

4731.4473 REMOTE AFTERLOADER UNITS; PERIODIC SPOT CHECKS.

Subpart 1. **Spot check required.** A licensee authorized to use remote afterloader units for medical use must perform spot checks of each remote afterloader facility and on each unit:

- A. before the first use of a high dose-rate, medium dose-rate, or pulsed dose-rate remote afterloader unit on a given day;
- B. before each patient treatment with a low dose-rate remote afterloader unit; and
- C. after each source installation.

Subp. 2. **Written procedures.** A licensee must perform the measurements required under subpart 1 according to written procedures established by the authorized medical physicist. The authorized medical physicist need not actually perform the spot check measurement.

Subp. 3. **Review.** A licensee must have the authorized medical physicist review the results of each spot check within 15 days. The authorized medical physicist must notify the licensee as soon as possible in writing of the results of the spot check.

Subp. 4. **Minimum requirements.** To satisfy subpart 1, spot checks must, at a minimum, ensure proper operation of:

- A. electrical interlocks at each remote afterloader unit room entrance;
- B. source exposure indicator lights on the remote afterloader unit, on the control console, and in the facility;
- C. viewing and intercom systems in each high dose-rate, medium dose-rate, and pulsed dose-rate remote afterloader facility;
- D. emergency response equipment;
- E. radiation monitors used to indicate the source position;
- F. timer accuracy;
- G. date and time in the unit's computer; and
- H. decayed source activity in the unit's computer.

Subp. 5. **Malfunctions.** If the results of the checks required under subpart 4 indicate the malfunction of any system, a licensee must lock the control console in the off position and not use the unit except as may be necessary to repair, replace, or check the malfunctioning system.

Subp. 6. **Record retention.** A licensee must retain a record of each check required under subpart 4 and a copy of the procedures required under subpart 2 according to part 4731.4520.

Statutory Authority: *MS s 144.1202; 144.1203*

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