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 BOUCHEY, G.D. Washington Public Power Supply System
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 SCHWENCER, A. Licensing Branch 2

SUBJECT: Forwards "Effect of Hydrodynamic Loads on Safety-Related Equipment & Piping Outside Containment," technical rept.

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REPORT OF THE CHIEF, BUREAU OF PLANT INDUSTRY
FOR THE YEAR 1917

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Washington Public Power Supply System

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Docket No. 50-397

March 28, 1983
G02-83-260

Director of Nuclear Reactor Regulation
Attention: A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D. C. 20555

Subject: NUCLEAR PROJECT NO. 2
HYDRODYNAMIC LOADS OUTSIDE CONTAINMENT

Dear Mr. Schwencer:

Attached is a report "Effect of Hydrodynamic Loads on Safety Related Equipment and Piping Outside Containment". This was prepared in response to a request made by the Equipment Qualification Branch on February 8, 1983, and relates to an issue raised in the SQRT audit in November 1982. The attached report provides comparisons of reactor building acceleration response spectra for original seismic loads vs. new seismic (utilizing refined modeling techniques) plus hydrodynamic loads, comparisons of peak building accelerations for original seismic loads vs. new seismic plus hydrodynamic loads, and a discussion of building accelerations observed during SRV testing at Mark II plants. The conclusion from this report is that the effect of hydrodynamic loads outside containment may be neglected and that use of original seismic loads as the design basis for analysis of piping and equipment is adequate.

Very truly yours,



G. D. Bouchey
Manager, Nuclear Safety and Regulatory Programs

EAF:sms

Attachment: Technical Report as stated

cc: Mr. R. Auluck - NRC
Mr. W. S. Chin - BPA
Mr. A. Toth - NRC Site

Boo1

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