71-5597

RETURN TO
A. Machlin
396-SS

FCTC:WHL
71-5597

JUN 25 1985

Department of Energy
ATTN: Mr. Roy F. Garrison
DP-122.2
Washington, DC 20545

Gentlemen:

This refers to your application dated July 31, 1978, as amended, requesting approval of the Model No. Tungsten Shielded Cask packaging.

In connection with our review, we need the information identified in the enclosure to this letter.

Please advise us within 30 days from the date of this letter when this information will be provided. The additional information requested by this letter should be submitted in the form of revised pages. If you have any questions regarding this matter, we would be pleased to meet with you and your staff.

Sincerely,

Original Signed by
CHARLES E. MACDONALD

Charles E. MacDonald, Chief
Transportation Certification Branch
Division of Fuel Cycle and
Material Safety, NMSS

Enclosure: As stated

Distribution: w/encl
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DATE	06/25/85	06/25/85	06/25/85	06/25/85			

NRC FORM 318 (10-80) NRCM 0240

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Department of Energy
Model No. Tungsten Shielded Cask Packaging
Docket No. 71-5597

Encl to ltr dtd: JUN 2 5 1985

1. Identify the components and provide the calculations which support the 34-square inch shear area used for the closure.

2. Discuss why the shear ring weld need not be addressed for the 30-foot free drop. Note: Item No. 3.d of our letter dated October 12, 1982, requested analysis of the shear ring weld.

3. Demonstrate that the dynamic test data (stress-strain, Fig. 1.1 of the SAR) are used conservatively. It is not evident that the dynamic test data when applied to the Tungsten Shielded cask are appropriate. Because of the geometric dependence, applicability of the test data should be considered and non-conservative use of the dynamic data should be precluded.

4. The detailed analysis of the closure studs and bolts should be provided for the 30-foot free drop. We also note the predicted maximum stress for the studs (41,095 psi) exceeds the reported yield stress (30,000 psi). Use of criteria above the yield stress for closure bolting is not acceptable for demonstrating package performance analytically.

5. The as-built drawings should be revised to include the 1/4-inch thick shear washers.

OFFICE ▶							
SURNAME ▶							
DATE ▶							