**Title 33**

**ENVIRONMENTAL QUALITY**

**Part XV. Radiation Protection**

**Chapter 4. Standards for Protection against Radiation**

**Subchapter C. Surveys and Monitoring**

**§430. General**

 A. **—** C.2. …

 3. No licensee or registrant shall subtract radiation exposures from official personnel monitoring records without the prior written approval of the department.

 D. — E. …

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2001 et seq., and 2104(B).

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Air Quality and Radiation Protection, Radiation Protection Division, LR 19:1421 (November 1993), amended LR 20:653 (June 1994), LR 22:971 (October 1996), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 29:1468 (August 2003), amended by the Office of the Secretary, Legal Affairs Division, LR 31:2529 (October 2005), LR 33:2181 (October 2007), amended by the Office of the Secretary, Legal Division, LR 41:2134 (October 2015), amended by the Office of the Secretary, Legal Affairs Division LR 50:

**Subchapter G. Precautionary Procedures**

**§455. Procedures for Receiving and Opening Packages**

 A. — D. …

 1. removable radioactive surface contamination exceeds the limits of LAC 33:XV.1516.~~A~~B.9; or

1. 2. external radiation levels exceed the limits of LAC 33:XV.1516. ~~A~~B.10.
2. E. — F. …
3. \* \* \*

 AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2001 et seq.

 HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Nuclear Energy Division, LR 13:569 (October 1987), amended by the Office of Air Quality and Radiation Protection, Radiation Protection Division, LR 19:1421 (November 1993), LR 22:973 (October 1996), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 26:2577 (November 2000), LR 28:1951 (September 2002), amended by the Office of the Secretary, Legal Affairs Division, LR 34:2103 (October 2008), LR 50:

**Subchapter J. Reports**

**§493. Reports of Transactions Involving Nationally Tracked Sources**

 A. — H. …

 ~~I. Each licensee who possesses Category 1 nationally tracked sources shall report the initial inventory of the licensee’s Category 1 nationally tracked sources to the national source tracking system by January 31, 2009. Each licensee who possesses Category 2 nationally tracked sources shall report the initial inventory of the licensee's Category 2 nationally tracked sources to the national source tracking system by January 31, 2009. The information may be submitted by using any of the methods specified in Paragraphs G.1-4 of this Section. The initial inventory report must include the following information:~~

1. ~~1. the name, address, and license number of the reporting licensee;~~
2. ~~2. the name of the individual preparing the report;~~
3. ~~3. the manufacturer, model, and serial number of each nationally tracked source or, if not available, other information to uniquely identify the source;~~
4. ~~4. the radioactive material in the sealed source;~~
5. ~~5. the initial or current source strength in becquerels (curies); and~~
6. ~~6. the date for which the source strength is reported.~~

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2001 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of the Secretary, Legal Affairs Division, LR 33:2361 (November 2007), amended LR 34:243 (February 2008), LR 50:

**Chapter 7.** **Use of Radionuclides in the Healing Arts**

**§763. Training**

 A.— A.3.b. …

 c. has experience with the radiation safety aspects of the types of use of byproduct material for which the individual is seeking simultaneous approval both as the radiation safety officer and the authorized user on the same new medical use license or new medical use permit issued by a NRC master material ~~license~~licensee. The individual shall also meet the requirements in Paragraph A.4 of this Section.

 A.4. — B.5. …

 6. Physicians, dentists, or podiatrists not identified as authorized users for the medical use of byproduct material on a license issued by the NRC or agreement state, a permit issued by a NRC master material licensee, a permit issued by a NRC or an agreement state broad scope licensee, or a permit issued ~~by~~in accordance with a NRC master material license of broad scope on or before October 24, 2005, need not comply with the training requirements of this Chapter for those materials and uses that these individuals performed on or before October 24, 2005, as follows:

 B.6.a. — K.1. …

 a. have graduated from a pharmacy program accredited by the ~~American~~Accreditation Council ~~on~~for ~~Pharmaceutical~~Pharmacy Education (ACPE) or have passed the Foreign Pharmacy Graduate Examination Committee (FPGEC) examination;

 K.1.b. — M. …

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2001 et seq., and 2104.B.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Air Quality and Radiation Protection, Radiation Protection Division, LR 18:34 (January 1992), amended LR 24:2106 (November 1998), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 26:2590 (November 2000), LR 30:1186 (June 2004), amended by the Office of Environmental Assessment, LR 31:1061 (May 2005), amended by the Office of the Secretary, Legal Affairs Division, LR 32:814 (May 2006), LR 34:983 (June 2008), LR 34:2121 (October 2008), LR 36:1772 (August 2010), amended by the Office of the Secretary, Legal Division, LR 38:2748 (November 2012), LR 40:1342 (July 2014), amended by the Office of the Secretary, Legal Affairs and Criminal Investigations Division, LR 44:2138 (December 2018), LR 45:1179 (September 2019), LR 47:1860 (December 2021), amended by the Office of the Secretary, Legal Affairs Division, LR 49:62 (January 2023), LR 50:

**Chapter 16.** **Physical Protection of Category 1 and Category 2 Quantities of Radioactive Material**

**Subchapter Z.** **Appendices**

**§1699. Appendices**

Appendix A—Category 1 and Category 2 Threshold

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Radioactive Material** | **Category 1 (TBq)** | **Category 1 (Ci)** | **Category 2 (TBq)** | **Category 2 (Ci)** |
| \* \* \* |

The terabecquerel (TBq) values are the regulatory standard. The curie (Ci) values specified are obtained by converting from the TBq value. The curie values are provided for practical usefulness only.

**Note**: *Calculations Concerning Multiple Sources or Multiple Radionuclides*

The "sum of fractions" methodology for evaluating combinations of multiple sources or multiple radionuclides is to be used in determining whether a location meets or exceeds the threshold and is thus subject to the requirements of this Chapter.

I. If multiple sources of the same radionuclide and/or multiple radionuclides are aggregated at a location, the sum of the ratios of the total activity of each of the radionuclides shall be determined to verify whether the activity at the location is less than the category 1 or category 2 thresholds of Table 1, as appropriate. If the calculated sum of the ratios, using the equation below, is greater than or equal to 1.0, then the applicable requirements of this Chapter apply.

II. First determine the total activity for each radionuclide from Table 1. This is done by adding the activity of each individual source, material in any device, and any loose or bulk material that contains the radionuclide. Then use the equation below to calculate the sum of the ratios by inserting the total activity of the applicable radionuclides from Table 1 in the numerator of the equation and the corresponding threshold activity from Table 1 in the denominator of the equation.

Calculations shall be performed in metric values (i.e., TBq) and the numerator and denominator values shall be in the same units.

R1 = total activity for radionuclide 1

R2 = total activity for radionuclide 2

RN = total activity for radionuclide n

AR1 = activity threshold for radionuclide 1

AR2 = activity threshold for radionuclide 2

ARN = activity threshold for radionuclide n

$$\sum\_{1}^{n}\left[\frac{R\_{1}}{AR\_{1}}+\frac{R\_{2}}{AR\_{2}}+\frac{R\_{n}}{AR\_{n}}\right]\geq 1.0$$

$$\frac{R\_{1}}{AR\_{1}}+\frac{R\_{2}}{AR\_{2}}+\cdots +\frac{R\_{n}}{AR\_{n}}\geq 1.0$$

 AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2001 et seq., and 2104(B).

 HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of the Secretary, Legal Division, LR 41:2338 (November 2015), amended by the Office of the Secretary, Legal Affairs Division, LR 50: