



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

August 31, 2018

Dr. James M. Shuler  
Manager, DOE Packaging  
Certification Program  
U.S. Department of Energy  
Office of Packaging and Transportation  
EM-4.24, 270 CC- Rm 3113  
1000 Independence Ave., SW  
Washington, DC 20585

SUBJECT: REVISION NO. 20 OF CERTIFICATE OF COMPLIANCE NO. 5797

Dear Dr. Shuler:

As requested by the U.S. Department of Energy's (the applicant's) letter dated July 30, 2018, enclosed is Certificate of Compliance No. 5797, Revision No. 20, for the Model No. Inner and Outer HFIR [High Flux Isotopic Reactor] Unirradiated Fuel Element Shipping Containers. Changes made to the certificate are indicated by vertical lines in the margin. The staff's safety evaluation report is also enclosed.

The applicant incorporated all package design changes previously reviewed and authorized by the U.S. Nuclear Regulatory Commission, several editorial changes and clarifications, and enhancements that facilitated conversion of the document to an electronic format.

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 Title 49 of the *Code of Federal Regulations* 173.471.

J. Shuler

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If you have any questions regarding this certificate, please contact Siva P. Lingam of my staff at (301) 415-1564.

Sincerely,

/RA/

John McKirgan, Chief  
Spent Fuel Licensing Branch  
Division of Spent Fuel Management  
Office of Nuclear Material Safety  
and Safeguards

Docket No. 71-5797  
EPID No. L-2018-LLA-0213

Enclosures:

1. CoC No. 5797, Rev. No. 20
2. Safety Evaluation Report
3. Registered Users

Upon removal of Enclosure 3, this document is uncontrolled
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cc w/encls. 1 & 2:  
R. Boyle, Department of Transportation

J. Shuler

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SUBJECT: REVISION NO. 20 OF CERTIFICATE OF COMPLIANCE NO. 5797, DOCUMENT  
DATE: August 31, 2018

**DISTRIBUTION:** (EPID No. L-2018-LLA-0213)

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**ADAMS PKG: ML18243A175 ADAMS Letter & SER No.: ML18243A177**

**Enclosure 1: CoC-ML18243A176**

\*via e-mail

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**SAFETY EVALUATION REPORT**

**MODEL NO. INNER AND OUTER HFIR UNIRRADIATED  
FUEL ELEMENT SHIPPING CONTAINERS**

**CERTIFICATE OF COMPLIANCE NO. 5797  
REVISION NO. 20**

**SUMMARY**

By application dated July 30, 2018, the U.S. Department of Energy (the applicant) submitted an amendment request for Certificate of Compliance (CoC) No. 5797 for the Inner and Outer HFIR [High Flux Isotopic Reactor] Unirradiated Fuel Element Shipping Containers. The submittal included the consolidated safety analysis report for packaging.

**EVALUATION**

In response to our safety evaluation dated August 22, 2017, the applicant submitted a consolidated application in view of the number of supplements previously submitted, in accordance with 10 CFR 71.38(c), for CoC No. 5797.

The general design of the packages was not modified. The applicant incorporated all package design changes previously reviewed and authorized by the U.S. Nuclear Regulatory Commission (NRC), several editorial changes and clarifications, and enhancements that facilitated conversion of the document to an electronic format. Oak Ridge National Laboratory prepared the consolidated safety analysis report in support of this amendment request.

The NRC staff reviewed the changes requested by the applicant including the changes that were previously evaluated and approved, and finds that they do not affect the ability of the package to meet the requirements of 10 CFR Part 71.

**CONDITIONS**

The condition specified in the Certificate of Compliance No. 5797 has been revised as indicated below:

The references section includes July 30, 2018, amendment request submittal.

**CONCLUSION**

Based on the statements and representations in the application, as supplemented, and the conditions listed above, the staff concludes that the design has been adequately described and evaluated and meets the requirements of 10 CFR Part 71.

Issued with Certificate of Compliance No. 5797, Revision No. 20,  
on 8/31/18