



## Duquesne Light

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July 27, 1983

United States Nuclear Regulatory Commission  
Region I  
631 Park Avenue  
King of Prussia, PA 19406

ATTENTION: Dr. Thomas E. Murley  
Administrator

SUBJECT: Beaver Valley Power Station - Unit No. 2  
Docket No. 50-412  
Emergency Diesel Generator Thermostatic Control Valve "O" Ring  
Significant Deficiency Report No. 83-07, Final Report

Gentlemen:

Pursuant to the requirements of 10CFR50.55(e), the Final Report on the Emergency Diesel Generator Thermostatic Control Valve "O" ring (Robertshaw Model I-1285-S25) is attached for your review. If there are any questions concerning this report, please contact the Beaver Valley No. 2 Project Office.

DUQUESNE LIGHT COMPANY

By

*E. J. Woolever*  
*E. J. Woolever*  
E. J. Woolever  
Vice President

JS/wjs  
Attachment

cc: Mr. R. DeYoung, Director  
Office of Inspection and Enforcement (3) (w/a)  
NRC Document Control Desk (w/a)  
Mr. G. Walton, NRC Resident Inspector (w/a)  
Ms. L. Lazo, Project Manager (w/a)  
INPO Records Center (w/a)

SUBSCRIBED AND SWORN TO BEFORE ME THIS  
27th DAY OF July, 1983.

*Anita Elaine Reiter*  
Notary Public

ANITA ELAINE REITER, NOTARY PUBLIC  
ROBINSON TOWNSHIP, ALLEGHENY COUNTY  
MY COMMISSION EXPIRES OCTOBER 20, 1986

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COMMONWEALTH OF PENNSYLVANIA )  
 ) SS:  
COUNTY OF ALLEGHENY )

On this 27th day of July, 1983, before me,  
a Notary Public in and for said Commonwealth and County, personally  
appeared E. J. Woolever, who being duly sworn, deposed and said that (1)  
he is Vice President of Duquesne Light, (2) he is duly authorized to exe-  
cute and file the foregoing Submittal on behalf of said Company, and (3)  
the statements set forth in the Submittal are true and correct to the best  
of his knowledge.

Anita Elaine Reiter  
Notary Public

ANITA ELAINE REITER, NOTARY PUBLIC  
ROBINSON TOWNSHIP, ALLEGHENY COUNTY  
MY COMMISSION EXPIRES OCTOBER 20, 1986

BEAVER VALLEY POWER STATION - UNIT NO. 2  
DUQUESNE LIGHT COMPANY

Report on Potential Deficiency of Emergency  
Diesel Generator Thermostatic Control Valve "O" Ring

1. SUMMARY

Robertshaw Controls Company reported to the NRC (IE Information Notice No. 83-56) that the Robertshaw thermostatic flow control valves (SWEC Mark Nos. 2EGS&TCV201-1, 2) provided on the BVPS-2 emergency diesel generator sets (PO-2BV-230) are potentially defective. Malfunction of these valves could cause overcooling/overheating of the diesel engines.

2. IMMEDIATE ACTION TAKEN

Mr. E. F. Kurtz, Jr., Manager of Duquesne Light Company's Regulatory Affairs Department, notified Mr. Lowell Tripp of the NRC, Region I office on June 27, 1983, on this reportable significant deficiency. Upon notification of the problem by IE Information Notice 82-56, SWEC issued a report of this problem to SWEC's engineering department.

3. DESCRIPTION OF DEFICIENCY

Robertshaw thermostatic flow control valves have an "O"-ring which minimizes bypass leakage within the valve when the valve is positioned to direct flow from the cooler. The "O"-ring floats in a groove in the valve body web and is around the valve plug. It limits flow to about one percent of full flow. Contamination within the coolant may cause swelling of the "O"-ring which will prevent movement of the valve plug.

4. ANALYSIS OF SAFETY IMPLICATION

The emergency diesel generators are required during design basis events to supply electric power to the safety-related components. The potential malfunction of the thermostatic control valves may cause extreme overcooling/overheating and, therefore, could adversely affect the safety of operations.

5. CORRECTIVE ACTION TO REMEDY DEFICIENCIES

Robertshaw Controls Company, working in conjunction with Colt Industries (the diesel generator manufacturer), has recommended removal of the "O"-ring. This would increase bypass flow to about 2 percent of full flow. Colt Industries has indicated that this increase in bypass flow is acceptable.

6. FINAL REPORT

Corrective action has been completed by the field forces. The modification, removal of the "O"-ring, has been completed. Duquesne Light Company considers this item closed and is issuing this as a final report.