

## Title 290. Department of Homeland Security

### Article 3. Standards for Protection Against Radiation

#### Rule 1. General Provisions

##### 290 IAC 3-1-1. Applicability

- Sec. 1 (a) This Article, except as otherwise specifically provided, applies to all persons who use, store, produce, transport, possess or dispose of radioactive materials within the state of Indiana.
- (b) This Article does not apply to any person to the extent such a person is subject to regulation by the U.S. Nuclear Regulatory Commission (NRC).

##### 290 IAC 3-1-2 Reconciliation of Differences

Sec. 2. (a) To reconcile differences between this Article and the incorporated language, the following words and phrases shall be substituted for the language in the incorporated material as follows:

- (1) Unless otherwise specified in this section, any reference to "Department" means Indiana Department of Homeland Security.
- (2) ~~Unless otherwise specified in this section, any reference to the "Act" means Indiana Code 10-19-12, entitled, "Nuclear Regulatory Agreement".~~
- (3) A reference to "NRC", "Commission", "Regional Office" or "Atomic Energy Commission", means the Indiana Department of Homeland Security, except when used in:
  - (A) 10 CFR 30.4;
  - (B) the definition of "Sealed Source and Device Registry" in 32.2, 35.2;
  - (C) 37.25(b)(2);
  - (D) 37.27(a) and (c);
  - (E) 37.29(a)(1);
  - (F) 37.31(d)
  - (G) the reference to the NRC's license verification system in 37.71(a)-(c);
  - (H) 39.63(l);
  - (I) 40.4;
  - (J) 40.35(f);
  - (K) 61.55(b)(2)(iv)
  - (K) 70.19(a)(2) and (c)(3);
  - (L) The definitions of "Certificate Holder" and "Certificate of Compliance" in 71.4
  - (M) 71.10; and
- (4) Any reference to "NRC or Agreement State", "Commission or the licensing agency of an Agreement State", "commission or the appropriate agency of an Agreement State", "Commission or the Atomic Energy Commission or an Agreement State", "Atomic Energy Commission, the Commission, or an Agreement State", "U.S. Nuclear Regulatory Commission or the legally binding requirements issued by Agreement States", "Commission or Agreement State", or "Commission or an Agreement State" means the "Indiana Department of Homeland Security, the NRC, or Agreement State", "with the Commission or with an Agreement State"; However, this substitution does not apply to "NRC" or "Commission" when used in the following provisions:
  - (A) 10 CFR § 37.5 for the definitions of "Agreement State", "Byproduct material", "Commission", or "Person".
  - (B) 10 CFR § 37.25(b)(2).

(C) 10 CFR § 37.27(a) and (c).

(D) 10 CFR § 37.29(a).

(E) 10 CFR § 37.71 when referring to the NRC's license verification system or referencing a licensee of the Commission or an Agreement State.

E) 

(G) 10 CFR § 40.51(b)(2).

(H) 10 CFR § 71.5(b).

~~(I) 10 CFR § 71.10.~~

(J) 10 CFR 71.17(c)(3) and (e).

~~(K) 10 CFR § 71.85(c)~~

(L) 10 CFR 71.88(a)(4)


(JM) 10 CFR 71.93(c)

(N) 10 CFR 71.95

(5) A reference to "or equivalent Agreement State regulations" means "NRC regulations in Chapter 10 of the Code of Federal Regulations, or equivalent Agreement State regulations." A reference to "or equivalent Agreement State requirements" means "NRC requirements, or equivalent Agreement State requirements". A reference to "comparable provisions of an Agreement State" means "comparable provisions of the NRC or of an Agreement State". A reference to "an Agreement State" means "an Agreement State or the NRC". A reference to "equivalent regulations of an Agreement State" means "NRC regulations in Chapter 10 of the Code of Federal Regulations, or equivalent regulations of an Agreement State".

(6) In 10 CFR 31.5(c)(7), the phrase "part 110" is replaced by "10 CFR Part 110"


(7) Any reference to the Advisory Committee on the Medical Uses of Isotopes (ACMUI) shall be deemed to be a reference to the Department's Radiation Advisory Committee.

 (8) Any notifications, reports, or correspondence referenced in the incorporated sections of the Code of Federal Regulations shall be directed to the Department using the contact information specified in section 5 of this chapter. However,

(A) fingerprints for FBI criminal history records check and related fees shall be submitted to the NRC in accordance with 10 CFR 37.27;

(B) the submission required before the first use of an NRC approved package shall be sent in accordance with 10 CFR 71.17(c)(3), to the NRC, ATTN: Document Control Desk, Director, Division of Spent Fuel Storage and Transportation, Office of Nuclear Material Safety and Safeguards, using the appropriate methods listed in 10 CFR 71.1(a), the licensee's name and license number and the package identification number specified in the package approval;

(9) Except 40.31(g), any requirement to utilize an NRC Form may also be satisfied by use of an equivalent form approved by the Department.

(10) In 10 CFR 30.32(g), 31.5(b)(1)(ii), 31.5(c)(3)(ii), 31.5(c)(5), 31.5(c)(13)(iv), 31.6, 31.7(a), 31.8(b), 31.8(c)(3), 31.10(a), 31.10(b)(1), 31.11(c)(4), 31.11(d)(1), 31.12(c)(4), 32.55(d), 32.56, 32.74(a)(3), 34.89(b)(12),  39.741(f); 39.75(e), 40.25(b), 40.25(d)(3), 40.35(d)(2) and (e)(2), 40.52(a), 40.55(d)(2), 170.31: 16 and 170.31(1), and 171.17(b)(2), where a reference is made to "an Agreement State", it means "an Agreement State or the NRC";

(11) In 10 CFR 31.6 where the words "any non-agreement state" or "offshore waters" are used substitute the words "State of Indiana";

