

March 23, 2006

MEMORANDUM TO: William Ruland, Deputy Director
Spent Fuel Project Office
Office of Nuclear Material Safety
and Safeguards

FROM: Meraj Rahimi, Senior Project Manager /RA/
Licensing Section
Spent Fuel Project Office
Office of Nuclear Material Safety
and Safeguards

SUBJECT: SUMMARY OF MARCH 14, 2005, MEETING WITH NUCLEAR
ENERGY INSTITUTE (TAC NO. LA0233)

On March 14, 2006, representatives of the Nuclear Regulatory Commission (NRC) and Nuclear Energy Institute (NEI) held a meeting to discuss the licensing and technical issues pertaining to spent fuel storage and transportation cask licensing under 10 CFR 71 and 72. The meeting agenda and a list of attendees are included in Attachments 1 and 2.

The staff presented the status of four criticality and two material issues (Attachment 3). With regard to the first issue, the staff acknowledged that a decision was made to proceed with the technical evaluation of revising 10 CFR Part 50.68. The industry proposed to the staff, in its technical evaluation for the rulemaking, to consider including an option for complying with 10 CFR Part 50.68 or 10 CFR Part 72.124. With regard to burnup credit, the staff presented the status of the burnup credit activities. There were some discussions on the differences between the Office of Nuclear Reactor Regulations (NRR) and the Office of Nuclear Material Safety and Safeguards (NMSS) regarding their burnup credit approaches. With respect to burnup verification measurement, the staff emphasized the need for measurement as indicated in the regulatory guides. There were some discussions on the quality of reactor records and some of the misloading events in spent fuel pools. NEI proposed and the staff agreed to have a separate meeting sometime in the future to focus on burnup credit, burnup verification measurement, and moderator exclusion issues.

With respect to the criticality monitoring requirement under 10 CFR 72.124(c), the staff presented its position that the radiation monitors may be used for criticality control if it can be demonstrated to be capable of detecting criticality events. It was agreed that the criticality monitoring issue can be considered closed.

Regarding the material issues, the staff discussed Interim Staff Guidance (ISG)-1 (i.e., damaged fuel) and presented the bases for revising the ISG-1. With respect to ISG-11 (i.e., cladding degradation considerations), the staff indicated that due to the closure of hot cell facility at Argonne National Laboratory, data on spent fuel cladding will not be available.

The staff encouraged the industry to develop data on cladding properties for high burnup spent fuel assemblies.

No regulatory decisions were made at the meeting.

Attachments 1: Meeting Agenda
2: List of Attendees
3: NRC presentation

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W. Ruland

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MEETING AGENDA

Meeting with Nuclear Energy Institute

March 14, 2006, Room O-1F16

10:00 a.m.	Introductions
10:05 a.m.	Opening Remarks
10:10 a.m.	Dry Storage Task Force Issues list
10:15 a.m.	Criticality Control (RIS 2005-05)
10:30 a.m.	Criticality Accident Requirements [10 CFR 72.124(c)]
10:45 a.m.	Burnup Credit
11:00 a.m.	Burnup Measurement
11:15 a.m.	Public Comments
11:20 a.m.	Damaged Fuel (ISG -1)
11:35 a.m.	High Burnup Fuel (ISG-11)
11:50 a.m.	Public Comments
11:55 a.m.	Closing Remarks
12:00 p.m.	Adjourn

List of Attendees

<u>Name</u>	<u>Affiliation</u>
Meraj Rahimi	NRC/NMSS/SFPO
William Brach	NRC/NMSS/SFPO
William Ruland	NRC/NMSS/SFPO
Wayne Hodges	NRC/NMSS/SFPO
Bob Einziger	NRC/NMSS/SFPO
Gordon Bjorkman	NRC/NMSS/SFPO
Larry Campbell	NRC/NMSS/SFPO
Randy Hall	NRC/NMSS/SFPO
Ray Wharton	NRC/NMSS/SFPO
Carl Withee	NRC/NMSS/SFPO
Andrew Barto	NRC/NMSS/SFPO
Ben Wilson	NRC/NMSS/SFPO
Elaine Keegan	NRC/NMSS/SFPO
Jerry Chuang	NRC/NMSS/SFPO
Jorge Solis	NRC/NMSS/SFPO
Elise Heumann	NRC/NMSS/SFPO
Steven Baggett	NRC/NMSS/SFPO
Dennis Damon	NRC/NMSS/SFPO
Nancy Osgood	NRC/NMSS/SFPO
Bob Tripathi	NRC/NMSS/SFPO
Charles Interante	NRC/NMSS/SFPO
Jose Quadrado	NRC/NMSS/SFPO
Mike Call	NRC/NMSS/SFPO
John Nakoski	NRC/NRR/DSS/SPWB
Latif Hamdan	NRC/ACNW
Robert Taylor	NRC/OEDO
Tae Hahn	NRC/NMSS/HLWRS
Harold Scott	NRC/RES
Ralph Meyer	NRC/RES
Brian Gutherman	ACI Nuclear Energy Sol.
John Kessler	EPRI
Steve Nesbit	Duke Energy
Steven Kraft	NEI
Terry Sides	Southern Nuclear
Tom Danner	NAC International
Thecla Fabia	Fuel Cycle Week
Maureen Conley	Platts/McGraw Hill
Bill Lake	ASE
Paul Guill	Duke Energy
Reene Gambrell	Duke Energy
Gary Walden	Duke Energy
Oleg Povetko	CNWRA
Jim Doxsey	PPL - Susquehanna
Eileen Supko	Energy Res. International
Jayant Bondre	Transnuclear Inc.

Carlyn Greene
Randy Robins
Suzanne LeBlang
Wayne Harris
Christopher Walker
Ben Franklin
Matt Eyre
Stefan Anton
Zita Martin

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