

June 15, 2012

MEMORANDUM TO: Doug Weaver, Deputy Director  
Division of Spent Fuel Storage and Transportation, NMSS

FROM: Pierre Saverot, Project Manager */RA/*  
Licensing Branch  
Division of Spent Fuel Storage and Transportation, NMSS

SUBJECT: SUMMARY OF JUNE 6, 2012, MEETING WITH TRANSPORT  
LOGISTICS INTERNATIONAL

#### Background

Transport Logistics International (TLI) and Nuclear Cargo + Service (NCS) will be requesting in February 2013 NRC approval of the Model No. DN-30 package, to be used for UF<sub>6</sub> shipments. TLI requested this pre-application meeting to discuss the format of the package application and brief staff on the delays of the project.

#### Discussion

TLI is a U.S. registered company, majority owned by NCS (Germany), while NCS is itself completely owned by Daher (France). TLI will act as an "agent" for NCS who will be the applicant and Certificate of Compliance (CoC) holder, while Daher will manufacture the Model No. DN-30 packages. The application, which will be submitted to the French Regulatory Authority (ASN) and to NRC at approximately the same time in February 2013, will be using the European Package Design Safety Report (PDSR) format. The PDSR will address and identify, through cross-reference tables, NRC requirements as found in Regulatory Guide No. 7.9. The PDSR will also include cross reference tables for European and U.S. standards, e.g., ISO 7195 is equivalent to ANSI N14.1. All calculations will be done in SI units.

Staff said that it is open to reviewing an application using the PDSR format with a cross-reference to the Standard Review Plan in NUREG-1609. However, staff cautioned TLI on the fact that a PDSR includes only fabrication drawings by reference: the CoC will thus have to be revised if, for any reason, there are any modification or change in the fabrication drawings.

The design of the Model No. DN-30 package started in 2008 and prototype testing began in 2011: 6 full drop test sequences have already been performed, and test results are being reviewed by ASN. Closure flange, valve protection, proper simulation of UF<sub>6</sub>, and helium leaktightness conditions were some of the issues that had to be resolved. An additional drop test and a thermal test on prototype No. 6 are to be conducted in August 2012.

TLI said that the fire performance of the phenolic foam used in the package is exceptional: it has passed the French M1 fire certification with a zero or low flame spread. TLI acknowledged the corrosivity issue of the phenolic foam, but said that data exists to confirm the structural strength of the foam. Staff cautioned TLI on the need for a full justification of the acceptability of the foam, and made it clear that an application for a package using phenolic foam is not likely to be accepted for detailed technical review if all pertinent technical data, e.g., on the aging and degradation processes, is not available.

TLI will submit the DN-30 package application to the NRC and ASN in February 2013. TLI agreed with staff's suggestion for another pre-application meeting to present tests results and phenolic foam data. The staff did not make any regulatory commitments at the meeting.

Docket No. 71-9362  
TAC No. L24599

Enclosure 1: Meeting Attendees  
Enclosure 2: Presentation

TLI said that the fire performance of the phenolic foam used in the package is exceptional: it has passed the French M1 fire certification with a zero or low flame spread. TLI acknowledged the corrosivity issue of the phenolic foam, but said that data exists to confirm the structural strength of the foam. Staff cautioned TLI on the need for a full justification of the acceptability of the foam, and made it clear that an application for a package using phenolic foam is not likely to be accepted for detailed technical review if all pertinent technical data, e.g., on the aging and degradation processes, is not available.

TLI will submit the DN-30 package application to the NRC and ASN in February 2013. TLI agreed with staff's suggestion for another pre-application meeting to present tests results and phenolic foam data. The staff did not make any regulatory commitments at the meeting.

Docket No.71-9362  
TAC No. L24599

Enclosure 1: Meeting Attendees  
Enclosure 2: Presentation

Distribution: E Benner, M. Waters, M. Sampson, M. Rahimi, D. Pstrak

G:\SFFT\Saverot\TLI\TLI meeting June 6, 2012.doc **ADAMS Accession No.: ML12170A114**

**ADAMS Memo No.: ML12170A145**

<u>Distrib</u>	SFST	E	SFST	C	SFST	N		
<b>NAME</b>	PSaverot		MDeBose		MWaters			
<b>DATE</b>	06/11/2012		6/12/12		6/15/12			

C=Without attachment/enclosure E=With attachment/enclosure N=No copy

**OFFICIAL RECORD COPY**

**Meeting Between TLI and the  
Nuclear Regulatory Commission  
June 6, 2012  
Meeting Attendees**

**NRC/NMSS/SFST**

Rob Temps	301-492-3320	<a href="mailto:robert.temps@nrc.gov">robert.temps@nrc.gov</a>
Pierre Saverot	301-492-3408	<a href="mailto:pierre.saverot@nrc.gov">pierre.saverot@nrc.gov</a>
Chris Bajwa	301-492-3333	<a href="mailto:chris.bajwa@nrc.gov">chris.bajwa@nrc.gov</a>
Joe Borowsky	301-492-3563	<a href="mailto:joseph.borowsky@nrc.gov">joseph.borowsky@nrc.gov</a>
David Tarantino	301-492-3413	<a href="mailto:david.tarantino@nrc.gov">david.tarantino@nrc.gov</a>
Andrew Barto	301-492-3336	<a href="mailto:andrew.barto@nrc.gov">andrew.barto@nrc.gov</a>
Neil Day	301-492-3335	<a href="mailto:neil.day@nrc.gov">neil.day@nrc.gov</a>

**TLI**

Peter Vescovi	803-451-4360	<a href="mailto:pvescovi@tliusa.com">pvescovi@tliusa.com</a>
Andy Langston	803-451-4360	<a href="mailto:alangston@tliusa.com">alangston@tliusa.com</a>
Phillip Sewell	803-451-4360	<a href="mailto:psewell@tliusa.com">psewell@tliusa.com</a>