

Title 33
ENVIRONMENTAL QUALITY

Part XV. Radiation Protection

Chapter 1. General Provisions

§102. Definitions and Abbreviations

As used in these regulations, these terms have the definitions set forth below. Additional definitions used only in a certain chapter may be found in that chapter.

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Nationally Tracked Source—a sealed source containing a quantity equal to or greater than the Category 1 or Category 2 levels of any radioactive material listed in LAC 33:XV.399.Appendix G. In this context a sealed source is defined as radioactive material that is sealed in a capsule or closely bonded, in a solid form, and that is not exempt from regulatory control. It does not mean material encapsulated solely for disposal, or nuclear material contained in any fuel assembly, subassembly, fuel rod, or fuel pellet. Category 1 nationally tracked sources are those containing radioactive material at a quantity equal to or greater than the Category 1 threshold. Category 2 nationally tracked sources are those containing radioactive material at a quantity equal to or greater than the Category 2 threshold but less than the Category 1 threshold.

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Chapter 3. Licensing of Radioactive Material

Subchapter D. Specific Licenses

§361. Registration of Product Information

A. – F.2. ...

G. *Serialization of Nationally Tracked Sources.* Each licensee who manufactures a nationally tracked source after February 6, 2007, shall assign a unique serial number to each nationally tracked source. Serial numbers must be composed only of alpha-numeric characters.

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seq.

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Subchapter Z. Appendices

§399. Schedules A and B, and Appendices A, B, C, D, E, and F, and G

Schedule A. – Appendix F, C.5. ...

Appendix G

Nationally Tracked Source Thresholds

The terabecquerel (TBq) values given in this table are the regulatory standard. The curie (Ci) values specified are obtained by converting the TBq value. The Ci values are provided for practical usefulness only and are rounded after conversion.

<u>Nationally Tracked Source Thresholds</u>				
<u>Radioactive Material</u>	<u>Category 1</u>		<u>Category 2</u>	
	<u>TBq</u>	<u>Ci</u>	<u>TBq</u>	<u>Ci</u>
<u>Actinium-227</u>	<u>20</u>	<u>540</u>	<u>0.2</u>	<u>5.4</u>
<u>Americium-241</u>	<u>60</u>	<u>1,600</u>	<u>0.6</u>	<u>16</u>
<u>Americium-241/Be</u>	<u>60</u>	<u>1,600</u>	<u>0.6</u>	<u>16</u>
<u>Californium-252</u>	<u>20</u>	<u>540</u>	<u>0.2</u>	<u>5.4</u>
<u>Cobalt-60</u>	<u>30</u>	<u>810</u>	<u>0.3</u>	<u>8.1</u>
<u>Curium-244</u>	<u>50</u>	<u>1,400</u>	<u>0.5</u>	<u>14</u>
<u>Cesium-137</u>	<u>100</u>	<u>2,700</u>	<u>1</u>	<u>27</u>
<u>Gadolinium-153</u>	<u>1,000</u>	<u>27,000</u>	<u>10</u>	<u>270</u>
<u>Iridium-192</u>	<u>80</u>	<u>2,200</u>	<u>0.8</u>	<u>22</u>
<u>Plutonium-238</u>	<u>60</u>	<u>1,600</u>	<u>0.6</u>	<u>16</u>
<u>Plutonium-239/Be</u>	<u>60</u>	<u>1,600</u>	<u>0.6</u>	<u>16</u>
<u>Polonium-210</u>	<u>60</u>	<u>1,600</u>	<u>0.6</u>	<u>16</u>
<u>Promethium-147</u>	<u>40,000</u>	<u>1,100,000</u>	<u>400</u>	<u>11,000</u>
<u>Radium-226</u>	<u>40</u>	<u>1,100</u>	<u>0.4</u>	<u>11</u>
<u>Selenium-75</u>	<u>200</u>	<u>5,400</u>	<u>2</u>	<u>54</u>
<u>Strontium-90</u>	<u>1,000</u>	<u>27,000</u>	<u>10</u>	<u>270</u>
<u>Thorium-228</u>	<u>20</u>	<u>540</u>	<u>0.2</u>	<u>5.4</u>
<u>Thorium-229</u>	<u>20</u>	<u>540</u>	<u>0.2</u>	<u>5.4</u>
<u>Thulium-170</u>	<u>20,000</u>	<u>540,000</u>	<u>200</u>	<u>5,400</u>
<u>Ytterbium-169</u>	<u>300</u>	<u>8,100</u>	<u>3</u>	<u>81</u>

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