

10 CFR 71.95 REPORT EVALUATION FORM

Docket No.: 71-9218
Package Model No.: TRUPACT-II
Report Submitted By: T.E. Sellmer, Nuclear Waste Partnership LLC
Report Date: June 17, 2013
Report ADAMS Accession No.: ML13197A438

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:

On September 8 and October 20, 2011, three Model No. TRUPACT-II packages making fuel shipments were shipped from the Los Alamos National Laboratory to the Waste Isolation Pilot Plant using certificate of compliance (CoC) No. 9218. On April 24, 2013, package Nos. 167, 172, and 196 were found to have been shipped with incorrect software calculations of the flammability index for some 12-inch standard pipe overpack payload containers. The flammability index is part of Condition No. 7 of Revision 20 of the CoC which places an index limit of 50,000. An independent CH-TRAMPAC evaluation was performed and it showed that all three payload containers are compliant with the limits, despite incorrect software calculations.

There was no loss or dispersal of radioactive material as a result of this event.

4. Corrective actions taken by the licensee:

- All pending shipments containing standard pipe overpacks were suspended until the software was corrected and tested for compliance.
- The calculation was corrected and verified to calculate the flammability index in accordance with the CoC requirement.
- The software testing program will be expanded to include additional testing and validation that will be used prior to release of the software to evaluate both new software changes and impacts to previously implemented software logic.

5. Staff comments:

A similar event in a letter from Washington TRU Solutions, dated 3/21/2007, discusses an incorrect hydrogen/methane concentration evaluation caused by an electronic database programming error.

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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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