4731.0411 GENERAL LICENSE; PLUTONIUM-BERYLLIUM SPECIAL FORM MATERIAL.

Subpart 1. **Transport of plutonium-beryllium.** A general license is issued to any licensee of the commissioner to transport fissile material in the form of plutonium-beryllium (Pu-Be) special form sealed sources, or to deliver Pu-Be sealed sources to a carrier for transport, if the material is shipped according to this part. The material need not be contained in a package that meets the requirements of part 4731.0412 and Code of Federal Regulations, title 10, sections 71.41 to 71.77; however, the material must be contained in a Type A package. The Type A package must also meet the DOT requirements of Code of Federal Regulations, title 49, section 173.417(a).

Subp. 2. **Approved quality assurance program.** The general license issued under subpart 1 applies only to a licensee who has a quality assurance program approved by the NRC as complying with part 4731.0412 and Code of Federal Regulations, title 10, part 71, subpart H.

Subp. 3. **Package contents.** The general license issued under subpart 1 applies only when a package's contents:

A. contain no more than a Type A quantity of radioactive material; and

B. contain less than 1,000 grams of plutonium, provided that plutonium-239, plutonium-241, or any combination of these radionuclides, constitutes less than 240 grams of total quantity of plutonium in the package.

Subp. 4. **Packages labeled with criticality safety index.** The general license issued under subpart 1 applies only to packages labeled with a criticality safety index that:

A. has been determined according to subpart 5;

B. has a value less than or equal to 100; and

C. for a shipment of multiple packages containing Pu-Be sealed sources, the sum of the criticality safety indices must be less than or equal to 50 (for shipment on a nonexclusive use conveyance) and less than or equal to 100 (for shipment on an exclusive use conveyance).

Subp. 5. **Criticality safety index.**

A. The value for the criticality safety index must be greater than or equal to the number calculated by the following equation:

$$\text{CSI} = 10 \left[\frac{\text{grams of } {}^{239}\text{Pu} + \text{grams of } {}^{241}\text{Pu}}{24} \right]$$

B. The calculated criticality safety index must be rounded up to the first decimal place.

Statutory Authority: *MS s 144.1202; 144.1203*

History: *29 SR 755; 32 SR 831*

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