

**4731.7210 OPERATING AND EMERGENCY PROCEDURES.**

Subpart 1. **Requirement.** A licensee must develop and follow written operating and emergency procedures.

Subp. 2. **Operating and emergency procedures.** A licensee's written operating and emergency procedures must address:

A. the handling and use of licensed materials, including the use of sealed sources in wells without surface casing for protecting freshwater aquifers, if appropriate;

B. the use of remote handling tools for handling sealed sources and radioactive tracer material, except low-activity calibration sources;

C. methods and occasions for conducting radiation surveys, including surveys for detecting contamination, as required under part 4731.7230, subpart 2, items B to D;

D. minimizing personnel exposure, including exposures from inhalation and ingestion of licensed tracer materials;

E. methods and occasions for locking and securing stored licensed materials;

F. personnel monitoring and the use of personnel monitoring equipment;

G. transportation of licensed materials to field stations or temporary job sites, packaging of licensed materials for transport in vehicles, placarding of vehicles when needed, and physically securing licensed materials in transport vehicles during transportation to prevent accidental loss, tampering, or unauthorized removal;

H. picking up, receiving, and opening packages containing licensed materials, according to part 4731.2350;

I. for the use of tracers, decontamination of the environment, equipment, and personnel;

J. maintenance of records generated by logging personnel at temporary job sites;

K. inspection and maintenance of sealed sources, source holders, logging tools, injection tools, source handling tools, storage containers, transport containers, and uranium sinker bars as required under part 4731.7110;

L. identifying and reporting to the commissioner and the NRC regarding defects and noncompliance, as required under Code of Federal Regulations, title 10, part 21;

M. notifying proper persons, including the licensee's radiation safety officer and the commissioner, in the event of an accident or incident or abandonment of a source;

N. actions to be taken if a sealed source is lodged or damaged in a well; and

- O. actions to be taken if a sealed source is ruptured, including:
- (1) prevention of the spread of contamination;
  - (2) minimization of inhalation and ingestion of licensed materials; and
  - (3) obtaining and using suitable radiation survey instruments as required under part 4731.7060, subpart 2.

**Statutory Authority:** *MS s 144.1202; 144.1203*

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