

September 7, 2012

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

FROM: Lisa M. Regner, Senior Project Manager /RA/ by *Matthew M. Mitchell for/*  
Projects Management Branch  
Japan Lessons-Learned Project Directorate  
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF AUGUST 20, 2012, PUBLIC MEETING TO  
DISCUSS THE GUIDANCE FOR COMPLIANCE WITH ORDER  
EA-12-051, SPENT FUEL POOL INSTRUMENTATION,  
RELATED TO THE FUKUSHIMA DAI-ICHI NUCLEAR POWER  
PLANT ACCIDENT

On August 20, 2012, the U.S. Nuclear Regulatory Commission (NRC) staff held a public meeting to discuss the draft interim staff guidance (ISG) for compliance with Order EA-12-051, Order Modifying Licenses with Regard to Spent Fuel Pool Instrumentation (the order), issued March 12, 2012 (Agencywide Document Access and Management System (ADAMS) Accession No. ML12054A679) with the Nuclear Energy Institute (NEI) Task Force. The order was issued based, in part, on the *Near-Term Task Force (NTTF) Recommendations for Enhancing Reactor Safety in the 21st Century* report, issued July 12, 2011 (ADAMS Accession No. ML111861807). Those in attendance are listed in Enclosure 1 (ADAMS Accession No. ML12240A004).

The purpose of this meeting was to continue discussions with the NEI Task Force on the need for more specific seismic criteria in NEI 12-02, *Industry Guidance for Compliance with NRC Order EA-12-051, "To Modify Licenses with Regard to Reliable Spent Fuel Pool Instrumentation,"* Revision 0, submitted on July 5, 2012, for staff endorsement (ADAMS Accession No. ML121910388). In support of the order, a final ISG document will be issued by the staff by August 31, 2012.

To facilitate discussions, the document shown in Enclosure 2 (ADAMS Accession No. ML12229A118) was used in the meeting. This document contains modifications to NEI 12-02, Revision 0 proposed by the NEI staff and NRC staff, including the NRC staff's suggested seismic criteria in Section 3.4 *Qualification*.

The NEI Task Force representatives stated that this criteria was not a reasonable standard, and that it was going beyond the intent of the spent fuel pool (SFP) order by providing guidance that imposed a safety-related standard. The staff informed the NEI Task Force that it was not imposing Title 10 to the *Code of Federal Regulations*, Part 50, Appendix B, "Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants," standards. The staff provided an acceptable option for demonstrating that the instrumentation can be reasonably expected to remain functional following a design basis earthquake.

The NRC staff discussed its position that the adequacy of the seismic design and installation of SFP instrumentation should be demonstrated based on the guidance in certain sections of the Institute of Electrical Electronics Engineers (IEEE) Standard 344-2004, "IEEE Recommended Practice for Seismic Qualification of Class 1E Equipment for Nuclear Power Generating Stations," or a substantially similar industrial standard.

Other topics of discussion included a need to define which portions of Regulatory Guide 1.100 "Seismic Qualification of Electrical and Active Mechanical Equipment and Function Qualification of Active Mechanical Equipment for Nuclear Power Plants" (RG 1.100), which endorses the use of IEEE Standard 344, are applicable, and to what scope of components. Also, the NEI staff identified that some nuclear plants may have design bases that are not qualified to RG 1.100 criteria. Additionally, the NEI staff questioned a possible discrepancy between the seismic quality of the SFP instruments and the structures to which the instruments may be mounted. The NRC staff clarified that the seismic motion criteria does not apply to portable instruments.

Public comments were received from several stakeholders and included concerns about restricting emergency responders options by providing overly prescriptive requirements for SFP instruments, that existing design basis earthquake standards at the nuclear plants are not adequate, about not imposing the seismic criteria for portable equipment, and that moving spent fuel to dry cask storage as the best way to reduce the risk.

No meeting feedback forms were received.

Enclosures:  
As stated

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**ADAMS Accession Nos.:**  
 Package: ML12240A002  
 Summary: ML12240A003  
 Enclosure 1: ML12240A004  
 Enclosure 2: ML12229A118

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