

**CERTIFICATE OF COMPLIANCE  
FOR RADIOACTIVE MATERIAL PACKAGES**

1. a. CERTIFICATE NUMBER	b. REVISION NUMBER	c. DOCKET NUMBER	d. PACKAGE IDENTIFICATION NUMBER	PAGE	PAGES
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2. PREAMBLE

- a. This certificate is issued to certify that the package (packaging and contents) described in Item 5 below meets the applicable safety standards set forth in Title 10, Code of Federal Regulations, Part 71, "Packaging and Transportation of Radioactive Material."
- b. This certificate does not relieve the consignor from compliance with any requirement of the regulations of the U.S. Department of Transportation or other applicable regulatory agencies, including the government of any country through or into which the package will be transported.

3. THIS CERTIFICATE IS ISSUED ON THE BASIS OF A SAFETY ANALYSIS REPORT OF THE PACKAGE DESIGN OR APPLICATION

- a. ISSUED TO (*Name and Address*)
- b. TITLE AND IDENTIFICATION OF REPORT OR APPLICATION

Westinghouse Electric Company, LLC  
Columbia Fuel Fabrication Facility  
5801 Bluff Road  
Hopkins, SC 29061

Westinghouse Electric Company application dated  
May 15, 2003, as supplemented

4. CONDITIONS

This certificate is conditional upon fulfilling the requirements of 10 CFR Part 71, as applicable, and the conditions specified below.

5.

(a) Packaging

(1) Model No.: ABB-2901

(2) Description

A shipping container for low-enriched uranium oxide pellets, composed of an inner container, surrounded by insulating material, and an outer drum. The inner container is  $10.75 \pm 1/4$  inches square and approximately 30 inches long, constructed of minimum 14-gauge steel, with bolted and gasketed top flange closure and welded bottom sheet. The inner container is centered and supported in an 18-gauge steel drum by asbestos or ceramic sheet, plywood, hardboard, and insulating material. The drum has a 16-gauge closure lid. The drum lid is closed with a 12-gauge locking ring with drop forged lugs and a 5/8-inch diameter bolt. In addition to the locking ring, three lid clamps are installed to secure the drum lid. The drum has approximate dimensions of 22.5-inch ID by 36-inch height. The uranium oxide pellets are packaged in boxes positioned within a steel insert. The maximum gross weight of the package is 660 pounds.

(3) Drawings

The packaging is constructed and assembled in accordance with Westinghouse Electric Company, LLC, Drawing Nos.

10004E01, Rev. 2;  
10004E02, Sheets 1 and 2, Rev. 2; and  
10004E03, Rev. 2.

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5. (b) Contents

(1) Type and form of material

Sintered uranium oxide pellets enriched to a maximum 5.0 w/o in the U-235 isotope. The maximum pellet diameter is 0.969 cm, and the minimum pellet diameter is 0.818 cm.

(2) Maximum quantity of material per package

227 pounds of pellets, with the U-235 content not to exceed 4.54 kg. The pellets must be packaged on corrugated stainless steel trays, within shipping container boxes and a shipping container insert in accordance with ABB Combustion Engineering Nuclear Systems Drawing Nos. L-9274-02, Sheets 1 and 2, Rev. 0, and L-9274-03, Rev. 0.

Maximum weight of contents within the inner container is 427 pounds, including radioactive material, secondary containers, and other packaging material.

(c) Criticality Safety Index (minimum index to be shown on label): 0.5

6. Corrugated stainless steel trays must be positioned between each layer of pellets, and on the top and bottom of the pellet stack. Spacers must be inserted in partially filled pellet shipping boxes to provide a snug fit.
7. The package may also contain stainless steel pellets, depleted uranium pellets, and neutron poisons such as gadolinia, erbium, and boron carbide.
8. In addition to the requirements of Subpart G of 10 CFR Part 71:
  - (a) Prior to each shipment the insert (containment vessel) gasket shall be inspected. This gasket shall be replaced if inspection shows any defects.
  - (b) The package must be prepared for shipment and operated in accordance with the Operating Procedures of Chapter 7 and the Maintenance Program of Chapter 8 of the application.
9. The package authorized by this certificate is hereby approved for use under the general license provisions of 10 CFR 71.17.
10. Transport by air of fissile material is not authorized.
11. Expiration date: September 30, 2022.

