

**3701:1-52-19      Operating and emergency procedures.**

- (A) The licensee shall have and follow written operating procedures for:
  - (1) Operation of the irradiator, including entering and leaving the radiation room;
  - (2) Use of personnel dosimeters;
  - (3) Surveying the shielding of panoramic irradiators;
  - (4) Monitoring pool water for contamination while the water is in the pool and before release of pool water to unrestricted areas;
  - (5) Leak testing of sources;
  - (6) Inspection and maintenance checks required by rule 3701:1-52-23 of the Administrative Code;
  - (7) Loading, unloading, and repositioning sources, if the operations will be performed by the licensee; and
  - (8) Inspection of movable shielding required by paragraph (H) of rule 3701:1-52-08 of the Administrative Code, if applicable.
  
- (B) The licensee shall have and follow emergency or abnormal event procedures, appropriate for the irradiator type, for:
  - (1) Sources stuck in the unshielded position;
  - (2) Personnel overexposures;
  - (3) A radiation alarm from the product exit portal monitor or pool monitor;
  - (4) Detection of leaking sources, pool contamination, or alarm caused by contamination of pool water;
  - (5) A low or high water level indicator, an abnormal water loss, or leakage from the source storage pool;
  - (6) A prolonged loss of electrical power;
  - (7) A fire alarm or explosion in the radiation room;
  - (8) An alarm indicating unauthorized entry into the radiation room, area around pool, or another alarmed area;
  - (9) Natural phenomena, including an earthquake, a tornado, flooding, or other phenomena as appropriate for the geographical location of the facility; and
  - (10) The jamming of automatic conveyor systems.
  
- (C) The licensee may revise operating and emergency procedures without director approval only if all of the following conditions are met:
  - (1) The revisions do not reduce the safety of the facility;

- (2) The revisions are consistent with the outline or summary of procedures submitted with the license application;
- (3) The revisions have been reviewed and approved by the radiation safety officer; and
- (4) The users or operators are instructed and tested on the revised procedures before they are put into use.

Five Year Review (FYR) Dates: 10/25/2016 and 10/15/2021

CERTIFIED ELECTRONICALLY

---

Certification

10/25/2016

---

Date

Promulgated Under: 119.03  
Statutory Authority: 3748.04  
Rule Amplifies: 3748.04  
Prior Effective Dates: 10/20/2002, 9/1/12