

SPECTECH

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January 10, 2018

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, 2017 and December 31, 2017 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 or (865) 482-9937.

Sincerely,



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

NM5503

Spectrum Techniques' 2017 Radioactive Material Transfer Report

Radionuclide	Form	Total Activity		
		μCi	mCi	MBq
Barium-133	Solid Sealed Source	2056.1	2.0561	76.0757
Cadmium-109	Solid Sealed Source	702	0.702	25.974
Carbon-14	Solid Sealed Source	472	0.472	17.464
Cesium-137	Solid Sealed Source	13366.248	13.366248	494.551176
Cobalt-57	Solid Sealed Source	4539.4	4.5394	167.9578
Cobalt-60	Solid Sealed Source	1501.005	1.501005	55.537185
Europium-152	Solid Sealed Source	321.2	0.3212	11.8844
Europium-154	Solid Sealed Source	1	0.001	0.037
Europium-155	Solid Sealed Source	283.25	0.28325	10.48025
Iodine-125	Solid Sealed Source	6.2	0.0062	0.2294
Iodine-129	Solid Sealed Source	5.15	0.00515	0.19055
Iron-55	Solid Sealed Source	5305	5.305	196.285
Lead-210	Plated Source	3	0.003	0.111
Manganese-54	Solid Sealed Source	466.25	0.46625	17.25125
Polonium-210	Plated Source	267.23	0.26723	9.88751
	Liquid Source	0.3	0.0003	0.0111
Sodium-22	Solid Sealed Source	2,586.1	2.5861	95.6857
Strontium-90	Solid Sealed Source	188.3	0.1883	6.9671
	Plated Source	0.28	0.00028	0.01036
Thallium-204	Solid Sealed Source	492.5	0.4925	18.2225
Tin-113	Solid Sealed Source	9.25	0.00925	0.34225
Zinc-65	Solid Sealed Source	321.25	0.32125	11.88625
Total Activity Shipped in 2017			32.893013 mCi	1217.041481 MBq