

U.S. Nuclear Regulatory Commission Public Meeting Summary

July 31, 2019

Title: Aluminum HEAF PRA Modeling Options/Approaches

Meeting Identifier: 20190613

Date of Meeting: Wednesday, July 24, 2019

Location: NRC Headquarters, TWFN 2D30

Type of Meeting: Category 3

Purpose of the Meeting(s):

This meeting is to discuss potential models, inputs, and data needs for HEAF PRA applications, as well as fragility testing and implementation

General Details:

NRC staff in the Office of Nuclear Regulatory Research held a public meeting to discuss hazard modeling approaches for HEAF events, present information on Sandia National Laboratories' Aria/Fuego models, and describe an approach for target fragility testing. This meeting was held in response to public comments at a previous public meeting requesting more discussion on the use of modeling in HEAF research. The meeting was scheduled from 1:30 P.M. - 5:30 P.M. EST and finished an hour early. Seven NRC staff members were present. The meeting was facilitated by Kenneth Hamburger, an NRC in-house facilitator. The meeting was also broadcast by webinar to maximize public participation.

Approximately 22 people participated in person, and an additional 28 people participated by webinar. Several participants, both in-person and on webinar, asked questions or provided comments. The meeting was transcribed by a court reporter, and the transcript is attached to this ADAMS package.

Summary of Presentations:

Gabriel Taylor (NRC) presented an overview of several different industry standard arc fault models, how they compare to measured values, and their data needs. These models are currently in use primarily for personnel protection. He also presented potential measurements for air holdoff voltage in upcoming tests.

Next, Dr. Chris LaFleur and Dr. Paul Clem presented an overview of the Aria and Fuego models, their data needs, validation and verification work, and approach for adapting the models for HEAF applications.

At the end of the day, a public comment period was held during which anyone in the room and on the webinar was invited to provide questions or comments.

Action Items/Next Steps:

The NRC is on schedule with the phase II HEAF testing in accordance with the assessment plan of PRE-GI-018. NRC staff will continue to engage with stakeholders and members of the public as new information becomes available regarding the GI process and the HEAF research program.

Attachments:

- Meeting presentation binder
- Public comment period presentation
- Meeting transcript
- Meeting attendance sign-in