



NUCLEAR ENERGY INSTITUTE

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October 23, 2006

Mr. Eugene Imbro  
Chief Mechanical and Civil Engineering Branch  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

**SUBJECT:** Draft EPRI Report 1013504 (S.2.1(a)), *Effect of Seismic Wave Incoherence and Building Response*

**PROJECT NUMBER: 689**

Dear Mr. Imbro:

Enclosed for NRC review and comment is the draft EPRI Report 1013504, *Effect of Seismic Wave Incoherence and Building Response*. This report has been referred to "Report S.2.1(a)" in recent NRC public meetings. An advanced copy of the report was e-mailed to the NRC earlier to assist in expediting the review and to support upcoming public meetings. The report is intended to assist in resolving the seismic high frequency issue.

Appendix A provides the responses to the 53 NRC requests for additional information, titled "Section 4.0 – Comments on EPRI Report 1012966, *Effect of Seismic Wave Incoherence on Foundation and Building Response (S.2.1)*", dated June 1, 2006.

The report will be made final following NRC review and comment.

If there are any questions on the report, please contact Rick Hill at 831-420-7607; [rahill@erineng.com](mailto:rahill@erineng.com) or me at 202-739-8094; [aph@nei.org](mailto:aph@nei.org).

Sincerely,

A handwritten signature in black ink, appearing to read "A. P. Heymer".

Adrian P. Heymer

Enclosure

c: Mr. Thomas A. Bergman, NRC w/o enclosure  
Dr. Anthony H. Hsia, NRC w/enclosure  
Dr. Andrew J. Murphy, NRC w/enclosure  
Document Control Desk