- (12) In 10 CFR 39.51 where the phrase “or by an Agreement State” is used, substitute the words “by the NRC or by an Agreement State”;
- (13) In 10 CFR 70.19(a)(1), reference to “a non-agreement State” means “the State of Indiana”;
- (14) In 10 CFR 37.77(a)(1), the following language is preserved; “The contact information including telephone and mailing addresses, of governors and governors’ designees, is available on the NRC’s Web site at <https://scp.nrc.gov/special/designess.pdf>. A list of the contact information is also available upon request from the Director, Division of Materials Safety, Security, State, and tribal Programs, Office of Nuclear Materials Safet and Safeguards, U.S. Nuclear Regulatory Commission, Washington, DC 2055-0001.” Additionally, the language in 37.77(d) is preserved.;
- (15) In 10 CFR 71.97(c)(3)(ii) and (iii) and in 71.97(f) the language is preserved.
- ;
- (15) In 10 CFR 30.12, 30.41(b)(1), the definition of “Department of Energy” in 40.4 and 70.4, 40.11, 40.14(c), 40.51(b)(1), 70.11, and 70.42(b)(1), the word “Department” means the “US Department of Energy”;
- (16) For purposes of 10 CFR Part 71, Subpart H, and 10 CFR 170 and 171 only, the terms “certificate of compliance”, “compliance holder”, or “applicant” apply to the NRC as they are the sole authority for issuing a package certificate of compliance.
- (17) In 10 CFR 150.20, where the words:
- (A) “non-agreement states”, “areas of exclusive federal jurisdiction within agreement states”, or “offshore waters” are used in (a)(1)(i), (b), (b)(3), and (b)(4) means “The State of Indiana”,
  - (B) “agreement state license” means “agreement state license of Nuclear regulatory Commission license”,
  - (C) “license issued by an agreement state” means “license issued by an agreement state or the Nuclear Regulatory Commission”,
  - (D) “license from an agreement state” means “license from an agreement state of the Nuclear Regulatory Commission”.
- (18) In 10 CFR 19.15, 19.16, 30.34, 30.41(b)(3), 30.61(b), 40.31(d), 40.32(a), 40.41(a), (b), and (e)(4), 40.51(b)(3), 40.71, and 150.20(b) reference to “the Act” should mean Article 3 of Title 290 of the Indiana Administrative Code.
- (19) In 10 CFR 40.10(b) and 70.10(b) the reference to 10 CFR 2, subpart B is replaced with [equivalent state regulations and provisions].
- (20) In 10 CFR 40.31(c), the reference to 10 CFR Parts 2 and 9, relating to public records, is replaced with [equivalent state regulations and provisions].
- (21) In 10 CFR 71.101(c)(1), using an appropriate method listed in § 71.1(a), each licensee shall file a description of its quality assurance program, including a discussion of which requirements of this subpart are applicable and how they will be satisfied, by submitting the description to the address specified in 290 IAC 3-1-4(a).

### **290 IAC 3-1-3 Definitions**

Sec. 3. (a) In addition to the definitions contained in 10 CFR §20.1003, the following definitions apply, as indicated, throughout this Article:

- (1) "Civil penalty" means any monetary penalty levied on a licensee or registrant because of violations of statutes, regulations, licenses, or registration certificates, but does not include criminal penalties.
- (2) "Closure" or "site closure" means all activities performed at a waste disposal site, such as stabilization and contouring, to assure that the site is in a stable condition so that only minor custodial care, surveillance, and monitoring are necessary at the site following termination of a licensed operation.
- (3) "Decommissioning" means final operational activities at a facility to dismantle site structures, to decontaminate site surfaces and remaining structures, to stabilize and contain residual radioactive material, and to carry out any other activities to prepare the site for post-operational care.
- (4) Except as described in 3-1-2.(15), "Department" means the Indiana department of homeland security established by IC 10- 19-2-1.
- (5) "Registration" means registration with the department in accordance with rules and regulations adopted pursuant to this chapter.
- (6) "General license" means a license effective under regulations promulgated by the department without the filing of an application with the department or the issuance of licensing documents to particular persons to transfer, acquire, own, possess, or use quantities of, or devices or equipment utilizing, radioactive material.
- (7) "High-level radioactive waste" means:
  - (A) irradiated reactor fuel;
  - (B) liquid wastes resulting from the operation of the first cycle solvent extraction system, or equivalent, and the concentrated wastes from subsequent extraction cycles, or equivalent, in a facility for reprocessing irradiated reactor fuel; and
  - (C) solids into which such liquid wastes have been converted.
- (8) "Low-level radioactive waste" means radioactive waste not classified as high-level radioactive waste, transuranic waste, spent nuclear fuel, or byproduct material.
- (9) "Disposal of low-level radioactive waste" means the isolation of such waste from the biosphere by emplacement in a land burial facility.
- (10) "Sources of radiation" means collectively, radioactive material and radiation generating equipment.
- (11) "Radiation" means ionizing radiation and nonionizing radiation.
- (12) "Ionizing radiation" means gamma rays and x-rays, alpha and beta particles, high-speed electrons, neutrons, protons, and other nuclear particles; but not sound or radio waves, or visible, infrared, or ultraviolet light.
- (13) "Nonionizing radiation" means the following: (A) Any electromagnetic radiation, other than ionizing electromagnetic radiation. (B) Any sonic, ultrasonic, or infrasonic wave.
- (14) "Radiation generating equipment" means any manufactured product or device, or component part of such a product or device, or any machine or system that during operation can generate or emit radiation except those that emit radiation only from radioactive material.
- (15) "Radioactive material" means material (solid, liquid, or gas) that emits ionizing radiation spontaneously. It includes accelerator produced, byproduct, naturally occurring, source, and special nuclear materials.

(16) "Source material mill tailings" means the tailings or wastes produced by the extraction or concentration of uranium or thorium from any ore processed primarily for its source material content, including discrete surface wastes resulting from underground solution extraction processes, but not including underground ore bodies depleted by such solution extraction processes.

(17) "Source material milling" means any processing of ore, including underground solution extraction of unmined ore, primarily for the purpose of extracting or concentrating uranium or thorium that results in the production of source material mill tailings.

(18) "Specific license" means a license, issued to a named person upon application filed under the regulations promulgated under this chapter, to use, manufacture, produce, transfer, receive, acquire, or possess quantities of, or devices or equipment utilizing, radioactive material.

