

April 14, 2015

MEMORANDUM TO: Sunil Weerakkody, Branch Chief
PRA Operations and Human Factors Branch
Division of Risk Assessment
Office of Nuclear Reactor Regulation

FROM: Michael Montecalvo, Reactor Operations Engineer */RA/*
PRA Operations and Human Factors Branch
Division of Risk Assessment
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF APRIL 1, 2015 PUBLIC MEETING TO
CONTINUE DISCUSSIONS BETWEEN THE NRC AND
INDUSTRY RISK-INFORMED STEERING COMMITTEES
(RISC)

On April 1, 2015, the U.S. Nuclear Regulatory Commission (NRC) staff held a Category 2 public meeting to continue discussions between the NRC and industry risk-informed steering committees (RISC). The purpose of the meeting was to engage the industry and public in a discussion of the progress of the working groups formed by the RISCs and continue the discussion of potential topics for the committees to consider for 2015. The RISCs also received an update on the Probabilistic Flood Hazard Assessment (PFHA) Research Plan and the Risk Prioritization Initiative (RPI). The meeting notice is available in the Agencywide Documents Access and Management System (ADAMS) Accession Number ML15069A101. The presentation provided by the NRC Treatment of Uncertainty in Decision Making Working Group is available in ADAMS Accession Number ML15092A230. The presentations on the PFHA Research plan and RPI are available in ADAMS Accession Numbers ML15092A217 and ML15092A225 respectively.

The NRC working group leads provided an update on actions taken since the last meeting including public meetings held and the review of white papers that were developed by the industry. The next step for the working groups is to develop project plans in support of the actions discussed in the white papers. The discussion on potential topics for 2015 focused on crediting "flex" equipment within licensees Probabilistic Risk Assessments (PRA) and the aggregation of risk across multiple hazards.

A list of individuals that participated in the meeting is provided as an enclosure to this document. No feedback forms were received after the meeting.

CONTACT: Michael Montecalvo, NRR/DRA
(301) 415-1678

Opening comments

The NRC RISC chair opened the meeting stating that she was pleased with the progress of the working groups to date and the purpose of this meeting was to update the RISCs on that progress. The industry RISC co-chair also commented on the success the RISCs have realized with the working groups and the progress they have made so far. She went on to say that the success realized confirms the reason the RISCs were formed and the progress should continue on to other risk-related topics.

PRA Technical Adequacy Working Group

The NRC working group lead gave an update on the working group progress in reviewing the industry white paper. There have been multiple public interactions between the industry and NRC working groups to incorporate comments from the staff. The staff is currently working with industry to ensure that the last of the staff's comments are incorporated into the document. The industry working group lead commented that there is not any substantive disagreement with any of the NRC staff comments provided. The NRC working group lead recommended that the RISCs approve the use of the pilot proposed in the white paper, but also stated that guidance regarding the implementation of that pilot will be needed to set up specific criteria that can be agreed to by both industry and the NRC. The next step for the working groups is to develop a timeline to include pilot implementation. The NRC working group lead expects to have the timeline complete within the next couple months and the pilot to begin as early as the end of 2015 or early 2016. Once the pilot is complete, the working groups will evaluate the process and recommend improvements to move forward to implementation.

Treatment of Uncertainty in Decision Making Working Group

The NRC working group lead gave an update on the working group progress and their review of the industry white paper. As with the PRA Technical Adequacy working group, many of the staff's comments were incorporated in the final white paper. The working group decided that a memo to the NRC RISC members would be drafted to indicate the staff's view of the white paper including any remaining areas of contention. The industry and NRC working groups agree on the recommendations that are provided in the white paper and there was no indication of disagreement by any RISC members. The RISC members did comment on the lack of an action plan with a timeline and clear deliverables. The NRC working group lead acknowledged the comment and stated that RISC feedback on the recommendations was desired prior to developing the action plan, but that is the next step for the group. The RISC members also requested a document with an integrated structure of how all the activities within the recommendations will fit together since many are inter-related.

