



# Duquesne Light

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July 28, 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  
Heavy Wall Thickness on Diesel Generator Exhaust System  
Significant Deficiency Report No. 83-08, Interim Report

Gentlemen:

This Interim Report is in reference to the potentially reportable Significant Deficiency relating to the use of nominal wall thickness of fittings to determine the weight used as design input to stress calculations. An evaluation is currently underway to determine the impact of the thick wall fittings on the diesel generator exhaust piping system. 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 August 19, 1983.

This report was due July 27, 1983. An extension was requested to submit this report on July 28, 1983. The request was made in person from Mr. S. D. Hall to Mr. L. Tripp of the NRC, Region I office, and Mr. Tripp found this extension acceptable.

DUQUESNE LIGHT COMPANY

By *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  
28<sup>th</sup> DAY OF July, 1983.

*Elva G. Lesondak*  
Notary Public

ELVA G. LESONDAK, NOTARY PUBLIC  
ROBINSON TOWNSHIP, ALLEGHENY COUNTY  
MY COMMISSION EXPIRES OCTOBER 20, 1986

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

Report on Potential Significant Deficiency No. 83-08  
Heavy Wall Thickness on Diesel Generator Exhaust System

1. SUMMARY

During a routine safety inspection by the NRC resident inspector, the emergency diesel generator exhaust piping (spools EDG 3-1 and EDG 14-1) were found to have thickness readings of 0.75", which is twice their nominal value. This was cited as an Item of Violation in Inspection No. 50-412/83-07.

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 potentially reportable deficiency. An engineering evaluation is underway to determine the reportability status of the exhaust piping system.

3. DESCRIPTION OF DEFICIENCY (Extracted from NRC Inspection Report 83-07 dated June 10, 1983)

In the diesel generator exhaust system, two spools EDG-3-1 and EDG-14-1, while being installed were found to have thickness measurements of 0.75", which is twice the 0.375" nominal wall. The system contains 1-90° long radius Ell, 2-45° Ell's, 1-38 inch standard tee, 1-38 inch flange, and 2-38 inch standard pipes. The fittings were ordered from Ladish Company as 38 inch standard (0.375 nominal wall). The actual wall thickness measurements performed by site quality control by request of the NRC, found the 90° elbow, the 2-45° elbows, and the one tee to have an average wall thickness of 0.750 inch. The stress calculations for this system were based on the nominal wall thickness.

4. ANALYSIS OF SAFETY IMPLICATION

Beaver Valley 2 is reanalyzing the exhaust piping to determine the actual stresses on the piping system. After this engineering evaluation is complete, the safety implications, if any, will be addressed.

5. CORRECTIVE ACTION TO REMEDY DEFICIENCIES

The corrective action for the diesel generator exhaust system, if any, will be initiated after the engineering evaluation noted in Section 2 of this report is complete.

6. ADDITIONAL REPORTS

An additional report on the status of the diesel generator exhaust system will be issued by Duquesne Light Company by August 19, 1983.