

4731.2090 RADIATION DOSE LIMITS FOR THE PUBLIC.

Subpart 1. **Dose limits.** A licensee must conduct operations so that:

A. the total effective dose equivalent to individual members of the public from the licensed operation does not exceed 0.1 rem (1 mSv) in a year, exclusive of the dose contributions from background radiation, from any medical administration the individual has received, from exposure to individuals administered radioactive material and released according to part 4731.4427, from voluntary participation in medical research programs, and from the licensee's disposal of radioactive material into sanitary sewerage according to part 4731.2420; and

B. the dose in any unrestricted area from external sources, exclusive of the dose contributions from patients administered radioactive material and released according to part 4731.4427, does not exceed 0.002 rem (0.02 mSv) in any one hour.

Subp. 2. **Access to controlled areas.** If a licensee permits members of the public to have access to controlled areas, the limits for members of the public continue to apply to those individuals.

Subp. 3. **Exception.** Notwithstanding subpart 1, item A, a licensee may permit visitors to an individual who cannot be released under part 4731.4427 to receive a radiation dose greater than 0.1 rem (1 mSv) if:

A. the radiation dose received does not exceed 0.5 rem (5 mSv); and

B. the authorized user under part 4731.4427 has determined before the visit that the visit is appropriate.

Subp. 4. **Prior authorization.** A licensee or license applicant may apply for prior authorization from the commissioner to operate up to an annual dose limit for an individual member of the public of 0.5 rem (5 mSv). The licensee or applicant must include in the application for prior authorization:

A. a demonstration of the need for and the expected duration of operations in excess of the limit under subpart 1;

B. a description of the licensee's program to assess and control the dose within the 0.5 rem (5 mSv) annual limit; and

C. the procedures to be followed to maintain the dose as low as is reasonably achievable.

Subp. 5. **Federal law.** In addition to the requirements of this part, a licensee subject to Code of Federal Regulations, title 40, part 190, must comply with those standards.

Subp. 6. **Additional restrictions.** The commissioner may impose additional restrictions on radiation levels in unrestricted areas and on the total quantity of radionuclides

that a licensee may release in effluents in order to restrict the collective dose to individual members of the public.

Statutory Authority: *MS s 144.1202; 144.1203*

History: *29 SR 755*

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