



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

December 20, 2017

MEMORANDUM TO: Anthony Hsia, Deputy Director
Division of Spent Fuel Management
Office of Nuclear Material Safety
and Safeguards

FROM: John Wise, Senior Materials Engineer **/RA/**
Renewals and Materials Branch
Division of Spent Fuel Management
Office of Nuclear Material Safety
and Safeguards

SUBJECT: SUMMARY OF DECEMBER 7, 2017, PUBLIC MEETING TO DISCUSS
NUREG-2214, MANAGING AGING PROCESSES IN STORAGE
REPORT, DRAFT REPORT FOR COMMENT

Background

The U.S. Nuclear Regulatory Commission (NRC) staff held a Category 3 public meeting on December 7, 2017, to discuss NUREG-2214, "Managing Aging Processes in Storage (MAPS) Report – Draft Report for Comment." The purpose of the meeting was to provide stakeholders an opportunity to ask questions of, and seek clarification from, the NRC staff to facilitate the review of the document. The staff noted, however, that stakeholder comments on the document should be submitted in writing using the instructions provided in the *Federal Register* notice for the draft report.

The meeting was noticed on November 15, 2017 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML17320A231). The meeting attendance list is provided in Enclosure 1.

Discussion

The meeting discussion followed the meeting agenda, which is provided in Enclosure 2. Enclosure 3 contains the presentation given by the NRC.

The staff provided an overview of the purpose and content of NUREG-2214. The staff noted that NUREG-2214 is a guidance document that is intended to provide the staff technical position regarding the aging mechanisms that may challenge the function of spent fuel dry storage system components in the renewed storage period (20 to 60 years of storage) and acceptable aging management activities to address those mechanisms. The staff reiterated that NUREG-2214 is not a new set of requirements, but rather provides one acceptable approach to demonstrate compliance with the storage renewal rule, Title 10 of the *Code of Federal*

Regulations, 72.42, “Duration of license; renewal,” and 72.240, “Conditions for spent fuel storage cask renewal.”

Following the presentation by the NRC, a nuclear industry representative and members of the public provided comments and asked questions.

A representative of the Nuclear Energy Institute (NEI) stated that the industry intends to submit written comments on the draft report and requested that the NRC consider having a second public meeting to discuss the comments received. The staff responded that they would consider the request. The NEI representative also requested that the NRC endorse NEI 14-03, Revision 2, “Format, Content and Implementation Guidance for Dry Cask Storage Operations-Based Aging Management.” The staff stated that it was continuing to review NEI 14-03, and the NRC has not yet decided if, and how, the document will be endorsed. Finally, the NEI representative noted that NUREG-2214 references several NRC Interim Staff Guidance (ISG) documents, and these ISGs could be retired during the NRC’s current efforts to update the storage standard review plan (SRP). The staff responded that it will be tracking the updates to the SRP closely to ensure that the final version of NUREG-2214 cites current, active references and is in agreement with the SRP.

Several members of the public expressed concern regarding the effectiveness of the aging management activities proposed in NUREG-2214. These concerns included how seismic activity would be accounted for in evaluations of canister cracking, what other sources of cracking (beyond chloride-induced) could occur in canisters, the adequacy of recommended inspection frequencies, the capability of inspections, and the integrity of high-burnup fuel cladding. The staff discussed those concerns, but emphasized the need for stakeholders to submit all comments in writing so the staff can fully evaluate the comments and make any necessary revisions to NUREG-2214 following the close of the comment period.

Action Items/Next Steps

After the close of the comment period on December 26, 2017, the staff will evaluate the submitted comments. At that time, the staff will consider whether to hold a second public meeting to discuss the comments prior to finalizing the report.

Enclosures:

1. Meeting Attendees
2. Agenda
3. NRC Presentation

SUBJECT: SUMMARY OF DECEMBER 7, 2017, PUBLIC MEETING TO DISCUSS NUREG-2214, MANAGING AGING PROCESSES IN STORAGE REPORT, DRAFT REPORT FOR COMMENT, DOCUMENT DATE: December 20, 2017

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ADAMS Package No.: ML17356A027 ADAMS Accession No.: ML17356A028
Enclosure 3: ML17338A023

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NAME	TAhn (TA) via email	JWise (JW)	WWheatley (WW) via email
DATE	12/20/17	12/20/17	12/20/17

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PUBLIC MEETING TO DISCUSS NUREG-2214, MANAGING AGING PROCESSES IN STORAGE (MAPS) REPORT, DRAFT REPORT FOR COMMENT

DECEMBER 7, 2017

MEETING ATTENDEES

In person	
Name	Affiliation
Karan Mauskar	TN Americas
Girish Patel	AREVA TN
Rod McCullum	Nuclear Energy Institute
Yi-Ming Pan	CNWRA, Southwest Research Institute
Kristina Banovac	NRC
Tae Ahn	NRC
Christopher Markley	NRC
Christian Jacobs	NRC
Wendy Reed	NRC
Marlone Davis	NRC
Meraj Rahimi	NRC
Darrell Dunn	NRC
Ricardo Torres	NRC
John Wise	NRC
Sarah Lopas	NRC
Anthony Hsia	NRC
Via teleconference	
Paul Plante	3 Yankees
John Scaglione	Oak Ridge National Laboratory
Rick Morgal	Public
Donna Gilmore	SanOnofreSafety.org
Carlyn Green	UxC
Xihua He	CNWRA, Southwest Research Institute
David Pickett	CNWRA, Southwest Research Institute
Mike Callahan	Decommissioning Plant Coalition
Jana Bergman	Sciencetech
Veena Gubbi	NJ Dept. of Environmental Protection
Brady Hansen	Pacific Northwest National Laboratory
Brad Larson	Engineering Planning and Management, LLC
Marvin Lewis	Public
Ace Hoffman	Public

MEETING AGENDA

Meeting on Proposed NUREG-2214
Managing Aging Processes in Storage (MAPS) Report

December 7, 2017
1:30 p.m. – 4:30 p.m. (Eastern Standard Time)

One White Flint North, Commissioners' Hearing Room

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| 1:30 p.m. | Welcome and Meeting Objectives (NRC) |
| 1:45 p.m. | Presentation on Proposed Draft NUREG-2214 (NRC) |
| 2:15 p.m. | Public Questions on Proposed Draft NUREG-2214 (All) |
| 3:00 p.m. | Break |
| 3:15 p.m. | Continuation of Public Questions on Proposed Draft NUREG-2214 (All) |
| 4:15 p.m. | Wrap-Up (NRC) |
| 4:30 p.m. | Adjourn |

NRC PRESENTATION
(ADAMS ML17338A023)