



**PSE&G**

Public Service  
Electric and Gas  
Company

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Robert L. Mittl General Manager  
Nuclear Assurance and Regulation

October 1, 1985

Director of Nuclear Reactor Regulation  
United States Nuclear Regulatory Commission  
7920 Norfolk Avenue  
Bethesda, Maryland 20814

Attention: Mr. Walter Butler, Chief  
Licensing Branch 2  
Division of Licensing

Gentlemen:

DOCKET NO. 50-354  
SER OUTSTANDING ISSUE 1 "RIVERBORNE MISSILES"  
HOPE CREEK GENERATING STATION

A telecon was held on September 23, 1985, between Messrs. D. Wagner, J. Ridgley, and J. Wilson of the NRC and Messrs. B. Preston, A. Kao, and I. Mermelstein of Public Service Electric and Gas Company (PSE&G) concerning the PSE&G response to Hope Creek Safety Evaluation Report (SER) Outstanding Issue 1 "Riverborne Missiles" as documented in a letter from R. L. Mittl (PSE&G) to W. Butler (NRC) dated September 16, 1985. In this regard, PSE&G was requested to clarify the aforementioned correspondence in terms of the ability of the Service Water Pumps (SWP) flange seals and bearing assembly ability to withstand the most limiting riverborne missile strike and maintain leak tightness integrity.

With respect to the above, PSE&G has completed a review of the SWP flange seal and bearing assembly design and notes that the SWPs are seismically qualified to 0.2g acceleration. Given a missile velocity of 16 fps resulting from a dam failure upstream of Hope Creek as calculated and documented in correspondence from R. L. Mittl (PSE&G) to A. Schwencer (NRC) dated January 31, 1985, and May 8, 1985; the most limiting riverborne missile impacting the Service Water Intake Structure (SWIS) anywhere along the 120 foot width of the structure and compromising the integrity of the SWPs would be represented by a 90 ton missile impacting the SWIS at a velocity of 16 fps. As such a missile of this magnitude when correlated to the energy associated with a 0.2g acceleration for the SWPs represents the most limiting

The Energy People

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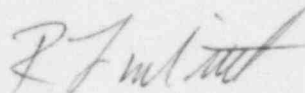
Director of Nuclear  
Reactor Regulation

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In the event there are any questions with regard to the  
above, do not hesitate to contact us.

Very truly yours,



C D. H. Wagner  
USNRC Licensing Project Manager

A. R. Blough  
USNRC Senior Resident Inspector