

April 29, 2009

MEMORANDUM TO: Timothy Frye, Chief  
Health Physics Branch  
Division of Construction Inspection  
& Operational Programs  
Office of New Reactors

FROM: Robert Kellner, Health Physicist /RA/  
Health Physics Branch  
Division of Construction Inspection  
& Operational Programs  
Office of New Reactors

SUBJECT: SUMMARY OF APRIL 8, 2009, CATEGORY 2 PUBLIC MEETING WITH  
THE NUCLEAR ENERGY INSTITUTE TO DISCUSS HEALTH PHYSICS  
ISSUES FOR NEW REACTORS

On April 8, 2009, the Nuclear Regulatory Commission (NRC) staff held a teleconference meeting with members of the Nuclear Energy Institute (NEI) to discuss new reactor health physics issues. Enclosure 1 lists the meeting attendees.

A public meeting notice was issued on March 23, 2009, and was posted on the NRC's external (public) web page (Agencywide Document Access Management System (ADAMS) Accession No. ML090820512). The notice included the meeting agenda, which was also available as a handout at the meeting. The discussions included:

- General COLA/DCD Application Status and Lessons Learned
- Status of Industry Radiation Protection Templates, including, NEI 07-08 (ALARA), NEI 07-09 (ODCM), NEI 07-10 (PCP), and NEI 07-03 (Radiation Protection Program)
- Discussion of Draft industry template NEI 08-08, "Generic FSAR Template Guidance for Life Cycle Minimization of Contamination", Draft Revision 1, 1A, and 1B.
- Update of Regulatory Initiatives
- Miscellaneous Topics of Interest

NRC and industry representatives discussed the status of four Radiation Protection Program templates developed by NEI to support COL applications. NRC stated that final published templates for NEI 07-09, "Generic FSAR Template Guidance for Offsite Dose Calculation Manual (ODCM) Program Description" and NEI 07-10, "Generic FSAR Template Guidance for Process Control Program (PCP) Description" had been received and will be available through the NRC website (ML091050234). NEI stated that the safety evaluation for NEI 07-03, Radiation Protection Program (ML090410709) had been received and that NEI plans to have the document ready for final publication in late April. NRC representatives stated that the safety evaluation for NEI 07-08, ALARA, is in the review process and should be sent to NEI for final publication by mid May.

NRC staff and NEI discussion of NEI 08-08 focused on draft revision 1B (ML090960573) of the industry template and the NEI responses to the RAIs identified during the March 25 meeting (ML090960583). Each new RAI discussed during the March 25 was reviewed, editorial corrections identified in draft revision 1B, and wording concerning how cost considerations should be used were discussed. At the end of the discussion NRC and NEI agreed that the RAIs had been resolved, pending review of NEI 08-08, Revision 1 to be submitted to the NRC. NEI stated that they planned to have the revised template submitted to the NRC by the end of April.

An industry representative attending the meeting requested clarification of what actions are required by Design Certification (DC) or Combined License (COL) applicants to incorporate NEI 08-08 into their application. The paraphrased question was 'Does there just need to be a reference committing to use NEI 08-08 for compliance with 10 CFR 20.1406, or is something additional required?' Referencing 10 CFR 20.1406, NRC and NEI clarified that the purpose of the NEI 08-08 template is to assist COL applicants in developing a COL application and the operational programs, processes, and requirements that will address compliance with 10 CFR 20.1406 (a). NRC and NEI provided the following summary of the differences between COL and DC applications:

- COL applicants must describe in the application how facility design and procedures for operation will meet the requirements of 10 CFR 20.1406 (a). Upon acceptance by NRC, COL applicants can use the NEI 08-08 template as the licensing reference describing the content of operating programs/processes that will be provided by the applicant prior to initial fuel load to demonstrate compliance with 10 CFR 20.1406 (a). It was noted that supplemental site specific information will be required to be provided by the applicant.
- DC applicants must describe in the application how facility design features will meet the requirements of 10 CFR 20.1406 (b). DC Applicants should include COL License Information Items for development of operating programs, processes, and procedures to demonstrate compliance with 10 CFR 20.1406 (a).

NRC provided status updates on several regulatory issues including NRC progress on initiating the process to update 10CFR20 and 10CFR50 Appendix I to be consistent with the current ICRP guidance (SECY-08-0197), planned revisions of chapter 11 and 12 of the Standard Review Plan (NUREG 0800), Interim Staff Guidance (ISG) Draft ISG-13 and ISG-06 to address acceptance criteria for 10 CFR 20.1406 (a) and (b), and compliance with the National Source Tracking System (NSTS) requirements.

NEI provided comments on Draft Revision 7 of ISG-06 "Interim Staff Guidance for Evaluation and Acceptance Criteria for 10 CFR 20.1406 to Support Design Certification and Combined License Applications" (ML090640183). The comments can be found in ADAMS at accession number ML090990781.

NEI proposed a working model for revision of the accepted NEI generic Radiation Protection Program templates to be discussed further at the next routine meeting.

NEI commented on possible impacts of the Decommissioning Planning rule (SECY-09-0042) on upcoming revisions of Regulatory Guide 1.21 (DG-1186, Measuring, Evaluating, and Reporting Radioactive Material in Liquid and Gaseous Effluents and Solid Waste (ML080660617)) and Regulatory Guide 4.1 (DG-4013, Radiological Environmental Monitoring for Nuclear Power Plants (ML080660608)). NEI stated that since these revised Reg. Guides will not be issued at least six months prior to new reactor applications they will not be applicable to any of the current submitted COL applications.

Enclosure:  
List of Attendees

cc w/encl: See next page

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- DC applicants must describe in the application how facility design features will meet the requirements of 10 CFR 20.1406 (b). DC Applicants should include COL License Information Items for development of operating programs, processes, and procedures to demonstrate compliance with 10 CFR 20.1406 (a).

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cc w/encl: See next page

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Meeting Summary Accession Number: ML091180608

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DATE	4/29/2009	4/29/2009

**OFFICIAL RECORD**

**Public Meeting with the Nuclear Energy Institute (NEI)**  
**Discussion of New Reactor Health Physics Topics**  
**March 25, 2009**

**Meeting Attendees**

Name	Organization	Name	Organization
George Oliver	NEI		
William Smith	SNC		
Malcomb Knapp	Talisman/MNES		
Edward Roach	NRC - HQ		
Robert Kellner	NRC - HQ		
Sara Bernal	NRC - HQ		
Kathy Yhip	SCE		
Aaron Wilmot*	Westinghouse		
Hosung Ahn	NRC - HQ		
Ellen Anderson	NEI		
Ralph Anderson	NEI		
Tim Frye	NRC - HQ		
Richard Ely*	Enercon		
Al Tschaeche*	NUMARK		

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