

10 CFR 71.95 REPORT EVALUATION FORM

Docket No.: 71-9218

Package Model No.: TRUPACT-II

Report Submitted By: T.E. Sellmer, Manager, Packaging and Information Services, Nuclear Waste Partnership LLC (on behalf of the U.S. Department of Energy)

Report Date: January 25, 2018.

Report ADAMS Accession No.: ML18130A582

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 November 21, 2017, Waste Control Specialists (WCS), located in Andrews, Texas, performed a shipment (No. WC170016) to the Waste Isolation Pilot Plan (WIPP) using one tractor trailer. The shipment included three TRUPACT-II packages (unit Nos. 154, 158, and 191). Each package contained one assembly.

Condition 10 of CoC No. 9218, Model No. TRUPACT-II, includes the description of these administrative controls related to these packages:

"For close-proximity and controlled shipments meeting the conditions specified in Appendices 3.5 and 3.6, respectively, of CH-TRU Payload Appendices, shipping periods of 20 days and 10 days may be applicable."

The 20-day close proximity shipment applied to units No.154 and 158 and the 10-day controlled shipment (see Appendices 3.5 and 3.6 of the application) applied to unit No. 191. Section 3.6.3 of Appendix 3.6 states the following:

"The unloading time begins with the arrival of the shipment at the receiving site and ends with the venting of the ICV. Normal unloading will be accomplished in less than one day (24 hours). Section 6.2.3 of the CH-TRAMPAC outlines administrative controls imposed to ensure venting of the inner containment vessel (ICV) within 9 days of shipment departure from the shipping site."

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3. Summary of the report (Continue):

November 30, 2017, was established as day number 9 for the unloading time for unit No. 191 in order to ensure venting of the inner containment vessel (ICV) as specified in Condition No. 10 of CoC No. 9218. Unit No. 191 was vented on December 1, 2017, due to WIPP personnel failure to transfer the correct vent date from WP 08-NT3020 (Attachment 4) to the Waste Handling pre-shift brief corresponding to unit No. 191. The WIPP personnel also failed to identify the issue after unit No. 191 was vented. Therefore, this shipment did not completely follow the CoC requirements for the Model No. TRUPACT-II.

There were no components or systems that were inoperable at the start of the event.

4. Corrective actions taken by the licensee:

The following interim corrective actions were taken:

- a. Review documentation to determine if any additional controlled waste packages and confirm the status of those package's vent deadlines. The review concluded that no additional controlled waste packages exceeded their package vent deadlines.
- b. Develop an informal process to peer check the vent dates listed on WP 08-NT3020 (Attachment 4) and on the CH Waste Operations Tailored Shift Briefing form. The report submitted by Nuclear Waste Partnership LLC (NWP) on January 25, 2018, specifies that this informal process will be in place until a more "formalized process (procedure)" can be developed.
- c. Perform a root cause analysis to investigate and analyze the information associated with the venting issue of unit No. 191.

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5. Staff comments:

The NWP document identification numbers related to this event are CP:18:01029 and UFC:5822.00. A criticality safety reviewer and a thermal reviewer looked at the report submitted by NWP and did not find significant safety issues associated with this event.

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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ADAMS Package No.: ML18

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