

ILLINOIS POWER COMPANY



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L30-83(04-18)-L

500 SOUTH 27TH STREET, DECATUR, ILLINOIS 62525

Docket No. 50-461

April 18, 1983

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: Clinton Power Station Unit 1  
SER Outstanding Issue #3 (NUREG-0853)

Reference: IP letter U-0628, dated April 5, 1983,  
G. E. Wuller to A. Schwencer, NRC

As requested by NRC in the telephone conversation with Illinois Power Company and Sargent & Lundy on April 11, attached is a copy of the revised spectra plots, incorporating the theoretical 84th percentile ground spectrum for upper-bound soil properties. The methodology to obtain this ground spectrum is the same as described in steps 2 through 5 of the referenced letter, except that the mean plus sigma values listed in Table 6 of the referenced letter for upper-bound soil properties have been used as requested by the NRC Staff.

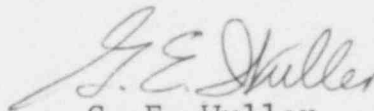
As can be seen from the attached figure, the new ground surface spectrum is enveloped by the design basis time-history spectrum for all frequencies, except in the narrow range of 1.1 to 1.6 hertz. Since there

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are no structural frequencies in this range, our judgment is that the Clinton plant design is not impacted by this narrow exceedance. We propose that discussion of the revised spectra be included in the upcoming meeting at Bethesda on April 28 for resolution of SER outstanding issue #3.

Sincerely,



G. E. Wuller  
Supervisor-Licensing  
Nuclear Station Engineering

GEW/lt

attach.

cc: Dr. H. Abelson, NRC Clinton Project Manager  
Mr. G. V. Giese-Koch, NRC GB  
Mr. B. N. Jagannath, NRC HGEB  
Mr. N. C. Chokshi, NRC SEB  
Mr. A. J. H. Lee, NRC EQB  
Mr. D. Terao, NRC MEB  
Mr. H. H. Livermore, NRC Resident Inspector  
Illinois Department of Nuclear Safety

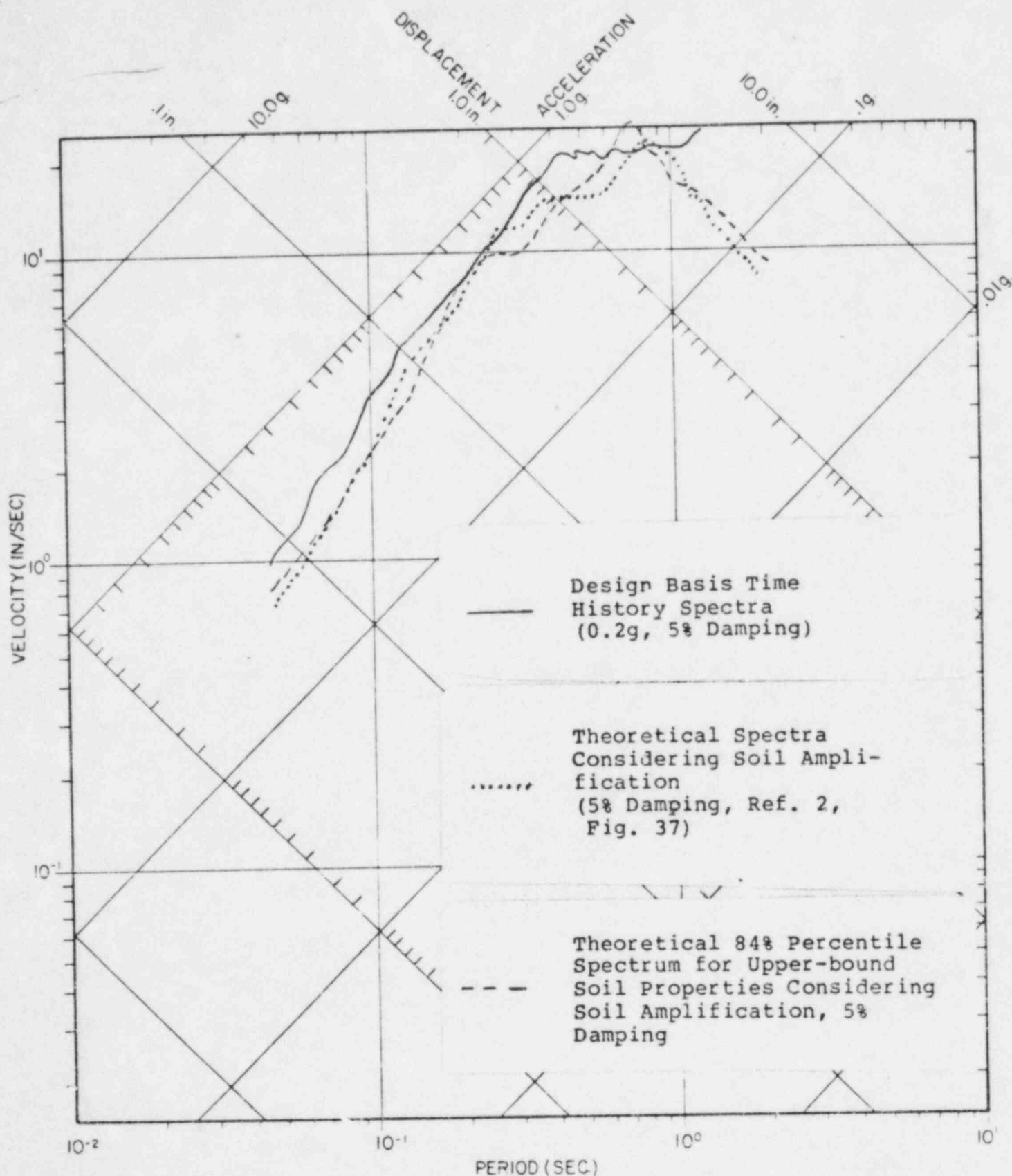


Figure 1: Comparison of Design Basis Design Time History Spectrum to Theoretical Spectra Considering Soil Amplification