

March 24, 2014

MEMORANDUM TO: Hossein G. Hamzehee, 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 MARCH 4, 2014 CATEGORY 2 MEETING  
REGARDING FIRE PROBABILISTIC RISK ASSESSMENT  
METHODS AND FREQUENTLY ASKED QUESTIONS

On March 4, 2014, 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 (NEI) to discuss fire probabilistic risk assessment (FPRA) Frequently Asked Questions (FAQs). Prior to this meeting, NEI provided written comments on the guidance for FPRA FAQ 13-0002, "Modeling of Control Room Abandonment on Loss of Habitability," (available at Agencywide Documents Access and Management System (ADAMS) Accession No. ML14063A286). In addition, NEI provided drafts of "Finalizing Licensing Basis Information for NFPA 805 PRAs" (ADAMS Accession No. ML14050A035) and "Discussion Points on Follow-On Peer Review Expectations" (ADAMS Accession No. ML14050A365).

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

- The NRC and industry discussed the priority of research activities and indicated that the priority of activities has not changed since the last FPRA FAQ public meeting. The NRC staff from the Office of Nuclear Regulatory Research (RES) provided information regarding Supplement to Interim Technical Guidance on Fire-Induced Circuit Failure Mode Likelihood Analysis published on February 12, 2014 (ADAMS Accession No. ML14017A084). This Interim Technical Guidance supplements and supersedes the Interim Guidance published in June 2013. The NRC staff discussed new results and tables available in the Interim Guidance. The NRC staff indicated that these results will be published in Volume 2 of NUREG/CR-7150. Finally, the RES staff stated that the Revision 7 to the project plan for advancing the state of the art for performing fire hazard analysis of electrical enclosure heat release rate is publicly available at ADAMS Accession No. ML14056A408.

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- The NRC stated that the NRC staff has had internal discussions on the revised “freeze point” paper sent by NEI before the public meeting. The NRC also stated that the staff would need more internal discussions in order to propose the path forward, and asked the industry to provide specific examples to demonstrate the applicability of this paper. NEI agreed to provide more specific examples and the NRC staff agreed to provide written comments on the revised paper before the next public meeting.
- The NRC stated that the staff would decide how to document the final revision of the follow-on peer review paper.
- NEI stated its intention to send the NRC a FAQ on transient frequencies that extends FAQ 12-0064 for areas within physical analysis units. NEI stated that this FAQ has a moderate priority and the first draft would be completed before the next public meeting.
- The Electric Power Research Institute representative stated that the updated fire ignition frequency database will be provided to the NRC by March 2014 and will be issued by June 2014.
- The NRC staff provided a background on development of the guidance on the use of a generic, screening human error probability of 0.1 for main control room abandonment. The NRC staff stated that staff was disappointed with the lack of technical discussion in the latest industry response on this guidance. The industry explained that the guidance was applied to three plants and, although the industry expected that some of these plants would meet the guidance, none of them met the guidance. The industry agreed to provide more detailed recommendations and evaluations before the next FAQ meeting. The NRC stated that the staff intends to issue this guidance soon.

The next public meeting for discussing FPRA FAQs will be on April 2, 2014.

The meeting notice and agenda for this public meeting is available at ADAMS Accession No. ML14038A117.

A list of meeting attendees is enclosed with this memorandum.

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ADAMS Accession No.: ML14078A225

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DATE	3/19/14	3/24/14

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

**LIST OF ATTENDEES**

March 4, 2014

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

S. Lee  
H. Hamzehee  
A. Klein  
M. Salley\*  
H. Barrett  
S. Cooper  
S. Dinsmore  
D. Gennardo  
J. Hyslop  
B. Metzger  
C. Moulton  
M. Reisi Fard  
G. Taylor\*

**Stakeholders**

P. Amico (Hughes Associates, Inc.)\*  
V. Anderson (Nuclear Energy Institute)\*  
B. Brogan (Entergy – Palisades)\*  
J. Curry (NuScale Power)\*  
F. Joglar (Hughes Associates, Inc.)\*  
J. Julius (Sciencetech)\*  
A. Linedman (Electric Power Research Institute)\*  
A. Ratchford (RDS)\*  
S. Seyedhosseini (PSEG Nuclear)\*  
K. Zee (ERIN Engineering and Research, Inc.)\*

\*participated via phone

ENCLOSURE