

December 21, 2004

MEMORANDUM TO: Larry Camper, Deputy Director
Licensing and Inspection Directorate
Spent Fuel Project Office, NMSS

FROM: Julia M. Barto, Project Manager
Licensing Section /RA/
Spent Fuel Project Office, NMSS

SUBJECT: SUMMARY OF DECEMBER 8, 2004, MEETING WITH
NUCLEAR FUEL SERVICES, INC., REGARDING PROPOSED
APPLICATION FOR TRANSPORTATION PACKAGE

Background

A meeting was held on December 8, 2004, in Rockville, Maryland, at the request of Nuclear Fuel Service, Inc. (NFS) to discuss its application for a new transportation package design, the Model No. Champion. The meeting was noticed on November 23, 2004. No proprietary information was discussed at the meeting. The list of meeting attendees is attached to this memorandum.

Discussion

NFS plans to request approval for a package design, Model No. Champion, Docket No. 71-9312, intended to be used for the shipment of high enriched uranium (HEU). The applicant described design changes to the package which include removal of the outer flange cover and seal, the use of only stainless steel components (rather than carbon steel), and the inclusions of a 5-inch schedule 40 stainless steel pipe for the containment vessel. Design changes were made in order to enhance the robustness of the package, without compromising the critical design feature of the package, which is the weight restriction.

The applicant stated plans to perform finite element analyses (FEA) for the hypothetical accident conditions testing sequence (drop and thermal). They plan to use results from the computer models to determine worst case orientations for physical retesting. They stated that if the package containment vessel was not breached during physical testing, then they may not do physical thermal retesting. For their thermal analysis, they would rely upon their previous physical thermal test, and the thermal FEA models.

The applicant stated that they would use the ALGOR computer code for their FEA models, and described the orientations they planned to simulate. The staff reminded the applicant that QA information concerning the FEA software should be presented in future submittals.

The applicant indicated that it would take approximately 4 to 6 weeks to perform the FEA model testing. They stated that they may request another meeting with the staff prior to the physical testing of the package.

Docket No. 71-9213
TAC No. L23743

Attachment: Meeting Attendees

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OFC	SFPO	E	SFPO		SFPO	
NAME	JBarto		MDeBose		JMonninger	
DATE	12/ 20 /04		12 /20 /04		12/ 21 /04	

**December 8, 2004, Meeting
between Nuclear Fuel Services, Inc., and
the Nuclear Regulatory Commission**

MEETING ATTENDANCE LIST

Julia M. Barto	NRC/SFPO
Larry Campbell	NRC/SFPO
John Monninger	NRC/SFPO
Antonio Dias	NRC/SFPO
Henry Lee	NRC/SFPO
Nancy Osgood	NRC/SFPO
Carl Withee	NRC/SFPO
Joseph Pugh	Nuclear Fuel Services, Inc.
Rick Droke	Nuclear Fuel Services, Inc.
John Nagy	Nuclear Fuel Services, Inc.
Mike Arnold	Century Industries
Rose Montgomery	Century Industries

Attachment