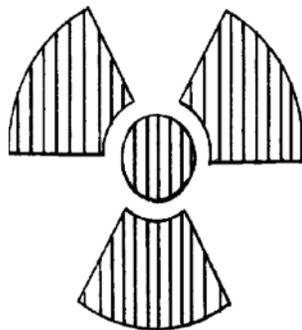


Sec. 19-24-8. Radiation information labeling

(a) (1) **Radiation symbol**

(A) The symbol shall use the conventional radiation caution colors (magenta or purple on yellow background). The symbol is the conventional three bladed design.



RADIATION SYMBOL

Cross hatched area shall be magenta or purple.

Background shall be yellow.

The boundaries of the three blades of the propeller-like symbol shall be confined within a 60° sector of the circle delineated by their outer edges and said blades shall be symmetrically distributed 60° apart. The radius (R) of the central circle of the symbol shall be the standard for its other dimensions as follows: Overall radius of symbol =5 R; shortest distance from circumference of central circle to inner edge of nearest blade =R/2.

(B) In addition to contents of signs and labels, any additional information which may be appropriate in aiding individuals to minimize exposure to radiation or to radioactive materials may be provided on or near such signs and labels.

(2) **Radiation areas**

(A) Each radiation area shall be conspicuously posted with a sign or signs bearing the radiation caution symbol and the words

CAUTION¹

RADIATION AREA

This provision shall not apply to areas or rooms where x-ray equipment is used solely for diagnostic purposes by or under the direction of a healing arts practitioner as authorized by law.

(3) **High radiation areas**

(A) Each high radiation area shall be conspicuously posted with a sign or signs bearing the radiation caution symbol and the words

CAUTION¹

HIGH RADIATION AREA

This provision shall not apply to areas or rooms where x-ray equipment is used solely for diagnostic purposes by or under the direction of a healing arts practitioner as authorized by law.

¹ The word "danger" may be substituted for the word "caution" in the signs and labels prescribed by this section.

(B) The department may require each high radiation area to be equipped with a control device which shall either cause the level of radiation to be reduced below that at which an individual might receive a dose of one hundred millirem in one hour upon entry into the area, or which shall energize a conspicuous, visible or audible alarm system in such a manner that the individuals entering are made aware of the entry. This provision shall not apply to mobile sources.

(4) Airborne radioactivity area

(A) As used in sections 19-24-1 to 19-24-14, inclusive, Airborne Radioactivity Area means any room, enclosure or area in which airborne radioactive materials exist in concentrations in excess of the amounts specified in Appendix B, Table 1, Column 1, 10 CFR 20 or any room, enclosure or area in which airborne radioactive material exists in concentrations which averaged over the number of hours in any week during which individuals are in the area exceed twenty-five per cent of the amounts specified in Appendix B, Table 1, Column 1, 10 CFR 20.

(B) Each airborne radioactivity area shall be conspicuously posted with a sign or signs bearing the radiation caution symbol and the words

CAUTION¹

AIRBORNE RADIOACTIVITY AREA

(5) Additional requirements

(A) Each area or room in which radioactive material is used or stored and which contains any radioactive material (other than natural uranium or thorium) in any amount exceeding ten times the quantity of such material specified in Appendix C, 10 CFR 20 shall be conspicuously posted with a sign or signs bearing the radiation caution symbol and the words

CAUTION¹

RADIOACTIVE MATERIAL(S)

(B) Each area or room in which natural uranium or thorium is used or stored in an amount exceeding one hundred times the quantity specified in Appendix C, 10 CFR 20 shall be conspicuously posted with a sign or signs bearing the radiation caution symbol, and the words

CAUTION¹

RADIOACTIVE MATERIAL(S)

(C) Each area or room in which sources of ionizing radiation other than radioactive materials are used shall be conspicuously posted with a sign or signs bearing the radiation caution symbol and appropriate wording to designate the nature of the source or sources of ionizing radiation (example below)

CAUTION¹

X-RAY

(6) Containers

(A) Each container in which is transported, stored, or used a quantity of any radioactive material (other than natural uranium or thorium) greater than the quantity of such material

specified in Appendix C, 10 CFR 20 shall bear a durable, visible label bearing the radiation symbol and the words

CAUTION¹

RADIOACTIVE MATERIAL

(B) Each container in which natural uranium or thorium is transported, stored or used in a quantity greater than ten times the quantity specified in Appendix C, 10 CFR 20 shall bear a durable, clearly visible label bearing the radiation caution symbol and the words

CAUTION¹

RADIOACTIVE MATERIAL

(C) A label shall not be required if the concentration of the material in the container does not exceed that specified in Appendix B, Table 1, Column 2, 10 CFR 20.

(D) When containers are used for storage, the labels required shall state also the quantities and kinds of radioactive materials in the containers and the date of measurement of the quantities.

(b) (1) A room or area is not required to be posted with a caution sign because of the presence of a sealed source if the radiation level twelve inches from the surface of the source container or housing does not exceed five millirem per hour.

(2) Rooms or other areas in hospitals are not required to be posted with caution signs because of the presence of patients containing radioactive material, if there are personnel in attendance who shall take the precautions necessary to prevent the exposure of any individual to radiation or radioactive material in excess of the limits established in subsections (a), (b), (c) and (d) of section 19-24-5.

(3) Caution signs are not required to be posted at areas or rooms containing radioactive materials for periods of less than eight hours if the materials are constantly attended during such periods by an individual who shall take the precautions necessary to prevent the exposure of any individual to radiation or radioactive materials in excess of the limits established in subsections (a), (b), (c) and (d) of section 19-24-5.

(Effective October 1, 1982)