

June 4, 2012

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 MAY 30, 2012, 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 May 30, 2012, 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. This meeting was a supplement to the first pre-application public meeting held for the Model No. BU650B on October 12, 2011 (ML112920293).

The meeting was noticed on May 9, 2012 (ML12131A666). 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 May 15, 2012 (ML121380283) and staff made proprietary determinations for the information by letter dated May 16, 2012 (ML12138A124). 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 Co-60 and Cs-137 special form sealed sources using a shielded liner concept. JLS&A stated that the initial application will consider the largest shielded liner. Subsequent revision requests to the certificate of compliance, when issued, will address the other smaller liner configurations.

The package components were described. This included the package body, closure lid, shielded liner, and impact limiters. JLS&A explained that the LS-Dyna modeling calculations indicate satisfactory performance of the package during the hypothetical accident condition (HAC) tests of 10 CFR 71.73. The staff noted the importance of the model reflecting the materials used in the design. In addition, the staff noted that the boundary conditions of the model should reflect the worst configuration of the package and that sensitivity analysis can be used to aid in the presentation of the worst configuration.

JLS&A also explained that the shielding performance of the package relies on the shielded liner and the application will provide shielding calculations to show compliance with 10 CFR 71.47. The sources are contained in the shielded liner which is secured by a bolted plug. The NRC staff noted that since the shielding capabilities rely on the shielded liner, any deformation to the shielded liner from the HAC tests should be clearly addressed. In addition, the application should explain the capabilities of the plug bolts when subjected to the HAC tests.

JLS&A indicated they expect to submit an application by the end of June 2012. Staff discussed the average time for completion of new applications, the benefits of the acceptance review, as well as the prioritization of casework.

Docket No. 71-9363

TAC No. L24644

Enclosures:

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

JLS&A also explained that the shielding performance of the package relies on the shielded liner and the application will provide shielding calculations to show compliance with 10 CFR 71.47. The sources are contained in the shielded liner which is secured by a bolted plug. The NRC staff noted that since the shielding capabilities rely on the shielded liner, any deformation to the shielded liner from the HAC tests should be clearly addressed. In addition, the application should explain the capabilities of the plug bolts when subjected to the HAC tests.

JLS&A indicated they expect to submit an application by the end of June 2012. Staff discussed the average time for completion of new applications, the benefits of the acceptance review, as well as the prioritization of casework.

Docket No. 71-9363

TAC No. L24644

Enclosures:

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

Closes TAC No. L24644

Distribution:

NRC Attendees

G:\SFST\Rankin\JLShepherd\MEETING SUMMARY 05302012.doc

ADAMS P8 Package: ML12157A136 ADAMS P8 MEMO No.: ML12157A184

OFC	SFST		SFST		SFST	
NAME	JRankin		MDeBose		MWaters	
DATE	5/31/12		5/31/12		6/4/12	

"C" = Copy without attachment/enclosure "E" = Copy with attachment/enclosure "N" = No copy

OFFICIAL RECORD COPY

**May 30, 2012, 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	301-492-3320
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
Zhian Li	NRC/SFST	301-492-3235
Jim Pearson	NRC/SFST	301-492-3337
Meraj Rahimi	NRC/SFST	301-492-3338
David Tarantino	NRC/SFST	301-492-3413
Chris Bajwa	NRC/SFST	301-492-3333
James Williams	DOT	202-366-6177
Meridith Kelsch	DOT	202-366-7166
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
Donald Irwin	JLS&A	804-788-8357
John Zarling	LANL	505-665-3668
Temeka Taplin	NNSA	202-406-1210

Enclosure 1

Proposed Agenda for the
Model No. BU650B Pre-Application
Public Meeting (Part I)
May 30, 2012, 9:00 – 10:00 a.m.

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

9:00 a.m.	Introduction/Opening Remarks	NRC/JLS&A
9:10 a.m.	General Overview of the Packaging	JLS&A
9:20 a.m.	Design and Intended Use	JLS&A
9:50 a.m.	Public Questions/Comments	Public/NRC
9:55 a.m.	Closing Remarks	NRC/JLS&A
10:00 a.m.	Adjourn	

Enclosure 2

Proposed Agenda for the
Model No. BU650B Pre-Application
Closed Meeting (Part II)
May 30, 2012, 10:00 – 11:00 a.m.

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

10:00 a.m.	Introduction/Opening Remarks	NRC/JLS&A
10:05 a.m.	Proprietary Design Considerations	JLS&A
10:20 a.m.	Proprietary Preliminary Modeling Results	JLS&A
10:45 a.m.	Questions and Comments	NRC/JLS&A
10:55 a.m.	Closing Remarks	NRC/JLS&A
11:00 a.m.	Adjourn	