



## Duquesne Light

Nuclear Construction Division  
Robinson Plaza, Building 2, Suite 210  
Pittsburgh, PA 15205

2NRC-4-040  
(412) 787-5141  
(412) 923-1960  
Telecopy (412) 787-2629  
April 13, 1984

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  
Misapplication of Solenoid Operated Valves in Certain Containment Isolation Applications  
Significant Deficiency Report No. 84-05, Interim Report

Gentlemen:

This Interim Report is in reference to the reportable Significant Deficiency relating to the "Misapplication of Solenoid Operated Valves in Certain Containment Isolation Applications." Pursuant to the requirements of 10CFR50.55(e), it is anticipated that a subsequent report on this matter will be submitted to Region I by July 1, 1984.

DUQUESNE LIGHT COMPANY

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

RW/wjs  
Attachment

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

SUBSCRIBED AND SWORN TO BEFORE ME THIS  
13th DAY OF April, 1984.

*Anita Elaine Reiter*  
Notary Public

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PDR ADOCK 05000412  
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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 13th day of April, 1984, 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 execute  
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 Significant Deficiency No. 84-05  
Misapplication of Solenoid Operated Valves  
in Certain Containment Isolation Applications

1. SUMMARY

In-line Target Rock solenoid operated valves used in containment isolation applications may open when downstream pressure increases above upstream pressure allowing flow in the direction opposite of normal.

2. IMMEDIATE ACTION TAKEN

Stopwork E&DCR 2PH-0090 was written to stop work on all affected solenoid valves. On March 14, 1984, Mr. S. D. Hall, Acting Manager of Duquesne Light Company's Regulatory Affairs Department, notified Mr. R. Keimig of the NRC Region I Office of this reportable deficiency.

3. DESCRIPTION OF THE DEFICIENCY

The in-line Target Rock solenoid valves utilized on Beaver Valley Power Station, Unit 2 (BVPS-2), were identified to be sensitive to changes in pressure differential, such that an increase in downstream pressure above upstream pressure may allow flow in the opposite direction.

4. ANALYSIS OF SAFETY IMPLICATIONS

Buildup of downstream pressure above upstream pressure may cause containment isolation SOV's to open during a Design Basis Accident, breaking containment isolation.

5. CORRECTIVE ACTION TO REMEDY DEFICIENCY

Beaver Valley Power Station Unit 2 is currently reviewing and evaluating each system application of these solenoid operated valves.

6. ADDITIONAL REPORTS

An additional report on this Significant Deficiency will be submitted by Duquesne Light Company by July 1, 1984.