

# 10 CFR 71.95 REPORT EVALUATION FORM

**Docket No.:** 71-9204  
**Package Model No.:** 10-160B  
**Report Submitted By:** Idaho National Laboratory (INL)  
**Report Date:** October 4, 2016  
**Report ADAMS Accession No.:** ML16363A180

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:

Battelle Energy Alliance made ten shipments using non-conforming shield insert configurations, i.e., shield insert fasteners were not US manufactured contrary to Note 18 of the licensing drawings.

Also, contrary to Note 4 of the licensing drawings, the stenciled package gross weight was 7, 600 lbs, i.e., not 8,000 lbs as specified on the drawings.

## 4. Corrective actions taken by the licensee:

Corrective actions included the following:

- (1) All shipments using the identified non-compliant inserts have been suspended.
- (2) All non-compliant (both loaded and unused) inserts were identified and tagged to prevent their use.
- (3) All non-compliant fasteners were identified and tagged to prevent their use on future insert loadings.

Staff requested and obtained the Commercial Grade Dedication Report, the Corrective Action Report, and the Causal Analysis Report.

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**5. Staff comments:**

There is no safety impact to the packaging.

The material in question, 3/4x10x3 Hex Cap screws, Item 22 on Drawing C-038, is classified as Quality Level II, equivalent of B, which means a test report is required to document compliance of the chemical and physical properties with SAE J429.

Atkins has provided sufficient technical objective evidence and responses to staff's concerns (Letter No. 16-1002-WJH, dated November 16, 2016) in that the Important to Safety (ITS) category B insert fasteners comply with the required material specification, as demonstrated by the results of Peterson's Commercial Grade Dedication Report and corresponding Certificate of Conformance, Certificate of Inspection, and Material Testing Report, as reviewed by staff.

IOB will conduct an inspection of EnergySolutions early in 2017. The NRC inspection team will in particular assess both the root causes and corrective actions, extent of condition (i.e., design control, changes to SAR drawings), and methods taken to prevent recurrence.

**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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R. Boyle and M. Conroy, Department of Transportation (DOT)

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**ADAMS P8 Accession No.: ML17010A251**

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<b>DATE</b>	12/28/2016		12/29/2016		01/03/2017				