

August 18, 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 AUGUST 3, 2015 CATEGORY 2 MEETING
REGARDING FIRE PROBABILISTIC RISK ASSESSMENT
METHODS AND FREQUENTLY ASKED QUESTIONS

On August 3, 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 (NEI) to discuss fire probabilistic risk assessment (FPRA) Frequently Asked Questions (FAQs). Prior to this meeting, the NRC staff provided comments on the draft white paper on implementation of new fire ignition frequencies and non-suppression probabilities (available at Agencywide Documents Access and Management System (ADAMS) Accession No. ML15211A503). The industry provided a revision of FPRA FAQ 14-0007, "Transient Fire Frequency Likelihood," that included responses to NRC questions (available at ADAMS Accession No. ML15211A486).

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

- The NRC staff discussed the NRC's written comments on industry's white paper, dated June 15, 2015, for implementation of new methods and data, including 2014 ignition frequencies. The NRC staff stated that their comments reflect a breakdown of the stages of a National Fire Protection Association (NFPA) standard 805 application, review, and implementation processes. The industry stated that the industry believes that the combination of NEI peer-review guidance and the ASME PRA standard

CONTACT: Mehdi Reisi Fard, NRR/DRA
(301) 415-3092

sufficiently captures the NFPA 805 process. In response to NRC staff's comments, the industry clarified that the white paper is intended to cover both interim and periodic PRA method updates. The industry also emphasized that when the licensee evaluates the risk to support an application, the licensee is required by its procedures to consider the impact of the new methods and data of which they are aware. The industry will provide written comments expanding its position in the white paper and reflect the staff's concerns. The NRC staff also indicated that to facilitate closure of this issue in the near future, a separate public meeting on the implementation of new data and methods may be scheduled before the next FAQ meeting.

- The NRC staff and industry discussed the new revision of FPRA FAQ 14-0007, "Transient Fire Frequency Likelihood." During the discussion, the NRC staff stated that, using the method in the draft FAQ, a change in transient frequencies within a physical analysis unit (PAU) due to a change within the PAU could affect the transient frequencies in other PAUs. The staff suggested that the industry consider a method that would maintain the frequencies for each PAU. The staff and industry also had limited discussions about the industry's introduction of floor area into the weighting factors. The NRC staff will provide comments on the new revision of the FAQ by the next public meeting.

Meeting notice and agenda for this public meeting is available at ADAMS Accession No. ML15189A220.

A list of meeting attendees is enclosed with this memorandum.

Enclosure:
As stated

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- The NRC staff and industry discussed the new revision of FPRA FAQ 14-0007, "Transient Fire Frequency Likelihood." During the discussion, the NRC staff stated that, using the method in the draft FAQ, a change in transient frequencies within a physical analysis unit (PAU) due to a change within the PAU could affect the transient frequencies in other PAUs. The staff suggested that the industry consider a method that would maintain the frequencies for each PAU. The staff and industry also had limited discussions about the industry's introduction of floor area into the weighting factors. The NRC staff will provide comments on the new revision of the FAQ by the next public meeting.

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OFFICE	NRR/DRA/APLA	NRR/DRA/APLA
NAME	MReisiFard	SRosenberg
DATE	08/18/15	08/18/15

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

LIST OF ATTENDEES

August 3, 2015

U. S. Nuclear Regulatory Commission Staff

S. Lee
A. Klein
S. Rosenberg
H. Barrett
S. Dinsmore
D. Gennardo
J. Hyslop
S. Mehta
N. Melly
M. Reisi Fard

Stakeholders

V. Anderson (Nuclear Energy Institute)*
B. Brogan (Entergy)*
R. Cavedo (Exelon)*
D. Miskiewicz (Engineering Planning and Management (EPM), Inc.)*
A. Ratchford (RDS)*
R. Rolland (Nuclear Energy Institute)*
W. Shields (Numark Associates)*
S. Short (PNNL)*
T. Weber (Engineering Planning and Management (EPM), Inc.)*
G. Zucal (ERIN Engineering and Research, Inc.)*

Et al.

*participated via phone

ENCLOSURE