**CERTIFICATE OF COMPLIANCE  
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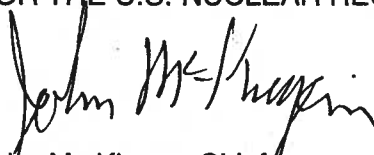
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REFERENCES

Westinghouse Electric Company application dated May 15, 2003.

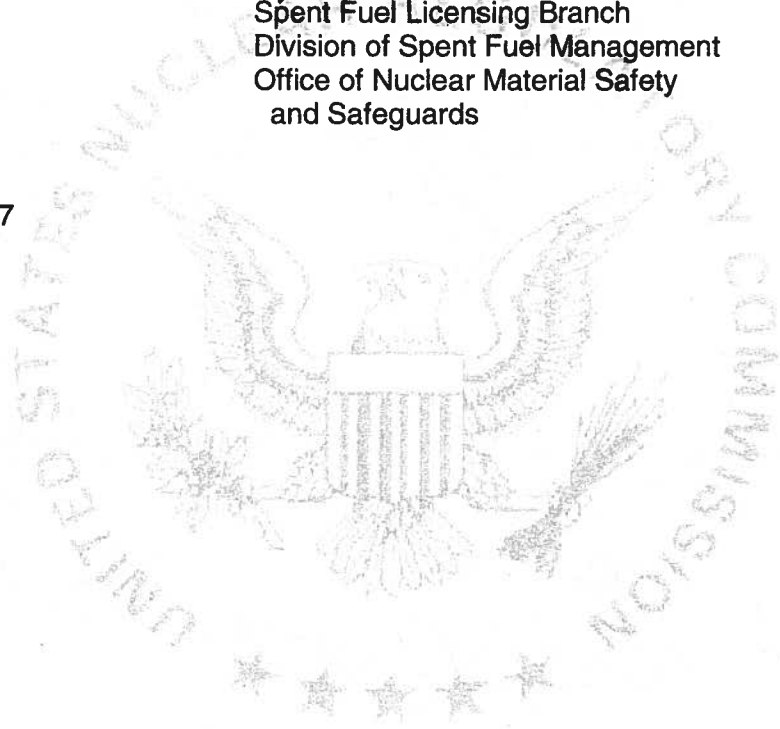
Supplements dated November 21, 2003; July 23, 2007; July 20, 2012; and September 6, 2017. |

FOR THE U.S. NUCLEAR REGULATORY COMMISSION



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

Date: September 12, 2017





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

**SAFETY EVALUATION REPORT**

**Docket No. 71-9274  
Model No. ABB-2901 Package  
Certificate of Compliance No. 9274  
Revision No. 10**

**SUMMARY**

By letter dated September 6, 2017, Westinghouse Electric Company, LLC. requested renewal of the Certificate of Compliance (CoC) No. 9274 for the Model No. ABB-2901 package. The Certificate of Compliance No. 9274, Revision No. 10, was renewed for five years.

**EVALUATION**

By letter dated September 6, 2017, Westinghouse Electric Company, LLC. requested renewal of CoC No. 71-9274 for the Model No. ABB-2901 package. No changes in the package design, operating procedures, acceptance tests and maintenance program or contents of the package were requested.

The staff reviewed the documents referenced in the Certificate of Compliance, Revision No. 9, and determined that the package application was complete.

**CONDITIONS**

Condition No. 11 has been revised to extend the CoC expiration date to September 30, 2022.

The References section was updated to include the renewal request dated September 6, 2017.

**CONCLUSION**

Based on the statements and representations in the application, as supplemented, and the conditions listed above, the staff concludes that the Model No. ABB-2901 package design has been adequately described and evaluated and that these changes do not affect the ability of the package to meet the requirements of 10 CFR Part 71.

Issued with Certificate of Compliance No. 9274, Revision No. 10,  
on September 12, 2017.