



## Duquesne Light

Nuclear Construction Division  
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2NRC-3-048

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July 20, 1983

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

ATTENTION: Mr. Richard W. Starostecki  
Division of Project and Resident Programs

SUBJECT: Beaver Valley Power Station - Unit No. 2  
Docket No. 50-412  
USNRC IE Inspection Report No. 50-412/83-07  
DLC Response Letter 2NRC-3-041, dated July 12, 1983

Gentlemen:

This letter provides additional information relative to our previous response to the subject Inspection Report.

The last paragraph of our July 12 letter has been divided into two paragraphs and is hereby amended to read as follows:

Beaver Valley - 2 is reanalyzing the exhaust piping cited in the infraction. This system is not representative of ASME III piping systems, since it is in fact a low pressure, high temperature duct system which carries the exhaust gasses away from the diesel generator and exhausts them to atmosphere. ASME III piping systems are typically more complex, higher pressure closed systems, that involve various other components such as valves, pumps, heat exchangers, etc. Therefore, it would not be appropriate to form any general conclusions regarding the effects of increased fitting thickness on piping stress analysis from the results of the analysis of this exhaust system. In reviewing the existing analysis of the system, it was observed that the influence of the diesel generator silencer nozzle stiffness has much more significance than the effects of the thickness of the elbows and tees. Although it should have been recognized that this was an unusual piping system and a better estimate of silencer nozzle stiffness should have been chosen, this affect would have been discovered during the resolution of the interface with the vendor. The influence of elbow and tee thickness on this design is not clear at this time but is significantly less than the influence of the silencer nozzle stiffness. The reanalysis is expected to be completed by August 5, 1983, and would be available to the Resident Inspector upon request.

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PDR ADOCK 05000412  
Q PDR

With respect to the generic influences of heavy wall fittings, we are reviewing the effects of selected NRC benchmark piping problems (Reference 2) and will report on the progress in this regard by August 20, 1983. We would like to discuss our approach to this benchmark review program with your personnel during the week of July 25, 1983.

DUQUESNE LIGHT COMPANY

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

JS/wjs

cc: Mr. G. Walton, NRC Resident Inspector  
Ms. L. Lazo, Project Manager  
NRC Document Control Desk

REFERENCES: 1. NRC letter Docket No. 50-412 dated June 10, 1983  
2. Piping Benchmark Problem, Dynamic Analysis, NUREG-CR/1677 and BNL-NUREG-51267, Vol. 1  
3. 2NRC-3-041, dated July 12, 1983

COMMONWEALTH OF PENNSYLVANIA )  
 ) SS:  
COUNTY OF ALLEGHENY )

On this 20<sup>th</sup> 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 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.

Elva G. Lesondak  
Notary Public

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

JS/wjs

bcc: P. RaySircar (3)  
J. Sutton (S&W)  
NCD File  
C. R. Bishop  
C. E. Ewing  
T. D. Jones  
R. J. Swiderski  
J. F. Zagorski  
H. M. Siegel  
MCE

- REFERENCES:
1. 2DLS-17896
  2. Piping Benchmark Problem, Dynamic Analysis, NUREG-CR/1677 and BNL-NUREG-51267, Vol. 1
  3. 2NRC-3-041, dated July 12, 1983
  4. NRC letter Docket No. 50-412 dated June 10, 1983