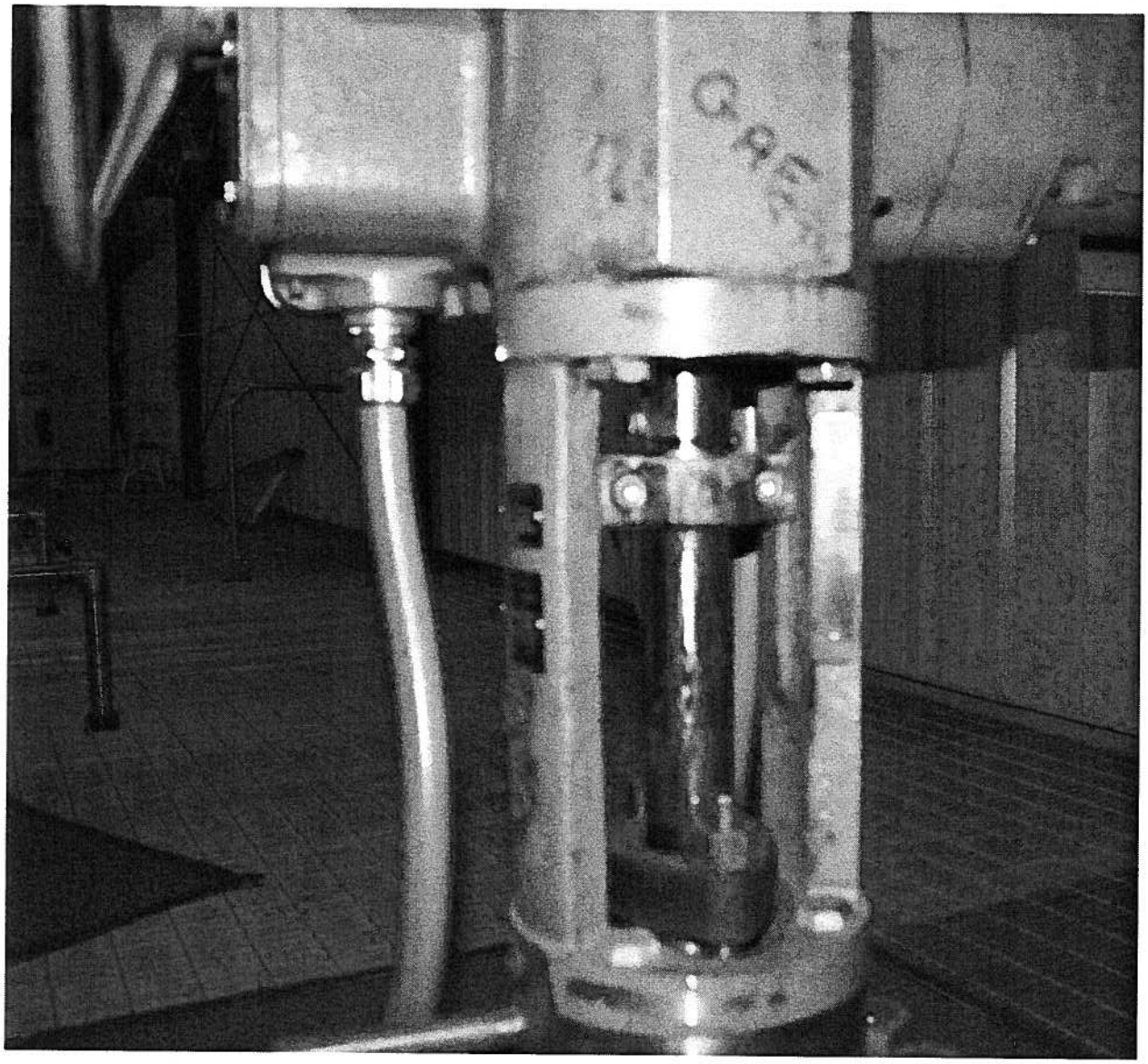
Picture 1



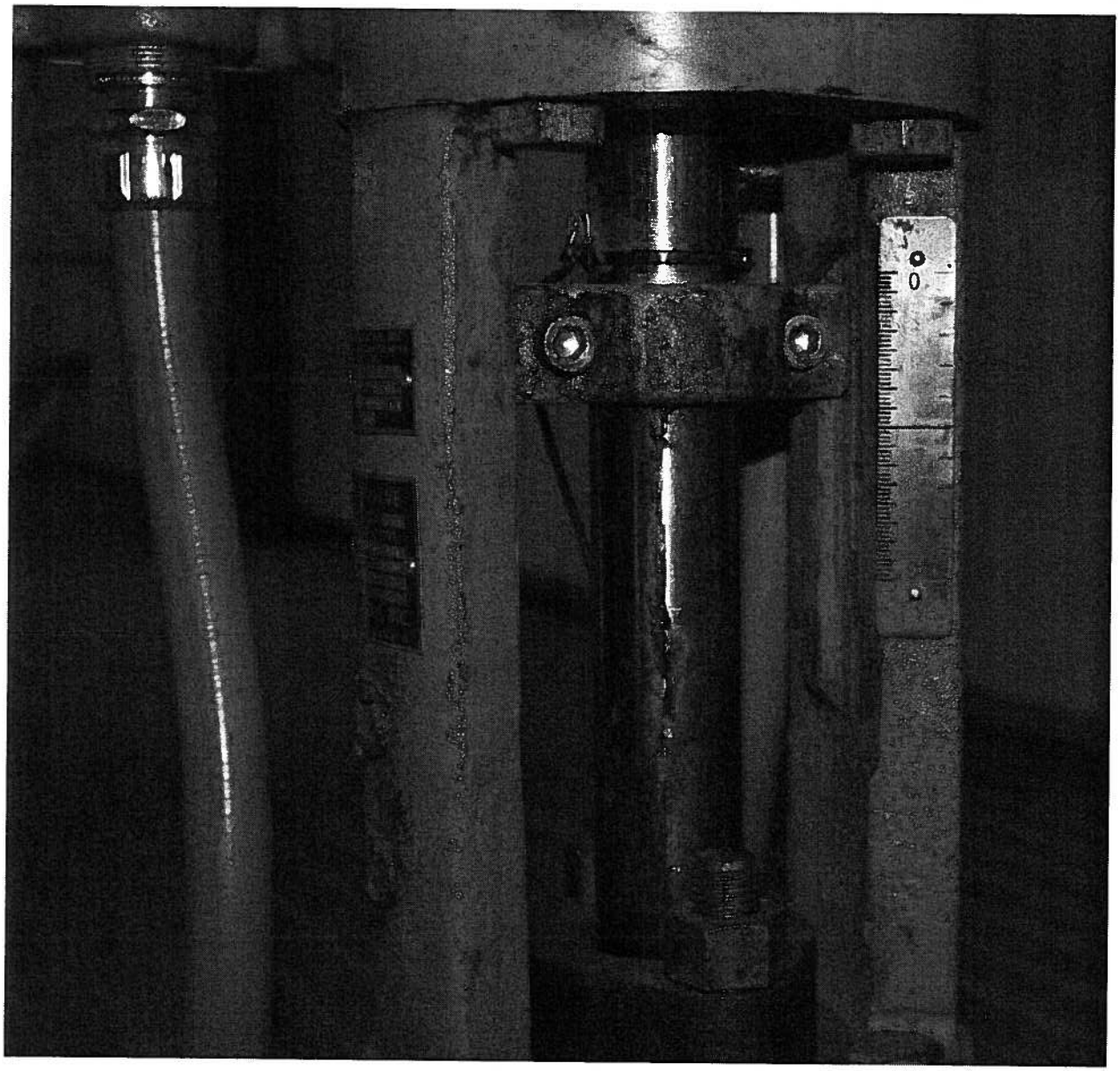
Picture 2



Picture 3



Picture 4



Picture 5

Initial Conditions: During mid-loop operations, Unit 2 experienced a loss of all AC power to the 1E buses. The crew is attempting to align the RWST for gravity drain to the RCS. There is an inter systems LOCA on the "B" RHR train.

The RCS is at 0 psig and the Reactor Vessel head removed.

Initiating Cue: The SS has directed you to "Perform AOP 18019-C Attachment A, to align Train A for gravity drain at the greatest possible flowrate." Flow paths using the cold leg are UNAVAILABLE.