

10 CFR 71.95 REPORT EVALUATION FORM

Docket No.: 71-9341
Package Model No.: BEA Research Reactor (BRR)
Reports Submitted By: Ralph Butler, Director, University of Missouri Research Reactor; and Thomas Newton, Director of Reactor Operations, MIT Research Reactor Laboratory
Report Dates: April 14, 2014 and May 7, 2014
Report ADAMS Accession Nos.: ML14106A033 and ML14133A298

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:

The certificate holder has notified MIT and the University of Missouri that during shipments to both facilities made between October 2011 and May 2013, the conditions of Certificate of Compliance No. 9341 were not met in their entirety. Specifically, the alignment pin between the cask body and the closure lid was not made of the material specified in the package design drawings. The material of the pin is specified in the drawings as ASTM A276, UNS 21800, but the actual material of the pin used was Type 304 stainless steel. The purpose of the pin is to align the bolt holes in the closure lid with the threaded holes in the cask body during installation of the lid, and has no safety function.

4. Corrective actions taken by the licensee:

The certificate holder has procured a new alignment pin using the material specified in the package design drawings.

5. Staff comments:

The staff has reviewed the certificate holder's report, and its evaluation of the incident, and it agrees that the safety significance of the report is minor. The staff finds that the certificate holder's corrective actions should be sufficient to prevent future occurrences.

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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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