(19) "Spent nuclear fuel" means irradiated nuclear fuel that has undergone at least one (1) year's decay since being used as a source of energy in a power reactor. Spent fuel includes the special nuclear material, byproduct material, source material, and other radioactive material associated with fuel assemblies.

(20) "Transuranic waste" means radioactive waste containing alpha emitting transuranic elements, with radioactive half-lives greater than five (5) years, in excess of ten (10) nanocuries per gram.

#### **290 IAC 3-1-4 Communications**

Sec. 4. (a) In accordance with IC 10-19-2.1-1 and except where specifically stated otherwise, all notifications, communications, and reports required to be submitted under this Article shall be submitted electronically in writing and addressed to the Department at [rmcp@dhs.in.gov](mailto:rmcp@dhs.in.gov).

Submissions made by paper shall be made out to:

Indiana Department of Homeland Security  
Radioactive Materials Control Program  
302 W. Washington St. Room E208  
Indianapolis, IN 46204

(b) In case of an emergency, or when an immediate or 24-hour notification is required, notification shall be made telephonically to (317) 233-6611.

#### **290 IAC 3-1-5 Implementation**

Sec. 5. (a) On the date the State of Indiana becomes an agreement state as published in the Federal Register, a person who possesses a general or specific license issued by the NRC for source, byproduct, or special nuclear material in quantities not sufficient to form a critical mass, is deemed to possess a like license issued under this section. The license shall expire on the earlier of 90 days after receipt from the Department of a notice of expiration of the license, or the date of expiration specified in the NRC license.

#### **290 IAC 3-1-6 Inspections**

Sec. 6. (a) Requirements regarding Inspections are as required by the materials incorporated by reference.

(b) This section does not limit the authority granted in IC 10-19-11-3.

### **290 IAC 3-1-7 Violation**

Sec. 7. Violations of this Article may be enforced pursuant to IC 10-19-12-15 and IC 10-19-12-18.

### **290 IAC 3-1-8 Records**

Sec. 8. (a) For the purpose of this Article, records shall be provided in the form of printed materials, or electronic records capable of producing legible, accurate, and complete records during the required retention period. It shall not be provided on microform. The licensee shall maintain adequate safeguards against tampering with and loss of records.

### **290 IAC 3-1-9 Reports**

Sec. 9. (a) Unless otherwise stated in this Article, requirements regarding reports of theft or loss of licensed material are as required by the materials incorporated by reference.

(b) The requirement in 10 CFR 20.2201(a)(1)(ii) and (b)(1) is modified from 30 to 15 days.

(c) Reports required by 10 CFR 20.2201 shall include, to the extent that the information is available at the time of notification, the following information:

- (1) The name of the person making the report and their call-back telephone number;
- (2) Time and date of the event, and;
- (3) The exact location of the event, if available.

### **290 IAC 3-1-10 Vacating Premises**

Sec. 10. Each specific licensee shall, no less than thirty (30) days before vacating or relinquishing possession or control of premises which may have been contaminated with radioactive material as a result of his or her activities, notify the Department in writing of intent to vacate. When deemed necessary by the Department, the licensee shall decontaminate the premises in such a manner as the Department may specify.

## **Rule 2. Standards for Protection Against Radiation**

### **290 IAC 3-2-1 Applicability**

Sec. 1 (a) This Article, except as otherwise specifically provided, applies to all persons who use, store, produce, transport, possess or dispose of radioactive materials within the state of Indiana.

(b) This Article does not apply to any person to the extent such a person is subject to regulation by the U.S. Nuclear Regulatory Commission (NRC).

(c) The requirements of this rule are in addition to, and not in substitution for, other requirements of this Article. Provisions of rules 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, and 18 also apply.

### **290 IAC 3-2-2 Incorporated Material**

Sec. 2. (a) Except as provided in this rule and to the extent that the provisions are not inconsistent with this Article, 10 CFR Part 20 is incorporated by reference.

(b) The following requirements of 10 CFR Part 20 are not incorporated in this Article:

1. Definitions of "Commission", "Department", and "Special Nuclear Material" as defined in 20.1003
2. 20.1007
3. 20.1008
4. 20.1009
5. 20.1205
6. In 20.1401, Any reference to 10 CFR 50, 52, 60, 63, or 72 (authority retained by NRC)
7. 20.1405(b)
8. In 20.1406(a), Any reference to 10 CFR 50, 52, 60, 63, or 72 (authority retained by NRC)
9. 20.1406(b)
10. 20.1905(g)
11. 20.2109
12. 20.2110
13. In 20.2201(b)(2)(i), Any reference to 10 CFR 50, 52, 60, 63, or 72 (authority retained by NRC)
14. 20.2201(b)(2)(i) and (ii)
15. In 20.2201(c), Any reference to 10 CFR 50, 52, 60, 63, or 72 (authority retained by NRC)
16. 20.2203(c) and (d)
17. 20.2206(a)(1), (3), (4), (5), and (6)18. 20.2401
19. 20.2402
20. Appendix D to Part 20
21. Appendix F to 10 CFR Part 20

**Rule 3. Notices, Instructions, and Reports to Workers; Inspections and Compliance Procedures**

**290 IAC 3-3-1 Applicability**

- Sec. 1 (a) This Article, except as otherwise specifically provided, applies to all persons who use, store, produce, transport, possess or dispose of radioactive materials within the state of Indiana.
- (b) This Article does not apply to any person to the extent such a person is subject to regulation by the U.S. Nuclear Regulatory Commission (NRC)
- (c) The requirements of this rule are in addition to, and not in substitution for, other requirements of this Article. Provisions of rules 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, and 18 also apply.

**290 IAC 3-3-2 Incorporated Material**

- Sec. 2. (a) Except as provided in this rule and to the extent that the provisions are not inconsistent with this Article, 10 CFR Part 19 is incorporated by reference.
- (b) The following requirements of 10 CFR Part 19 are not incorporated in this rule:
1. 19.2, and 19.3 (definition of "license") references to parts of Chapter 10 of the Federal Code of Regulations that remain under NRC's regulatory authority (e.g., 10 CFR Parts 50, 52, 54, 60, 63, 72, and 76)
  - 19.3 (definition of "regulated entities" only)
  2. 19.5

3. 19.8
4. Any references to 10 CFR 52 in 19.11(a)
5. 19.11(b) and (e)
6. 19.14(a)
7. 19.18
8. 19.20
9. 19.30
10. 19.32
11. 19.40.

