

## 2.3 Reportable Elements and Isotopes / Weight Units / Rounding

### 2.3.1 Reportable elements and isotopes

Table 2-1. Nuclear Material Reporting Units and Characteristics.

Name of Material	MT Code	Reporting Weight Unit Report to Nearest Whole Unit	Element Weight	Isotope Weight	Isotope Weight %
Depleted Uranium	10	Whole Kg	Total U	U-235	U-235
Enriched Uranium	20	Whole Gm	Total U	U-235	U-235
Plutonium-242 <sup>1</sup>	40	Whole Gm	Total Pu	Pu-242	Pu-242
Americium-241 <sup>2</sup>	44	Whole Gm	Total Am	Am-241	–
Americium-243 <sup>2</sup>	45	Whole Gm	Total Am	Am-243	–
Curium	46	Whole Gm	Total Cm	Cm-246	–
Californium	48	Whole Microgram	–	Cf-252	–
Plutonium	50	Whole Gm	Total Pu	Pu-239+Pu-241	Pu-240
Enriched Lithium	60	Whole Kg	Total Li	Li-6	Li-6
Uranium-233	70	Whole Gm	Total U	U-233	U-232 (ppm)
Normal Uranium	81	Whole Kg	Total U	–	–
Neptunium-237	82	Whole Gm	Total Np	–	–
Plutonium-238 <sup>3</sup>	83	Gm to tenth	Total Pu	Pu-238	Pu-238
Deuterium <sup>4</sup>	86	Kg to tenth	D <sub>2</sub> O	D <sub>2</sub>	
Tritium <sup>5</sup>	87	Gm to hundredth	Total H-3	–	–
Thorium	88	Whole Kg	Total Th	–	–
Uranium in Cascades <sup>6</sup>	89	Whole Gm	Total U	U-235	U-235

1 Report as Pu-242 if the contained Pu-242 is 20 percent or greater of total plutonium by weight; otherwise, report as Pu 239-241.

2 Americium and Neptunium-237 contained in plutonium as part of the natural in-growth process are not required to be accounted for or reported until separated from the plutonium.

3 Report as Pu-238 if the contained Pu-238 is 10 percent or greater of total plutonium by weight; otherwise, report as plutonium Pu 239-241.

4 For deuterium in the form of heavy water, both the element and isotope weight fields should be used; otherwise, report isotope weight only.

5 Tritium contained in water (H<sub>2</sub>O or D<sub>2</sub>O) used as a moderator in a nuclear reactor is not an accountable material.

6 Uranium in cascades is treated as enriched uranium and should be reported as material type 89.

### 2.3.2 Reportable weight units

Weights are reported in the metric weight units specified for each nuclear material as shown in Section 2.3.1, Reportable elements and isotopes.