

July 3, 2000

MEMORANDUM TO: Mark A. Cunningham, Chief  
Probabilistic Risk Analysis Branch  
Division of Risk Analysis & Applications  
Office of Nuclear Regulatory Research

THRU: Mary T. Drouin, Section Leader/RA/  
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Division of Risk Analysis & Applications  
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FROM: Alan S. Kuritzky  
Probabilistic Risk Analysis Branch/RA/  
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Office of Nuclear Regulatory Research

SUBJECT: SUMMARY OF MAY 17, 2000 PUBLIC MEETING ON RISK-  
INFORMING 10 CFR 50.44

NRC staff met with representatives of the Nuclear Energy Institute (NEI) and other interested stakeholders on May 17, 2000 to discuss the preliminary options being considered by the NRC staff for risk-informing the technical requirements of 10 CFR 50.44, and to elicit stakeholder feedback on these options. The agenda for the meeting is provided in Attachment 1. Attendees of the meeting are listed in Attachment 2. Copies of the viewgraphs used during the meeting are available under ADAMS accession number ML003718725.

The NRC presentation included a discussion of the general approach being taken by the staff to risk-inform the technical requirements of 10 CFR 50, and a detailed discussion of the current status of risk-informing 10 CFR 50.44. The discussion on general approach focused on the selection of the regulation to be risk-informed, development of risk-informed options using two different methods, and evaluation of the options. The two methods for developing risk-informed options included (1) revising the current requirements, and (2) developing alternative requirements based on the defined objective of the regulation.

The detailed discussion of the current status of the effort to risk-inform 10 CFR 50.44 focused on the concern related to combustible gases, the risk from combustible gases, and the current challenge to the different containment types from combustible gases. A summary of the current regulation and its relationship to other regulations and associated implementing documents was also provided. For the six high-level requirements in the current 50.44, various preliminary options for risk-informing were proposed for consideration. The staff also provided a number of preliminary options for risk-informing 50.44 based on the alternative method.

Subsequent to the NRC presentation, Mr. Bob Christie of Performance Technology gave a presentation on risk-informing the technical requirements of 10 CFR 50.44. Mr. Christie presented his opinion that use of purge/repressurization systems and portable hydrogen

recombiners during a severe accident would be detrimental to public health risk and worker health risk.

The ensuing discussion raised a number of issues, including the following:

- Should there be a rule for long-term clean-up following a severe accident?
- If hydrogen monitors or hydrogen recombiners were allowed to be "commercial grade," what would commercial grade entail?
- If hydrogen monitors were no longer safety grade, would there be a need for NRC oversight of these components?

The meeting concluded with a discussion of the staff's schedule for risk-informing 10 CFR 50.44, and future activities. The staff's recommendations for risk-informing 10 CFR 50.44 will be presented to the Advisory Committee on Reactor Safeguards (ACRS) Reliability and Probabilistic Risk Assessment (PRA) Subcommittee on June 29, 2000, and presented to the ACRS full committee sometime during the meeting being held July 12-14, 2000. Staff recommendations are due to the Commission by August 30, 2000. It was decided at the meeting that since the ACRS meetings are open to the public, there is no need to have an additional public meeting on risk-informing 10 CFR 50.44 prior to the ACRS meetings.

Attachments: As stated  
cc w/atts: See next page

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Agenda

Public Meeting with Nuclear Energy Institute (NEI) and Other Interested Stakeholders  
Regarding Risk-Informing Hydrogen Requirements in 10 CFR 50.44

May 17, 2000  
Two White Flint North, T-8A1

8:00 am - 8:15 am	Introduction
8:15 am - 8:45 am	Overview of risk-informing Part 50, as related to 50.44
8:45 am - 10:00 am	NRC current status on 50.44
10:00 am - 10:15 am	Break
10:15 am - 10:45 am	Presentation by Bob Christie (Performance Technology)
10:45 am - 11:30 am	Open Discussion
11:30 am - 12:00 pm	Wrap-up/future activities

Attendance  
May 17, 2000 Risk-Informed 50.44 Public Meeting

ATTENDANCE SHEET RISK-INFORMING HYDROGEN REQUIREMENTS IN 10 CFR 50.44 05/17/00, ROCKVILLE, MD. NEI/INDUSTRY			
Name	Title	Telephone	Organization
Mark Cunningham	Branch Chief, PRAB	301-415-6189	RES/DRAA/PRAB
Mary Drouin	Section Chief, PRAB	301-415-6675	RES/DRAA/PRAB
Alan Kuritzky	Sr. Risk & Reliability Engineer	301-415-6255	RES/DRAA/PRAB
Mike Snodderly	Reactor Systems Engineer	301-415-2047	NRR/DSSA/SPSB
Peter Wen	Project Manager	301-415-2832	NRR/DRIP/RGEB
Charles Willbanks		301-258-1865	NUS Information Services
Mohammed Shuaibi	Reactor Systems Engineer	301-415-2859	NRR/DSSA/SRXB
Denny Ross	Consultant	301-869-9586	
Mike Markley	Sr. Staff Engineer	301-415-6885	ACRS Staff
Asimios Malliakos	Risk Engineer	301-4156458	RES/DRAA/PRAB
Allen Notafrancesco	RES/Engineer	301-4156499	RES/DSARE/SMSAB
Stanley Levinson	FTI/Risk/Rel. Engineer	804-832-2768	Framatome Tech.
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Roger Huston	Principal	703-671-9738	Licensing Support Services
John Lehning	Intern	301-415-3285	NRR/DSSA/SPLB
Jim Pulsipher	Reactor Systems Engineer	301-415-2811	NRR/DSSA/SPLB
Mike Cheek	Sr. Risk & Reliability Analyst	301-415-8380	NRR/DSSA/SPSB

ATTENDANCE SHEET  
RISK-INFORMING HYDROGEN REQUIREMENTS IN 10 CFR 50.44  
05/17/00, ROCKVILLE, MD.  
NEI/INDUSTRY

Name	Title	Telephone	Organization
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Zoltan Rosztoczy	Consultant	520-297-2131	Zeetech
John Lehner	Group Leader	631-344-3921	BNL
Trevor Pratt	Division Head	631-344-2630	BNL
Adrian Heymer	Project Engineer	202-739-8094	NEI
Mark Rubin	Section Chief	301-415-3234	NRR/DSSA/SPSB
Raymond Doebler	Senior Engineer	610-774-7760	PPL Corp (BWROG)
Allen Camp	Group Manager	505-844-5960	Sandia Labs
Bob Christie	Owner	865-588-1444	Performance Technology