

U.S. NUCLEAR REGULATORY COMMISSION  
CERTIFICATE OF COMPLIANCE  
For Radioactive Materials Packages

1.(a) Certificate Number	1.(b) Revision No.	1.(c) Package Identification No.	1.(d) Pages No.	1.(e) Total No. Pages
5341	4	USA/5341/B( )F	1	2

2. PREAMBLE

- 2.(a) This certificate is issued to satisfy Sections 173.393a, 173.394, 173.395, and 173.396 of the Department of Transportation Hazardous Materials Regulations (49 CFR 170-189 and 14 CFR 103) and Sections 146-19-10a and 146-19-100 of the Department of Transportation Dangerous Cargoes Regulations (46 CFR 146-149), as amended.
- 2.(b) The packaging and contents described in item 5 below, meets the safety standards set forth in Subpart C of Title 10, Code of Federal Regulations, Part 71, "Packaging of Radioactive Materials for Transport and Transportation of Radioactive Material Under Certain Conditions."
- 2.(c) 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—

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|---|--|
| 3.(a) Prepared by (Name and address):<br><br>The Babcock & Wilcox Company<br>P. O. Box 785<br>Lynchburg, VA 24505 | 3.(b) Title and identification of report or application:<br><br>Babcock & Wilcox application dated June 23,<br>1967, as supplemented |
| 3.(c) Docket No. 71-5341  |  |

4. CONDITIONS

This certificate is conditional upon the fulfilling of the requirements of Subpart D of 10 CFR 71, as applicable, and the conditions specified in item 5 below.

5. Description of Packaging and Authorized Contents, Model Number, Fissile Class, Other Conditions, and References:

(a) Packaging

(1) Model No.: NFP-55

(2) Description

Packaging as described and constructed in accordance with DOT Specification 6M except: (i) the containment vessel is limited to a 5-inch Schedule 40 steel pipe with threaded cap closure and welded bottom plate; (ii) the outside drum must have at least 55-gallon capacity; and, (iii) the sides and ends of the containment vessel must have at least 7 inches of insulation with the radial clearance between the insulation and the outer shell not exceeding 5/8 inch.

(b) Contents

(1) Type and form of material

Uranyl nitrate or uranium oxides, of any enrichment in the U-235 isotope, provided the H/U-235 ratio does not exceed 20, considering all sources of moderation within the inner container.

(2) Maximum quantity of material per package

Not more than 3.6 kilograms U-235 in a volume not to exceed 3.6 liters.

5. (c) Fissile Class II and III
- (1) Minimum number transport index to be shown on label for Class II 1.3
- (2) Maximum number of packages per shipment for Class III 40 packages
6. Pipe cap closure on the Schedule 40 pipe shall be sealed with teflon tape.
7. The package authorized by this certificate is hereby approved for use under the general license provisions of 10 CFR §71.12(b).
8. Expiration date: October 31, 1984.

REFERENCES

The Babcock & Wilcox Company application dated June 23, 1967.

Supplements dated: January 5, 1970; and May 14, 1980.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

*R H Odegaard*

Charles E. MacDonald, Chief  
Transportation Certification Branch  
Division of Fuel Cycle and  
Material Safety

Date: JUL 07 1980