



**Duquesne Light**

435 Sixth Avenue  
Pittsburgh, Pennsylvania  
15219

(412) 471-4300

June 11, 1979

Mr. Harold R. Denton  
Director of Nuclear Reactor Regulation  
United States Nuclear Regulatory Commission  
Attention: A. Schwencer, Chief  
Operating Reactors Branch No. 1  
Division of Operating Reactors  
Washington, DC 20555

Reference: Beaver Valley Power Station, Unit No. 1  
Docket No. 50-334  
Soils-Structure Interaction in the Development of  
Amplified Response Spectra.

Gentlemen:

Enclosed are three (3) signed originals and thirty-seven (37) copies of a report which describes the use of "Soils-Structure Interaction in the Development of Amplified Response Spectra for Beaver Valley Power Station, Unit No. 1".

The amplified response spectra, developed in accordance with the methods described in the report, are presently being utilized to perform a reanalysis of a majority of the plant piping systems identified in our April 2, 1979 reply to the Nuclear Regulatory Commission's March 13, 1979 "Order to Show Cause".

The information requested in item 1 of Mr. Eisenhower's letter of May 25, 1979, which confirmed that soil structure interaction methodology may be used on Beaver Valley, is included as Section 8 of the enclosed report.

Very truly yours,

E. J. Woolever  
Vice President, Engineering  
and Construction

Enclosure

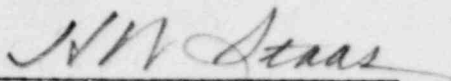
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Mr. Harold R. Denton, NRC  
Soils-Structure Interaction in the Development of Amplified Response Spectra

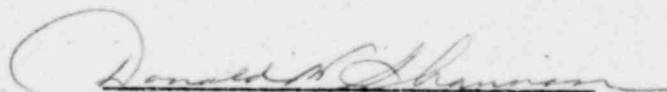
(CORPORATE SEAL)

Attest:

  
H. W. Staas  
Secretary

COMMONWEALTH OF PENNSYLVANIA) ) SS:  
COUNTY OF ALLEGHENY )

On this 11<sup>TH</sup> day of JUNE, 1979, before me,  
DONALD W. SHANNON, 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, information and belief.



DONALD W. SHANNON, NOTARY PUBLIC  
PITTSBURGH, ALLEGHENY COUNTY  
MY COMMISSION EXPIRES JUNE 7, 1983  
Member, Pennsylvania Association of Notaries

2253 007

BEAVER VALLEY POWER STATION, UNIT 1

SOIL-STRUCTURE INTERACTION IN THE DEVELOPMENT  
OF AMPLIFIED RESPONSE SPECTRA  
FOR  
BEAVER VALLEY POWER STATION, UNIT 1

DUQUESNE LIGHT COMPANY

June 11, 1979

2253 008

Stone & Webster Engineering Corporation  
Boston, Massachusetts