

4732.1000 REQUIREMENTS FOR X-RAY FLUORESCENT ANALYZERS AND BOMB DETECTION UNITS.

Subpart 1. **Applicability.** This part applies to the use of radiation-producing equipment in x-ray fluorescent analyzers or bomb detection units. The requirements of this part are in addition to any applicable requirements of this chapter.

Subp. 2. **Operating and emergency procedures.** A copy of the registrant's operating and emergency procedures must be available to the employees.

Subp. 3. **Instruction and training.** The registrant must provide initial system-specific training on safe operating and emergency procedures. Additional training must be conducted when any changes in the system occur that would change the quality assurance program. The training must be commensurate with the registered activities. They must include:

A. procedures for handling and using the radiation-producing equipment so the occupational dose limits in part 4732.0410 are not exceeded;

B. procedures for controlling the area of use so the limits for the dose to the public in part 4732.0430 are not exceeded;

C. procedures for appropriate individual monitoring according to part 4732.0440, if applicable;

D. procedures for inspecting and maintaining the radiation-producing equipment; and

E. emergency procedures for the registrant's employees to minimize radiation exposure in the event of an accident or equipment malfunction.

Subp. 4. **Inspection and maintenance of equipment.** The registrant must ensure that:

A. equipment is inspected prior to initial use and after any changes that would affect the radiation output. The inspection must be done according to the manufacturer's specifications;

B. equipment is maintained according to the manufacturer's specifications;

C. the manufacturer or registered service providers are used to conduct repair and maintenance on the system; and

D. repairs or corrective actions are completed when an inspection reveals a condition that could change the radiation output or increase the dose levels for the occupational worker.

Subp. 5. **Records.** The registrant must ensure that the records are maintained according to part 4732.0330.

Statutory Authority: *MS s 144.12*

History: *32 SR 777*

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