

4731.6170 OPERATING AND EMERGENCY PROCEDURES.

Subpart 1. **Operating procedures.** A licensee must have and follow written operating procedures for:

- A. operation of the irradiator, including entering and leaving the radiation room;
- B. use of personnel dosimeters;
- C. surveying the shielding of panoramic irradiators;
- D. monitoring pool water for contamination while the water is in the pool and before release of pool water to unrestricted areas;
- E. leak testing of sources;
- F. inspection and maintenance checks required under part 4731.6210;
- G. loading, unloading, and repositioning sources, if the operations will be performed by the licensee; and
- H. inspection of movable shielding required under part 4731.6060, subpart 1, item H, if applicable.

Subp. 2. **Emergency procedures.** A licensee must have and follow emergency or abnormal event procedures, appropriate for the irradiator type, for:

- A. sources stuck in the unshielded position;
- B. personnel overexposures;
- C. a radiation alarm from the product exit portal monitor or pool monitor;
- D. detection of leaking sources, pool contamination, or an alarm caused by contamination of pool water;
- E. a low or high water level indicator, an abnormal water loss, or leakage from the source storage pool;
- F. a prolonged loss of electrical power;
- G. a fire alarm or explosion in the radiation room;
- H. an alarm indicating unauthorized entry into the radiation room, area around the pool, or another alarmed area;
- I. natural phenomena, including an earthquake, a tornado, flooding, or other phenomena as appropriate for the geographical location of the facility; and
- J. the jamming of automatic conveyor systems.

Subp. 3. **Revision of procedures.** A licensee may revise operating and emergency procedures without commissioner approval only if:

- A. the revisions do not reduce the safety of the facility;
 - B. the revisions are consistent with the outline or summary of procedures submitted with the license application;
 - C. the revisions have been reviewed and approved by the radiation safety officer;
- and
- D. the users or operators have been instructed and tested on the revised procedures before the procedures are put into use.

Statutory Authority: *MS s 144.1202; 144.1203*

History: *29 SR 755*

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