

NUCLEAR SYSTEMS SAFETY PROGRAM

EG-81-14

March 26, 1981

Dr. Robert E. Jackson, Chief
Geosciences Branch
Division of Engineering
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

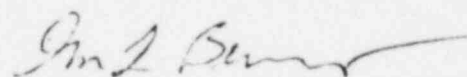
Dear Dr. Jackson:

The purpose of this letter is to provide you with results of our limited analysis for the Seabrook site that you requested some time ago. We developed the enclosed estimate of the seismic hazard for the Seabrook site in the same manner that we developed the seismic hazard for the sites involved in the Systematic Evaluation Program (SEP). We have used the model recommended by NRC and described in Jackson (1980) to specify the hazard for the sites located in New England.

Figure 1 shows the results (synthesis) compared to R.G. 1.60 scaled to 0.25g (245.4cm/S^2) for 5% Damping. The data used to construct this figure are given in Table 1.

I hope that this is sufficient information however, if not, feel free to call me and I will be happy to supply you with any additional information you might need.

Sincerely,



Don L. Bernreuter, Leader
Engineering Geosciences Group

DLB/sa

Reference

JACKSON, R. E. (1980), "Initial Review and Recommendations for Site Specific Spectra at SEP Sites," Memorandum to D. Crutchfield, July 23, 1980, U.S. NRC.

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Table 1

SYNTHESIS LOADING VALUES AT THE SEABROOK SITE FOR 5% DAMPED
PSEUDO RELATIVE VELOCITY SPECTRUM

PERIOD SEC	S _v cm/s
.04	1.82
.05	2.44
.08	4.71
.1	6.68
.2	19.79
.3	29.01
.4	33.24
1.0	38.78
2.0	30.89

Figure 1

SEABROOK

REG. GUIDE 1.60 VERSUS SYNTHESIS

