



PSE&G Public Service
Electric and Gas
Company

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Robert L. Mittl General Manager
Nuclear Assurance and Regulation

September 16, 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:

SER OUTSTANDING ISSUE 1 "RIVERBORNE MISSILES"
HOPE CREEK GENERATING STATION

Public Service Electric & Gas Company (PSE&G) hereby submits their response to Outstanding Issue 1 "Riverborne Missiles" as presented in the Hope Creek Safety Evaluation Report (SER). This issue was discussed via telecon between Messrs. J. Ridgely and D. Wagner of the NRC and Messr. B.A. Preston of PSE&G on September 12, 1985. The purpose of the discussion was focused on demonstrating that a floating missile strike upon the Service Water Intake Structure (SWIS) concurrent with a Probable Maximum Hurricane (PMH) with maximum wave run-up would not compromise the integrity of the Service Water Pump (SWP) shaft seal and/or flange seal with respect to leakage.

In this regard, PSE&G has evaluated the impact of the most limiting credible floating missile (i.e., 25 kip pleasure craft) and has determined that the integrity of the Service Water Pump shaft seal and flange seal will not be compromised. This determination is based upon the fact that the pumps have been initially qualified to withstand the response resulting from the Safe Shutdown Earthquake (SSE). A comparison of this response to that resulting from the floating missile impact has been performed. The comparison reveals that the SWPs have the capacity to withstand the dynamic response resulting from floating missile impact.

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The Energy People

Director of Nuclear
Reactor Regulation

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

Very truly yours,

R & Mitt / R P Douglas

C D.H. Wagner
USNRC Licensing Project Manager

A.R. Blough
USNRC Senior Resident Inspector

BC General Manager - Engineering
General Manager - Construction
General Manager - Hope Creek Operations
Project Manager - Hope Creek
Manager - Nuclear Licensing and Regulation
Site Engineering Manager - Hope Creek
Chief Project Engineer - Hope Creek
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B.G. Markowitz - Bechtel Power Corporation
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P. Schuetz
STAIRS
NAR Dept. File (yellow)
Lic. File - NRC Letters (pink)
Lic. File - SER OI-1