



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001
April 14, 2017

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

FROM: Huda Akhavannik, Project Manager **/RA/**
Spent Fuel Licensing Branch
Division of Spent Fuel Management
Office of Nuclear Material Safety
and Safeguards

SUBJECT: SUMMARY OF MARCH 17, 2017 MEETING WITH GLOBAL
NUCLEAR FUEL - AMERICAS, LLC, REGARDING REQUESTS
FOR ADDITIONAL INFORMATION ON THE MODEL NO. RAJ-II
TRANSPORTATION PACKAGE

Background

On March 17, 2017, a meeting was held in Rockville, Maryland, at the request of Nuclear Regulatory Commission (NRC) staff with Global Nuclear Fuel - Americas, LLC (GNF-A) to discuss requests for additional information (RAIs) made on the Model No. RAJ-II transportation package application in a letter dated March 7, 2017 (ML17067A142). GNF-A participants are also affiliated with General Electric Hitachi (GEH) which is noted in Enclosure 1.

The meeting was noticed on March 7, 2017 (ML17066A269) and contained open and closed portions. The list of meeting attendees, including those participating via telephone, is provided as Enclosure 1. The meeting handout is provided as Enclosure 2.

Discussion

The primary purpose of the meeting was to discuss the RAIs sent by staff in a letter dated March 7, 2017. Staff and GNF-A discussed the RAIs and the preliminary responses. The first RAI asked about the classification of components on the licensing drawings. Staff had issued the RAI asking about the classification of the inner and outer containers and the alumina silicate thermal insulation. Staff additionally mentioned that they inadvertently did not include part "c" of the RAI to discuss the classification of the impact limiters. GNF-A requested that staff reissue the letter to include the additional RAI. GNF-A described their reasoning for their classifications and the deviations from the guidance in NUREG/CR-6407, "Classification of Transportation Packaging and Dry Spent Fuel Storage System Components According to Importance to Safety." Staff and the applicant discussed their response and staff requested that when the official RAI responses are sent that they include greater detail.

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301-415-5253

Next, staff and GNF-A discussed the responses to the thermal RAIs. The first thermal RAI asked the GNF-A to provide quantitative discussion on how the cumulative effects of the hypothetical accident drop tests were considered for the hypothetical accident condition thermal test. GNF-A provided detailed quantitative analysis which provided a percentage value of the strain seen on the fuel rods. The response also included the different stresses that the fuel rods would see through the thermal stresses and concluded that the effects of the strain would be negligible. The staff then discussed the next RAI on the thermal performance criteria. GNF-A provided information on the hoop stresses and rod internal pressures and discussed the role of those values in developing the thermal performance criteria.

Staff and GNF-A then discussed the containment RAI. GNF-A had proposed changes to the certificate of compliance to remove the fuel cladding thickness requirement. Staff asked RAIs regarding the implications of removing the fuel cladding thickness on containment, structural, and thermal performance. GNF-A indicated that they would no longer request that change to the certificate of compliance.

Finally, staff and GNF-A discussed the last RAI on the operating procedures. The RAI is with respect to the description of the lid bolts' torque values. The operating procedures describe them as, "recommended," which staff questioned. GNF-A described that these procedures previously did not include any torque requirements and instead specified that the bolts should be "wrench tight". GNF-A had intended to include recommended torque values in order to be less vague.

GNF-A stated that they would update their responses with greater detail based on the feedback received during the meeting. Staff indicated that they would reissue the RAI letter to include the missing RAI.

Docket No. 71-9309

TAC No. L25154

Enclosures:

1. Meeting Attendees
2. Meeting Handout (Publicly available)
3. Meeting Handout (Non-publicly available)

A. Hsia

- 2 -

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ADAMS Package No.: ML17110A288

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NAME:	HAkhavannik		SFiguroa		JMcKirgan		
DATE:	04/7/17		04/10/17		4/14/17		

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Meeting Attendees
GNF-A and NRC Meeting
March 17, 2017, 10:00 a.m. – 12:00 p.m.

NAME	AFFILIATION	PHONE NUMBER
Jim Banfield	GNF-A/GEH	
Brad Boyette	GNF-A/GEH	
Huda Akhavannik	NRC/NMSS/SFM	301-415-5253
Cindy Fung Poon	GNF-A/GEH	
Paul Cantonwine	GNF-A/GEH	
Justin Lamy	GNF-A/GEH	
Dan Lutz	GNF-A/GEH	
Kate Martin	GNF-A/GEH	
Steven Brown	GNF-A/GEH	
Tim Enfinger	GNF-A/GEH	
P.T. Tran	GNF-A/GEH	
Kate Martin	GNF-A/GEH	
Caylee Kenny	NRC/NMSS/SFM	301-415-7150
Joseph Borowksy	NRC/NMSS/SFM	301-415-7507