

**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
P.O. Box 355
Pittsburgh, PA 15230-0355

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

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(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 ± 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. Revision No. 7 of this certificate may be used until August 31, 2008.
12. Expiration date: September 30, 2012.

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REFERENCES

Westinghouse Electric Company application dated May 15, 2003.

Supplements dated November 21, 2003, and July 23, 2007.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION



Robert A. Nelson, Chief
Licensing Branch
Division of Spent Fuel Storage and Transportation
Office of Nuclear Material Safety
and Safeguards

Date: August 23, 2007



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

SAFETY EVALUATION REPORT

Docket No. 71-9274
Model No. ABB-2901
Certificate of Compliance No. 9274
Revision No. 8

SUMMARY

By application dated July 23, 2007, Westinghouse Electric Company (Westinghouse) requested renewal of Certificate of Compliance No. 9274, for its Model No. ABB-2901 shipping package. Westinghouse made its request in a timely manner. Westinghouse did not request any changes to the package design or authorized contents. The certificate has been renewed for a five-year term.

EVALUATION

By application dated July 23, 2007, Westinghouse requested renewal of Certificate of Compliance No. 9274, for Model No. ABB-2901 shipping package [USA/9274/AF]. Westinghouse did not request any changes to the package design or authorized contents

On January 26, 2004, the U.S. Nuclear Regulatory Commission (NRC) published its final rule revising Title 10 Code of Federal Regulations (10 CFR) Part 71, "Packing and Transportation of Radioactive Material." NRC revised Part 71 to address compatibility with the International Atomic Energy Agency's transportation safety standards, "Regulation of the Safe Transport of Radioactive Material" (TS-R-1) and other transportation safety amendments. The revised 10 CFR Part 71 final rule was published in *Federal Register* (69 FR 3698). This rule became effective on October 1, 2004.

The NRC staff has determined that as a result of changes made to 10 CFR Part 71 several changes to Certificate of Compliance No. 9274 are necessary to ensure compatibility. Therefore, the following changes were made to Certificate of Compliance No. 9274:

1. Condition 5(a)(2) - Revise wording from:

"Transport Index for Criticality Control (Criticality Safety Index)

Minimum transport index to be shown
on label for nuclear criticality control: 0.5"

to:

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

As part of the 10 CFR Part 71 revision packages containing fissile material are required to be labeled with a "Criticality Safety Index" rather than a "Transport Index."

2. Condition 9 - Revise wording from:

“The package authorized by this certificate is hereby approved for use under the general license provisions of 10 CFR 71.12.”

to:

“The package authorized by this certificate is hereby approved for use under the general license provisions of 10 CFR 71.17.”

As part of the 10 CFR Part 71 revision certain sections were renumbered with no substantial change to the renumbered section.

3. Condition 10 - A new condition was added as Condition 10 and the remaining conditions were renumbered:

“Transport by air of fissile material is not authorized.”

As part of the 10 CFR Part 71 revision a new Section, 71.55(f), was included which addresses performance requirements for packages transporting fissile material by air. Since this package was not evaluated to that new requirement, the Certificate of Compliance has been revised to clarify that air transport of fissile material is not authorized.

CONCLUSION

The certificate has been renewed for a five year term that expires on September 30, 2012. This and the other changes discussed above 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. 8 on August 13, 2007.