

May 14, 2013

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 APRIL 17, 2013 CATEGORY 2 MEETING  
REGARDING FIRE PROBABILISTIC RISK ASSESSMENT  
METHODS AND FREQUENTLY ASKED QUESTIONS

On April 17, 2013, 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) and issues regarding generic requests for additional information (RAIs). Prior to this meeting NRC provided written comments on 1) FPRA FAQ-0005, "Cable Fires Special Cases: Self-Ignited and Caused by Welding and Cutting," (available at Agencywide Documents Access and Management System (ADAMS) Accession No. ML13114A271), 2) FPRA FAQ-0006, "Modeling Junction Box Scenarios in a Fire PRA," (available at ADAMS Accession No. ML13113A437), and 3) Generic RAIs (available at ADAMS Accession No. ML13114A638). NEI also provided written comments on 1) FPRA FAQ 13-0001, "Clarifications on Treatment of VEWFDs," (available at ADAMS Accession No. ML13107B553) and 2) FPRA FAQ 13-0002, "Modeling of Control Room Abandonment," (available at ADAMS Accession No. ML13114A715).

NRC staff conveyed recent comments from the Office of Nuclear Regulatory Research on FPRA FAQ-0005. NRC staff requested that the industry publicly release a report on cable failures from San Onofre Nuclear Generating Station. NEI agreed to contact relevant parties about getting this report released publicly before the next meeting.

NRC staff conveyed comments on FPRA FAQ-0006. NRC staff requested public release of another report on testing from industry and NEI agreed to contact relevant parties for release of that report. NRC staff expects to get industry's response to NRC comments on this FAQ at the next meeting.

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

NRC staff and industry discussed the latest NRC comments on definition of “deviation” in the document on generic issues related to RAIs. NRC indicated that the definition of deviation should be applied to fire PRA and this definition should not be restricted to Title 10, Section 50.48(c), of the *Code of Federal Regulations* (10CFR50.48(c)). NRC indicated that fire PRA issues raised in National Fire Protection Association’s “Performance-Based Standard for Fire Protection for Light-Water Reactor Electric Generating Plants” (NFPA 805) reviews are generic to fire PRA and those issues would apply to fire PRAs in support of other applications. NRC staff agreed to provide further discussion on this topic in the next meeting, if needed.

Finally, industry provided an overview on its analytical fire modeling approach to estimate the damaging temperature outside the cabinet for sensitive electronic contained within. Industry agreed to provide a new version on FPRA FAQ 13-0004, “Failure of Sensitive Electronics,” before the next meeting.

NRC staff agreed to provide comments on industry’s FPRA FAQ 13-0001 update by the next meeting. In addition, the NRC staff agreed to further investigate industry’s FAQ on MCR abandonment and to determine when the staff would provide comments on this FAQ.

Meeting notice and agenda for this meeting is available at ADAMS Accession No. ML13092A337.

A list of meeting attendees is enclosed with this memorandum.

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#### DISTRIBUTION:

JGiitter, NRR	SLee, NRR	HHamzehee, NRR	AKlein, NRR
HBarrett, NRR	SDinsmore, NRR	RGallucci, NRR	JHyslop, NRR
NIqbal, NRR	PLain, NRR	BMetzger, NRR	CMoulton, NRR
APearson, NRR	GTaylor, RES	NMelly, RES	MSalley, RES
RidsNrrDraAfpb	RidsNrrDraApla	vka@nei.org	

ADAMS Accession No. ML13129A299

OFFICE	DRA/APLA	DRA/APLA
NAME	MReisiFard	HHamzehee
DATE	05/ 09 /13	05/ 14 /13

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

**LIST OF ATTENDEES**

April 17, 2013

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

J. Giitter  
S. Lee  
H. Hamzehee  
A. Klein  
H. Barrett  
S. Dinsmore  
J. Hyslop  
J. Lai  
B. Metzger  
N. Melly  
C. Moulton

**Stakeholders**

P. Amico (Hughes Associates, Inc.)\*  
V. Anderson (Nuclear Energy Institute)\*  
B. Brady (URS Corporation)\*  
R. Fosdick (SwRI)  
C. Guey (Tennessee Valley Authority)\*  
D. Henneke\*  
J. Hiller (Ameren Missouri)\*  
M. Hulet (Palo Verde Nuclear Generating Station)\*  
F. Joglar (Hughes Associates, Inc.)\*  
J. Julius (Sciencetech)\*  
A. LaFleur (Sandia National Laboratories)\*  
J. Liming (ABSG Consulting Inc.)\*  
M. Schairer (Engineering Planning and Management, Inc.)\*  
S. Nowlen (Sandia National Laboratories)\*  
A. Ratchford (RDS)\*  
R. Wachowiak (Electric Power Research Institute)\*

\*participated via phone

ENCLOSURE