

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
6273	4	USA/6273/AF	1	3

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--

3.(a) Prepared by (Name and address): Allied Chemical Corporation P.O. Box 430 Metropolis, IL 62960	3.(b) Title and identification of report or application: Allied-General Nuclear Services application dated April 29, 1975, as supplemented.
	3.(c) Docket No. 71-6273

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 Nos.: 48A, 48X, 48F, and 48Y

(2) Description

Metal 48-inch UF₆ cylinders as described in Section 7, ORO-651, Rev. 3.

(b) Contents

(1) Type and form of material

(i) Uranium hexafluoride (UF₆) heels.

(ii) Uranium hexafluoride (UF₆) in solid form which meets the requirements as low specific activity material as defined in 10 CFR §71.4(g).

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8011180 : 84C

5. (b) Contents (continued)

(2) Maximum quantities of material per package

(i) For the contents described in 5(b)(1)(i):

Type A quantities of fissile radioactive material with a maximum U-235 enrichment, pounds UF₆, and U-235 content for the cylinder models as follows:

Model Number	Max. Enrichment w/o U-235	Max. UF ₆ Pounds	Max. U-235 kgs
48A, 84X 48F, 48Y	4.5	50.0	0.690

(ii) For the contents described in 5(b)(1)(ii):

Maximum U-235 enrichment, pounds UF₆, and U-235 content for the cylinder models as follows:

Model Number	Max. Enrichment w/o U-235	Max. UF ₆ Pounds	Max. U-235 kgs
48Y, 48A	1.0	21,030	64.5
48f	1.0	27,030	82.9
48Y	1.0	27,560	84.5

(c) Fissile Class:

For the contents described in 5(b)(1)(i) and limited in 5(b)(2)(i).

Fissile Class I

6. Valve protectors shall be provided as described in ORO-651, Rev. 3.
7. The fabrication, assembly, testing, maintenance, and use of packagings shall be in accordance with the requirements of ORO-651, Rev. 3. Tolerance dimensions for the Model No. 48-Y cylinder may be in accordance with Attachment I to Virginia Electric and Power Company letter dated December 20, 1976.
8. For the contents described in 5(b)(1)(ii) and limited in 5(b)(2)(ii) the package shall be transported on a motor vehicle, railroad car, aircraft, inland water craft, or hold or deck of a seagoing vessel assigned for the sole use of the shipper.

9. The packages authorized by this certificate are hereby approved for use under the general license provisions of 10 CFR §71.12(b).
10. Expiration date: November 30, 1985.

REFERENCES

Allied-General Nuclear Services application dated April 29, 1975.

Supplement dated: July 29, 1975.

Fissile Class I Shipment of Uranium Hexafluoride "Heel" Cylinders, K-L-6249, Rev. 1, June 5, 1974.

Uranium Hexafluoride Handling Procedures and Container Criteria, ORO-651, Rev. 3, August 1972.

Additional supplement for the Model No. 48-Y packaging: Virginia Electric and Power Company supplement dated December 20, 1976.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

R. H. Odegaard

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

Date: NOV 06 1980