

December 15, 2014

MEMORANDUM TO: Sheena A. Whaley, Chief
Hazards Management Branch
Japan Lessons-Learned Division
Office of Nuclear Reactor Regulation

FROM: Nicholas J. DiFrancesco, Senior Project Manager */RA by Frankie Vega for/*
Hazards Management Branch
Japan Lessons-Learned Division
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF DECEMBER 4, 2014, CATEGORY 2 PUBLIC MEETING WITH THE NUCLEAR ENERGY INSTITUTE TO DISCUSS SEISMIC HAZARD REEVALUATIONS FOR THE WESTERN UNITED STATES SITES ASSOCIATED WITH IMPLEMENTATION OF JAPAN LESSONS-LEARNED NEAR-TERM TASK FORCE RECOMMENDATION 2.1, SEISMIC

On December 4, 2014¹, the U. S. Nuclear Regulatory Commission (NRC) staff held a Category 2 public meeting with the Nuclear Energy Institute (NEI) at NRC Headquarters, One White Flint North, 11555 Rockville Pike, Rockville, Maryland. The purpose of this meeting was to discuss the upcoming Western United States (WUS) Seismic Hazard Submittals associated with the implementation of Near-Term Task Force Recommendation 2.1: Seismic of the March 12, 2012, NRC request for information issued pursuant to Title 10 to the *Code of Federal Regulations* Part 50, Section 50.54(f) (hereafter referred to as the 50.54(f) letter)².

During the meeting the staff provided an overview of a proposed outline³ for WUS submittals. NRC and NEI representatives engaged in detailed discussion regarding the content of this outline. Additionally, NEI representatives provided an overview of the WUS Hazard submittals as described in the presentation slides⁴.

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¹ The meeting notice is available via the Agencywide Documents Access and Management System (ADAMS) under Accession No. ML14328A297.

² The 50.54(f) letter and Enclosure 1 are available under ADAMS Accession Nos. ML12053A340 and ML12056A047, respectively.

³ NRC's proposed outline is available under ADAMS Accession No. ML14336A670.

⁴ NEI's slide presentation is available under ADAMS Accession No. ML14338A510.

NRC staff and NEI representatives' discussions included the following meeting highlights:

- NRC staff presented to NEI representatives an overview of a proposed outline for WUS seismic hazard reevaluation submittals. Discussions focused on specific outline sections of the submittal that would be different from the Central Eastern United States (CEUS) submittals. Specifically, Section 2.2 "Probabilistic Seismic Hazard Analysis" of the proposed outline was the main focus of the discussions.
- NRC staff communicated to NEI representatives that the screening and prioritization approach followed for the CEUS sites would be also implemented for the WUS sites.
- The staff acknowledged that the WUS reevaluation reviews, including the screening and prioritization of sites, would take longer than those performed for the CEUS sites. The staff is currently developing schedules for these activities.
- NRC staff emphasized the need for information on the Senior Seismic Hazard Analysis Committee (SSHAC), in particular, the peer review report, to be submitted as part of the WUS reevaluated hazards. NEI representatives stated that a copy of the final letter regarding the SSHAC peer review will be provided as part of an appendix to the submittal. The complete SSHAC report will be made available to the staff.
- The staff provided an overview of its review approach for the WUS sites. Specifically, the staff indicated its plan to follow a sampling approach regarding individual seismic sources. The staff will focus its attention on those sources that contribute the most to the hazard in its confirmatory Probabilistic Seismic Hazard Assessment.
- NRC staff and NEI representatives discussed the simplified seismic model approach. NEI representative stated that providing a simplified seismic model or summary of the significant sources could be included.
- The staff emphasized the need for digital files containing key seismic parameters to be made accessible to the staff, as part of the submittals, for its review. The NEI representatives proposed these parameters be incorporated by reference, instead of an appendix in the reports. An NEI representative acknowledged the staff's need and will work with their counterparts on the most effective way to provide this information to the staff.
- NEI representatives and NRC staff agreed that the 1 Hertz (Hz) and 10 Hz mean seismic hazard curves and tables at base rock elevations will be provided as part of the submittals. NRC and NEI agreed that these curves will be more representative of the site hazard and most useful for the staff's confirmatory reviews.
- NEI representatives and NRC staff agreed that WUS licensees will need to provide more detail in Section 2.3 "Site Response Evaluation" compared to the CEUS licensees to describe the use of new models and methods to evaluate the local site response.
- NRC staff and NEI representatives agreed that a new submittal template is not needed for the WUS sites. The CEUS template, in addition to the differences stated above, is

considered sufficient to be used to document the hazard reevaluations for the three WUS sites.

No regulatory decisions or commitments were made during the meeting. The public was invited to observe the meeting and was given several opportunities to communicate with the NRC during the public meeting and before adjourning. The NRC staff received several public comments, which were addressed during the meeting and no meeting feedback forms were received.

Enclosure:
List of Attendees

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Enclosure:
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|--------|-----------------|------------|-----------------|-----------------|-----------------------------|
| NAME | FVega | SLent | DJackson | SWhaley | NDiFrancesco (FVega for) |
| DATE | 12/09/14 | 12/09/14 | 12/11/14 | 12/15/14 | 12/15/14 |

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List of Attendees

U.S. Nuclear Regulatory Commission
Public Meeting with the Nuclear Energy Institute
Concerning Seismic Hazard Reevaluation Submittals for the Western United States Sites
Japan Lessons-Learned Near-Term Task Force Recommendation 2.1: Seismic
December 4, 2014

| Name | Organization |
|--------------------------|---------------------|
| Andrea Kock | NRC/NRO/DSEA |
| Clifford Munson | NRC/NRO/DSEA |
| Diane Jackson | NRC/NRO/DSEA |
| Sheena Whaley | NRC/NRR/JLD |
| Jon Ake | NRC/RES/DE |
| Nicholas DiFrancesco | NRC/NRR/JLD |
| Mohamed Shams | NRC/NRO/DE |
| Kamal Manoly | NRC/NRR/DE |
| Yong Li | NRC/NRR/DE |
| Frankie Vega | NRC/NRR/JLD |
| Brittan Hill | NRC/NRO/DSEA |
| Mahmoud Jardaneh | NRC/NRO/DSEA |
| John Richards | EPRI |
| Bret Tegler | Erin Engineering |
| Andrew Mauer | NEI |
| Mike Tschiltz | NEI |
| (continues to next page) | |

Abbreviations:

DE – Division of Engineering
DSEA – Division of Site Safety and
Environmental Analysis
EPRI - Electric Power Research Institute
DSRA – Division of Safety Systems & Risk

JLD – Japan Lesson Learned Project Directorate
NEI – Nuclear Energy Institute
NRO – Office of New Reactors
NRR – Office of Nuclear Reactor Regulation
RES – Office of Nuclear Regulatory Research
TVA – Tennessee Valley Authority

