

July 14, 2005

Mr. Richard Montgomery
Framatome ANP, Inc.
200 Oxide Lane
Erwin, TN 37650

SUBJECT: CERTIFICATE OF COMPLIANCE NO. 6581 FOR THE MODEL NO. 51032-1
PACKAGE

Dear Mr. Montgomery:

As requested by your application dated March 22, 2005, enclosed is Certificate of Compliance No. 6581, Revision No. 34, for the Model No. 51032-1 package. This certificate supersedes, in its entirety, Certificate of Compliance No. 6581, Revision No. 33, dated December 30, 2003. Changes made to the enclosed certificate are indicated by vertical lines in the margin. The staff's Safety Evaluation Report is also enclosed.

Those on the attached list have been registered as users of the package under the general license provision of 10 CFR 71.17 or 49 CFR 173.471. This approval constitutes authority to use the package for shipment of radioactive material and for the package to be shipped in accordance with the provisions of 49 CFR 173.471. Registered Users may request by letter to remove their names from the Registered Users List.

If you have any questions regarding this certificate, please contact me or Jessica Umaña of my staff at (301)415-8500.

Sincerely,

/RA/

Michael T. Markley, Acting Chief
Licensing Section
Spent Fuel Project Office
Office of Nuclear Material Safety
and Safeguards

Docket No. 71-6581
TAC No. L23831

Enclosures: 1. Certificate of Compliance
No. 6581, Rev. No. 34
2. Safety Evaluation Report
3. Registered Users List

cc w/encls 1 & 2: R. Boyle, Department of Transportation
J. Shuler, Department of Energy
RAMCERTS
Registered Users

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*see previous concurrence

OFC:	SFPO	E	SFPO	E	SFPO	SFPO	SFPO			
NAME:	JUmaña*		BWhite*		MDeBose	LCampbell	MMarkley			
DATE:	7/13/2005		7/13/2005		07/13/05	07/13/05	07/14/05			

C = COVER

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SAFETY EVALUATION REPORT
Docket No. 71-6581
Model No. 51032-1 Package
Certificate of Compliance No. 6581
Revision No. 34

SUMMARY

By application dated March 22, 2005, Framatome ANP, Inc. (Framatome), requested an amendment to Certificate of Compliance No. 6581 for the Model No. 51032-1 package. Framatome requested minor changes to the contents of the package for specified fuel designs. Framatome did not request any design changes to the packaging. Based on the statements and representations in the application, the staff agrees that the changes do not affect the ability of the package to meet the requirements of 10 CFR Part 71.

EVALUATION

By application dated March 22, 2005, Framatome requested an increase in the maximum pellet density from 95 to 97.5% of theoretical density for the 15x15, 17x17, and GEN1 fuel designs. To compensate for the increases in the maximum pellet density, Framatome also requested a reduction of the maximum uranium-235 enrichment from 5.0 to 4.87%. Offsetting the increase in pellet density by reducing the enrichment keeps the maximum U-235 density in the criticality analysis and fuel loading constant. Additionally, increasing the percentage of theoretical density and decreasing the enrichment will also increase the amount of uranium-238 in the fuel assemblies. These changes will not increase the maximum K_{eff} values associated with normal conditions of transport and the hypothetical accident conditions. Condition No. 5(b)(1)(i) of the certificate was changed to reflect the requested revision Framatome submitted by application dated March 22, 2005.

Condition No. 5(c) of the certificate was revised to replace the wording "Transport Index for Criticality Control" with "Criticality Safety Index" as defined in 10 CFR 71.4.

Condition No. 13 of the certificate was changed to clarify that the package is approved for use under the general license provisions of 10 CFR 71.17. This change is due to a revision in the numbering of the sections in 10 CFR Part 71, that became effective on October 1, 2004 (69 FR 3698).

Condition No. 14 of the certificate was revised to reflect the new expiration date. In accordance with 10 CFR 71.19(a)(3), Type AF packages approved by the U.S. Nuclear Regulatory Commission before September 6, 1983, are no longer authorized for use after October 1, 2008. Certificate of Compliance No. 6581, for the Model No. 51032-1 package, was initially approved by the NRC on September 12, 1974. This certificate is not renewable.

The staff reviewed the documents referenced in the certificate and determined that the documentation was available and complete. The staff also reviewed the operating and maintenance procedures for the package and found them to be adequate.

CONCLUSION

The certificate expires on October 1, 2008. This change does not affect the ability of the package to meet the requirements of 10 CFR Part 71.

Issued with Certificate of Compliance No. 6581, Revision 34 on July 14, 2005.