

10 CFR 71.95 REPORT EVALUATION FORM

Docket No.: 71-9291
Package Model No.: Liqui-Rad (LR) Transport Unit
Report Submitted By: Wes Stilwell, Westinghouse
Report Date: July 12, 2011

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 May 13, 2011, 2 to 3 quarts of uranyl nitrate (UN) liquid were spilled inside the inner and outer domed areas because the operators did not notice that an O-ring in the UN connection hose was missing from the LR-230 container. Thus, the connection leaked when the system was pressurized.

The liquid was cleaned up and the area decontaminated. The unloading operation restarted and was then completed without incident.

Regular inspection surveys upon receipt of the container at NFS showed contamination levels on the top of the container above applicable DOT limits, i.e., 7788 dpm/100 cm² alpha and 13,299 dpm/100 cm² beta.

There were previous occurrences of contamination in the inner wells of the LR230 container that were above the contractual limits, but never a case of contamination above the limits on the outside of a container.

4. Corrective actions taken by the licensee:

Facility operating procedures have been revised to require more thorough surveys on all outgoing empty containers.

Facility operating procedures have been revised to address in detail:

- how to handle a contamination event during UN off loading operations,
- how to clean up a leak,
- how to require HP/Management notification and oversight of cleanup operations.

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5. Staff comments:

Staff finds that it is highly unlikely that any individual was exposed to radiation as a result of this incident for the following reasons:

- (i) The container was transported exclusive use,
- (ii) The duration of the shipment was 4 hours, and
- (iii) The contaminated area is a very small area on top of the container with limited access.

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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SFST 71.95 Report File

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