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 FACIL: 50-397 WPPSS Nuclear Project, Unit 2, Washington Public Power 05000397
 AUTH. NAME: SORENSEN, G.C. AUTHOR AFFILIATION: Washington Public Power Supply System
 RECIP. NAME: SCHWENCER, A. RECIPIENT AFFILIATION: Licensing Branch 2

SUBJECT: Forwards "River Seismic Reflection survey," detailing acquisition, processing & analysis of marine seismic reflection line along Columbia River, per 820629 request for supplemental geology/seismology SER input.

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The image shows a single page from a document, possibly a ledger or a list. The text is extremely faint and mostly illegible. There are several columns of text, with some words like 'P', 'M', 'K', 'L', 'S', 'T', 'U', 'V', 'W', 'X', 'Y', 'Z' visible, suggesting a list or index. The page is heavily faded and obscured by noise.

Washington Public Power Supply System

P.O. Box 968 3000 George Washington Way Richland, Washington 99352 (509) 372-5000

July 18, 1983
G02-83-629

Docket No. 50-397

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

Dear Mr. Schwencer:

Subject: NUCLEAR PROJECT NO. 2
SEISMIC REFLECTION STUDY

Reference: Letter, J. P. Knight to R. L. Tedesco, June 29, 1982
Supplementary Safety Evaluation Input-Geology and
Seismology-Washington Nuclear Plant #2

Attached is a copy of a report prepared by Western Geophysical for the Supply System detailing the acquisition, processing and analysis of a marine seismic reflection line taken along the Columbia River near the WNP-2 nuclear facility. The Supply System is providing this information in response to a request by the geosciences branch as outlined in their item (3) in the above referenced letter.

In February 1980, Western Geophysical obtained this proprietary marine seismic reflection line, designated as Line W0-05X, along the Columbia River in the State of Washington. During the operating license review for WNP-2, the geosciences branch requested the Supply System to provide this seismic line where it crossed the Horse Heaven Hills anticline and the Wallula Fault for the purpose of gaining a more complete understanding of folding and faulting in the Columbia Plateau.

In response to the request by the geosciences branch, the Supply System purchased the data and retained Western Geophysical to perform the necessary processing and analysis. Their analysis was completed recently and a final report transmitted to the Supply System in late May, 1983. Unfortunately, the conclusions provided by Western are, in their opinion, speculative at best. This is based on the fact that the quality of the data is poor due to the affect on the signal by the near surface basalt formations. Western applied state-of-the-art processing to improve the signal-to-noise ratio, but the end result was as they termed it: "very poor". This sort of poor data quality seems to be typical of other

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SEISMIC REFLECTION STUDY

attempts at deep seismic reflection on the Columbia Plateau using techniques which are very successful elsewhere. Western does make several interpretations regarding basalt thickness, deformation within recognizable geologic units, and the Wallula Fault which is not well defined on the section. Given the poor data quality, none of the interpretations are unique.

It is the position of the Supply System that this seismic line provides no information of significance with regards to the seismic design suitability of the WNP-2 facility. This judgement is concurred with by the Supply System's geologic advisory board and is based on the seismic data's poor quality coupled with the speculative non-unique nature of the interpretations. Therefore, there is no basis for altering any of the conclusions stated in the FSAR, responses to questions or the SER (NUREG-0892).

Very truly yours,



G. C. Sorensen, Manager (Acting)
Nuclear Safety and Regulatory Programs

WAK/mjm
Enclosure

cc: R Auluck - NRC
WS Chin - BPA
A Toth - NRC Site
B Jackson - NRC

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