

10 CFR 71.95 REPORT EVALUATION FORM

Docket No.: 71-9217

Package Model No.: ANF-250

Report Submitted By: R. E. Link, AREVA NP Inc.

Report Date: October 2, 2013

Report ADAMS Accession No.: ML13295A226

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 August 7, 2013, AREVA Transnuclear (TN) discovered that the square shank studs used to seal the inner lid of the ANF-250 package did not meet the specific code requirements called for in the package design drawings. This non-compliance was discovered during a review of the studs' paperwork, resulting from a separate event related to the improper calibration of the torque wrench used to seal the ANF-250 package.

Specifically, package drawing EMF 306, 175, Rev. 16, states that the inner lid studs must be either SAE J429 Grade 8 or ASTM A354 Grade BD. The currently used studs, identified as McMaster Carr Part No. 9081A724, do not meet either of these specifications. The literature for the current studs states that they have a tensile strength of 125,000 psi, while the minimum tensile strength required by the specification is 150,000 psi. Accordingly, all shipments made in ANF-250 packagings from November 2000 through August 2013 did not meet the conditions of the CoC.

The certificate holder states that the cause for this non-compliance was personnel error by incorrectly assuming that the existing inner lid studs (McMaster Carr) met the requirements of SAE J429 Grade 8 and ASTM A354 Grade BD when the package design drawings were revised to include a different stud specification.

4. Corrective actions taken by the licensee:

The certificate holder has procured and installed new square shank studs that meet the requirements of ASTM A354 Grade BD for use in all ANF-250 packagings.

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5. Staff comments:

Although the period of time during which the package was not in compliance with the design drawings was extensive, the staff finds that the safety significance is minor because the inner lid studs used were the same used during the initial package certification testing and referenced in the initial certificate of compliance. 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 are sufficient to prevent a future occurrence.

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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ADAMS P8 Accession No.: ML14085A035

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