

May 7, 2010

MEMORANDUM TO: Edward H. Roach, Chief  
Health Physics Branch  
Division of Construction Inspection  
& Operational Programs  
Office of New Reactors

FROM: Edward E. Stutzcage, Physical Scientist */RA/*  
Health Physics Branch  
Division of Construction Inspection  
& Operational Programs  
Office of New Reactors

SUBJECT: SUMMARY OF April 14, 2010, CATEGORY 2 PUBLIC MEETING  
WITH THE NUCLEAR ENERGY INSTITUTE TO DISCUSS HEALTH  
PHYSICS ISSUES FOR NEW REACTORS

On April 14, 2010, 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 18, 2010, and was posted on the NRC's external (public) web page (Agencywide Document Access Management System (ADAMS) Accession No. ML100740711). 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
- Comments on DC/COL-ISG-013 and DC/COL-ISG-014
- Radiological Aspects of Construction and Pre-Operation
- Regulatory Updates and Perspectives
- Miscellaneous Topics of Interest

NRC provided status updates of COLA and DCD applications and lessons learned from the review process. Information provided included the Turkey Point, Bellefonte, Levy, South Texas, Harris, and Lee COLAs, as well as progress of the AP-1000, ESBWR, USAPWR and EPR design applications.

NRC staff provided a general overview of Interim Staff Guidance (ISG) DC/COL-ISG-013 "Interim Staff Guidance on NUREG-0800 Standard Review Plan Section 11.2 and Branch Technical Position 11-6 Assessing the Consequences of an Accidental Release of Radioactive Materials from Liquid Waste Tanks for Combined License Applications Submitted under 10 CFR Part 52" and Interim Staff Guidance (ISG) DC/COL-ISG-014 "Interim Staff Guidance On Standard Review Plan Sections 2.4.12 and 2.4.13 Assessing Ground Water Flow and Transport of Accidental Radionuclide Releases".

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NEI provided a few general comments on the ISGs. NEI representatives stated that ISG-013 does not provide limits for liquid radioactivity levels inside buildings. NEI also commented that the Liquid Waste Management System (LWMS) is not safety related. NEI representatives noted that ISG-014 references SRP sections 2.4.12, 2.4.13, 2.5.1, and 2.5.4, but in the SRPs, there is no relationship between them. In response to a question asked by NRC staff, NEI representatives stated that licensee and construction applicants for new reactors were the origin of NEI's ISG-013 and ISG-014 comments, and that they will submit their comments in the order they appear in the ISGs. NEI representatives asked NRC staff a question about how applicants should use Figure 1 of ISG-14. NRC said the simplest adequate model an applicant can use would be acceptable. NEI also asked a question regarding applicant responsibilities for applications that have already been submitted or completed at the time ISG-013 and ISG-014 is finalized. NRC staff stated that while OGC will be involved in the final decision, guidance finalized after the docket date of the application would not be applicable, as described in 10 CFR 52.79 and Regulatory Guide 1.206. NEI is planning to submit detailed comments for NRC review by the end of April.

NEI representatives proposed narrowing the original 18 Radiation Protection Construction and Pre-Operational Topics to the following four. 1) Exposure to Workers, 2) Use of Radioactive Sources Not Licensed Under the COL, 3) Excavation and Dredging and 4) Final Site Configuration Post Construction. NEI provided a draft table that shows how the original topics relate to the new topics, if at all. The table also gives NEI's explanation for removing the topics that they removed. The table can be found in ADAMS at accession number ML101060516. NRC staff said they would review the table and provide comments at the next meeting. NEI said they would consider revising the table.

NEI representatives provided updated draft summaries of the discussions and understanding reached for two of the previously discussed radiological aspects of construction and pre-operation problem statements. The topics were; 1) Exposure to Works and 2) Use of Radioactive Sources Not Licensed Under the COL. The summaries can be found in ADAMS at accession number ML101060449.

NRC staff gave an overview of a potential workshops to be conducted by the Office of Nuclear Regulatory Research on the following topics; 1) Passive Component Monitoring, 2) Dry Storage Cask Monitoring, 3) Severe Accident Monitoring, and 4) 10 CFR 20.1406 - minimizing the impacts of decommissioning. NRC announced that there would be a public outreach meeting with Vermont Yankee to discuss radiation questions on 4/19, and that NRC cancelled its meeting with the state of Vermont. Next, NRC announced that there would be a discussion of the groundwater task force at a public workshop at headquarters on April 20. NRC announced that the NRC has requested that the National Academy of Sciences study the risk of cancer in populations living near nuclear power facilities. Finally, NRC staff announced the continued work on a Part 30, 40, 70 ISG, and stated that it will likely be an SRP Chapter 1 item.

NEI announced that a health physics forum has been scheduled for the last week of June in Clearwater, Florida to discuss RETS/REMP issues.

E. Roach

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The next meeting was tentatively scheduled for May 12, 2010. However, after the meeting the date was moved back to allow time for NRC to review NEI's ISG-013 and ISG-014 comments. The next meeting is scheduled for May 26, 2010.

Enclosure:  
List of Attendees

cc w/encl: See next page

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**Public Meeting with the Nuclear Energy Institute (NEI)  
Discussion of New Reactor Health Physics Topics  
April 14, 2010**

**Meeting Attendees**

<b>Name</b>	<b>Organization</b>	<b>Name</b>	<b>Organization</b>
Ed Roach	NRC – HQ	Milton Rejeck*	STP
William E. Smith	SNC	Richard Ely*	Enercon
Jean-Claude, Dehmel	NRC – HQ	Aaron Wilmot*	Westinghouse
Hosung Ahn	NRC – HQ	Brian Bonser*	NRC – RGN-II
Mark McBride	NRC – HQ		
Richard Raione	NRC – HQ		
Steven Schaffer	NRC – HQ		
George R Cicotte	NRC – HQ		
Richard L. Conatser	NRC – HQ		
Mark Fuhrmann	NRC – HQ		
Kevin Burroughs	Constellation Energy		
Scott Shlenar	Exelon - Nuclear		
Ricky A. Tripp	SC Electric & Gas Co.		
Sara Bernal	NRC – HQ		
Ralph Anderson*	NEI		

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ENCLOSURE 2