

April 24, 2013

MEMORANDUM TO: Matthew A. Mitchell, Chief
Projects Management Branch
Japan Lessons-Learned Project Directorate
Office of Nuclear Reactor Regulation

FROM: Lisa M. Regner, Sr. Project Manager **/RA/ By EMiller for**
Projects Management Branch
Japan Lessons-Learned Project Directorate
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF THE MARCH 26, 2013, PUBLIC MEETING ON THE
CENTRAL AND EASTERN UNITED STATES GROUND MOTION
MODEL UPDATE PROJECT AND THE INDUSTRY'S PROPOSED
AUGMENTED APPROACH ASSOCIATED WITH JAPAN LESSONS
LEARNED NEAR-TERM TASK FORCE RECOMMENDATION 2.1
SEISMIC REEVALUATIONS

On March 26, 2013, the U.S. Nuclear Regulatory Commission (NRC or the staff) held a Category 2 public meeting¹ to continue discussions concerning the industry's efforts to update the central and eastern United States (CEUS) ground motion model (GMM), and the industry's proposed Augmented Approach. These projects support licensees' efforts to perform plant-specific seismic hazard reevaluations as requested by the NRC's March 12, 2012, request for information per Title 10 to the *Code of Federal Regulations*, Section 50.54(f) (the 50.54(f) letter). Enclosure 1 to the 50.54(f) letter includes Recommendation 2.1: Seismic. The list of meeting participants is included in the enclosure to this document.

The staff conducted the meeting using a webinar format and first discussed the CEUS GMM project update undertaken by the Electric Power Research Institute (EPRI) in August 2012 to provide an updated GMM for CEUS licensees to use for the hazard reevaluations. By letter² dated March 20, 2013, the staff identified concerns with the preliminary updated GMM information (provided to the staff in an Nuclear Energy Institute (NEI) letter³ dated January 31, 2013), and stated it would be unable to accept the updated model. This information was discussed with industry and stakeholders in a public conference call⁴ on February 28, 2013.

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¹ The meeting notice is available via the Agencywide Documents Access and Management System (ADAMS) under Accession No. ML13065A056.

² The letter is available in ADAMS under Accession No. ML13078A029.

³ The letter and attachments are available in ADAMS under Accession No. ML13059A090.

⁴ The meeting summary is available in ADAMS under Accession No. ML13050A644.

At this meeting, the EPRI staff presented information on a new proposed update to the CEUS GMM. The EPRI staff provided two presentations: one, a high level summary (Agencywide Documents Access and Management System (ADAMS) Accession No. ML13081A174), and the other, a detailed review of the new updated model (ADAMS Accession No. ML13087A374). The EPRI staff stated that they would provide full and complete documentation of the new updated CEUS GMM to the NRC staff for review and approval by June 3, 2013. If the staff approves the model by August 30, 2013, the CEUS plants will be able to submit the plant-specific ground motion response spectra by March 30, 2014. The staff questioned if there were portions of the hazard reevaluation information that could be submitted in September 2013 (consistent with the schedule in the 50.54(f) letter for CEUS licensees to submit their reevaluated seismic hazards) for the staff to begin its review. Industry stated that information concerning subsurface materials and properties and base case velocity profiles might be available, but it would need to discuss the staff's request. The NRC staff discussed with industry staff the changes made to the model to better capture uncertainties and stated that the proposed methodology changes appear to address the NRC staff's concerns. The NRC staff stated that the NEI should formally submit its request to continue work on the CEUS GMM update and its request for schedule modifications for NRC review.

The second half of the meeting concerned the industry's proposed Augmented Approach. The meeting participants used a webinar format to review the NEI's changes to the draft EPRI report, "Seismic Evaluation Guidance: Augmented Approach for the Resolution of Fukushima Near-Term Task Force Recommendation 2.1: Seismic" (Augmented Approach), based on input from the staff. The Augmented Approach was developed by the industry to address seismic resource limitations and to initiate interim evaluations and actions that the industry can take in the near term to improve plant seismic safety.

The staff used the "NEI Revisions to Draft Augmented Approach – tracked NEI changes" document (ADAMS Accession No. ML13081A145) during the meeting to facilitate discussion. The following versions of this document are available in ADAMS:

ML13072A708 NRC staff comments on Draft Augmented Approach (March 12 version)
ML13081A145 NEI Revisions to Draft Augmented Approach – tracked NEI changes
ML13081A171 NEI Revisions to Draft Augmented Approach – clean copy NEI changes
ML13109A560 Final NRC staff comments on Draft Augmented Approach (March 26 version)

Staff requested that the final draft report be submitted formally to the NRC for endorsement following incorporation of staff's final comments transmitted by e-mail on April 2, 2013 (ADAMS Accession No. ML13109A564). The NEI staff stated they expected to submit the final draft before April 12, 2013.

Members of the public participated in the webinar and asked clarifying questions throughout the meeting.

Enclosure:
As stated

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ADAMS Accession No.: ML13109A575

*Concurrence via e-mail

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Public Webinar on Central and Eastern United States Ground Motion Model Project Update
and Industry's Proposed Augmented Approach
for Japan Lessons Learned Near-Term Task Force Recommendation 2.1
Regarding the Seismic Reevaluation

March 26, 2013

Participant List

Name:

Organization:

Lisa Regner	U.S. Nuclear Regulatory Commission (NRC)
Jennifer Uhle	NRC
Scott Flanders	NRC
Cliff Munson	NRC
Annie Kammerer	NRC
Nilesh Chokshi	NRC
Rebecca Karas	NRC
Diane Jackson	NRC
Jon Ake	NRC
Thomas Weaver	NRC
Robert Roche-Rivera	NRC
Pei-Ying Chen	NRC
Malcolm Patterson	NRC
Jerry Chuang	NRC
Patrick Castleman	NRC
Yong Li	NRC
Kamal Manoly	NRC
Vladimir Graizer	NRC
Lawrence Salomone	EPRI Consultant
Gabriel Toro	Lettis Consultants International
Phil Amway	Constellation Energy Nuclear Group
Phillip Tarpinian	Exelon
Frank Higgins	Constellation Energy Nuclear Group
Doug True	ERIN Engineering & Research, Inc.

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