



U.S. Department
of Transportation

Pipeline and
Hazardous Materials
Safety Administration

COMPETENT AUTHORITY CERTIFICATION

FOR A FISSILE

RADIOACTIVE MATERIALS PACKAGE DESIGN

CERTIFICATE USA/0411/AF-96, REVISION 13

East Building, PHH-23
1200 New Jersey Ave.,
Washington, D.C. 20590

The Competent Authority of the United States certifies that the radioactive material package design described in this certificate satisfies the regulatory requirements for a Type AF package as prescribed in the regulations of the International Atomic Energy Agency¹ and the United States of America². The package design is approved for use within the United States for import and export shipments made in accordance with applicable international and domestic transport regulations.

1. Package Identification - Cylinder Model 30B.
2. Package Description - The packagings authorized by this certificate are bare metal cylinders (no outer protective packing required) which are designed, fabricated, inspected and marked in accordance with American National Standards Institute (ANSI) N14.1 standard in effect at the time of manufacture.
3. Authorized Radioactive Contents - The cylinders authorized by this certificate may contain fissile, non-fissile or fissile-excepted quantities of residual (heels) uranium hexafluoride as described and limited by Table 1. Minimum criticality safety index for cylinders containing fissile quantities is 0.0. A criticality safety index is not required for cylinders containing fissile excepted or non-fissile quantities.

TABLE 1 - Allowable Content of Uranium Hexafluoride (UF₆) "Heels" in an ANSI N14.1 Cylinder

Maximum cylinder diameter		Cylinder Volume		Maximum Uranium-235 enrichment (weight percent)	Maximum "heel" weight per cylinder			
Inches	Centi-meters	Cubic Feet	Liters		UF ₆		Uranium-235	
					kg	lb	kg	lb
30	76.0	25.64	725	5	11.3	25	0.383	0.84

4. General Conditions -
 - a. Each user of this certificate must have in his possession a copy of this certificate and all documents necessary to properly prepare the package for transportation. The user shall prepare the package for shipment in accordance with United States Enrichment Corporation Report USEC-651 and applicable regulations.

¹ "Regulations for the Safe Transport of Radioactive Material, 2012 Edition, No. SSR-6" published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

² Title 49, Code of Federal Regulations, Parts 100-199, United States of America.

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- b. Each user of this certificate, other than the original petitioner, shall register his identity in writing to the Office of Hazardous Materials Safety, (PHH-20), Pipeline and Hazardous Materials Safety Administration, U.S. Department of Transportation, Washington D.C. 20590-0001.
 - c. This certificate does not relieve any consignor or carrier from compliance with any requirement of the Government of any country through or into which the package is to be transported.
 - d. Records of Management System activities required by Paragraph 306 of the IAEA regulations¹ shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors in the United States exporting shipments under this certificate shall satisfy the applicable requirements of Subpart H of 10 CFR 71.
 - e. Each user of this certificate must periodically inspect, test, mark, repair, and modify cylinders in accordance with the ANSI N14.1 standard in effect at the time of the action.
5. Marking and Labeling - The package shall bear the marking USA/0411/AF-96 in addition to other required markings and labeling.
6. Expiration Date - This certificate expires on July 31, 2030. On July 31, 2025, this certificate supersedes all previous revisions of USA/0411/AF-96.

This certificate is issued in accordance with paragraph 816 of the IAEA Regulations and Section 173.472 of Title 49 of the Code of Federal Regulations, in response to a November 25, 2024 petition submitted by United States Enrichment Corporation, Piketon, OH, and in consideration of other information on file in this Office.

Certified by:



William Schoonover
Associate Administrator for Hazardous
Materials Safety

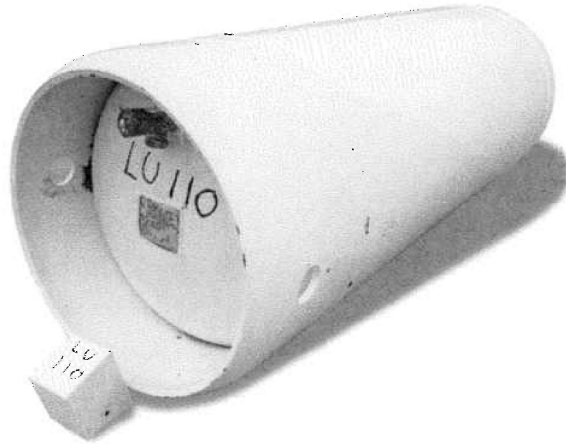
March 10, 2025

(DATE)

Revision 13 - Issued to extend the expiration date.

UF₆ Cylinder Model 30B

Nominal Diameter.....30 in. (76 cm)
 Nominal Length81 in. (206 cm)
 Wall Thickness.....1/2 in. (1.25 cm)
 Nominal Tare Weight.....1,400 lb (635 kg)
 Maximum Net Weight.....5,020 lb (2,277 kg)
 Nominal Gross Weight.....6,420 lb (2,912 kg)
 Minimum Volume26 ft³ (736 liters)
 Basic Material of ConstructionSteel
 (ASTM A-516)
 Service Pressure200 psig (1380 kPa gage)
 Hydrostatic Test Pressure.....400 psig
 (2760 kPa gage)
 Isotopic Content Limit5.0% ²³⁵U (max. with
 moderation control)

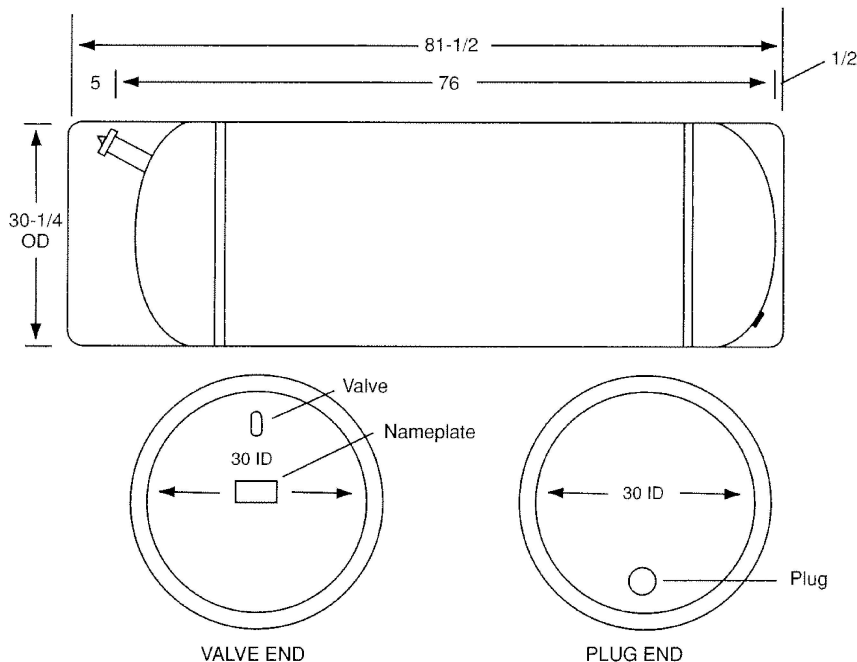


Cylinder Model 30B

Valve Used - Type 51 - 1-inch valve.

Note: Primarily used for low enriched UF₆ product.

Note: The 30B cylinder replaces the 30A cylinder which was similar in dimensions. The 30A has a concave shell with a Maximum Net Weight of 4950 pounds.



Schematic of Cylinder Model 30B



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1200 New Jersey Ave, SE
Washington, D.C. 20590

CERTIFICATE NUMBER: USA/0411/AF-96

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