

July 03, 2018

Title: Notice of Meeting on Environmentally Assisted Fatigue Research and Related ASME Activities

Date(s) and Time(s): September 25, 2018, 08:30 AM to 05:00 PM

Location: NRC One White Flint North, 9 B4  
11555 Rockville Pike  
Rockville, MD

Category: This is a Category 2 meeting. The public is invited to participate in this meeting by discussing regulatory issues with the Nuclear Regulatory Commission (NRC) at designated points identified on the agenda.

Purpose: The purpose of the meeting is to discuss environmentally assisted fatigue research and associated ASME activities that are sponsored by EPRI, discuss related activities and issues of interest to the NRC, and summarize progress on actions arising from the last NRC public meeting that was held on June 30, 2016.

Contact: Robert Tregoning  
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Participants:	<u>NRC</u>	<u>External</u>
	Robert Tregoning, NRC Staff Michael Benson, NRC Staff	Sam Ranganath, XGEN Gary Stevens, Electric Power Research Institute (EPRI) Jean Smith, Electric Power Research Institute (EPRI)

Webinar:	<u>URL</u>	<u>Meeting Number</u>	<u>Password</u>
	<a href="https://attendee.gotowebinar.com/register/5275983847981757698">https://attendee.gotowebinar.com/register/5275983847981757698</a>	not required	not required

## PUBLIC MEETING AGENDA

Notice of Meeting on Environmentally Assisted Fatigue Research and Related ASME Activities

September 25, 2018, 08:30 AM to 05:00 PM

NRC One White Flint North, 9 B4  
11555 Rockville Pike  
Rockville, MD

<i>Time</i>	<i>Topic</i>	<i>Speaker</i>
8:30 am	Introductions and Introductory Remarks	R. Tregoning, NRC G. Stevens, EPRI
8:40 am	Review of Actions from June 30, 2016 Meeting	R. Tregoning, NRC G. Stevens, EPRI
9:00 am	Overview of EPRI Updated Gap Report	G. Stevens, EPRI
9:15 am	Effects of Irradiation on Fatigue Life	R. Tregoning, NRC
9:45 am	EAF Database Sharing	K. Mottershead, Wood
10:00 am	Break	
10:15 am	Ongoing EPRI EAF Specimen Testing	S. Asada, MHI
10:30 am	a. Non-Isothermal EAF Testing for 316 Stainless Steel in Simulated PWR Environment	J. Smith, EPRI
10:45 am	b. Hold Time and Water Chemistry Effects	J. Smith, EPRI
	c. EAF Short Crack Growth	
11:00 am	EPRI EAF Component Testing	J. Smith, EPRI
11:30 am	Development of New Design Fatigue Curves in Japan - Discussion of Best Fit Curves Based on Fatigue Test Data	S. Asada, MHI
12:00 pm	Lunch	
1:00 pm	Ongoing EPRI EAF Analyses	S. Gosselin, LPI
1:30 pm	a. Fatigue Usage Gradient and Life Factor Concept	S. Ranganath, XGEN
2:00 pm	b. Alternative Approaches for Simplified Elastic-Plastic Analysis	S. Ranganath, XGEN
2:30 pm	c. Fatigue Limit of Stainless Steel for Use in Vibration Evaluation	S. Ranganath, XGEN
	d. Corrosion Fatigue Crack Growth of Low Alloy Steel in BWRs	
3:00 pm	Break	
3:15 pm	BWRVIP Approach for Managing EAF of Internals	G. Stevens, EPRI
3:45 pm	Discussion of High Energy Line Break (HELB) Limit for CUF = 0.1	M. Benson, NRC G. Stevens, EPRI
4:15 pm	Status of Previous EPRI EAF Efforts	G. Stevens, EPRI
	a. Probabilistic Determination of Margins in ASME Code Section III CUF Calculations	
	b. Fatigue Crack Growth Rates for Austenitic Stainless Steels in BWR Environments	
	c. BWR Subsequent License Renewal EAF Database	
	d. International Collaboration Group	
4:45 pm	Meeting Summary and Next Steps	R. Tregoning, NRC
4:50 pm	Public Comment Period	R. Tregoning, NRC
5:00 pm	Adjourn	

The time of the meeting is local to the jurisdiction where the meeting is being held.

The NRC provides reasonable accommodation to individuals with disabilities where appropriate. If reasonable accommodation is needed to participate in this meeting, or if a meeting notice, transcript, or other information from this meeting is needed in another format (e.g., Braille, large print), please notify the NRC meeting contact. Determinations on requests for reasonable accommodation will be made on a case-by-case basis.

ADAMS Accession Number: ML18256A115

Distribution:

Michael Benson, RES	Kamal Manoly, NRR
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Allen Hiser, NRR	Alexander Tsirigotis, NRO
David Rudland, NRR	Chakrapani Basavaraju, NRR
Matthew Mitchell, NRO	James Medoff, NRR
Timothy Lupold, NRO	Robert Tregoning, RES

Name	Robert Tregoning	Christopher Regan
Office	RESIDE	RESIDE
Date	07/03/2018	07/03/2018

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Link to meeting details: <https://www.nrc.gov/pmns/mtg?do=details&Code=20180785>

NOTIFICATIONS

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Commission's Policy Statement on "Enhancing Public Participation in NRC Meetings"  
67 Federal Register 36920, May 28, 2002  
The policy statement may be found on the NRC website  
<http://www.nrc.gov/reading-rm/doc-collections/commission/policy/67fr36920.html>