Topics for 2015

The NRC RISC chair kicked off the discussion by summarizing what was discussed at the December, 2014 meeting. The RISCs continued their discussion on the ability to credit "flex" equipment in licensee PRAs. The industry RISC co-chair noted that there are different categories of equipment that fall under the umbrella of "flex" and it may be necessary to bin the equipment to ensure an accurate accounting. The NRC RISC chair agreed with the sentiment and remarked that there seems to be an agreement in our assessments of the overall issues. The discussion moved to the aggregation of risk across multiple hazards. The NRC RISC members noted we should concentrate on the decision making aspect of this problem and not focus on perfecting the numbers. The industry members noted that the Electric Power Research Institute (EPRI) has just released a document that provides guidance

on decision making with respect to multiple hazards that may be useful for the committees to consider.

Additional Topics

The RISCs received an update on the PFHA Research Plan and the Risk Prioritization Initiative. These two topics were requested to be presented at this meeting during the December 2014 public meeting for the understanding of the RISC members.

Closing remarks

The industry RISC co-chair again reflected on the progress that has been made and the importance of the continuation of the working groups efforts to provide action plans with timelines. The NRC RISC chair echoed that sentiment and closed the meeting by thanking everyone for their participation.

Enclosure:

List of Attendees

on decision making with respect to multiple hazards that may be useful for the committees to consider.

Additional Topics

The RISCs received an update on the PFHA Research Plan and the Risk Prioritization Initiative. These two topics were requested to be presented at this meeting during the December 2014 public meeting for the understanding of the RISC members.

Closing remarks

The industry RISC co-chair again reflected on the progress that has been made and the importance of the continuation of the working groups efforts to provide action plans with timelines. The NRC RISC chair echoed that sentiment and closed the meeting by thanking everyone for their participation.

Enclosure:

List of Attendees

DISTRIBUTION:

PUBLIC RidsNrrDra RidsNrrOd
RidsNrrDraAphb Nrr_Dra_Aphb

ADAMS Accession No.: ML15104A495

OFFICE	NRR/DRA/APHB	NRR/DRA/APHB
NAME	MMontecalvo	SWeerakkody
DATE	4/ 14 /2015	4/ 14 /2015

OFFICIAL RECORD COPY

LIST OF MEETING ATTENDEES

Name	Organization
Jennifer Uhle	NRC
Gary Holahan	NRC
Steve West	NRC
Scott Moore	NRC
Dan Dorman*	NRC
Maria Korsnick	CENG/Exelon
Tony Pietrangelo	NEI
Paul Harden	First Energy
Joe Giitter	NRC
Victoria Anderson	NEI
Michael Montecalvo	NRC
Stuart Lewis	EPRI
N.P. Kadambi	ASME/ANS
Doug True	ERIN Engineering
Jeff Mitman	NRC
Hossein Hamzehee	NRC
Joe Pollock	NEI
Michael Tschiltz	NEI
Paul Amico	Jensen/Hughes
John Butler	NEI
Roy Linthicum	Exelon/PWROG
Fernando Ferrante	NRC
Rich Correia	NRC
Sunil Weerakkody	NRC
Elliott Flick	Exelon
Mohammed Modares	University of Maryland
Alex Klein	NRC
Jana Bergman	Scientech
John Monninger	NRC
John Nakoski*	NRC
Chris Liu*	NRC
Jim Curry*	Nuscale Power
Paul Bemis*	PG+E
Sarah Bristol*	
Gareth Parry*	
Donnie Harrison*	NRC
Sam Lee*	NRC
Mary Drouin*	NRC
Jim Chapman*	Scientech
Doug Copeland*	NRC
Brandon Hartle*	NRC
Ronaldo Szilard*	INL

* Participated by teleconference

ENCLOSURE