

4731.6110 IRRADIATOR POOLS.

Irradiator pools initially licensed after July 1, 1993, must:

- A. have a watertight stainless steel liner or a liner metallurgically compatible with other components in the pool or be constructed so that there is a low probability of substantial leakage and have a surface designed to facilitate decontamination;
- B. have a method to safely store sources during repairs of the pool;
- C. have no outlets greater than 0.5 meter below the normal low water level that could allow water to drain out of the pool. Pipes that have intakes more than 0.5 meter below the normal low water level and that could act as siphons must have siphon breakers to prevent the siphoning of pool water;
- D. be provided with a means to replenish water losses from the pool;
- E. be provided with a water level indicator in a clearly visible location to indicate if the pool water level is below the normal low water level or above the normal high water level;
- F. be equipped with a purification system designed to be capable of maintaining the water during normal operation at a conductivity of 20 microsiemens per centimeter or less and with a clarity so that the sources can be seen clearly;
- G. be provided with a physical barrier, such as a railing or cover, around or over irradiator pools during normal operation to prevent personnel from accidentally falling into the pool. The barrier may be removed during maintenance, inspection, and service operations; and
- H. not expose handling areas of tools or poles to radiation dose rates greater than two millirems (0.02 mSv) per hour.

Statutory Authority: *MS s 144.1202; 144.1203*

History: *29 SR 755*

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