**Rule 4. Rules of General Applicability to Domestic Licensing of Byproduct Material**

**290 IAC 3-4-1 Applicability**

- Sec. 1 (a) This Article, except as otherwise specifically provided, applies to all persons who use, store, produce, transport, possess or dispose of radioactive materials within the state of Indiana.
- (b) This Article does not apply to any person to the extent such a person is subject to regulation by the U.S. Nuclear Regulatory Commission (NRC)
- (c) The requirements of this rule are in addition to, and not in substitution for, other requirements of this Article. Provisions of rules 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, and 18 also apply.

**290 IAC 3-4-2 Incorporated Material**

- Sec. 2. (a) Except as provided in this rule and to the extent that the provisions are not inconsistent with this Article, 10 CFR Part 30 are incorporated by reference.
- (b) The following requirements of 10 CFR Part 30 are not incorporated in this rule:
1. 30.4 (paragraph (2) of the definition of "Commencement of Construction" and paragraph (9)(ii) of the definition of "Construction, "byproduct material", "decommission", "person", and "source material"" only)
  2. 30.6
  3. 30.7
  4. 30.8
  5. ~~30.10~~
  6. 30.21(c)
  7. 30.34(d), (e)(1) and (3)
  8. 30.41(b)(6)
  9. 30.52
  10. 30.55
  11. 30.63
  12. 30.64

**290 IAC 3-4-3 Reconciliation of Differences**

- Section 3. (a) In 10 CFR 30.50(c)(1), a reference to "NRC Operation Center" means "Department".



(b) In 10 CFR 30.10(b), the reference to 10 CFR 2 relating to deliberate misconduct is replaced with [state regulations and provision relating to deliberate misconduct].

### **Rule 5. General Domestic Licenses for Byproduct Material**

#### **290 IAC 3-5-1 Applicability**

Sec. 1 (a) This Article, except as otherwise specifically provided, applies to all persons who use, store, produce, transport, possess or dispose of radioactive materials within the state of Indiana.

(b) This Article does not apply to any person to the extent such a person is subject to regulation by the U.S. Nuclear Regulatory Commission (NRC)

(c) The requirements of this rule are in addition to, and not in substitution for, other requirements of this Article. Provisions of rules 2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, and 18 also apply.

#### **290 IAC 3-5-2 Incorporated Material**

Sec. 2. (a) Except as provided in this rule and to the extent that the provisions are not inconsistent with this Article, 10 CFR Part 31 are incorporated by reference.

(b) The following requirements of 10 CFR Part 31 are not incorporated in this rule:

1. 31.3
2. 31.4
3. 31.13
4. 31.14
5. 31.15
6. 31.16
7. 31.17
8. 31.18
9. 31.19
10. 31.20
11. 31.21
12. 31.22
13. 31.23

### **Rule 6. Specific Domestic Licenses to Manufacture or Transfer Certain Items Containing**

#### **Byproduct Material**

#### **290 IAC 3-6-1 Applicability**

Sec. 1 (a) This Article, except as otherwise specifically provided, applies to all persons who use, store, produce, transport, possess or dispose of radioactive materials within the state of Indiana.

(b) This Article does not apply to any person to the extent such a person is subject to regulation by the U.S. Nuclear Regulatory Commission (NRC)

(c) The requirements of this rule are in addition to, and not in substitution for, other requirements of this Article. Provisions of rules 2, 3, 4, 5, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, and 18 also apply.

#### **290 IAC 3-6-2 Incorporated Material**

Sec. 2. (a) Except as provided in this rule and to the extent that the provisions are not inconsistent with this Article, 10 CFR Part 32 are incorporated by reference.

(b) The following requirements of 10 CFR Part 32 are not incorporated in this rule:

1. 32.1(c)(1)
2. 32.8
3. 32.11
4. 32.12
5. 32.14
6. 32.15
7. 32.16
8. 32.18
9. 32.19
10. 32.20
11. 32.21
12. 32.21a
13. 32.22
14. 32.23
15. 32.25
16. 32.26
17. 32.27
18. 32.28
19. 32.29
20. 32.30
21. 32.31
22. 32.32
23. 32.210(a)-(h)
24. 32.211
25. 32.301
26. 32.303

**290 IAC 3-6-3 Requirements for License to Manufacture, Prepare, or Transfer for Commercial Distribution of Radioactive Drugs Containing Material for Medical Use Under Rule 13**

Sec. 3. In addition to the provisions of 10 CFR §32.72(b)(4), an individual may function as an authorized nuclear pharmacist only if they are licensed as a pharmacist by the Indiana State Board of Pharmacy.

**290 IAC 3-6-4 Registration of Product Information**

Sec. 4. The Department does not administer a sealed source and device registration program. Any manufacturer or initial distributor of a sealed source or device containing a sealed source who is subject to this Article shall submit a request for evaluation of radiation safety information about its product and for its registration to the Nuclear Regulatory Commission pursuant to 10 CFR §32.210.

**Rule 7. Specific Domestic Licenses of Broad Scope for Byproduct Material**

### **290 IAC 3-7-1 Applicability**

Sec. 1 (a) This Article, except as otherwise specifically provided, applies to all persons who use, store, produce, transport, possess or dispose of radioactive materials within the state of Indiana.

(b) This Article does not apply to any person to the extent such a person is subject to regulation by the U.S. Nuclear Regulatory Commission (NRC).

(c) The requirements of this rule are in addition to, and not in substitution for, other requirements of this Article. Provisions of rules 2, 3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, and 18 also apply.

### **290 IAC 3-7-2 Incorporated Material**

Sec. 2. (a) Except as provided in this rule and to the extent that the provisions are not inconsistent with this Article, 10 CFR Part 33 are incorporated by reference.

