Nuclear Regulatory Commission

§ 110.21

General license for the export of special nuclear material.

(a) Except as provided in paragraph (d) of this section, a general license is issued to any person to export the following to any country not listed in §110.28:

(1) Low-enriched uranium as residual contamination (17.5 parts per million or less) in any item or substance.

(2) Plutonium containing 80 percent or more by weight of plutonium-238 in cardiac pacemakers.

(3) Special nuclear material, other than plutonium-236 and plutonium-238, in sensing components in instruments, if no more than 3 grams of enriched uranium or 0.1 gram of plutonium or uranium-233 are contained in each sensing component.

(4) Plutonium–236 and plutonium–238 when contained in a device, or a source for use in a device, in quantities of less than $3.7 \times 10^{-3}$ TBoq (100 millicuries) of alpha activity (189 micrograms plutonium–236, 5.88 milligrams plutonium–238) per device or source.

(b) Except as provided in paragraph (d) of this section, a general license is issued to any person to export the following to any country not listed in §110.28 or §110.29:

(1) Special nuclear material, other than plutonium-236 and plutonium-238, in individual shipments of 0.001 effective kilogram or less (e.g., 1.0 gram of plutonium, uranium–233 or uranium–235, or 10 kilograms of 1 percent enriched uranium), not to exceed 0.1 effective kilogram per calendar year to any one country.

(2) Special nuclear material in fuel elements as replacements for damaged or defective unirradiated fuel elements previously exported under a specific license, subject to the same terms as the original export license and the condition that the replaced fuel elements must be returned to the United States within a reasonable time period.

(3) Uranium, enriched to less than 20 percent in uranium–235, in the form of uranium hexafluoride (UF6) heels in cylinders being returned to suppliers in EURATOM.

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(2) Special nuclear material in fuel elements as replacements for damaged or defective unirradiated fuel elements previously exported under a specific license, subject to the same terms as the original export license and the condition that the replaced fuel elements must be returned to the United States within a reasonable time period.

(3) Uranium, enriched to less than 20 percent in uranium–235, in the form of uranium hexafluoride (UF6) heels in cylinders being returned to suppliers in EURATOM.

(c) Except as provided in paragraph (d) of this section, a general license is
§ 110.22 General license for the export of source material.

(a) Except as provided in paragraph (e) of this section, a general license is issued to any person to export the following to any country not listed in §110.28:

(1) Uranium or thorium, other than uranium–230, uranium–232, thorium–227, and thorium–228, in any substance in concentrations of less than 0.05 percent by weight.

(2) Thorium, other than thorium–227 and thorium-228, in incandescent gas mantles or in alloys in concentrations of 5 percent or less.

(3) Thorium–227, thorium–228, uranium–230, and uranium–232 when contained in a device, or a source for use in a device, in quantities less than \(3.7 \times 10^{-3}\) TBq (100 millicuries) of alpha activity (3.12 micrograms thorium-227, 122 micrograms thorium-228, 3.7 micrograms uranium-230, 4.7 milligrams uranium-232) per device or source.

(b) Except as provided in paragraph (e) of this section, a general license is issued to any person to export uranium or thorium, other than uranium–230, uranium–232, thorium–227, or thorium–228, in individual shipments of 10 kilograms or less to any country not listed in §110.28 or §110.29, not to exceed 1,000 kilograms per calendar year to any one country when the uranium or thorium is Canadian-obligated.

(c) Except as provided in paragraph (e) of this section, a general license is issued to any person to export uranium or thorium, other than uranium–230, uranium–232, thorium–227, or thorium–228, in individual shipments of 1 kilogram or less, not to exceed 100 kilograms per calendar year to any one country.

(d) Except as provided in paragraph (e) of this section, a general license is issued to any person to export uranium–230, uranium–232, thorium–227, or thorium–228 in individual shipments of 10 kilograms or less to any country listed in §110.30, not to exceed 1,000 kilograms per calendar year to any one country when the uranium or thorium is Canadian-obligated.

(e) Paragraphs (a), (b), (c), and (d) of this section do not authorize the export under general license of source material in radioactive waste.

§ 110.23 General license for the export of byproduct material.

(a) A general license is issued to any person to export byproduct material (see Appendix L to this part) to any country not listed in §110.28 and subject to the following limitations:

(1) The general license in this section does not authorize the export of byproduct material in the form of radioactive waste.

(2) The general license in this section does not authorize the export of the following radionuclides:

- Americium–242m
- Californium–249
- Californium–251
- Curium–245
- Curium–247

(3) For byproduct materials listed in Table 1 of Appendix P to this part, individual shipments under a general license for export must be less than the terabecquerel (TBq) values specified in Category 2 of Table 1 unless a more restrictive requirement applies.

(4) The general license authorizes exports of the following radionuclides when contained in a device, or a source for use in a device, in quantities less than \(3.7 \times 10^{-3}\) TBq (100 millicuries) of alpha activity per device or source, unless the export is to a country listed in §110.30.