

10 CFR 71.95 REPORT EVALUATION FORM

Docket No.: 71-9215
Package Model No.: NPI-20WC-6 MkII
Report Submitted By: J. L. Fogle, Neutron Products, Inc.
Report Date: January 25, 2013
Report ADAMS Accession No.: ML13030A037

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:

During an inspection of the Neutron Products Ranson, WV, facility by the Nuclear Regulatory Commission from November 26-29, 2012, non-conforming components associated with the NPI-20WC-6 MkII package were identified. The non-conforming component was a cover assembly with lifting handles which were not fabricated in accordance with Neutron Products, Inc., drawing 240122, Rev. H. The cover assembly also did not have the gusset shown on the drawing. The non-conforming component was installed on transfer cask TC-6. Upon discovering the non-conformance, Neutron Products requested photographs of other transfer casks which were in the field and identified the cover assembly for transfer cask TC-10 also had incorrect handles and was missing a gusset like the cover assembly for transfer cask TC-6. Consequently, the cover assembly for transfer cask TC-10 was also tagged as non-conforming.

These non-conforming cover assemblies had been used with expired Certificate of Compliance USA/9102/B() and were identical in physical dimension, mounting pattern holes and shielding ability to cover assemblies approved for use with USA/9215/B(U) packages. At some undetermined time in the past, the non-conforming cover assemblies were inadvertently installed. Subsequent inspections failed to identify the cover assemblies as non-conforming. Consequently, although they were available, cover assemblies fabricated in accordance with Neutron Products, Inc., drawing 240122, Rev. H were not installed. As a result, on September 29, 2012, transfer cask TC-10 was utilized to ship 3500 curies of cesium-137 with the non-conforming component installed.

4. Corrective actions taken by the licensee:

Neutron Products tagged transfer casks TC-6 and TC-10 as non-conforming and segregated/restricted them from shipping radioactive material. A nonconformance report was initiated. Maintenance, loading and inspection procedures will be revised to include inspection of the cover assemblies. In addition, a comprehensive program-wide corrective action assessment was formulated to guard against significant conditions adverse to quality.

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5. Staff comments:

The dimensions, mounting pattern and shielding ability of the non-conforming components are identical to those of approved components. Survey results during the shipment utilizing the non-conforming component not only showed dose rates were within regulatory limits, but also showed they were equivalent to those associated with the use of approved components. Thus, neither radiation workers nor members of the public were exposed to abnormal dose rates. Consequently, staff has determined this incident is not safety significant.

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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