
ILLINOIS REGISTER

ILLINOIS EMERGENCY MANAGEMENT AGENCY

NOTICE OF ADOPTED AMENDMENTS

currently in place for use of radioactive materials. Agreement States such as Illinois are required to have these changes in place by October 29, 2010. NRC has assigned this rulemaking a compatibility category of A. This means that the Illinois rule must have language essentially identical to NRC.

Section 31 of the Radiation Protection Act of 1990 [420 ILCS 40/31] provides that the Agency is exempt from rulemaking procedures in the Illinois Administrative Procedure Act when regulations that are identical in substance are necessary to implement, secure, or maintain federal authorization for a program. After consideration of comments from the appropriate federal agency, the Agency may adopt the verbatim text of the laws, regulations, or orders as necessary and appropriate for authorization or maintenance of the program. The NRC has reviewed the proposed amendments and has indicated that these amendments are needed to ensure compatibility with 10 CFR 20. Because this rulemaking is not subject to the Illinois Administrative Procedure Act, and in accordance with Section 31, this rulemaking will become effective following the first notice period immediately upon filing for adoption with the Secretary of State or at a date required or authorized by the relevant federal laws, regulations, or orders as stated in the notice of the rulemaking, and shall be published in the Illinois Register.

- 16) Information and questions regarding these adopted amendments shall be directed to:

Louise Michels
Staff Attorney
Illinois Emergency Management Agency
1035 Outer Park Drive
Springfield, Illinois 62704
(217) 524-0770

The full text of the Adopted Amendment begins on the next page:

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TITLE 32: ENERGY
CHAPTER II: ILLINOIS EMERGENCY MANAGEMENT AGENCY
SUBCHAPTER b: RADIATION PROTECTION

PART 346
LICENSES AND RADIATION SAFETY REQUIREMENTS
FOR IRRADIATORS

SUBPART A: GENERAL PROVISIONS

Section

- 346.10 Purpose
- 346.20 Scope
- 346.30 Incorporations by Reference
- 346.40 Definitions

SUBPART B: SPECIFIC LICENSING REQUIREMENTS

- 346.110 Application for Specific License
- 346.130 Specific License for Irradiators
- 346.150 Start of Construction

SUBPART C: DESIGN AND PERFORMANCE REQUIREMENTS OF IRRADIATORS

- 346.210 Performance Criteria for Sealed Sources
- 346.230 Access Control
- 346.250 Shielding
- 346.270 Fire Protection
- 346.290 Radiation Monitors
- 346.310 Control of Source Movement
- 346.330 Irradiator Pools
- 346.350 Source Rack Protection
- 346.370 Power Failures
- 346.390 Design Requirements
- 346.410 Construction Monitoring and Acceptance Testing

SUBPART D: OPERATION OF IRRADIATORS

- 346.510 Training
- 346.530 Operating and Emergency Procedures

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346.550	Personnel M onitoring
346.570	Radiation S urveys
346.590	Detection of L eaking S ources
346.610	Inspection and M aintenance
346.630	Pool W ater P urity
346.650	Attendance D uring O peration
346.670	Entering and L eaving the R adiation R oom
346.690	Irradiation of E xplosive or F lammable M aterials

SUBPART E: RECORDS

346.810	Records and R etention P eriods
346.830	Reports

AUTHORITY: Implementing and authorized by the Radiation Protection Act of 1990 [420 ILCS 40/10].

SOURCE: Adopted at 29 Ill. Reg. 20933, effective December 16, 2005; amended at 35 Ill. Reg. _____, effective _____.

SUBPART D: OPERATION OF IRRADIATORS

Section 346.590 Detection of Leaking Sources

- a) Each dry-source-storage sealed source shall be tested for leakage in accordance with the requirements of 32 Ill. Adm. Code 340.410.
- b) For pool irradiators, sources may not be put into the pool unless the licensee tests the sources for leaks or has a certificate from a transferor that a leak test has been done within the 6 months before the transfer. Water from the pool shall be checked for contamination each day the irradiator operates. The check may be done either by using a radiation monitor on a pool water circulating system or by analysis of a sample of pool water. If a check for contamination is done by analysis of a sample of pool water, the results of the analysis shall be available within 24 hours. If the licensee uses a radiation monitor on a pool water circulating system, the detection of above normal radiation levels shall activate an alarm. The alarm set-point shall be set as low as practical, but high enough to avoid false alarms. The licensee may reset the alarm set-point to a higher level if necessary to operate the pool water purification system to clean up contamination in the pool if specifically provided for in written emergency procedures.

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- c) If a leaking source is detected, the licensee shall arrange to remove the leaking source from service and have it decontaminated, repaired or disposed of by an NRC or Agreement State licensee that is authorized to perform these functions. The licensee shall promptly check its personnel, equipment, facilities and irradiated product for radioactive contamination. No product may be shipped until the product has been checked and found free of contamination. If a product has been shipped that may have been inadvertently contaminated, the licensee shall arrange to locate and survey that product for contamination. If any personnel are found to be contaminated, decontamination shall be performed promptly. If contaminated equipment, facilities or products are found, the licensee shall have them decontaminated or disposed of by an NRC or Agreement State licensee that is authorized to perform these functions. If a pool is contaminated, the licensee shall arrange to clean the pool until the contamination levels do not exceed the appropriate concentration in ~~t~~Table 2, ~~c~~Column 2, of Appendix B to 10 CFR 20, ~~published at 72 Fed. Reg. 55922, October 1, 2007. December 1, 2005~~. (See 32 Ill. Adm. Code 340.1220 for reporting requirements.)

(Source: Amended at 3534 Ill. Reg. _____, effective _____.)