

PRIORITY ATTENTION REQUIRED MORNING REPORT - REGION I OCTOBER 19, 1993

Licensee/Facility:

Duquesne Light Co.  
Beaver Valley 2  
Shippingport, Pennsylvania

Notification:

MR Number: 1-93-0108  
Date: 10/19/93  
RI PC

Dockets: 50-412  
PWR/W-3-LP

Subject: MOV DESIGN DEFICIENCY

Reportable Event Number: N/A

Discussion:

On October 17, 1993, the licensee was attempting to run a full flow surveillance test on one of the recirculation spray pumps (2RSS-P21D). The pump did not pass any flow when it was started. The licensee found that the pump suction valve did not open because the valve stem had uncoupled from the operator. Upon further investigation, the licensee found that two of the remaining three recirculation spray pump suction valves were starting to decouple.

The cause of the decoupling appears to be a design deficiency. The recirculation spray pump suction valves are 12-inch Henry Prat 1400 series butterfly valves with Limitorque HBC-1 operators. The spline adapter which couples the valve operator to the valve stem was not restrained in the vertical direction. Consequently, the spline adapter can slip down the valve stem. The licensee thinks that the spline

adapters should have been pinned to the stem, or the plate that is installed at the base of the operator should have been designed to prevent vertical movement of the spline adapter.

Unit 2 is in a refueling outage and the core is stored in the spent fuel pool. The licensee did not consider the valves inoperable or the situation reportable under 10 CFR 50.72 because all the valves were successfully cycled at the beginning of the outage.

The licensee is working with Henry Prat to determine the generic implications and 10 CFR Part 21 reportability of the problem. Unit 2 has approximately 48 valves that are similar to the recirculation spray pump suction valves. Unit 1 only has one valve with a similar design, but it is not used in a safety-related application.

Regional Action:

The resident inspector is onsite monitoring licensee activities.

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