

**June 30, 2015**

**U.S. Nuclear Regulatory Commission Public Meeting Summary**

**Title:** The Performance-Based Emergency Core Cooling Systems Cladding Acceptance Criteria (Title 10 of The Code of Federal Regulations Section 50.46c) Proposed Rule

**Meeting Identifier:** 20150551

**Date of Meeting:** June 4, 2015

**Location:** Teleconference and Webinar only

**Type of Meeting:** Category 3

**Purpose of the Meeting(s):** The purpose of the meeting was to discuss implementation comments received related to the Title 10 of the *Code of Federal Regulations* (10 CFR) Section 50.46c proposed rule (Agencywide Documents Access and Management System (ADAMS) Accession No. ML12283A174.) The U.S. Nuclear Regulatory Commission (NRC) did not accept formal written comments during the meeting. This was the third in a series of 3 public teleconferences/webinars on implementation of the 10 CFR 50.46c proposed rule.

**General Details:** The meeting was attended by 49 individuals including industry representatives, members of the public, and NRC staff, all of whom participated through audio teleconferencing and webinar.

**Summary of Presentations:** The meeting slides and handouts are available in the ADAMS package under Accession No. ML15169A002. In addition to the material presented in the slides, the major areas of discussion are summarized below.

**Public Participation Themes:**

Introductory Remarks

The meeting started with welcome, introductions, and meeting ground rules. NRC staff made a brief presentation; these slides are in ADAMS under Accession No. ML15154A799. The staff noted that this meeting was follow up to a category 3 public meeting the NRC held on March 17-18, 2015, on implementation of the 10 CFR 50.46c proposed rule. During that meeting, stakeholders suggested a series of public teleconferences to discuss details of an alternative implementation plan for NRC consideration. This meeting was the third and final of those follow-on teleconferences. The first was held on April 23, 2015, and the second was held on May 7, 2015. Information from the March 2015 meeting is in ADAMS under Accession No. ML15071A272. Information from the April 2015 meeting is in ADAMS under Accession No.

ML15138A411, and information from the May 7 meeting is in ADAMS under Accession No. ML15154B641.

### Industry Presentation

A representative from Tennessee Valley Authority, Thomas Eichenberg, provided a presentation on the industry's suggested implementation plan for the 10 CFR 50.46c proposed rule. This presentation, which included a Gantt chart, is in ADAMS under Accession No. ML15153A157. This presentation was an extension of the discussions from the April 23<sup>rd</sup> and May 7<sup>th</sup> public meetings. Key points of discussion include the following:

- Mr. Eichbenberg pointed out the changes/updates to the Gantt chart since the April 23<sup>rd</sup> public meeting.
  - Some changes in schedule were in anticipation of a June 9<sup>th</sup> public meeting on long-term cooling (ADAMS Accession No. ML15135A161).
- Mr. Eichenberg discussed potential rule language regarding implementation and compliance to be incorporated in the draft final rule. There was also discussion of a potential provision in the rule regarding “grandfathering” fuel.
- There was discussion that the ultimate responsibility for compliance would lie on the licensees rather than vendors.
- Both the NRC staff and Mr. Eichenberg emphasized that the dates provided in Mr. Eichenberg’s presentation were for illustrative purposes only and were meant to estimate how long various steps in the implementation process would take. For instance, the April 1, 2016, date indicating “FRN Rule Publication,” on slide 9 was only meant to provide a “time zero” after which various submittals would occur. The NRC staff emphasized that this date is earlier than the actual FRN publication date, which is not known at this time given the uncertainty of when the Commission Staff Requirements Memorandum and Office of Management and Budget approval would be received.
- The following additional issues were raised during the meeting:
  - Is the time of submission of methodologies/models needed for compliance with main part of Emergency Core Cooling Systems (ECCS) rule to be controlled by rule language, and if so, then what other steps in the process would be controlled?
  - Should the NRC control the uncertainties with submission of methodologies/models, NRC approval, and submission of License Ammendment Requests and NRC approval, and final compliance by including a “safe haven” or “limiting zone for operation?”
  - What is the concept for controlling “transition period” issues with respect to the applicable licensing basis during transition – including how separate but dependent licensing basis changes by the licensee will be affected (e.g., application for license amendment dependent upon ECCS which is submitted before NRC approval of new ECCS regime)? How should the concept be implemented – detailed rule language or rule language and guidance, or rule language and license condition?
  - What is NRC willing to accept in terms of durability of licensee and fuel vendor submission schedules and compliance schedules – are Gantt chart and interactions to date sufficient?

- NRC staff noted that a public meeting to discuss preliminary draft rule language regarding long-term cooling would be conducted on June 9, 2015.

**Action Items/Next Steps:**

- Prepare for the June 9<sup>th</sup> public meeting to discuss long-term cooling

**Attachments:**

- Meeting agenda – ML15056A29
- ADAMS Accession No. to NRC staff presentation – ML15154A799
- ADAMS Accession No. to industry presentation – ML15153A157

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**Accession Nos.: Pkg: ML15169A004; Notice ML15098A145; Summary ML15169A024, NRC Presentations ML15154A799; Industry Presentations ML15153A157**

**NRC-001**

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<b>NAME</b>	ABone*	GLappert	TInverso	ABone
<b>DATE</b>	6/13/2015	6/18/2015	6/30/2015	6/30/2015

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**List of 50.46c Public Meeting Attendees  
June 4, 2015**

<b>Name</b>		<b>Organization</b>
Charles	Albury	South Texas Project
Jana	Bergman	Scientech
Paul	Clifford	NRC
Steven	Dolley	Platts
David	Fink	Westinghouse Electric Company
Kurt	Flaig	Dominion
Robert	Florian	Southern Nuclear
Kenneth	Frederick	First Energy
Cesare	Frepoli	FpoliSolutions
Donna	Gilmore	San Ono Fre Safety
Mark	Handrick	Duke Energy
Gregory	Hill	American Electric Power
Korey	Hosack	Westinghouse Electric Company
Shane	Jurek	Xcel Energy
Sam	Lafountain	SC Electric and Gas
Steven	Laur	NRC
Marvin	Lewis	Public
Shanlei	Lu	NRC
David	Medek	Arizona Public Service
Kurshad	Mustuoglu	GEH
Mitch	Nissley	Westinghouse Electric
Thomas	Remick	AZ Public Service
Michael	Schockling	Westinghouse
Harold	Scott	NRC
James	Smith	Westinghouse Electric
Thomas	Stoddard	GE Hitachi
Alfred	Strasser	Aquarius Services
Ronaldo	Szillard	Idaho National Laboratory
Robert	Theuret	Westinghouse
Tom	Tramm	Certrec
Jennifer	Whitman	NRC
Ken	Yueh	Electric Power Research Institute
Joseph	Yurko	Fpoli Solutions
Alysia	Bone	NRC
Tom	Eichenberg	Tennessee Valley Authority
Gordon	Cleifton	NEI

Steve	Smith	NRC
Tara	Inverso	NRC
Fred	Schofer	NRC
Lindsay	Robinson	NRC
Glenna	Lappert	NRC
Michelle	Bales	NRC
Ralph	Landry	NRC
Alan	Meginnis	AREVA
Ronda	Pederson	AREVA
Keven	Quick	AREVA
Joshua	Parker	AREVA
Jerald	Holm	AREVA
Jonathan	Rowley	NRC