

September 29, 2017

MEMORANDUM TO: Greg Casto, Chief
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Division of Risk Assessment
Office of Nuclear Reactor Regulation

FROM: Jay E. Robinson, Senior Fire Protection Engineer */RA/*
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SUBJECT: SUMMARY OF THE SEPTEMBER 7, 2017, CATEGORY 2 PUBLIC
MEETING REGARDING THE FIRE PROBABILISTIC RISK
ASSESSMENT FREQUENTLY ASKED QUESTION 17-0012 INCIPIENT
DETECTION FOR FIRE PREVENTION AND SUPPRESSION

On September 7, 2017, the U.S. Nuclear Regulatory Commission (NRC) staff held a meeting with stakeholders and the public to discuss the probabilistic risk assessment (PRA) frequently asked question (FAQ) 17-0012 regarding Incipient Detection for Fire Prevention and Suppression. Specifically the meeting focused on discussing Nuclear Energy Institute's (NEI) proposed resolution to previous NRC comments regarding the FAQ.

On February 21, 2017, NEI submitted FAQ 17-0012, "Incipient Detection for Fire Prevention and Suppression," Revision 0d into the NRC fire PRA FAQ process. The FAQ was introduced during the March 28, 2017 FAQ public meeting with the NRC providing high level comments and feedback on the FAQ approach. In the July 12, 2017 FAQ public meeting, NEI provided an updated version of the FAQ (Revision 0e) and communicated the changes made in response to the NRC high level comment and feedback. The NRC staff reviewed revision 0e in detail and provided comments to NEI (Enclosures 2, 3, 4). NEI provided a revised FAQ, revision 0f, (Enclosure 5), just prior to the meeting.

Revision 0f (Enclosure 5) represented a change to NEI's previous approach to crediting detection for fire prevention and suppression. Because of the extensive changes in revision 0f of the FAQ and the limited time for the NRC staff to review and understand the revised approach, the NRC staff didn't believe that discussing each of its detailed comments provided on revision 0e would be a good use of time in the September 7, 2017 meeting. As a result, NEI led most of the discussion during the meeting.

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NEI provided an overview of the new approach in revision 0f followed by a discussion of how the new approach would reduce the number of concerns the staff identified with the previous approach of revision 0e. Following the overview and general discussions, NEI discussed several of the staff's comments and how they would be resolved under the new approach. Most resolutions resulted in deletion of content in revision 0e of the FAQ. The remainder of the meeting was devoted to providing general feedback on the revised approach. As a part of this general feedback, the staff discussed the possibility of pursuing the proposed data collection and analysis effort proposed for this FAQ under a different process given the complexity and length of time it could take to complete such an effort. The next step identified in the meeting was for NRR management and NEI to discuss the path forward in order to enhance the potential for success with this FAQ.

During the public comment period, a member of the public made a statement that they believed work in this area is beneficial to improving safety and reminded everyone of the importance of understanding and analyzing fire risk.

The documents discussed during the meeting are available in ADAMS. A list of meeting attendees is included in Enclosure 1. NRC staff comments on FAQ 17-0012, Revision 0e are included in Enclosures 2 and 3. FAQ 17-0012, Revision 0e is included in Enclosure 4. FAQ 17-0012, Revision 0f is included in Enclosure 5.

Enclosures:

1. List of meeting attendees
2. NRC Comments on FAQ 17-0012, Revision 0e
3. NRC Detailed Comments on FAQ 17-0012, Revision 0e
4. FAQ 17-0012, Revision 0e
5. FAQ 17-0012, Revision 0f

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REGARDING THE FIRE PROBABILISTIC RISK ASSESSMENT FREQUENTLY
ASKED QUESTION 17-0012 INCIPIENT DETECTION FOR FIRE PREVENTION
AND SUPPRESSION

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ADAMS Accession No.:

Memo: ML17270A261

Enclosure 2: ML17270A319

Enclosure 3: ML17270A323

Enclosure 4: ML17270A367

Enclosure 5: ML17270A379

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**FAQ 17-0012
INCIPIENT DETECTION FOR
FIRE PREVENTION AND SUPPRESSION**

September 7, 2017

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ENCLOSURE