

71-9253

A TRANSNUCLEAR

June 3, 2003
E-20292

Mr. E. William Brach, Project Director
U. S. Nuclear Regulatory Commission
Spent Fuel Project Office
One White Flint North
11555 Rockville Pike
Washington, DC 20555

Subject: TN-FSV Safety Analysis Report Revision
Docket No. 71-9253

Dear Mr. Brach:

On behalf of the DOE, Transnuclear is requesting an amendment to the C of C for the TN-FSV Packaging. During a review of the operations for the TN-FSV with the Oak Ridge Container (Configuration 2), two minor inconsistencies were noted in Chapter 7 of the ORC Addendum. In both instances, steps 7.1.1.4 and 7.2.1.6, a three legged sling is identified for use in removing the impact limiter. However, the TN-FSV impact limiter has only two lifting points. In the enclosed ORC Addendum revised (Rev 6) pages 7-1 and 7-6, the words "three legged sling" have been replaced by the word "rigging" which makes these steps consistent with Chapter 7 of the TN-FSV SAR.

If you have any questions, please call me.

Sincerely,



Michael Mason
Chief Engineer

attachments: as stated above (3 copies)

cc: Brian DeMonia (DOE) 1 copy

kimss01

7.0 OPERATING PROCEDURES

This chapter contains the TN-FSV packaging loading and handling procedure guidelines that show the general approach to cask operational activities. The guidelines provided in the SAR have been revised to reflect the alternate contents presented in this Addendum, and the package handling capabilities/limitations at the Oak Ridge and INEEL sites. The Oak Ridge Container may remain installed within the TN-FSV cask for the duration of the Oak Ridge SNF transport campaign.

The information in this chapter will be used to prepare site-specific procedures. The operational steps shown must be performed in order to maintain the validity of cask transport regulations and safety analysis conclusions.

The procedures in this section are for those activities associated with the loading and transport of the Oak SNF canisters and the Peach Bottom fuel assemblies. The loading will be performed from an on-site shielded carrier to the TN-FSV packaging at Oak Ridge in an outdoor facility. The SNF will be unloaded from the TN-FSV packaging at INEEL in a cell-type facility.

7.1 Package Loading

7.1.1 Preparation for Loading

- 7.1.1.1 Upon arrival of the empty packaging on its semitrailer, perform a receipt inspection to check for any damages or irregularities. Perform a radiation survey. Verify that the records for the packaging are complete and accurate.
- 7.1.1.2 Back the tractor and semitrailer onto the loading area.
- 7.1.1.3 Remove the personnel barrier, if used.
- 7.1.1.4 Remove the security device, the impact limiter attachment bolts, and remove the front and rear impact limiters using a suitable crane and rigging.
- 7.1.1.5 If necessary, clean the cask external surfaces of road dirt.
- 7.1.1.6 Release the trunnion tie-downs.
- 7.1.1.7 Release the front saddle tie-downs.
- 7.1.1.8 Engage the cask lifting apparatus in the recessed lifting sockets. Use hand-crank to lock the balls in the sockets.

- 7.1.3.2 Remove the restraints from the cask.
- 7.1.3.3 Lift and move the cask from the cask loading station to the truck.
- 7.1.3.4 Align the trunnions of the cask with the support pedestals on the semitrailer.
- 7.1.3.5 Place trunnions on transport vehicle rear trunnion supports and rotate cask from the vertical to horizontal position.
- 7.1.3.6 Install and torque the rear trunnion tie-downs and the front saddle tie-downs.
- 7.1.3.7 Install the front and rear impact limiters and torque attachment bolts diametrically in several stages until the required value is obtained. (Torque values are listed on drawings in Chapter 1.0.)
- 7.1.3.8 Install security seal on the front impact limiter.
- 7.1.3.9 Perform final radiation and contamination surveys to assure compliance with 10CFR71.47 and 71.87.
- 7.1.3.10 Apply appropriate DOT labels and placards to the vehicle in accordance with 49CFR172.
- 7.1.3.11 Install personnel barrier, if used.
- 7.1.3.12 Prepare final shipping documentation.
- 7.1.3.13 Release the loaded cask for shipment.

7.2 Procedures for Unloading Package

7.2.1 Receipt of Package from Carrier

- 7.2.1.1 Upon arrival of the loaded cask at the receiving site, perform receipt inspection. Inspect for damage, verify security seal is intact and perform radiation survey.
- 7.2.1.2 Verify that placards, labels and shipping papers are in place and correct.
- 7.2.1.3 Inspect and clean the tractor, trailer and cask as required
- 7.2.1.4 Remove the personnel barrier, if used.
- 7.2.1.5 Remove the security seal from the front impact limiter.
- 7.2.1.6 Remove the impact limiter attachment bolts and remove the front and rear impact limiters using a suitable crane and rigging.