



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

March 29, 2018

MEMORANDUM TO: Greg Casto, Chief  
PRA Licensing Branch B  
Division of Risk Assessment  
Office of Nuclear Reactor Regulation

FROM: Angela Wu, Fire Protection Engineer */RA/*  
PRA Licensing Branch B  
Division of Risk Assessment  
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF THE MARCH 19, 2018, CATEGORY 2 PUBLIC  
MEETING ON FIRE PROBABILISTIC RISK ASSESSMENT

On March 19, 2018, the U.S. Nuclear Regulatory Commission (NRC) staff held a teleconference meeting with industry stakeholders and the public to discuss outstanding fire probabilistic risk assessment (PRA) topics, including existing fire PRA frequently asked questions (FAQs), a new fire PRA FAQ, and research projects.

The NRC staff are in the process of finalizing the closure memoranda for two FAQs: Fire PRA FAQ 17-0013, "High Energy Arcing Fault (HEAF) Non-Suppression Probability (NSP)," and Fire PRA FAQ 16-0011, "Cable Tray Ignition." In addition to the two FAQs, the NRC staff and the Nuclear Energy Institute (NEI) have finalized Fire PRA FAQ 14-0007, "Transient Fire Frequency Likelihood," and the NRC staff will proceed to develop a closure memorandum for FAQ 14-0007.

Following discussion between the NRC staff and industry, the NRC staff will provide comments to the industry on:

- Fire PRA FAQ 18-0015, "More Realistic Contained Fire Duration Limits"
- Fire PRA FAQ 18-0014, "The Time to Detection is Zero for Manual Non-Suppression Probability Calculations"
- Fire PRA FAQ 18-0017, "Conditional Trip Probability for Modeling Operator Discretion"

In regards to fire PRA research, the NRC staff will be hosting a HEAF Phase II Information Sharing Workshop, from April 18-19, 2018, at NRC Headquarters (Agencywide Documents Access and Management System (ADAMS) Accession No. ML18060A385). To attend the

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workshop, send an email to [Kenneth.Hamburger@nrc.gov](mailto:Kenneth.Hamburger@nrc.gov) with your full name, company name, and whether you are a U.S. citizen no later than April 1, 2018.

Additionally, NEI provided a status update on its proposal regarding a refinement of the credit allowed for Very Early Warning Fire Detection Systems in NUREG-2180, "Determining the Effectiveness, Limitations, and Operator Response for Very Early Warning Fire Detection Systems in Nuclear Facilities (DELORES-VEWFIRE)" that would include a domestic and international fire events database review, piloting the proposed methodology, an expert elicitation, and interim and final reports. The Electric Power Research Institute is in the process of recruiting experts to serve on a panel in June 2018. NEI is also looking for an external team lead to write the technical report.

All meeting materials are publicly available at ADAMS Accession Nos. ML18073A362 and ML18081A846.

As a Category 2 meeting, the public was invited to participate in the meeting by discussing regulatory issues with the NRC staff at designated points identified on the agenda.

Enclosure:

List of Meeting Attendees

SUBJECT: SUMMARY OF THE MARCH 19, 2018, CATEGORY 2 PUBLIC MEETING ON  
FIRE PROBABILISTIC RISK ASSESSMENT DATED MARCH 29, 2018

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ADAMS Accession No. ML18086B783

Office	DRA/APLB	DRA/APLB	APLB
Name	AWu	JHyslop	GCasto
Date	03/28/2018	03/29/2018	03/29/2018

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## **FIRE PRA PUBLIC FAQ MEETING: LIST OF MEETING ATTENDEES**

March 19, 2018

### **U.S. Nuclear Regulatory Commission Staff**

Greg Casto  
Susan Cooper  
JS Hyslop  
Brian Metzger  
Jay Robinson  
David Stroup  
Gabriel Taylor  
Angela Wu

### **Industry Stakeholders**

Victoria Anderson (Nuclear Energy Institute)  
Mark Brossart (Xcel Energy)  
Robert Cavedo (Exelon)  
Mark Hulet (Palo Verde)  
Ashley Lindeman (Electric Power Research Institute)  
Andy Ratchford (Jensen Hughes)  
Mark Schairer (EPM)  
Tracy Stclair (First Energy)  
Gregory Zucal (Jensen Hughes)

### **Members of the Public**

Justin Worden (Appendix R Solutions)  
Jana Bergman (Curtiss-Wright)