

October 2, 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 SEPTEMBER 2, 2009, CATEGORY 2 PUBLIC MEETING
WITH THE NUCLEAR ENERGY INSTITUTE TO DISCUSS HEALTH
PHYSICS ISSUES FOR NEW REACTORS

On September 2, 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 August 12, 2009, and was posted on the NRC's external (public) web page (Agencywide Document Access Management System (ADAMS) Accession No. ML092230782). 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 Template
- Construction Related Radiation Protection Issues
- 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 NRC staff review of Turkey Point proposed use of deep well injection, the transition from Bellefonte to Vogtle as the RCOL for AP-1000, issuance of the Vogtle ESP and LWA, and the progress of the EPR and USAPWR design applications. NRC provided information concerning an upcoming audit to support the ESBWR DCD safety review and the completed STP audit.

NRC and industry representatives discussed the status of two Radiation Protection Program templates developed by NEI to support COL applications. NRC stated that NEI 07-08, ALARA, is still in the review process but should be sent to NEI for final publication by the end of September. NRC stated that completion of the safety evaluation of NEI 08-08, Generic FSAR Template Guidance for Life Cycle Minimization of Contamination, is awaiting submittal of the latest revision by NEI. NEI stated that the revised document should be submitted by 9/4/09. NRC stated that review of the submitted document, safety evaluation, concurrence, and return to NEI for final publication should be completed by the end of October. On a related topic, NRC stated that ISG-6, Interim Staff Guidance on Evaluation and Acceptance Criteria for 10 CFR 20.1406 to Support Design Certification and Combined License Applications, is in final review by the Licensing group & OGC and will then go through the concurrence process. It is expected that it will be issued by the end of September.

NRC provided status update of the construction and inspection program. Since the program and inspection procedures are still being finalized, discussion was limited to an update of the program timeline. NEI stated that based on discussions with the industry licensing leads, they have decided to not develop a formal guidance document at this time. NEI proposed a continued discussion of radiation aspects of construction during routine meetings with the objective to be establishing an understanding between the industry and NRC of the regulatory applicability of the radiation aspects of construction including the consequences, applicable regulations, and the operational aspects of transitioning from construction to operation. NEI stated they will need to discuss and obtain concurrence of this methodology from the New Plant Working Group before proceeding. The final outcome of the discussions would be an NEI topical report that is reviewed by NRC. NEI proposed starting with the topics of site characterization, receipt/use of sources by the COL holder, and construction worker exposure from collocated facilities.

NRC provided a status update on the release of DC/COL-ISG-014, Interim Staff Guidance on Assessing Ground Water Flow and Transport of Accidental Radionuclide Releases (ISG-014), for public comment. NRC stated that ISG-014 is still in the concurrence process and has not been released for public comment. NRC further stated that the current plan is to adjust the comment periods for ISG-013 and ISG-014 to overlap by at least 30 days to assist in coordinating comments on both documents. NEI stated that they have developed draft comments on ISG-013 but they do not plan to submit them until they can review ISG-014 and provide corresponding comments.

NRC provided information concerning two recently identified health physics related license review focus areas. The focus areas include shielding/dose rate calculations and computer codes, and reactor cavity drain down during refueling.

Enclosure:
List of Attendees

cc w/encl: See next page

T Frye

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cc w/encl: See next page

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OFFICE	NRO/DCIP/CHPB	NRO/DCIP/CHPB (BC)
NAME	R. Kellner	T. Frye
DATE	09/30/09	10/02/09

OFFICIAL RECORD

**Public Meeting with the Nuclear Energy Institute (NEI)
Discussion of New Reactor Health Physics Topics
September 2, 2009
Meeting Attendees**

Name	Organization	Name	Organization
Ed Roach	NRC – HQ	Stewart Bland	Chesapeake Nuclear
William Smith	SNC		
Aaron Wilmot*	Westinghouse		
Mark Paul	Dominion		
Robert Kellner	NRC – HQ		
Ellen Anderson	NEI		
Ralph Anderson	NEI		
Tim Frye	NRC – HQ		
Richard Ely*	Enercon		
Milton Rejeck*	STPNOC		
Jairus Greene	MNES		
Stephen Burdick	Morgan Lewis		
Tony Pilo	Progress Energy		
Ron Shippe*	Areva/Unistar		
Moses Coleman*	VC Summer		

* By Telephone

Enclosure

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