

October 17, 2011

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

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

SUBJECT: SUMMARY OF OCTOBER 12, 2011, PRE-APPLICATION MEETING
WITH J.L. SHEPHERD & ASSOCIATES TO DISCUSS A NEW
PACKAGE DESIGN, MODEL NO. BU650B

Background

A pre-application public meeting was held on October 12, 2011, in Rockville, Maryland, at the request of J.L. Shepherd & Associates (JLS&A) to discuss the design of the new transportation package, Model No. BU650B.

The meeting was noticed on September 16, 2011 (ML112590244). The first portion of the meeting was open to the public while the second portion of the meeting was closed to the public. JLS&A provided proprietary information in which to request the closed portion of the meeting on August 22, 2011 (ML11286A340) and staff made proprietary determinations for the information by letter dated September 2, 2011 (ML112490364). The meeting attendance list is provided as Enclosure 1. The meeting agenda is provided as Enclosure 2. The handout from the public portion of the meeting is provided as Enclosure 3. The proprietary handout from the closed portion of the meeting is provided as Enclosure 4.

Discussion

The discussion generally followed the agenda (Enclosure 2). The primary reason for the meeting was to discuss the contents and design basis of the Model No. BU650B package. JLS&A designed this package to transport sealed sources of Co-60 and Cs-137. The shielding performance of the package is accomplished through shielded liners when transporting sources or from the shielding of the Shepherd Mark-I irradiator itself. The package components were described including the overpack and impact limiters. JLS&A explained how the preliminary LS Dyna Model Calculations indicate excellent performance of the package during hypothetical accident conditions. The quality assurance program for package fabrication was also discussed.

The NRC staff noted the contents of the package should be clear in the application. The packaging for sealed sources must provide the containment function; however, if the sealed sources also qualify as special form, then the special form contents provide the containment function. In addition, the staff noted that if the shielding of the package was dependent on the shielding of the irradiator, detailed design drawings would need to be provided during submittal of the application.

When discussing the structural methodology, JLS&A indicated that they had planned to show that the packaging meets the requirements of 10 CFR Part 71 through analysis. The staff noted that when submitting an application using analytical methods, it is imperative to properly benchmark the model in order for staff to have confidence in the modeling techniques.

JLS&A expects to submit an application by March 2012.

Docket No. 71-9363

TAC No. L24564

Enclosures:

1. Meeting Attendees
2. Agenda
3. Presentation Slides (Public Meeting)
4. Presentation Slides (Closed Meeting)

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Distribution:

NRC Attendees

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ML112920289

OFC	SFST		SFST		SFST	
NAME	JRankin		MDeBose		MWaters	
DATE	10/17/2011		10/17/2011		10/17/2011	

"C" = Copy without attachment/enclosure "E" = Copy with attachment/enclosure "N" = No copy
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**October 12, 2011, Public Meeting
Between J.L. Shepherd & Associates and
the Nuclear Regulatory Commission**

MEETING ATTENDANCE LIST

Jennie Rankin	NRC/SFST	301-492-3268
Rob Temps	NRC/SFST	301-492-2993
John Vera	NRC/SFST	301-492-3372
David Tang	NRC/SFST	301-492-3328
Pierre Saverot	NRC/SFST	301-492-3408
Joe Borowsky	NRC/SFST	301-492-3563
Sara DePaula	NRC/SFST	301-492-3225
Michael Waters	NRC/SFST	301-492-3297
Luis Cruz	NRC/SFST	301-492-3270
Michele Sampson	NRC/SFST	301-492-3292
Chris Bajwa	NRC/SFST	301-492-3333
Kimberly Gambone	NRC/SFST	301-492-3367
Natreon Jordan	NRC/SFST	301-492-3288
Rick Boyle	DOT	202-366-2993
Mary Shepherd	JLS&A	818-898-2361
Que Pho	JLS&A	818-898-2361
Martin Brownstein	JLS&A	865-607-0691
William Brown	JLS&A	818-898-2361
John Zarling	LANL/GTRI	505-665-3668
Temeka Taplin	GTRI	202-406-1210

Enclosure 1

Agenda for the
Model No. BU650B Pre-Application
Public Meeting (Part I)
October 12, 2011, 1:00 – 1:40 p.m.

Purpose: Presentation and discussion of the Model No. BU650B transportation package.

1:00 p.m.	Introduction/Opening Remarks	NRC/JLS&A
1:10 p.m.	General Overview of the Packaging	JLS&A
1:20 p.m.	Design and Intended Use	JLS&A
1:30 p.m.	Public Questions/Comments	Public/NRC
1:35 p.m.	Closing Remarks	NRC/JLS&A
1:40 p.m.	Adjourn	

Enclosure 2

Agenda for the
MAGNATRAN Post-Application
Closed Meeting (Part II)
October 12, 2011, 1:40 – 3:00 p.m.

Purpose: Presentation and discussion of the Model No. BU650B transportation package.

1:40 p.m.	Introduction/Opening Remarks	NRC/JLS&A
1:45 p.m.	Proprietary Design Considerations	JLS&A
2:15 p.m.	Proprietary Preliminary Modeling Results	NRC/JLS&A
2:45 p.m.	Questions and Comments	NRC/JLS&A
2:55 p.m.	Closing Remarks	NRC/JLS&A
3:00 p.m.	Adjourn	