

August 10, 2006

MEMORANDUM TO: Mark Cunningham, Director
Division of Fuel, Engineering and Radiological Research
Office of Nuclear Regulatory Research

THRU: Michele G. Evans, Deputy Director **/RA/**
Engineering Research Applications
Division of Fuel, Engineering and Radiological Research

FROM: Vaughn V. Thomas, Project Manager **/RA/**
Mechanical and Structural Engineering Branch
Engineering Research Applications

SUBJECT: NOTICE OF PUBLIC MEETING WITH NUCLEAR ENERGY INSTITUTE
(NEI) TO DISCUSS SEISMIC ISSUES RELATED TO FUTURE
REACTOR SITING

DATE AND TIME: **August 29, 2006**
8:30 A.M. to 3:30 P.M.

LOCATION: U. S. Nuclear Regulatory Commission
One White Flint North
11555 Rockville Pike
Rockville, Maryland 20852
Commissioners' Hearing Room

PURPOSE: The purpose of this meeting is to continue the dialogue between NEI and
NRC to reach a common understanding as a basis for resolving seismic
issues related to future nuclear power plants.

PARTICIPANTS: NRC NEI
A. Murphy E. Imbro Adrian Heymer, NEI
A. Hsia, et. al. R. Karas Bob Kassawara, et. al. – EPRI

CATEGORY: This is a category 2 meeting. The public is invited to participate in this
meeting by discussing regulatory issues with the NRC, to obtain factual
information, and provide the agency with feedback.

*Meetings between NRC technical staff and applicants or licensees are open for interested members of the public, intervenors, or other parties to attend as observers pursuant to the Commission Policy Statement on "Staff Meetings Open to the Public: Final Policy Statement," 67 *Federal Register* 36920, May 28, 2002. Members of the public who wish to attend should contact V. Thomas at (301)-415-5897 or VXT@nrc.gov.

Enclosure:
Agenda

**NRC-NEI Meeting: ESP/COL Seismic Issue Resolution
August 29, 2006**

Meeting Objective: The meeting objectives are to:

A) review and discuss the RAIs from the May 11-12, 2006 meeting,

B) review and discuss the content of the revised reports:

Sensitivity of Performance-Based Approaches for Determining the
SSE Ground Motion for New Plant Sites

Use of CAV in Determining Effects of Small Magnitude
Earthquakes on Seismic Hazard Analyses

Truncation of the Lognormal Distribution and Value of the
Standard Deviation for Ground Motion Models in the Central and
Eastern United States

C) discuss industry's integrating task results for revision of regulatory
guidance, "Guidance for Determining of Performance-Based Site Specific
Safe Shutdown Earthquake Response Spectra for Future Nuclear
Plants,"

D) Discuss the status of Draft Regulatory Guide DG-1146, "Identification
and Characterization of Seismic Sources and Determination of a
Performance-Based Safe Shutdown Earthquake Ground Motion Design
Response Spectra for Seismic Design," and

E) discuss the expectations of the following industry reports:

S2.1(a), "Effect of Seismic Wave Incoherence on Foundation and
Building Response"

S2.1(b), "Spatial Coherency Models for Soil-Structure Interaction"

S2.2, "Effect of Negligible Inelastic Behavior on High Frequency
Response"

Participants: NRC staff and consultants
NEI Seismic Issues Task Force

Agenda:

8:30 a.m. 1. Introductions and opening remarks – NRC and NEI

8:40 a.m. 2. Discussions of RAIs – NRC and NEI

- o NRC staff comments/identification of issues
- o NEI/Industry responses and plans to address NRC comments

9:40 a.m. 3. Sensitivity of Performance-Based Approaches for Determining the SSE Ground Motion for New Plant Sites – NEI

10:20 a.m. **Break**

10:30 a.m. 4. Use of CAV in Determining Effects of Small Magnitude Earthquakes on Seismic Hazard Analyses – NEI

11:00 a.m. 5. Truncation of the Lognormal Distribution and Value of the Standard Deviation for Ground Motion Models in the Central and Eastern United States – NEI

11:30 a.m. 6. Guidance for Determining of Performance-Based Site Specific Safe Shutdown Earthquake Response Spectra for Future Nuclear Plants – NEI

- o NRC staff comments/identification of issues
- o NEI/Industry responses and plans to address NRC comments
- o General discussion/Recommendations

12:00 p.m. **Lunch**

12:45 p.m. 7. Discuss the status of Draft Regulatory Guide DG-1146 – NRC

- o NEI/Industry responses and plans to address NRC comments
- o General discussion/Recommendations

1 :30 p.m. 8. Report S2.1(a), “Effect of Seismic Wave Incoherence on Foundation and Building Response” – NEI

2:00 p.m. 9. Report S2.1(b), “Spatial Coherency Models for Soil-Structure Interaction” – NEI

2:30 p.m. 10. Report S2.2, “Effect of Negligible Inelastic Behavior on High Frequency Response” – NEI

- o NRC staff comments/identification of issues
- o NEI/Industry responses and plans to address NRC comments
- o General discussion/Recommendations

3:00 p.m. 11. Summary of meeting/action items (NRC/NEI)

3:30 p.m. **Adjourn**