(b) The following requirements of 10 CFR Part 33 are not incorporated in this rule:

1. 33.8
2. 33.21
3. 33.23

## **Rule 8. Licenses for Industrial Radiography and Radiation Safety Requirements for Industrial Radiographic Operations**

### **290 IAC 3-8-1 Applicability**

Sec. 1. (a) This rule establishes radiation safety requirements for persons utilizing sources of radiation for industrial radiography operations.

(b) Except for industrial radiation machines regulated pursuant to I.C. 16-41-35, the requirements in this rule apply to all licensees or registrants who use sources of radiation for industrial radiography; provided, however, that nothing in this rule shall apply to the use of sources of radiation in the healing arts.

(c) The requirements of this rule are in addition to, and not in substitution for, other requirements of this Article. Provisions of rules 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16, 17, and 18 also apply.

### **290 IAC 3-8-2 Incorporated Material**

Sec. 2. (a) Except as provided in this rule and to the extent that the provisions are not inconsistent with this Article, 10 CFR Part 34 is incorporated by reference.

(b) The following provisions of 10 CFR Part 34 are not incorporated in this rule:

1. 34.8
2. 34.87
3. 34.121
4. 34.123

### **290 IAC 3-8-3 Reconciliation of differences**

Sec. 3. To reconcile differences between this rule and the incorporated sections of 10 CFR Part 34, the following words and phrases shall be substituted for the language in 10 CFR Part 34 as follows:

- (1) Any reference to licensee shall be deemed to include registrant.
- (2) Any reference to license shall be deemed to include registration.
- (3) Any referenced to licensed shall be deemed to include registered.

### **Rule 9. Medical Use of Radioactive Material**

#### **290 IAC 3-9-1 Applicability**

Sec. 1 (a) This Article, except as otherwise specifically provided, applies to all persons who use, store, produce, transport, possess or dispose of radioactive materials within the state of Indiana.

(b) This Article does not apply to any person to the extent such a person is subject to regulation by the U.S. Nuclear Regulatory Commission (NRC).

(c) The requirements of this rule are in addition to, and not in substitution for, other requirements of this Article. Provisions of rules 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16, 17, and 18 also apply.

#### **290 IAC 3-9-2 Incorporated Material**

Sec. 2. (a) Except as provided in this rule and to the extent that the provisions are not inconsistent with this Article, 10 CFR Part 35 is incorporated by reference.

(b) The following provisions of 10 CFR Part 35 are not incorporated in this rule:

2. 35.8

3. 35.11(c)(1)

4. 35.13(a)(1)

5. 35.4001

6. 35.4002



#### **290 IAC 3-9-3 Reports**

Sec. 3. (a) In addition to the requirements outlined in 10 CFR 35 Subpart M, the licensee shall notify the Department by telephone upon discovery, but no later than the next business day, that:

- (1) A patient or human research subject has departed from the licensee's facility without authorization under 10 CFR 35.75; or
- (2) A patient or human research subject containing radioactive material has died, and it is possible that any individual could receive an effective dose equivalent in excess of the dose limits set forth in 10 CFR 20.1301 as a result of the deceased's body.

(b) In addition to the requirements outlined in 10 CFR 35 Subpart M, the licensee shall submit a written report to the Department within thirty (30) days after the discovery of an event listed in subsection (a) of this section. The written report must include:

- (1) The licensee's name;
- (2) The date and time of the unauthorized departure or date of death, as appropriate;
- (3) The date and time when patient release was expected to occurred, if applicable;

- (4) The address of the patient's or human research subject's home or anticipated destination following unauthorized departure, if applicable;
- (5) The radionuclide, chemical and physical form, and calculated activity at the time of unauthorized departure or death;
- (6) The apparent reason(s) for the unauthorized departure or death prior to authorized release, if applicable;
- (7) The names (or titles) and address(es) of known individuals who might have received a TEDE exceeding five (5) mSv (one half (0.5) rem); and
- (8) A description of any changes in the licensee's patient release criteria or patient instructions that are designed to avoid a recurrence of such an event.

### **Rule 10. Licenses and Radiation Safety Requirements for Irradiators**

#### **290 IAC 3-10-1 Applicability**

Sec. 1. (a) This rule establishes requirement for the issuance of a license authorizing radioactive materials in irradiators used to irradiate objects or material using gamma radiation. This rule also establishes radiation safety requirements for operating irradiators.

(b) This rule applies to panoramic irradiators that have either dry or wet storage of the radioactive sealed sources and to under-water irradiators in which both the source and the product being irradiated are under water. Irradiators whose dose rate exceeds 5 grays (500 rads) per hour at 1 meter from the radioactive sealed sources in air or in water, as applicable for the irradiator type, are covered by this rule.

(c) The requirements set out in this rule do not apply to self-contained dry-source-storage irradiators (those in which both the source and the area subject to irradiation are contained within a device and are not accessible by personnel), medical radiology or teletherapy, radiography (the irradiation of materials for nondestructive testing purposes), gauging, or open-field (agricultural) irradiations.

(d) The requirements of this rule are in addition to, and not in substitution for, other requirements of this Article. Provisions of rules 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14, 15, 16, 17, and 18 also apply.

(e) Nothing in this Rule relieves the licensee from complying with other applicable federal, state, and local regulations governing the siting, zoning, land use, and building code requirements for industrial facilities.

#### **290 IAC 3-10-2 Incorporated Material**

Sec. 2. (a) Except as provided in this rule and to the extent that the provisions are not inconsistent with this Article, 10 CFR Part 36 is incorporated by reference.

(b) The following provisions of 10 CFR Part 36 are not incorporated in this rule:

1. 36.2 (paragraph (2) of the definition of "Commencement of Construction" and paragraph (9)(ii) of the definition "Construction" only, definition of "Sealed Source".)
2. 36.8
3. The words "common defense and security" in 10 CFR 36.17(a)
4. 36.91
5. 36.93



#### **290 IAC 3-10-3 Reconciliation of differences**

Sec. 3. To reconcile difference between this rule and the incorporated sections of 10 CFR Part 36, the following words and phrases shall be substituted for the language in 10 CFR Part 36 as follows:

- (1) Any reference to licensee shall be deemed to include registrant.
- (2) Any reference to license shall be deemed to include registration.
- (3) Any reference to licensed shall be deemed to include registered.

