

October 15, 2003

MEMORANDUM TO: Cathy Haney, Program Director  
Policy and Rulemaking Program  
Division of Regulatory Improvement Programs, NRR

FROM: Joseph L. Birmingham, Project Manager */RA/*  
Policy and Rulemaking Program  
Division of Regulatory Improvement Programs, NRR

SUBJECT: SUMMARY OF SEPTEMBER 17, 2003, PUBLIC MEETING WITH THE  
NUCLEAR ENERGY INSTITUTE (NEI) TO DISCUSS OCCUPATIONAL  
RADIATION DOSIMETRY ISSUES

On September 17, 2003, Nuclear Regulatory Commission (NRC) staff met with a representative of NEI and the industry in a public meeting at NRC headquarters in Rockville Maryland. Three representatives from industry participated via teleconference. A list of meeting participants is attached. The meeting was held to open a dialog between the NRC staff and the newly formed NEI Dosimetry Taskforce.

Dr. George Xu, started off the meeting with a status update on the technical research he is conducting for the Electric Power Research Institute (EPRI), concerning the calculation of Effective Dose Equivalent (EDE) from radioactive point sources on the surface of the whole body (see attached handout). Sami Sherbini, from the NRC Office of Nuclear Material Safety and Safeguards (NMSS), demonstrated an early version of a computer code, that is being independently developed that would do the same calculation. Information provided by Dr. Xu about the database is in Attachment 2 to this memorandum (ADAMS Accession # ML032760004).

Several dosimetry issues, that are currently challenging the industry, were discussed. However, no resolutions were sought at this meeting. Ralph Andersen, of NEI, expressed the desire to work to resolutions for these issues, as well as any emerging dosimetry issues, in future public meetings.

Issues discussed in this meeting included;

- 1) Additional research to eliminate current limitations of the EPRI methodology for determining EDE from external radiation exposures.
- 2) The need for a clear process for the industry to obtain generic approval for future EDE determining methodologies.
- 3) A review of the multiple requirements on licensees for reporting radiation exposures to the NRC.
- 4) The need for standardizing the method for determining the Committed EDE from internally deposited alpha emitting radionuclides. It was pointed out that an aspect of this issue (i.e., prevention of intakes through adequate surveys and work controls) needs to be addressed by the NEI Taskforce on radiation protection.
- 5) Dosimetry practices for employees of licensees that own multiple nuclear power plants at multiple locations. The industry expressed the opinion that the current practice of issuing a separate dosimeter at each site (for the same individual), may be unnecessarily burdensome.

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Having completed their discussion of the topic, the meeting was adjourned.

Project No. 689

Attachments: As stated

cc: w/atts: See list

**List of Attendees for September 17, 2003 Meeting  
Public Radiation Safety Cornerstone**

<b>NAME</b>	<b>ORGANIZATION</b>
Richard Granberg	American Electric Power
John Russell	PSEG Power
Steve Ingram	PPL Susquehanna, LLC
David J. Miller	Nuclear Management Company
John M. Sukosky	Dominion
Mark A. Palmer	TVA Sequoyah
Donald M. Mei	Duke Energy
David Duran	Southern California Edison
Dwight Hostetter	Southern Nuclear Operating Co.
Robert W. Emmitt	Entergy Nuclear Northeast
Chris Gramm	Ameren UE
Ralph Andersen	Nuclear Energy Institute
Roger Pedersen	NRC/DIPM/IEPB
Joe DeCicco	NRC/NMSS/IMNS/MSIB
Sami Sherbini	NRC/NMSS/IMNS/OD
Mike Lantz*	American Public Service - Palo Verde
Linda Sewell*	PGE - Diablo Canyon
George Xu*	Rensselaer Polytechnic Institute

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Having completed their discussion of the topic, the meeting was adjourned.

Project No. 689

Attachments: As stated

cc: w/atts: See list

Distribution: Summary of Mtg. w/NEI re Occupational Radiation Dosimetry 9/17/03  
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DNelson, R-III

TQuay

KGibson

SMorris, EDO

MFields

AHsia, RES

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Nuclear Energy Institute

Project No. 689

cc: Via email

Mr. Ralph Andersen, Sr. Proj. Mgr

Nuclear Energy Institute

rla@nei.org

**ADAMS Accession#ML032950005**

DOCUMENT: G:\RPRP\JBirmingham\Msum-new\MSUM NEI Dosimetry 9-17-03.WPD

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NAME	JBirmingham	EWeiss: JWigginton for	DSkeen: RDudley for
DATE	10/02/2003	10/15/2003	10/15/2003

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