

# 10 CFR 71.95 REPORT EVALUATION FORM

**Docket No.:** 71-9319  
**Package Model No.:** MAP-12/MAP-13  
**Report Submitted By:** Samuel Miller, Manager Environmental, Health Safety & Licensing, AREVA NP Inc.  
**Report Date:** November 18, 2009

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 09/23/2009, six MAP-12 packages were prepared for shipment from the AREVA Lynchburg, VA, facility to the Oconee Nuclear Station in Oconee, S.C. Each package contained two fuel assemblies.

During shipment, the transporter noted that one ball lock pin was missing on one of the six packages, i.e., the MP-066 package, and notified the Oconee site upon arrival of the shipment on 09/24/2009.

The MP-066 package has 44 ball lock pins to secure the lid to the base of the package and was prepared for shipment according to AREVA procedures. However, the procedures did not require an independent verification of the proper seating of the ball lock pins to prevent any dislodgment during transport. As such, the MP-066 package did not comply with the requirements of Condition No. 5(a)(3) of the Certificate of Compliance on positive closure.

AREVA has provided a report of non-compliance on November 18, 2009, and updated its procedures.

## 4. Corrective actions taken by the licensee:

- AREVA revised its procedure to include an independent verification that all ball lock pins are fully seated and properly engaged prior to clearing a package for shipment.

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**5. Staff comments:**

In July 2009, staff processed an amendment application from AREVA NP Inc., to change the internal door hinge and latch configuration on the MAP series of packages. Staff's review focused on the Hinge, Outboard Hinge Axial (Shaft), Outboard Hinge Axial Retainer, Inboard End Door Shaft, Inboard Middle Door Components (several components), Latch Hook, Anchor Bolt, Anchor Receptacle, and Axial Restraint Box. The staff's review did not look at the ball lock pins as they were not affected by the amendment application.

The September 23, 2009, event is exclusively due to an AREVA procedure which could clear a package for shipment without insuring that the ball lock pins were properly engaged, thus allowing them to possibly become dislodged during shipment. There were no components or system failures during this event.

AREVA did not recognize the deficient procedure until this event. AREVA has now updated its procedure to have an independent verification of all ball lock pins full engagement prior to shipment.

**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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