#### **Rule 11. Physical Protection of Category 1 and Category 2 Quantities of Radioactive Material**

##### **290 IAC 3-11-1 Applicability**

Sec. 1 (a) This Article, except as otherwise specifically provided, applies to all persons who use, store, produce, transport, possess or dispose of radioactive materials within the state of Indiana.  
(b) This Article does not apply to any person to the extent such a person is subject to regulation by the U.S. Nuclear Regulatory Commission (NRC).  
(c) The requirements of this rule are in addition to, and not in substitution for, other requirements of this Article. Provisions of rules 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17, and 18 also apply.

##### **290 IAC 3-11-2 Incorporated Material**

Sec. 2. (a) Except as provided in this rule and to the extent that the provisions are not inconsistent with this Article, 10 CFR Part 37 is incorporated by reference.  
(b) The following requirements of 10 CFR Part 37 are not incorporated in this rule:

1. 37.7
2. 37.13
3. 37.101
4. 37.107
5. 37.109

#### **Rule 12. Licenses for Well Logging and Radiation Safety Requirements for Well Logging**

##### **Operations**

##### **290 IAC 3-12-1 Applicability**

Sec. 1. (a) This rule prescribes requirements for the issuance of a license authorizing the use of sources of radiation in well logging in a single well. This rule also prescribes radiation safety requirements for persons using sources of radiation in these operations.  
(b) This rule applies to all licensees who use sources of radiation for well logging operations including mineral logging, radioactive markers, or subsurface tracer studies.  
(c) The requirements set out in this rule do not apply to the issuance of a license authorizing the use of sources of radiation in tracer studies involving multiple wells, such as field flooding studies, or to the use of sources of radiation auxiliary to well logging but not lowering into wells.  
(d) The requirements of this rule are in addition to, and not in substitution for, other requirements of this Article. Provisions of rules 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, and 18 also apply.

##### **290 IAC 3-12-2 Incorporated Material**

Sec. 2. (a) Except as provided in this rule and to the extent that the provisions are not inconsistent with this Article, 10 CFR Part 39 is incorporated by reference.

(b) The following provisions of 10 CFR Part 39 are not incorporated in this rule:

1. 39.2 definition of "Sealed Source"
2. 39.8
3. The words "common defense and security" in 39.91
4. 39.101
5. 39.103

### **Rule 13. Domestic Licensing of Source Material**

#### **290 IAC 3-13-1 Applicability**

Sec. 1 (a) This Article, except as otherwise specifically provided, applies to all persons who use, store, produce, transport, possess or dispose of radioactive materials within the state of Indiana.

(b) This Article does not apply to any person to the extent such a person is subject to regulation by the U.S. Nuclear Regulatory Commission (NRC).

(c) The requirements of this rule are in addition to, and not in substitution for, other requirements of this Article. Provisions of rules 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 15, 16, 17, and 18 also apply.

#### **290 IAC 3-13-2 Incorporated Material**

Sec. 2. (a) Except as provided in this rule and to the extent that the provisions are not inconsistent with this Article, 10 CFR Part 40 are incorporated by reference.

(b) The following requirements of 10 CFR Part 40 are not incorporated in this rule:

1. 40.2a
2. 40.4 (definition of "Reconciliation", paragraph (2) in the definition of "Commencement of Construction", paragraph (9)(ii) in the definition of "Construction", and definition of "Foreign obligations" only)
3. 40.5
4. 40.7
5. 40.8
6. 40.12(b)
7. 40.13(c)(5)(iv)
8. 40.23
9. 40.27
10. 40.28
11. 40.31 (j)-(m)
12. 40.32(d) and (g), and any portion of (e) which applies to uranium enrichment & uranium hexafluoride facilities.
13. 40.33
14. 40.35(f)
15. 40.38
16. 40.41(d), (e)(1) and (3), (g) and (h)

17. 40.51(b)(6)
18. 40.52
19. 40.53
20. 40.56
21. 40.64
22. 40.66
23. 40.67
24. 40.81
25. 40.82
26. Criterion 11A-F and 12 of Appendix A

**Rule 14. Licensing Requirements for Land Disposal of Radioactive Waste**

**290 IAC 3-14-1 Applicability**

- Sec. 1 (a) This Article, except as otherwise specifically provided, applies to all persons who use, store, produce, transport, possess or dispose of radioactive materials within the state of Indiana.
- (b) This Article does not apply to any person to the extent such a person is subject to regulation by the U.S. Nuclear Regulatory Commission (NRC).
- (c) The requirements of this rule are in addition to, and not in substitution for, other requirements of this Article. Provisions of rules 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16, 17, and 18 also apply.

**290 IAC 3-14-2 Incorporated Material**

- Sec. 2. (a) Except as provided in this rule and to the extent that the provisions are not inconsistent with this Article, 10 CFR Part 61 are incorporated by reference.
- (b) The following requirements of 10 CFR Part 61 are not incorporated in this rule:
1. 61.2 definition of "Person"
  2. 61.3
  2. 61.4
  3. 61.5
  4. 61.6
  5. 61.7
  6. 61.8
  7. 61.9
  8. 61.9a
  9. 61.9b
  10. 61.10
  11. 61.11
  12. 61.12
  13. 61.13
  14. 61.14
  15. 61.15
  16. 61.16
  17. 61.20
  18. 61.21



- 19. 61.22
- 20. 61.23(a)-(l)
- 21. 61.24
- 22. 61.25
- 23. 61.26
- 24. 61.27
- 25. 61.28
- 26. 61.29
- 27. 61.30
- 28. 61.31
- 29. 61.32
- 30. 61.40
- 31. 61.41
- 32. 61.42
- 33. 61.43
- 34. 61.44
- 35. 61.50
- 36. 61.51
- 37. 61.52
- 38. 61.53
- 39. 61.54
- 40. 61.58
- 41. 61.59
- 42. 61.61
- 43. 61.62
- 44. 61.63
- 45. 61.70
- 46. 61.71
- 47. 61.72
- 48. 61.73
- 49. 61.80
- 50. 61.81
- 51. 61.82
- 52. 61.83
- 53. 61.84

**Rule 15. Specific Domestic Licenses of Broad Scope for Byproduct Material**

**290 IAC 3-15-1 Applicability**

Sec. 1 (a) This Article, except as otherwise specifically provided, applies to all persons who use, store, produce, transport, possess or dispose of radioactive materials within the state of Indiana.  
(b) This Article does not apply to any person to the extent such a person is subject to regulation by the U.S. Nuclear Regulatory Commission (NRC).

