

4731.2095 COMPLIANCE; DOSE LIMITS FOR THE PUBLIC.

Subpart 1. **Surveys required.** A licensee must make or cause to be made, as appropriate, surveys of radiation levels in unrestricted and controlled areas and radioactive materials in effluents released to unrestricted and controlled areas to demonstrate compliance with the dose limits for individual members of the public under part 4731.2090.

Subp. 2. **Showing compliance.** A licensee must show compliance with the annual dose limit under part 4731.2090 by:

A. demonstrating by measurement or calculation that the total effective dose equivalent to the individual likely to receive the highest dose from the licensed operation does not exceed the annual dose limit; or

B. demonstrating that:

(1) the annual average concentrations of radioactive material released in gaseous and liquid effluents at the boundary of the unrestricted area do not exceed the values under part 4731.2750, subpart 7, Table 2; and

(2) if an individual were continuously present in an unrestricted area, the dose from external sources would not exceed 0.002 rem (0.02 mSv) in an hour and 0.05 rem (0.5 mSv) in a year.

Subp. 3. **Adjustments.** Upon approval from the commissioner, a licensee may adjust the effluent concentration values under part 4731.2750, subpart 7, Table 2, for members of the public, to take into account the actual physical and chemical characteristics of the effluents, for example, aerosol size distribution, solubility, density, radioactive decay equilibrium, or chemical form.

Statutory Authority: *MS s 144.1202; 144.1203*

History: *29 SR 755*

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