

July 13, 2006

MEMORANDUM TO: John D. Monninger, Deputy Director
Probabilistic Risk and Applications
Division of Risk Assessment and Special Projects
Office of Nuclear Regulatory Research

THROUGH: Jose G. Ibarra, Branch Chief */RA/*
Human Factors and Reliability Branch
Probabilistic Risk and Applications
Division of Risk Assessment and Special Projects
Office of Nuclear Regulatory Research

FROM: Erasmia Lois, Project Manager */RA/*
Human Factors and Reliability Branch
Probabilistic Risk and Applications
Division of Risk Assessment and Special Projects
Office of Nuclear Regulatory Research

SUBJECT: SUMMARY OF MAY 23, 2006 PUBLIC MEETING ON NUREG-1842,
"EVALUATION OF HUMAN RELIABILITY ANALYSIS METHODS
AGAINST GOOD PRACTICES, DRAFT REPORT FOR COMMENT"

On May 23, 2006, the U.S. Nuclear Regulatory Commission held a public meeting on NUREG-1842, "Evaluation of Human Reliability Analysis Methods Against Good Practices, Draft Report For Comment." NUREG-1842 provides an evaluation of Human Reliability Analysis (HRA) methods that are commonly used in regulatory applications, with a particular focus on their capabilities to satisfy the good practices documented in NUREG-1792, ("Good Practices for Implementing Human Reliability Analysis," April 2005), as well as their respective strengths and limitations regarding their underlying knowledge and data bases. The purpose of the meeting was to present and discuss the content of the draft NUREG and allow the opportunity for interested stakeholders to provide feedback on the draft NUREG.

Summary of the Meeting – May 23, 2006

After introductions, Erasmia Lois (NRC), Alan Kolaczowski, Science Applications International Corporation (SAIC), and John Forester, Sandia National Laboratories (SNL), presented and discussed in detail the contents of NUREG-1842. Also, Jeff Julius, Sciencetech, contractor to Electric Power Research Institute (EPRI), made a presentation summarizing comments of the EPRI HRA User's Group. Industry presentations and feedback focused primarily on the evaluations in NUREG-1842 of the industry-developed HRA methods and tools, including the "Calculator," a software tool for performing HRA. Some of the comments were clarification comments, other comments were on capabilities not sufficiently covered in the NUREG.

CONTACT: Erasmia Lois, RES/DRASP
301-415-6560

Industry representatives also mentioned that there is a need for the NRC to recognize that licensees already have HRA methods that they use, therefore, the report should highlight the need to “re-examine” the methods currently used for their capability to meet the needs of the regulatory application, rather than choose another method for performing HRA. It was also mentioned that the revised report should expand its discussion on the strengths of various HRA methods rather than focusing on their limitations.

After the completion of presentation and discussion, the meeting was adjourned.

Enclosures:

1. List of Attendees
2. Meeting Agenda
3. Presentation Material

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NAME	ELois	Jlbarra	JMonninger
DATE	07/12/06	07/13/06	07/13/06

List of Attendees

<u>Name</u>	<u>Organization</u>
Erasmia Lois	Office of Nuclear Reactor Research (RES), U.S. Nuclear Regulatory Commission (U.S. NRC)
John Forester	Sandia Laboratory
Gareth Parry and	Office of Nuclear Reactor Regulation (NRR), Probabilistic Risk Applications, U.S. NRC
Nathan Siu	Office of Nuclear Reactor Research, U.S. NRC
Vinh Dang	Paul Scherrer Institute, Switzerland
John Monninger	Office of Nuclear Reactor Research, Probabilistic Risk and Applications, U.S. NRC
Jeff Julius	Sciencetech/EPRI HRA User Group
Roland Dunn	STP Nuclear Operating Co.
Donald MacLeod	Exelon/ERW
Alan Kolaczowski	SAIC
Gerhard K. Samide	Westinghouse

**Public Meeting on NUREG-1842
“Evaluation of Human Reliability Analysis Methods Against Good Practices,
Draft Report For Comment”**

May 23, 2006

**U.S. NRC Headquarters, 11555 Rockville Pike, Rockville, MD 20852,
Room Commission Briefing Room**

Preliminary Agenda

Morning

Topic

8:30 - 9:00 Introduction/ Overview

9:00 - 10:30 Evaluation of Methods

- Approach and Summary of results

- Brief discussion of each method

10:30- 10:45 Break

10:45 - 12:00 Evaluation of Methods (Continued)

- Comparison of methods against some key characteristics

- Implications- What methods should be used when?

12:00 - 1:00 Lunch

Afternoon

Topic

1:00 - 2:00 Discussion on method evaluation (continued)

2:00 - 4:00 Questions and Answers (as needed)