

4731.2210 INDIVIDUAL MONITORING; EXTERNAL AND INTERNAL OCCUPATIONAL DOSE.

Subpart 1. **General requirement.** A licensee must monitor exposures to radiation and radioactive material at levels sufficient to demonstrate compliance with the occupational dose limits of parts 4731.2000 to 4731.2950. At a minimum, a licensee must comply with this part.

Subp. 2. **External dose.** A licensee must monitor occupational exposure to radiation from licensed and unlicensed radiation sources under the control of the licensee and must supply and require the use of individual monitoring devices by:

A. adults likely to receive, in one year from sources external to the body, a dose in excess of ten percent of the limits in part 4731.2020, subpart 1;

B. minors likely to receive, in one year from radiation sources external to the body, a deep dose equivalent in excess of 0.1 rem (1 mSv), a lens dose equivalent in excess of 0.15 rem (1.5 mSv), or a shallow dose equivalent to the skin or to the extremities in excess of 0.5 rem (5 mSv);

C. declared pregnant women likely to receive, during the entire pregnancy from radiation sources external to the body, a deep dose equivalent in excess of 0.1 rem (1 mSv). All of the occupational doses under part 4731.2020 continue to be applicable to the declared pregnant worker as long as the embryo/fetus dose limit is not exceeded; and

D. individuals entering a high or very high radiation area.

Subp. 3. **Internal dose.** A licensee must monitor, as required under part 4731.2050, the occupational intake of radioactive material by and assess the committed effective dose equivalent to:

A. adults likely to receive, in one year, an intake in excess of ten percent of the applicable ALIs in part 4731.2750, subpart 7, Table 1, columns 1 and 2;

B. minors likely to receive, in one year, a committed effective dose equivalent in excess of 0.1 rem (1 mSv); and

C. declared pregnant women likely to receive, during the entire pregnancy, a committed effective dose equivalent in excess of 0.1 rem (1 mSv).

Statutory Authority: *MS s 144.1202; 144.1203*

History: *29 SR 755*

Published Electronically: *March 12, 2009*