

10 CFR 71.95 REPORT EVALUATION FORM

Docket No.: 71-9196

Package Model No.: Model No. UX-30

Report Submitted By: Michael A. Buckner, Acting General Manager, Paducah Gaseous Diffusion Plant

Report Date: December 7, 2012

Report ADAMS Accession No.: ML12354A130

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 17, 2012, during an in-transit inspection at the Port of Baltimore of a shipment of UX-30 overpacks containing low enriched uranium hexafluoride of Russian origin, one of the overpacks was found to have one of the ten ball lock pins disengaged and dangling from its lanyard. The ball lock pins fasten the overpack lid to its base. The UX-30 overpack contained one full type 30B cylinder of less than 5% assay. The cylinder was not affected by the condition of the overpack and there was no release of its contents. USEC opted to be conservative and report the condition of the Model No. UX-30 even though the pin failure originated outside of the United States.

Condition No. 6 of the certificate of compliance requires that the package be inspected and maintained in accordance with ANSI N14.1-2001. The package was not in compliance with Condition No. 6

4. Corrective actions taken by the licensee:

USEC is replacing any stainless steel pins that show any signs of deterioration that could lead to failure. The pin on the overpack was replaced by USEC's transportation agent. Deficient pins will be replaced as described in accordance with current procedure practice.

5. Staff comments:

The package is placed on transport saddles that have metal straps that are clamped over the package. These devices while they are not credited in the safety analysis report, they provide a

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secondary clamping mechanism to hold the overpack halves together. at the valve coupling during the transportation or use of this cylinder. USEC is unable to quantify whether a single missing ball lock pin is a significant reduction in the effectiveness of the package. The inspection prior to shipping provides reasonable assurance that the package will be shipped in a safe condition.

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 M. Sykes, II C. Lipa, III B. Spitzberg, IV
 D. Mercano E. Benner R. Temps
 R. Boyle and M. Conroy, Department of Transportation
 R. Sun and A. McIntosh, FSME NMED Project Manager

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ADAMS P8 Accession No.: ML13214A151

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