

December 2, 2011

MEMORANDUM TO: Aladar A. Csontos, Chief */RA/*
Component Integrity Branch
Division of Engineering
Office of Nuclear Regulatory Research

FROM: Gary L. Stevens, Senior Materials Engineer */RA/*
Component Integrity Branch
Division of Engineering
Office of Nuclear Regulatory Research

SUBJECT: PUBLIC MEETING – NUCLEAR POWER PLANT PIPING FATIGUE ISSUES

DATE & TIME: January 5, 2012
9:00 AM – 3:00 PM EST

LOCATION: U.S. Nuclear Regulatory Commission
Office of Nuclear Regulatory Research
Church Street Building, Room 06-B01
21 Church Street
Rockville, MD 20850

PURPOSE: The purpose of this meeting is to have technical discussions related to four topics in the area of reactor piping fatigue. The topics include

- 1) Stress-based fatigue monitoring methodology for fatigue monitoring of Class 1 Nuclear Components in a Reactor Water Environment: EPRI has developed a proposed methodology to address the concerns of Regulatory Issue Summary (RIS) 2008-30. EPRI will provide an overview of the methodology and seek comments from the NRC and members of the public.
- 2) Improved Basis and Requirements for Break Location Postulation: EPRI has developed a tool that provides alternative bases and recommendations to be used in the event a break exclusion location reaches a cumulative usage factor (CUF) in excess of 0.1 during its operating lifetime. EPRI will explain the bases of this tool and obtain feedback from the NRC and members of the public on the approach used by the tool.
- 3) Process and Technical Basis for Identifying Environmentally Assisted Fatigue (EAF) Limiting Locations: EPRI has documented an approach that may be used to meet requirements for EAF evaluations using guidance from NUREG-1801, Revision 2, “Generic Aging Lessons Learned (GALL) Report.” Some utilities are planning to use this approach, and may reference the document in future License Renewal Application submittals.

EPRI will explain the bases of this approach and solicit feedback from the NRC and members of the public.

- 4) MRP-146, Revision 1, "Thermal Fatigue in Normally Stagnant Non-Isolable RCS Branch Lines": MRP-146 has been recently revised. Since it is specifically referenced in the GALL Report, and consistent with past practice, EPRI would like to brief the NRC and members of the public of the changes made to this document.

MEETING CONTACT: Gary L. Stevens, RES/DE
301-251-7569
gary.stevens@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 thermal fatigue-related topics related to operating nuclear power plant piping. 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 from the Office of Nuclear Reactor Regulation (NRR), Office of New Reactors (NRO), and Office of Nuclear Regulatory Research (RES).

NRC

Aladar A. Csontos (RES)	Kamal Manoly (NRR)
Gary L. Stevens (RES)	Chakrapani Basavaraju (NRR)
Robert L. Tregoning (RES)	Kaihwa Hsu (NRO)
Allen Hiser (NRR)	
Tim Lupold (NRR)	J. Tsao (NRR)

Industry and Public

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

Enclosure: Meeting Agenda

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Enclosure: Meeting Agenda

DISTRIBUTION:

A. Hiser, NRR	M. Galloway, NRR	W. Kemper, NRR	M. Khanna, NRR
K. Manoly, NRR	C. Basavaraju, NRR	P. Hiland, NRR	M. Murphy, NRR G.
Wilson, NRR	A. McMurtray, NRR	M. Evans, NRR	J. Lubinski, NRR
T. Lupold, NRR	H. Gonzalez, NRR	R. Taylor, NRR	J. Tsao, NRR
S. Richards, RES	M. Case, RES	R. Tregoning, RES	K. Hsu, NRO
N. Ray, NRO	D. Terao, NRO	J. Colaccino, NRO	T. Bergman, NRO

ADAMS Accession No.: ML11336A152

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DATE	12/2/11	12/2/11	12/2/11

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DRAFT AGENDA
NUCLEAR POWER PLANT PIPING FATIGUE ISSUES

January 5, 2012

9:00 AM – 3:00 PM EST

Location:

U.S. Nuclear Regulatory Commission
Office of Nuclear Regulatory Research
Church Street Building, Room 06-B01
21 Church Street
Rockville, MD 20850

Purpose of Meeting:

The purpose of this meeting is to obtain feedback from interested technical parties on thermal fatigue-related topics related to operating nuclear power plant piping.

Agenda:

Time	Topic*	Organization	Coordinator or Presenter
9:00	Welcome and Introductions	NRC	Stevens
9:10	Purpose of Meeting	NRC	Stevens
9:15	Stress-Based Fatigue Monitoring Methods to Address Concerns Identified in RIS 2008-30	SIA	Gilman
10:15	BREAK		
10:30	Improved Basis and Requirements for Pipe Break Location Postulation	SIA	Hermann
11:30	Process and Technical Basis for Identifying Environmentally-Assisted Fatigue Limiting Locations	SIA	Gerber
12:30	LUNCH		
1:30	Revision 1 to MRP-146, Thermal Fatigue in Normally Stagnant Non-Isolable RCS Branch Lines	SIA	McGill
2:30	Public Comments	NRC	Stevens
2:45	Summary and Actions	NRC	Stevens
3:00	ADJOURN		

* Interested parties should pre-arrange relevant technical presentations by contacting the designated NRC meeting contact.