



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

March 12, 2018

MEMORANDUM TO: Anthony H. Hsia, Deputy Director
Division of Spent Fuel Management, NMSS

FROM: Nishka Devaser, Project Manager /RA/
Spent Fuel Licensing Branch
Division of Spent Fuel Management, NMSS

SUBJECT: SUMMARY OF FEBRUARY 8, 2018, PUBLIC MEETING WITH
DAHER-TLI

Background

Daher-TLI requested this meeting to present the details of some upcoming proposed content additions to the Versa-Pac Model package. The Versa-Pac Model package was initially certified in 2010, to transport solid radioactive materials with a weight not exceeding 350 grams of U-235 enriched up to 100%. The application for this new package will be submitted in late February 2018.

The meeting was noticed on January 24, 2018 (ML18024B035). The meeting attendance list and presentation are provided as Enclosure Nos. 1 and 2, respectively.

Discussion

The Model No. Versa-Pac package, a drum-style Type AF package, is used to transport a variety of uranium oxides, uranyl nitrate crystals, uranyl fluorides, uranyl carbonates, uranium metal or uranium alloys, as well as TRISO fuel.

The applicant explained that the pending submittal will request the authorization to (1) transport uranium hexafluoride (UF₆) 1S and 2S cylinders, (2) include an additional reduced enrichment loading level, and (3) include an air transport configuration. The proposed amendment request will include new criticality and thermal analyses resulting from the content additions, the drop test results of testing the new payload weight, and details of how these changes will affect the safety analysis report.

Daher-TLI presented the details of the content additions, which included the criticality and thermal analysis details. Staff noted that since the container is not leak tight, consideration should be given to the chemical reaction of UF₆ with water (i.e., the production of HF). Staff stated this would present an issue in the materials review because of the corrosive effects of HF. The applicant stated that this effect would be accounted for in the submittal.

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Daher-TLI presented the details of the drop test results, which included the structural analysis of the content additions and the increase in payload. In the drop testing, the test subject was composed of sand and steel blocks until the total package was 750 lbs. Staff noted the possibility that there may be differences in weight distribution between the test subject contents and that of the actual package. Staff commented that when conducting such a test, effort should be taken to mimic the weight distribution being considered for shipment and the staff would likely need to see that this was considered in the analysis.

No members of the public were present at the meeting. Staff made no regulatory commitment during the meeting.

Docket No. 71-9342
EPID L-2018-LRM-0005

Enclosures

1. Meeting Attendees
2. Presentation

SUMMARY OF PUBLIC FEBRUARY 8, 2018, MEETING WITH DAHER TLI,
DOCUMENT DATE: MARCH 12, 2018

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ADAMS PKG: ML18071A032

OFC	DSFM		DSFM		DSFM	
NAME	NDevaser		SFiguroa		JMcKirgan	
DATE	02/28/2018		03/01/2018		3/12/2018	

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**Meeting between Daher-TLI and the
Nuclear Regulatory Commission
February 8, 2018
Meeting Attendees**

NRC/NMSS/DSFM

Marlone Davis
Nishka Devaser
Joann Ireland
Christina Leggett
Zhian Li
Meraj Rahimi
Antonio Rigato

Daher-TLI

Andy Langston
Charlie Murphy
Phil Sewell
Tanya Sloma
Arefaine Wegahta

MEMBER OF THE PUBLIC

None