(c) The requirements of this rule are in addition to, and not in substitution for, other requirements of this Article. Provisions of rules 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, and 18 also apply.

### **290 IAC 3-15-2 Incorporated Material**

Sec. 2. (a) Except as provided in this rule and to the extent that the provisions are not inconsistent with this Article, 10 CFR Part 70 are incorporated by reference.

(b) The following requirements of 10 CFR Part 70 are not incorporated in this rule:

1. 70.1 (c), (d), & (e)
2. 70.4 (paragraph (2) in the definition of "Commencement of Construction" and paragraph (9)(ii) in the definition of "Construction" only)
3. 70.5
4. 70.7
5. 70.8
7. 70.13
8. 70.14
9. 70.20a
10. 70.20b
11. 70.21(a)(1), (c), (f), (g), & (h)
12. 70.22 (b), (c), (f)-(n)
13. 70.23(a)1, (a)(6) through (a)(12) and (b)
14. 70.23a
15. 70.24
16. 70.25(a)(1), (c), (d), and (f)
17. 70.31(c), (d), and (e)
18. 70.32(a)(1), (4), (5), (6), and (7) and (b)(1), (3), and (4)(c)-(k)
19. 70.37
20. 70.40
21. 70.42(b)(6)
22. 70.44
23. 70.51(c)
24. 70.52
25. 70.55(c)
26. 70.59
27. 70.60
28. 70.61
29. 70.62
30. 70.64
31. 70.65
32. 70.66
33. 70.72
34. 70.73
35. 70.74

- 36. 70.76
- 37. 70.82
- 38. 70.91
- 39. 70.92
- 40. Appendix A to Part 70

**Rule 16. Packaging and Transportation of Radioactive Material**

**290 IAC 3-16-1 Applicability**

Sec. 1. (a) This rule establishes requirements for packaging, preparation for shipment, and transportation of license material.

(b) The packaging and transportation of license material are also subject to the requirements of other agencies (e.g., the U.S. Department of Transportation, the U.S. Nuclear Regulatory Commission, and the U.S. Postal Service) having jurisdiction over means of transport.

(c) The requirements of this rule are in addition to, and not in substitution for, other requirements of this Article. Provisions of rules 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 17, and 18 also apply.

(d) This rule applies to any licensee authorized by specific or general license issued by the Department to receive, possess, use, or transfer licensed material, if the licensee delivers that material to a carrier for transport, transports the material outside the site of usage as specified in the Department license, or transports that material on public highways. No provision of this rule authorizes possession of licensed material.

**290 IAC 3-16-2 Incorporated Material**

Sec. 2. (a) Except as provided in this rule and to the extent that the provisions are not inconsistent with this Article, 10 CFR Part 71 is incorporated by reference.

(b) The following provisions of 10 CFR Part 71 are not incorporated in this rule:

- 1. 71.1
- 2. 71.6
- 3. 71.8
- 4. 71.9
- 5. 71.10
- 6. 71.11
- 7. The words "common defense and security" in 71.12
- 8. 71.14(b)
- 9. 71.16
- 10. 71.18
- 11. 71.19
- 12. 71.24
- 13. 71.25
- 14. 71.31
- 15. 71.33
- 16. 71.35
- 17. 71.37

- 18. 71.38
- 19. 71.39
- 20. 71.41
- 21. 71.43
- 22. 71.45
- 23. 71.51
- 24. 71.53
- 25. 71.55
- 26. 71.57
- 27. 71.59
- 28. 71.61
- 29. 71.63
- 30. 71.64
- 31. 71.65
- 32. 71.70
- 33. 71.71
- 34. 71.73
- 35. 71.74
- 36. 71.75
- 37. 71.77
- 38. 71.85(a), (b), and (c)
- 39. 71.91(b)
- 40. 71.99
- 41. 71.100
- 42. 71.101 (c)(2), (d), (e)
- 43. 71.107
- 44. 71.109
- 45. 71.111
- 46. 71.113
- 47. 71.115
- 48. 71.117
- 49. 71.119
- 50. 71.121
- 51. 71.123
- 52. 71.125

**Rule 17. Exemptions and Continued Regulatory Authority in Agreement States and in Offshore Waters Under Section 274**

**290 IAC 3-17-1 Applicability**

- Sec. 1 (a) This Article, except as otherwise specifically provided, applies to all persons who use, store, produce, transport, possess or dispose of radioactive materials within the state of Indiana.
- (b) This Article does not apply to any person to the extent such a person is subject to regulation by the U.S. Nuclear Regulatory Commission (NRC).

(d) The requirements of this rule are in addition to, and not in substitution for, other requirements of this Article. Provisions of rules 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, and 18 also apply.

### **290 IAC 3-17-2 Incorporated Material**

Sec. 2. (a) Except as provided in this rule and to the extent that the provisions are not inconsistent with this Article, 10 CFR Part 150 are incorporated by reference.

