13. In §172.403, the section heading, and paragraphs (b), (c), (d), (g)(1) and (g)(2) are revised to read as follows:

## §172.403 Class 7 (radioactive) material. \*

\*

\*

\*

(b) The proper label to affix to a package of Class 7 (radioactive) material is based on the radiation level at the

\*

surface of the package and the transport index. The proper category of label must be determined in accordance with paragraph (c) of this section. The label to be applied must be the highest category required for any of the two determining conditions for the package. RADIOACTIVE WHITE-I is the lowest category and RADIOACTIVE YELLOW-

III is the highest. For example, a package with a transport index of 0.8 and a maximum surface radiation level of 0.6 millisievert (60 millirems) per hour must bear a RADIOACTIVE YELLOW-III label.

(c) Category of label to be applied to Class 7 (radioactive) materials packages:

Transport index	Maximum radiation level at any point on the external surface	Label category <sup>1</sup>
02	Less than or equal to 0.005 mSv/h (0.5 mrem/h).	WHITE–I.
More than 0 but not more than 1	Greater than 0.005 mSv/h (0.5 mrem/h) but less than or equal to 0.5 mSv/h (50 mrem).	YELLOW–II.
More than 1 but not more than 10	Greater than 0.05 mSv/h (50 mrem) but less than or equal to 2 mSv/h (200 mrem/h).	YELLOW-III.
More than 10	Greater than 2 mSv/h (200 mrem/h) but less than or equal to 10 mSv/h (1,000 mrem/h).	YELLOW-III (Must be shipped under exclu- sive use provisions; see 173.441(b) of this subchapter).

Any package containing a "highway route controlled quantity" (§ 173.403 of this subchapter) must be labelled as RADIOACTIVE YELLOW-III. <sup>2</sup> If the measured TI is not greater than 0.05, the value may be considered to be zero.

(d) *EMPTY* label. See §173.428(d) of this subchapter for EMPTY labeling requirements.

- \* \*
- (g) \* \* \*

(1) *Contents.* The name of the radionuclides as taken from the listing of radionuclides in §173.435 of this subchapter (symbols which conform to established radiation protection terminology are authorized, i.e., <sup>99</sup>Mo, <sup>60</sup>Co, etc.). For mixtures of radionuclides, with consideration of space available on the label, the radionuclides that must be shown must be determined in accordance with §173.433(f) of this subchapter.

(2) Activity. Activity units must be expressed in appropriate SI units (e.g., Becquerels (Bq), Terabecquerels (TBq), etc.) or in both appropriate SI units and appropriate customary units (Curies (Či), milliCuries (mCi), microcuries (uCi), etc.). Alternatively, the activity may be expressed solely in terms of curies until April 1, 1997. Abbreviations are authorized. Except for plutonium-238, plutonium-239, and plutonium-241, the weight in grams or kilograms of fissile radionuclides may be inserted instead of activity units. For plutonium-238, plutonium-239, and plutonium-241, the weight in grams or kilograms of fissile radionuclides may be inserted in addition to the activity units.

\* \* \* \*

14. In §172.407, paragraph (g) is added to read as follows:

#### §172.407 Label specifications. \* \* \* \*

(g) Trefoil symbol. The trefoil symbol on the RADIOACTIVE WHITE-I, RADIOACTIVE YELLOW-II, and

**RADIOACTIVE YELLOW-III labels** must meet the appropriate specifications in Appendix B of this part.

### §172.504 [Amended]

15. In §172.504, in Table 1 of paragraph (e), footnote one is revised to read as follows:

<sup>1</sup> RADIOACTIVE placard also required for exclusive use shipments of low specific activity material and surface contaminated objects transported in accordance with § 173.427(b)(3) or (c) of this subchapter.

16. In §172.507, paragraph (a) is revised to read as follows:

#### §172.507 Special placarding provisions: Highway.

(a) Each motor vehicle used to transport a package of highway route controlled quantity Class 7 (radioactive) materials (see §173.403 of this subchapter) must have the required RADIOACTIVE warning placard placed on a square background as described in §172.527.

\* \*

17. In §172.519, paragraph (g) is added to read as follows:

# §172.519 General specifications for placards.

\* \* \* \*

(g) Trefoil symbol. The trefoil symbol on the RADIOACTIVE placard must meet the appropriate specification in Appendix B of this part.

18. A new subpart I is added to part 172 to read as follows:

#### Subpart I—Radiation Protection Program Sec

172.801 Applicability of the radiation

- protection program.
- 172.803 Radiation protection program.
- 172.805 Recordkeeping and notifications.
- Transitional provisions. 172.807

# Subpart I—Radiation Protection Program

## §172.801 Applicability of the radiation protection program.

(a) *Scope*. This subpart prescribes requirements for developing and maintaining a radiation protection program.

(b) *Applicability*. This subpart applies to persons who offer for transportation, accept for transportation, or transports Class 7 (radioactive) materials.

#### §172.803 Radiation protection program.

Each person who offers for transportation, accepts for transportation, or transports Class 7 (radioactive) materials must develop, implement and maintain a written radiation protection program in accordance with the following:

(a) Radiation exposures must be kept as low as reasonably achievable (ALARA), with economic and social factors being taken into account.

(b) Radiation exposures must be control such that:

(1) An occupationally exposed hazmat employee's annual effective dose equivalent for occupational radiation exposure will not exceed 12.5 mSv (1.25 rem) in any 3 month period or 50 mSv (5 rem) in any 12 month period. For workers under the age of eighteen, the radiation dose will not exceed 1.250