

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

August 11, 1978

Mr. James P. O'Reilly, Director  
Office of Inspection and Enforcement  
U. S. Nuclear Regulatory Commission  
Region II  
101 Marietta Street, Suite 3100  
Atlanta, Georgia 30303

Serial No. 463  
FO&M/DLB:das  
Docket No. 50-281  
License No. DPR-37

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COMMUNICATIONS UNIT

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Dear Mr. O'Reilly:

Pursuant to Surry Power Station Technical Specifications, the Virginia Electric and Power Company hereby submits the following Licensee Event Report for Surry Unit No. 2.

Report No.	Applicable Technical Specification
LER 78-026/03L-0	TS 6.6.2.b.(3)

This report has been reviewed the Station Nuclear Safety and Operating Committee and will be placed on the agenda for the next meeting of the System Nuclear Safety and Operating Committee.

Very truly yours,

*C. M. Stallings*

C. M. Stallings  
Vice President - Power Supply  
and Production Operations

Enclosures (3 copies)

cc: Dr. Ernst Volgenau, Director (30 copies)  
Office of Inspection and Enforcement

Mr. William G. McDonald, Director (3 copies) ✓  
Office of Management Information  
and Program Control

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Surry Power Station, Unit 2  
Docket No: 50-281  
Report No: 78-026/03L-0  
Event Date: 7-12-78

### Foreign Material in Valves

1. Description:

With the unit at cold shutdown, a follow-up inspection was being conducted on valves susceptible to foreign material inclusion but not previously inspected. The eight-inch solid disc gate valves in the containment spray lines (MOV-CS-201C and C) were found to have their disc and body seating surfaces very lightly coated with a grease like material. The material upon removal was estimated at a total quantity of not more than five milliliters and was identified as "O" ring grease. The event is currently considered reportable in accordance with Technical Specification 6.6.2.b.(3).

2. Probable Consequences/Status of Redundant Systems:

In conjunction with the inspection, a limited program of valve testing (10CFR50 App. J, Type C Test) was conducted to evaluate the effect of lubricants on the leak tightness of the valves. Tests were conducted: prior to opening; after opening and cleaning; with light lubricant; and finally completely clean and dry.

The results of the tests to date have been inconclusive with respect to the effect of lubricants as aids to sealing of the valves.

The valves examined are closed in normal operation and any leakage through the valves would be leakage into containment. Under conditions in which containment out leakage was probable, the valves would contain a water seal and would be backed up by check valves inside the containment. On this basis, the health and safety of the public have not been affected.

3. Cause:

According to the best recent information available, the material had been introduced into the valves at some earlier time to lubricate the internal metal-to-metal contact during dry testing.

4. Immediate Corrective Action:

The valves were solvent cleaned, and were assured to be free of all foreign material prior to final close out.

5. Subsequent Corrective Action:

With the valves cleaned and tested, no further action of a repair nature was required. The investigation will continue on the use of light lubricants to prevent damage to disc and body seating surfaces during assembly and dry testing of valves.

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Foreign Materials in Valves

6. Actions Taken to Prevent Recurrence:

On May 30, 1978, an administrative policy was issued to all station employees regarding the materials to be used in Type C testing as defined in 10CFR 50 App. J.

The procedures governing valve repair were changed on June 1, 1978 to include QC witness of valve close-outs.

7. Generic Implications:

Completion of the follow-up inspection and implementation of the actions in 6 above preclude any generic implications.