

10 CFR 71.95 REPORT EVALUATION FORM

Docket No.: 71-9239
Package Model No.: MCC
Report Submitted By: Tanya Sloma, Westinghouse Electric Company, LLC
Report Date: December 21, 2011

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:

"Non-conforming" pellets, that were supposed to be scrapped, were loaded into fuel rods and shipped in a Model No. MCC package between 8/24/2010 and 9/18/2010.

In the shipment, one pellet tray contained a pellet with a diameter of 0.2 mils less than the minimum manufacturing tolerance.

Sensitivity studies were performed for a 17x17 fuel assembly type in both NCT and HAC conditions to evaluate the increase in reactivity (K_{eff}) due to the changed pellet diameter. Results indicate that the maximum K_{eff} value was still less than the upper subcritical limit (USL) documented in the criticality safety evaluation of the Model No. MCC package.

The small increase in K_{eff} had no adverse impact on the safety basis of the package.

4. Corrective actions taken by the licensee:

- A Corrective Action Process (CAP) was issued to instruct Westinghouse Nuclear Fuel Departments to review the consequences of deviation disposition requests, i.e., identification of non-conformances pertaining to pellet diameter specifications, performance of re-measurement procedures, marking of "out of specification" material in non-conforming trays as "scrap", re-sampling scrap trays, physical verification that scrap trays are in fact really scrapped and not released for use, etc.
- An evaluation of the criticality safety analysis was performed and documented.

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5. Staff comments:

There was no radiation exposure due to the non-conforming pellets being shipped in the Model No. MCC package.

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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