

10 CFR 71.95 REPORT EVALUATION FORM

Docket No.: 71-9196
Package Model No.: UX-30
Report Submitted By: Scott Murray, Global Nuclear Fuel
Report Date: December 13, 2013
Report ADAMS Accession No.: ML13350A341

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 October 14, 2013, while preparing paperwork for an upcoming UF6 shipment, United States Enrichment Corporation (USEC) reviewed inspection data provided by Global Nuclear Fuel - Americas, LLC (GNF-A) to confirm completion of the required annual inspections of the UX-30 overpacks. Overpack number GNFA 187 showed the Annual Weld inspection had last been performed on June 18, 2012, and exceeded the 12 month weld inspection requirement. Subsequent review determined that the last two shipments of this overpack by GNF-A to USEC (on September 11 and October 14, 2013) and one shipment from USEC to GNF-A (on September 17, 2013) occurred outside of the required 12 month cycle for the weld inspection.

GNF-A enters overpack weld inspection data into a Container Tracking System (CTS) database and this information is used by a Cylinder Overpack Pre-shipment (COPS) database to control the use of UF6 transportation packages. The COPS system provides warning statements for various conditions associated with UF6 packages.

A GNF-A assessment of the event identified the following apparent causes:

1. In March 2013, an enhancement was added to the COPS inspection database that allowed operators to override an alert message without confirming the last weld inspection date. As a result, the COPS database failed to provide the proper alert/stop as required.
2. The CTS system allowed for a weld inspection greater than 12 months prior to shipment due to an improper extension being added for the time a package was in a quality hold status.

4. Corrective actions taken by the licensee:

USEC removed overpack number GNFA 187 from service and returned the empty overpack to GNF-A for disposition. A subsequent weld inspection was performed on overpack number GNFA 187 on October 25, 2013, which provided assurance there were no weld defects or

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failures present when the package was in use.

GNF-A has opened a condition report (CR) to document the event, investigation and corrective actions.

The COPS system database has been modified to remove the override capability for packages with overdue inspection dates.

The CTS system database has been modified to remove the improper addition of time when a package is in a quality hold status.

5. Staff comments:

While the Certificate of Compliance inspection requirements were not met in three shipping instances, subsequent inspection demonstrated that the package was fully functional and that there was no safety reduction during these shipments. As such, this is a low safety significance incident.

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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M. Ferdas, RI S.Vias, RII ROrlikowski, RIII B. Spitzberg, RIV D. Marcano
 J. Donoghue R. Temps
 R. Boyle and M. Conroy, Department of Transportation
 R. Sun, FSME NMED Project Manager
 A. McIntosh, FSME NMED Project Manager

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