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January 2, 1981

United States Nuclear Regulatory Commission  
Region I  
631 Park Avenue  
King of Prussia, PA 19405

ATTENTION: MR. BOYCE H. GRIER, DIRECTOR

SUBJECT: Beaver Valley Power Station-Unit No. 2  
Docket No. 50-412  
Seismic Calculations for Category I Structures  
Significant Deficiency Report 80-07

Gentlemen:

Enclosed is the "Initial Interim Report" on the above subject.  
If you have any questions concerning this report, we are available  
to meet with Nuclear Regulatory Commission personnel at their  
convenience.

DUQUESNE LIGHT COMPANY

By

E. J. Woolever  
VICE PRESIDENT

cc: Dr. V. Stello (15)

8103060331

Initial Interim Report  
On  
Seismic Calculations for Category I Structures  
at  
Beaver Valley Power Station - Unit No. 2

1.0 Summary

A review of seismic calculations for the Auxiliary Building (Category I) of Millstone Unit No. 3 has shown that the analysis used to design the portions of the structure transferring horizontal seismic forces down through the structure to the mat was incomplete. Beaver Valley Power Station-Unit 2 has used similar design methods for analysis of the following Category I structures: Auxiliary Building, Control Room Extension and Valve Pit, Service Building, Main Steam and Cable Vault Area, Fuel and Decontamination Building, Safeguards Building, and the Diesel Generator Building.

2.0 Immediate Action Taken

An initial review of the calculations of the above structures was performed and indicates that there is no structural deficiency in the design of the structures. The detailed review and completion of Auxiliary Building seismic calculations is finished and the structure has been found adequate. The completion of such calculations for the other structures listed above has been initiated and is scheduled for completion by December 1981.

3.0 Description of Deficiency

The analysis used to design the portions of the structure transferring horizontal seismic forces down through the structure to the mat was incomplete to the extent that the cumulative effect of the vertical force couple resisting flexure was not carried down through the structure to the mat, although the analysis used to design the mat did consider this cumulative effect.

4.0 Analysis of Safety Implications

Analysis of safety implications will be provided in the final report.

5.0 Corrective Action to Remedy Deficiency

Pending the outcome of the detailed review of the seismic calculations of the Category I structures listed above, the calculations, drawings and any other design considerations will be corrected as required.

6.0 Additional Reports

An interim report will be issued on June 22, 1981. The date for the submittal of the final report will be indicated at that time.