(b) The following requirements of 10 CFR Part 150 are not incorporated in this rule:

1. 150.3 (“Foreign obligations”, definition of “Commission”, “Department”, and “Special Nuclear Material” are reconciled in 290 IAC 3-1-3)
2. 150.4
3. 150.7
4. 150.8
5. 150.10
6. 150.14
7. 150.15
8. 150.15a
9. 150.16
10. 150.17
11. 150.17a
12. 150.19
13. 150.21
14. 150.30
15. 150.31
16. 150.32
17. 150.33

### **290 IAC 3-17-3 Medical Use Limitation**

Sec. 3. (a) The Department will not accept any applications for reciprocity under this rule with respect to activities authorized pursuant to regulations that are equivalent to Rule 13 of this Article entitled “Medical Use of Radioactive Material.” These activities will only be authorized under the provision of a specific license issued by the Department.

### **Rule 18. Fees**

#### **290 IAC 3-18-1 Applicability**

Sec. 1. (a) This section applies to any person who is an applicant for, or holder of, a radioactive materials license issued under 290 IAC Article 3 “Standards for Protection Against Radiation”.

#### **290 IAC 3-18-2 Incorporated Material**

Sec. 2. (a) Except as provided in this rule and to the extent that the provisions are not inconsistent with this Article, 10 CFR Part 170 and 171 are incorporated by reference.

(b) The following provisions of 10 CFR Part 170 and 171 are not incorporated in this rule:

1. 170.1

2. 170.2(d), (e), (g) through (p), (r), (t), and (u)
3. 170.4
4. 170.5
5. 170.8
6. 170.11(a)(1) through (12)
7. 170.12(c)(1), (c)(3), and (d) through (f)
8. 170.21
9. 170.51
10. 171.1
11. 171.3
11. 171.5
12. 171.7
13. 171.8
14. 171.9
15. 171.11(b) and (d)
16. 171.13
17. 171.15
18. 171.16(a)(1)(v) and (a)(2)
19. 171.17(a)
20. 171.19
21. 171.23
22. 771.25
23. 171.26
24. In 10 CFR 170.31 and 171.16, the following categories of materials licenses and types of fees are also not incorporated: 1.A, 1.B, 1.E, 1.F, 2.A.(1), 2.A.(2)(a) through 2.A.(2)(e), 2.A.(1)-(2), 2.A.(4), 2.C, 3.D, 3.H, 4.A, 9, 10, 11, 12, 13, 15, 17, and 18.

### **290 IAC 3-18-2 Radioactive Materials Fees**

Sec. 2. (a) Annual license fees for radioactive materials shall be those set forth in 10 CFR 170 and other radioactive materials fees as described in 10 CFR 171.

(1) No refund shall be made if a license is terminated or suspended.

(2) If, by amendment or otherwise, a license changes to another fee category, the fee for the new category will take effect on the anniversary date of the license.

(b) Fees shall be paid utilizing a method approved by the Department.

(c) An initial application for a license shall be accompanied by the appropriate fees set forth in 10 CFR 170 and 171. Thereafter, the Department shall issue an annual fee invoice in accordance with the appropriate fee schedule on a quarterly basis. Invoice quarter will be based on the month of license issuance. Invoices will be issued during the quarter prior. Fees shall be paid by the last day of the quarter as shown on the license fee invoice. This subdivision shall not apply to full cost recovery licenses.

(d) An application for reciprocal recognition of a license shall be accompanied by the fees set forth in 10 CFR 170 and 10 CFR 171.

(e) The Department shall not accept an initial application for a license or reciprocal recognition of a license prior to payment of the fees required by subsections (c) and (d) of this section.

(f) If a single license authorizes more than one activity (e.g. human use and irradiator activities), annual fees will be assessed for each fee category applicable to the license. If a person holds

more than one license, the total annual fee assessed will be the cumulative total of the annual fees applicable to each license held.

(g) Special provisions for calculating annual fees during the agreement state transition period.

(1) The annual fees for the NRC licenses that are transferred to the State of Indiana on the date the State of Indiana becomes an agreement state shall be invoiced during the next invoice quarter based on the month of license issuance.

(2) During the first year after the date the Department attains agreement state status, the annual fee for each NRC license transferred to the State of Indiana shall be prorated, based on the schedule of fees in 10 CFR 171, for the period from the date agreement state status is attained until the license's next invoice quarter.

### **290 IAC 3-18-3 Eligibility for Waiver of Annual Fee**

Sec. 3. (a) Any broad-scope (academic or medical) licensee that provides in-kind services to the Department and/or performs services pursuant to an accepted written agreement with the Department, and which are valued at an equal or greater amount than their annual license fee, must submit a written request for a waiver from payment of the annual license fee. Upon approval by the Department, this waiver shall only remain in effect for the annual licensing period. A new waiver must be submitted for each subsequent annual licensing period.

(b) Any licensee which is a governmental agency of the State of Indiana must submit a written request for a waiver from payment of the annual license fee. Upon approval by the Department, this waiver shall remain in effect until the expiration of the license. A new waiver request must be submitted with each subsequent license renewal.

(c) Revocation of Annual Fee Waiver

(1) Upon written notice of noncompliance to the licensee, the Department may revoke any waiver, approved pursuant to subsections (a) or (b) of this section, for failure to provide or perform all services pursuant to the accepted written agreement.

(2) The Department may also invoice the licensee for any difference between the originally waived annual fee and the value of services already performed during that annual licensing period.

### **290 IAC 3-18-4 Reciprocity Fees**

Sec. 4. (a) Each annual application to operate in Indiana under reciprocity shall be accompanied by the applicable fee listed in 10 CFR 170.31 Table 1. Reciprocity fees are non-refundable. There will be no pro-rating of reciprocity fees.

(b) A reciprocity application shall not be considered prior to payment of the full amount specified. Reciprocity applications for which no remittance is received shall be returned to the applicant.

(c) No additional reciprocity fees shall be required for the same category of activity during the remainder of that calendar year. All reciprocity authorizations shall expire on December 31 of the year in which the application was submitted. Any additional reciprocity activity beyond December 31 of that year shall require a new reciprocity application.

(d) Any person who holds a specific license issued by the U.S. Nuclear Regulatory Commission or any Agreement State and issued by the agency having jurisdiction where the licensee maintains an office for directing the licensed activity and at which radiation safety records are normally

maintained and is applying for reciprocity for the sole purpose of providing federally sponsored radiation training, the licensee may request in writing that the required reciprocity fee be waived.