

October 30, 2015

MEMORANDUM TO: Stacey Rosenberg, Chief  
PRA Licensing Branch  
Division of Risk Assessment  
Office of Nuclear Reactor Regulation

FROM: Mehdi Reisi Fard, Reliability and Risk Analyst */RA/*  
PRA Licensing Branch  
Division of Risk Assessment  
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF OCTOBER 1, 2015 CATEGORY 2 MEETING  
REGARDING FIRE PROBABILISTIC RISK ASSESSMENT  
METHODS AND FREQUENTLY ASKED QUESTIONS

On October 1, 2015, the U.S. Nuclear Regulatory Commission (NRC) staff held a Category 2 public meeting, via teleconferencing, with the nuclear industry and the Nuclear Energy Institute to discuss fire probabilistic risk assessment (FPRA) Frequently Asked Questions (FAQs). Prior to this meeting, the industry provided comments on the draft white paper on implementation of new methods and data (available at Agencywide Documents Access and Management System (ADAMS) Accession No. ML15260A586) and updated the draft white paper (available at ADAMS Accession No. ML15260A588).

A summary of the topics discussed at this meeting is provided below:

- The NRC staff announced that the Office of Nuclear Reactor Regulation (NRR) has completed its review of NUREG-2178, "Refining and Characterizing Heat Release Rates from Electrical Enclosures During Fire (RACHELLE-FIRE), Volume 1: Peak Heat Release Rates and Effect of Obstructed Plume," and determined that it contains information that may be used by licensees to approximate heat release rate and zone of influence values for various types of electrical enclosures commonly found in nuclear power plants. The NRR letter that discusses availability of NUREG-2178 is available at ADAMS Accession No. ML15261A713.

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- The NRC staff discussed industry's comments on white paper for implementation of new methods and data. Among the discussions on this topic, the NRC staff discussed the comment on lack of requirements for reviewing new methods in the peer-review process, incorporation of Section 1-5.5 of the American Society of Mechanical Engineers/American Nuclear Society (ASME/ANS) probabilistic risk assessment (PRA) Standard in the white paper, and keeping the distinction between period and interim updates. The NRC staff also indicated that the discussion on breakdown of the stages of a National Fire Protection Association (NFPA) standard 805 application, review, and implementation processes characterizes the agency's review process. The NRC staff stated that the staff may incorporate parts of the white paper in a guidance document. The NRC staff will provide written comments on the white paper before the next FAQ meeting.
- The NRC staff stated that the staff will provide comments on FPRA FAQ 14-0007, "Transient Fire Frequency Likelihood," before the next FPRA FAQ meeting.
- The industry requested a face-to-face FPRA FAQ meeting to discuss industry priorities for improving Fire PRA realism.

Meeting notice and agenda for this public meeting is available at ADAMS Accession No. ML15238B254.

A list of meeting attendees is enclosed with this memorandum.

Enclosure:  
As stated

- The NRC staff discussed industry’s comments on white paper for implementation of new methods and data. Among the discussions on this topic, the NRC staff discussed the comment on lack of requirements for reviewing new methods in the peer-review process, incorporation of Section 1-5.5 of the American Society of Mechanical Engineers/American Nuclear Society (ASME/ANS) probabilistic risk assessment (PRA) Standard in the white paper, and keeping the distinction between period and interim updates. The NRC staff also indicated that the discussion on breakdown of the stages of a National Fire Protection Association (NFPA) standard 805 application, review, and implementation processes characterizes the agency’s review process. The NRC staff stated that the staff may incorporate parts of the white paper in a guidance document. The NRC staff will provide written comments on the white paper before the next FAQ meeting.
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Enclosure:  
As stated

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ADAMS Accession No.: ML15300A585

OFFICE	NRR/DRA/APLA	NRR/DRA/APLA
NAME	MReisiFard	SRosenberg
DATE	10 / 30 / 15	10 / 30 / 15

**OFFICIAL RECORD COPY**

**FIRE PROBABILISTIC RISK ASSESSMENT  
FREQUENTLY ASKED QUESTIONS PROCESS**

**LIST OF ATTENDEES**

October 1, 2015

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

S. Lee  
A. Klein  
S. Rosenberg  
H. Barrett  
D. Gennardo  
J. Hyslop  
B. Metzger  
M. Reisi Fard

**Stakeholders**

P. Amico (Hughes Associates)\*  
V. Anderson (Nuclear Energy Institute)\*  
B. Brogan (Entergy)\*  
A. Lindeman (Electric Power Research Institute)\*  
G. Loignon (V. C. Summer Station)\*  
A. Muna (Sandia National Laboratories)\*  
M. Schairer (Engineering Planning and Management (EPM), Inc.)\*  
G. Zucal (ERIN Engineering and Research, Inc.)\*

Et al.

\*participated via phone

ENCLOSURE