## Research and Special Programs Admin., DOT

[Amdt. 173-244, 60 FR 50307, Sept. 28, 1995, as amended by Amdt. 173-244, 61 FR 20750, May 8, 1996; 65 FR 58630, Sept. 29, 2000; 66 FR 45380, Aug. 28, 2001; 67 FR 61014, Sept. 27, 2002]

## §173.418 Authorized packages pyrophoric Class 7 (radioactive) materials.

Pyrophoric Class 7 (radioactive) materials, as referenced in the \$172.101table of this subchapter, in quantities not exceeding A<sub>2</sub> per package must be transported in DOT Specification 7A packagings constructed of materials that will not react with, nor be decomposed by, the contents. Contents of the package must be—

(a) In solid form and must not be fissile unless excepted by §173.453;

(b) Contained in sealed and corrosion resistant receptacles with positive closures (friction or slip-fit covers or stoppers are not authorized);

(c) Free of water and contaminants that would increase the reactivity of the material; and

(d) Inerted to prevent self-ignition during transport by either—

(1) Mixing with large volumes of inerting materials, such as graphite, dry sand, or other suitable inerting material, or blended into a matrix of hardened concrete; or

(2) Filling the innermost receptacle with an appropriate inert gas or liquid.

(e) Pyrophoric Class 7 (radioactive) materials transported by aircraft must be packaged in Type B packages, as authorized in Column (8) of the §172.101 Table of this subchapter.

[Amdt. 173-244, 60 FR 50307, Sept. 28, 1995, as amended at 68 FR 45038, July 31, 2003]

## §173.419 Authorized packages—oxidizing Class 7 (radioactive) materials.

(a) An oxidizing Class 7 (radioactive) material, as referenced in the \$172.101 table of this subchapter, is authorized in quantities not exceeding an A<sub>2</sub> per package, in a DOT Specification 7A package provided that—

(1) The contents are:

(i) Not fissile:

(ii) Packed in inside packagings of

glass, metal or compatible plastic; and (iii) Cushioned with a material that will not react with the contents; and

(2) The outside packaging is made of wood, metal, or plastic.

(b) The package must be capable of meeting the applicable test requirements of §173.465 without leakage of contents.

(c) For shipment by air, the maximum quantity in any package may not exceed 11.3 kg (25 pounds).

[Amdt. 173-244, 60 FR 50307, Sept. 28, 1995, as amended at 66 FR 45380, Aug. 28, 2001]

## §173.420 Uranium hexafluoride (fissile, fissile excepted and nonfissile).

(a) In addition to any other applicable requirements of this subchapter, uranium hexafluoride, fissile, fissile excepted or non-fissile, must be offered for transportation as follows:

(1) Before initial filling and during periodic inspection and test, packagings must be cleaned in accordance with American National Standard N14.1.

(2) Packagings must be designed, fabricated, inspected, tested and marked in accordance with—

(i) American National Standard N14.1 (2001, 1995, 1990, 1987, 1982, 1971) (incorporated by reference, see §171.7 of this subchapter) in effect at the time the packaging was manufactured;

(ii) Specifications for Class DOT-106A multi-unit tank car tanks (§§179.300 and 179.301 of this subchapter); or

(iii) Section VIII, Division I of the ASME Code (incorporated by reference, see §171.7 of this subchapter), provided the packaging —

(A) Was manufactured on or before June 30, 1987;

(B) Conforms to the edition of the ASME Code in effect at the time the packaging was manufactured;

(C) Is used within its original design limitations; and

(D) Has shell and head thicknesses that have not decreased below the minimum value specified in the following table:

Packaging model	Minimum thickness; millimeters (inches)
1S, 2S 5A, 5B, 8A 12A, 12B 30B 48A, F, X, and Y 48T, O, OM, OM Allied, HX, H, AND G.	1.58 (0.062) 3.17 (0.125) 4.76 (0.187) 7.93 (0.312) 12.70 (0.500) 6.35 (0.250)