

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.: ML13030A042

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 components were wooden inner protective jackets (serial numbers OP-8, OP-10A, OP-11, OP-12, OP-13, and OP-14) used with USA/9215/B(U) certificate of compliance shipping package. The weight of the wooden inner protective jacket is specified on drawing 240122, Rev. H. Section 8 of the safety analysis report for the NPI-20WC-6 MkII, which is incorporated by reference into the certificate of compliance, requires the wooden inner protective jackets be weighed annually to monitor for weight gain or loss. The calibration of the scale used to weigh the wooden protective jackets did not bracket the actual weight of the wooden inner protective jackets.

The scale used to weigh the wooden inner protective jackets was purchased through the quality system, and according to the vendor, it was calibrated to industry standards. However, although the scale is capable of weighing up to 2000 pounds, it was only calibrated to 1000 pounds. (The weight of the wooden inner protective jackets is approximately 1150 pounds.) This non-conformance occurred due to misinterpretation by the vendor of the requirement in Neutron Products' purchase order to "calibrate on all ranges" and a failure by Neutron Products personnel to identify the miscalibrated scale either during receipt inspection of the scale or during maintenance reviews.

4. Corrective actions taken by the licensee:

All wooden inner protective jackets were removed from service. After the scale was calibrated to full range, all wooden inner protective jackets were determined to be the proper weight prior to being returned to service. Purchasing procedures will be revised to require scale calibration to full range, and inspection procedures will be revised to verify scale calibration to full range. In addition, these changes will be applied to other calibration services for equipment used to ship radioactive material under Neutron Products' Quality Assurance program.

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5. Staff comments:

Staff reviewed the report and determined this incident is neither safety significant nor indicative of a trend.

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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