

7.5	24 x 10 ⁶	17
10.0	24 x 10 ⁶	17
10 to 30	14 x 10 ⁶	10

1.3.3.5 For determining the doses specified in RHA 3.2 a dose from x- or gamma rays up to 3 mev may, for purposes of these regulations, be assumed to be equivalent to the exposure measured in air at or near body surfaces in the region of the highest dose rate by a properly calibrated appropriate instrument.

RHA 1.4. Units of Radioactivity

1.4.1 For the purposes of this part, activity is expressed in the special unit of curies (Ci) or in the SI unit of becquerels (Bq), or their multiples, or disintegrations (transformations) per unit of time.

1.4.1.1 One becquerel = 1 disintegration per second (s⁻¹).

1.4.1.2 One curie = 3.7 X 10¹⁰ disintegrations per second = 3.7 X 10¹⁰ becquerels = 2.22 X 10¹² disintegrations per minute. Commonly used submultiples of the curie are the millicurie (mCi) and the microcurie (uCi). One mCi = .001 curie (Ci) = 3.7 X 10⁷ dps or 2.22 X 10⁹ dpm. One uCi = .000001 Ci = 2.22 X 10⁶ dpm.

1.4.2 For purposes of these regulations, it may be assumed that the daughter activity concentrations in the following table are equivalent to an air concentration of 10⁻⁷ microcuries of Radon 222 per milliliter of air in equilibrium with the daughters RaA, RaB, RaC, and RaC¹

Alpha-emitting daughter activity collected per millimeter of air

Maximum time between collection and measurement (hours)*	Microcuries/ml.	Total alpha disintegrations per minute per ml.
0.5	7.2 x 10 ⁻⁸	0.16
1	4.5 x 10 ⁻⁸	0.10
2	1.3 x 10 ⁻⁸	0.029
3	0.3 x 10 ⁻⁸	0.0067

* - The duration of sample collection and the duration of measurement should be sufficiently short compared to the time between collection and measurement, as not to have a statistically significant effect upon the results.

RHA 1.5. Records

1.5.1 Each licensee shall keep records showing the receipt, transfer, and disposal of all sources of radiation and any other records as specifically required by these regulations.

40.61(a)(2)

19.17(a)

RHA 6.9. Inspections Not Warranted; Informal Review

6.9.1 If the Department determines, with respect to a complaint under RHA 6.8, that an inspection is not warranted because there are no reasonable grounds to believe that a violation exists or has occurred, he shall notify the complainant in writing of such determination. The complainant may obtain review of such determination by submitting a written statement of position with the Commissioner for the South Carolina Department of Health & Environmental Control who will provide the licensee with a copy of such statement by certified mail, excluding, at the request of the complainant, the name of the complainant. The licensee may submit an opposing written statement of position with the Department who will provide the complainant with a copy of such statement by certified mail. Upon the request of the complainant, the Department may hold an informal conference in which the complainant and the licensee may orally present their views. An informal conference may also be held at the request of the licensee, but disclosure of the identity of the complainant will be made only following receipt of written authorization from the complainant. After considering all written and oral views presented, the Commissioner for the South Carolina Department of Health & Environmental Control shall affirm, modify, or reverse the determination of the Department and furnish the complainant and the licensee a written notification of his decision and the reason therefor.

6.9.2 If the Department determines that an inspection is not warranted because the requirements of Section 6.8.1 have not been met, he shall notify the complainant in writing of such determination. Such determination shall be without prejudice to the filing of a new complaint meeting the requirements of Section 6.8.1.

RHA 6.10. Employee Protection

Employment discrimination by a licensee (or a holder of a certificate of compliance) or a contractor or subcontractor of a licensee (or a holder of a certificate of compliance) against an employee for engaging in protected activities under this Regulation is prohibited.

RHA 6.11. Discrimination Prohibited

No person shall on the ground of sex be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity licensed by this Department. This provision will be enforced through Department provisions and rules similar to those already established, with respect to racial and other discrimination, under Title 1, Chapter 13 of the South Carolina Code. This remedy is not exclusive, however, and will not prejudice or cut off any other legal remedies available to a discriminatee.

10 CFR Part 20, Appendix G equivalent

RHA 3.55. Appendix D - Requirements for Low-Level-Waste Transfer for Disposal at Land Disposal Facilities and Manifests

3.55.1 Manifest

3.55.1.1 A waste generator, collector, or processor who transports, or offers for transportation, low-level radioactive waste intended for ultimate disposal at a licensed low-level radioactive waste land disposal facility must prepare a Manifest reflecting information requested on applicable NRC Forms 540 (Uniform Low-Level Radioactive Waste Manifest [Shipping Paper]) and 541 (Uniform Low-Level Radioactive Waste Manifest [Container and Waste Description]) and, if necessary, on applicable NRC Form 542 (Uniform Low-Level Radioactive Waste Manifest [Manifest Index and Regional Compact Tabulation]). NRC Forms 540 and 540A must be completed and must physically accompany the pertinent low-level waste shipment. Upon agreement between shipper and consignee, NRC Forms 541 and 541A and 542 and 542A may be completed, transmitted, and stored in electronic media with the capability for producing legible, accurate, and complete records on the respective forms. For guidance in completing these forms, refer to the instructions that accompany the forms. Copies of manifests required by this appendix may be legible carbon copies, photocopies, or computer printouts that reproduce the data in the format of the uniform manifest. NRC Forms 540, 540A, 541, 541A, 542, and 542A, and the accompanying instructions, in hard copy, may be obtained from the Information and Records Management Branch, Office of Information Resources Management, U.S. Nuclear Regulatory Commission, Washington, DC 20555, telephone (301) 415-7232. This appendix includes information requirements of the Department of Transportation. Information on hazardous, medical, or other waste, required to meet Environmental Protection Agency regulations is not addressed in this section, and must be provided on the required EPA forms. However, the required EPA forms must accompany the Uniform Low-Level Radioactive Waste Manifest required by this part. Licensees are not required by the Department to comply with the manifesting requirements of this part when they ship:

3.55.1.1.1 LLW for processing and expect its return (i.e. for storage under their license) prior to disposal at a licensed land disposal facility;

3.55.1.1.2 LLW that is being returned to the licensee who is the "waste generator" or "generator," as defined in this part; or

3.55.1.1.3 Radioactively contaminated material to a "waste processor" that becomes the processor's "residual waste."

3.55.1.2 General Information. The shipper of the radioactive waste, shall provide the following information on the uniform manifest:

3.55.1.2.1 The name, facility address, and telephone number of the licensee shipping the waste;

3.55.1.2.2 An explicit declaration indicating whether the shipper is acting as a waste generator, collector, processor, or a combination of these identifiers for purposes of the manifest shipment; and

3.55.1.2.3 The name, address, and telephone number, or the name and EPA identification number for the carrier transporting the waste.

3.55.1.3 Shipment Information. The shipper of the radioactive waste shall provide the following information regarding the waste shipment on the uniform manifest: