

November 1, 2013

MEMORANDUM TO: Patrick L. Hiland, Director
Division of Engineering
Office of Nuclear Reactor Regulation

FROM: Robert O. Hardies, Senior Technical Advisor */RA/*
Division of Engineering
Office of Nuclear Reactor Regulation

SUBJECT: PUBLIC MEETING TO DISCUSS REACTOR PRESSURE VESSEL
ISSUES

DATE & TIME: Thursday, December 5, 2013
8:30 AM – 5:00 PM EST

LOCATION: U.S. Nuclear Regulatory Commission
Two White Flint North, Room T8A01
Rockville, MD 20852

PURPOSE: The U.S. Nuclear Regulatory Commission staff is performing additional research on reactor pressure vessel integrity issues, and is soliciting relevant input from interested parties on various technical issues associated with this subject. The purpose of this meeting is to have technical discussions and an information exchange related to various U.S. reactor pressure vessel issues.

Safe operation of a nuclear power plant requires maintaining the structural integrity of the reactor pressure vessel during both routine operations and during postulated accident scenarios. Assessments of structural integrity require estimates of the fracture toughness of the reactor pressure vessel materials, including the adverse effects of neutron radiation, and comparison of this toughness with the driving force created by the stresses imposed on the reactor pressure vessel. The regulatory and guidance documents that ensure reactor pressure vessel structural integrity that will be discussed in this meeting are *Title 10 of the Code of Federal Regulations (10 CFR) Part 50.61a, "Alternate Fracture Toughness Requirements for Protection against Pressurized Thermal Shock Events," 10 CFR 50 Appendix G, "Fracture Toughness Requirements," and 10 CFR 50 Appendix H, "Reactor Vessel Material Surveillance Program Requirements."* Discussion of nondestructive examination requirements and evaluation of potential hydrogen flaking in reactor pressure vessel forgings will also be discussed.

MEETING CONTACT: Robert O. Hardies, NRR/DE
301-415-5802
robert.hardies@nrc.gov

TELECONFERENCE: Please contact the NRC staff member listed above for teleconference information.

CATEGORY 2: This is a Category 2 Public Meeting. The NRC will obtain feedback from interested technical parties on operating nuclear power plant reactor pressure vessel issues. There will be no licensee-specific discussions of regulatory issues. The public is invited to discuss relevant issues with the agency at a designated point on the agenda.

PARTICIPANTS: Participant's from the NRC include management and staff from the Office of Nuclear Reactor Regulation (NRR), the Office of New Reactors (NRO), and the Office of Nuclear Regulatory Research (RES).

NRC

Gary L. Stevens (RES)	Jeff Poehler (NRR)
Mark Kirk (RES)	Allen Hiser (NRR)
Carol Nove (RES)	Carolyn Fairbanks (NRR)
Robert L. Tregoning (RES)	Steven Downey (NRO)
Bob Hardies (NRR)	Neil Ray (NRO)
Stacey Rosenberg (NRR)	

Industry and Public

Various representatives of the industry, from EPRI, Westinghouse, and from utilities, are expected to attend.

Enclosure: Meeting Agenda

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Enclosure: Meeting Agenda

DISTRIBUTION:

A. Hiser, NRR	J. Poehler, NRR	C. Fairbanks, NRR	S. Rosenberg, NRR
S. Min, NRR	B. Thomas, RES	M. Case, RES	R. Tregoning, RES.
Nove, RES	M. Kirk, RES	G. Stevens, RES	D. Rudland, RES
D. Terao, NRO	N. Ray, NRO	S. Downey, NRO	

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OFFICE	NRR/DE	NRR/DE
NAME	R. Hardies	P. Hiland
DATE	10/29/2013	11/01/2013

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DRAFT AGENDA

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Agenda:

<u>Time</u>	<u>Topic</u>	<u>Presenter</u>
8:30	Introductions	R. Hardies (NRC)
8:40	Agenda and Purpose of Meeting	R. Hardies (NRC)
8:45	Results of Industry Search of RPV Fabrication Records	W. Bamford (Westinghouse)/ J. Lareau (Westinghouse)
9:30	Results of Industry's Investigation of RPV NDE Capabilities	J. Lareau (Westinghouse)
10:00	BREAK	
10:15	Results of Industry' Evaluation of Quasi-Laminar RPV Indications	T. Hardin (EPRI)/ R. Gamble (Sartrex)
11:00	Results of Industry's Evaluation of 10 CFR 50 App. G Issues	T. Hardin (EPRI)/ R. Gamble (Sartrex)
12:00	LUNCH	
13:00	PWR Supplemental Surveillance Program (PSSP)	T. Hardin (EPRI)
14:00	BWR Leak Test Temperatures	N. Palm (EPRI)
15:00	BREAK	
15:15	Pending Changes to ASTM E 185 and E 2215	B. Hall (Westinghouse)
15:45	Discussion of Need to Revise 10 CFR 50 Appendix H	C. Fairbanks (NRC)
16:15	Status of Regulatory Guide for Alternate PTS Rule Implementation	G. Stevens (NRC)
16.30	Reactor Embrittlement Archive Project (REAP)	M. Kirk (NRC)
16:45	Public Comments	R. Hardies (NRC)
16:50	Wrap-up and Actions	R. Hardies (NRC)
17:00	ADJOURN	

ENCLOSURE