program approved by the Commission as satisfying the provisions of Subpart H

of this part.

(c) This general license applies only when a package contains no more than a Type A quantity of radioactive material and no more than 400 g total of the fissile radionuclides of plutonium encapsulated as plutonium-beryllium neutron sources in special form.

- (d) This general license applies only when the fissile radionuclides in the shipment exceed none of the following:
 - (1) 500 g of uranium-235;
- (2) 300 g total of uranium-233, and the fissile radionuclides of plutonium;
- (3) A total quantity of uranium-233, uranium-235, and the fissile radionuclides of plutonium so that the sum of the ratios of the quantity of each radionuclide to the quantity specified in paragraphs (d)(1) and (d)(2) of this section does not exceed unity; or
- (4) 2500 g total of the fissile radionuclides of plutonium encapsulated as plutonium-beryllium neutron sources in special form.
- (e) This general license applies only when shipment of these packages is made under procedures specifically authorized by DOT, in accordance with 49 CFR part 173 of its regulations, to

prevent loading, transport, or storage of these packages with other fissile material shipments.

§71.24 General license: Fissile material, limited moderator, controlled shipment.

- (a) A general license is issued to any licensee of the Commission to transport fissile material, or to deliver fissile material to a carrier for transport, without complying with the package standards of subparts E and F of this part, if limited material is shipped in accordance with this section.
- (b) The general license applies only to a licensee who has a quality assurance program approved by the Commission as satisfying the provisions of subpart H of this part.
- (c) This general license applies only when—
- No package contains more than a Type A quantity of radioactive material;
- (2) The packaging does not incorporate lead shielding exceeding 5 cm in thickness, tungsten shielding, or uranium shielding;
- (3) Neither beryllium nor hydrogenous material enriched in deuterium is present;
- (4) The total mass of graphite present does not exceed 7.7 times the total mass of uranium-235 and plutonium;

- (5) Substances having a higher hydrogen density than water (e.g., certain hydrocarbon oils), are not present, except that polyethylene may be used for packing or wrapping;
- (6) For fissile contents containing no uranium-233 and less than 1 percent by weight total plutonium, if the fissile radionuclides are—
- (i) Not uniformly distributed, the maximum amount of uranium-235 per consignment does not exceed the value given in Table III of this part; or
- (ii) Distributed uniformly and cannot form a lattice arrangement within the packaging, the maximum amount of uranium-235 per shipment does not exceed the value given in Table IV of this part;
- (7) For fissile contents containing uranium-233 or more than 1 percent by weight plutonium, the total mass of fissile material per shipment is limited so that the sum of the number of grams of uranium-235 divided by 400, the number of grams of plutonium divided by 225, and the number of grams of uranium-233 divided by 250, does not exceed unity, as expressed in the formula:

$$\frac{\text{grams uranium} - 235}{400 \text{ g}} + \frac{\text{grams plutonium}}{225 \text{ g}} + \frac{\text{grams uranium} - 233}{250 \text{ g}} \le 1;$$

- (8) The transport must be direct to the consignee without any intermediate transit storage; and
- (9) Shipment of these packages is made under procedures specifically authorized by DOT in accordance with 49 CFR part 173 of its regulations to prevent loading, transport, or storage of these packages with other fissile material shipments.

TABLE III.—PERMISSIBLE MASS OF URANIUM-235 PER FISSILE MATERIAL SHIPMENT APPLICABLE TO § 71.24(c)(6)(i)

[Nonuniform distribution]

Uranium enrichment in weight percent of uranium-235 not exceeding	Permissible maximum grams of uranium-235 per consign- ment
20	520
15	560
11	600
10	640
9.5	655
9	675

TABLE III.—PERMISSIBLE MASS OF URANIUM-235 PER FISSILE MATERIAL SHIPMENT APPLICABLE TO § 71.24(c)(6)(i)—Continued

[Nonuniform distribution]

Uranium enrichment in weight percent of uranium-235 not exceeding	Permissible maximum grams of uranium-235 per consign- ment
8.5	690
8	710
7.5	730
7	750
6.5	780
6	810
5.5	850
5	900
4.5	950
4	1,000
3.5	1,100
3	1,250
2.5	1,500
2	2,050
1.5	3,400
1.35	4,000
1	8,500
0.92	15,000

TABLE IV.—PERMISSIBLE MASS OF URANIUM-235 PER FISSILE MATERIAL SHIPMENT APPLICABLE TO § 71.24(c)(6)(ii)

[Uniform distribution]

Uranium enrichment in weight percent of uranium-235 not exceeding	Permissible maximum grams of uranium-235 per consign- ment
4	1,050 1,150 1,400 1,800 3,000 7,000

Subpart D—Application for Package Approval

§71.31 Contents of application.

- (a) An application for an approval under this part must include, for each proposed packaging design, the following information:
- (1) A package description as required by § 71.33;