

# 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.:** ML13120A311

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 steel angle located on the bottom rear of transfer casks TC-4, TC-5, and TC-6. The component does not perform a safety function (e.g., containment, shielding, etc.) and is not described in the safety analysis report. Rather, it serves as a reference and alignment aid for field operations. Per Neutron Products drawing 240122, Rev. H, the angles are supposed to have a 45 degree corner on each end and should be attached to the transfer cask by a skip weld. The non-conforming angles do not have the 45 degree corner and are attached to the transfer cask by a full length weld. The transfer casks with the non-conforming angles were utilized in numerous shipments since their receipt in 1986. The maximum amount of radioactive material transported in one of these shipments was 15,000 curies of special form cobalt-60.

## 4. Corrective actions taken by the licensee:

Neutron Products tagged transfer casks TC-4, TC-5, and TC-6 as non-conforming and removed them from service and committed not to utilize these transfer casks until they were brought into conformance with drawing 240122, Rev. H.

In addition, a campaign was initiated to incorporate additional focus on all details of package components to ensure they are consistent with approved drawings as well as the certificate of compliance.

## 5. Staff comments:

The non-conforming angles do not perform a safety function; i.e., they do not perform a shielding function, maintain structural integrity, etc. Therefore, use of the non-conforming angles did not pose a safety risk either to the public or to radiological workers during transport. Consequently, staff has determined this incident is not safety significant.

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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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