

10 CFR 71.95 REPORT EVALUATION FORM

Docket No.: 71-9305
Package Model No.: TRUPACT-III
Report Submitted By: T.E. Sellmer, WTS Packaging Integration
Report Date: November 3, 2011 [ML11321A322]

Review the incoming report to determine if additional Commission or staff action is warranted. The review should consider whether the report identifies a generic defect or problem with the package design and the safety significance of the issue. Note that a high safety significance represents a potential for significant radiation exposure, medium safety significance represents a potential for some moderate radiation exposure, and low safety significance represents little or no potential for radiation exposure.

1. The report identifies:

- Significant reduction in the effectiveness of a package during use;
- Defect with a safety significance;
- Shipment in which conditions of the approval were not observed.

2. What is the safety significance? High Medium Low

3. Summary of the report:

Model No. TRUPACT-III, Unit 001, was used in shipments of transuranic waste from Savannah River Nuclear Site in South Carolina to the Waste Isolation Pilot Plant in New Mexico on August 24 and September 9, 2011. On September 16, 2011, Washington TRU Solutions LLC (WTS) was notified of a potential non-compliance condition on the lid assembly of the Model No. TRUPACT-III, Unit 001, packaging. This was confirmed on September 19, 2011, and the packaging was removed from service.

One of the conditions of the Certificate of Compliance is that the packaging is constructed in accordance with the licensed drawings. It was discovered during fabrication and inspection of TRUPACT-III, Unit 002 that the acceptable shear lip width on the lid assembly was exceeded by approximately 8.5 mm.

4. Corrective actions taken by the licensee:

- Unit 001 was removed from service.
- AREVA Federal Services LLC (AFS) performed an extent of condition analysis on Unit 001. Additional non-compliances with the licensed drawings were noted including the effective internal length and the spacer attachment welds.
- AFS submitted an amendment request to reconcile the drawing requirements and to clarify fabrication details dated October 17, 2011. [ML11307A295] The NRC staff approved the amendment request dated November 4, 2011. [ML11313A044 and ML11313A047].
- AFS will re-machine the lid shear lip and other non-compliances identified in the extent of condition analysis will be re-worked to be in compliance with the licensed drawing requirements.
- AFS will perform and document a formal reconciliation between the fabrication and SAR drawings.

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- AFS will ensure an enhanced measuring technique is used to determine the effective internal length.
- AFS will revise fabrication documents to ensure conformance with licensed drawings.
- The containment boundary leakage rate test will be re-performed for Unit 001.

5. Staff comments:

AFS's 71.95 summary report indicates that there is no safety consequence from these events and that no systems or components failed. The staff finds the safety significance of the aforementioned non-compliances to be low. The staff has performed a technical evaluation and approved the changes to the licensed drawings resulting from the extent of condition analysis. The staff also agrees that AFS and WTS have identified a reasonable plan to prevent recurrence.

6. Staff conclusion:

- The report does NOT identify generic design or license/certificate issues that warrant additional Commission or staff action. This report is considered closed.
- There is a need to take additional action. Provide a summary of the bases and recommended actions:

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