

# **SPECTECH**

**SPECTRUM TECHNIQUES, L.L.C.**

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January 6, 2021



Director  
Office of Nuclear Material Safety and Safeguards  
ATTN: Document Control Desk/Exempt Distribution  
U.S. Nuclear Regulatory Commission  
11555 Rockville Pike  
Rockville, MD 20852

**License No. 41-23845-01E**  
**Docket No. 030-34126**

**Subject:** Annual Material Transfer Report for Exempt Quantities Distribution

Director:

The attached information is provided to satisfy the annual reporting requirements pursuant to 10 CFR 32.20 for our Exempt Quantity Distribution License No. 41-23845-01E, Docket No. 030-34126. Transfers of byproduct material under 10 CFR 32.18, for use under 10 CFR 30.18 or equivalent regulations of an Agreement State, during the reporting period between January 1, 2020 and December 31, 2020 can be found on the attached report.

Records of transfer of material identifying, by name and address, each person to whom byproduct material was transferred for use under 10 CFR 30.18 or the equivalent regulations of an Agreement State stating the kinds, quantities, and physical form of the byproduct material are maintained on file at Spectrum Techniques.

If you have any questions, please feel free to contact me at [d.sims@spectrumtechniques.com](mailto:d.sims@spectrumtechniques.com) or (865) 482-9937.

Sincerely,



Daniel M. Sims  
Radiation Protection Manager  
Spectrum Techniques, LLC.

## Spectrum Techniques' 2020 Radioactive Material Transfer Report

RADIONUCLIDE	FORM	TOTAL ACTIVITY		
		μCi	mCi	MBq
<b>Antimony 125</b>	Solid Sealed Source	0.75	0.00075	0.02775
<b>Barium 133</b>	Solid Sealed Source	1221.705	1.221705	45.203085
<b>Cadmium 109</b>	Solid Sealed Source	453.2	0.4532	16.7684
<b>Carbon 14</b>	Solid Sealed Source	208.1	0.2081	7.6997
<b>Cesium 137</b>	Solid Sealed Source	8868.658	8.868658	328.140346
<b>Cobalt 57</b>	Solid Sealed Source	4804.3	4.8043	177.7591
	Liquid Source	1	0.001	0.037
<b>Cobalt 60</b>	Solid Sealed Source	930.67	0.93067	34.43479
<b>Europium 152</b>	Solid Sealed Source	338.05	0.33805	12.50785
<b>Europium 155</b>	Solid Sealed Source	212	0.212	7.844
<b>Iodine 125</b>	Solid Sealed Source	18.9	0.0189	0.6993
<b>Iron 55</b>	Solid Sealed Source	1085.2	1.0852	40.1524
<b>Lead 210</b>	Plated Source	1.21	0.00121	0.04477
<b>Manganese 54</b>	Solid Sealed Source	337.2	0.3372	12.4764
	Liquid Source	1	0.001	0.037
<b>Polonium 210</b>	Solid Sealed Source	5.71	0.00571	0.21127
	Liquid Source	0.2	0.0002	0.0074
	Plated Source	86.42	0.08642	3.19754
<b>Sodium 22</b>	Solid Sealed Source	1581.9	1.5819	58.5303
<b>Strontium 90</b>	Solid Sealed Source	60.25	0.06025	2.22925
	Plated Source	0.9	0.0009	0.0333
<b>Thalium 204</b>	Solid Sealed Source	640.25	0.64025	23.68925
<b>Tin 113</b>	Solid Sealed Source	41.25	0.04125	1.52625
<b>Zinc 65</b>	Solid Sealed Source	227.25	0.22725	8.40825
	Liquid Source	1	0.001	0.037

<b>TOTAL ACTIVITY SHIPPED IN 2020</b>	21.127073	781.701701
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