NRC FORM 374

U.S. NUCLEAR REGULATORY COMMISSION

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MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee		In accordance with application dated June 21, 2011 and letter received September15, 2011,						
1. Positron Corporation		3. License number 13-3	2765-01 is amended in its					
		Entirety to read as follows:						
2. 9715 Kincaid		4. Expiration date Dece	mber 31, 2019					
Suite 1000		5. Docket No. 030-381	50					
Fishers, IN 46038		Reference No.						
6. Byproduct, source, and/or special 7, nuclear material	Chemical and/or	physical form 8.	Maximum amount that licensee may possess at any one time under this license					
A. Flourine-18	A. Any		A. 1000 millicuries					
B. Gallium-67	B. Any		B. 50 millicuries					
C. Strontium-82	C. Any		C. 200 millicuries					
D. Ribidium-82	D. Any		D. 200 millicuries					
E. Strontium-85	E. Any	an a	E. 1000 millicuries					
F. Molybdenum-99	F. Any		F. 25 curies					
G. Technetium-99m	G. Any		G. 25 curies					
H. Thallium-201	H. Any		H. 100 millicuries					
I. Cobalt-57	I. Sealed sou Isotopes P Model PHI- series A32 Internation Idaho Mod series)	rces (IPL and roducts Cesio -XXXG GFS 01; al Isotopes el BM06E &S	 11 millicuries each for a total of 50 millicuries 					
J. Colbait-57	J. Sealed sour Ziegler Isot Model NES Internation Model BMC	rces (Eckert & tope Products 3 Flood series; al Isotopes 04 series)	J. 15 millicuries each for a total of 50 millicuries					

Corrected copy

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K. Germanium-68	8 K.	Sealed source (S Medical Products PET-XXX/YY; International Isot Idaho, Inc. Mode BM06E & S serie	Sanders s Model copes els es)	K.	1000 mil	licur	ies		
L. Americium-241	1. L.	Sealed source (IF Isotope Products Models PHI-XXX Series or Am1.G	PL and Cesio GFS 10)	L.	10 millicu	iries	;		
M. Cesium-137 N. Indium-111	M. N.	Sealed source (Is Products Laborat Model GF-XXX T series; Internatio Isotopes Idaho, I Model BM06S se Liquid	sotope tories Type R nal nc. eries)	M. N.	1 millicur 500 millio	ie curie	es		
O. Barium-133	0.	Sealed source (International Iso Idaho, Inc. Mode 33)	topes I BM06E-	Ο.	600 micr	ocu	ries	-	
9. Authorized Use:		and a second s							*
A through I	Research and Develop	ment as defined h	v 10 CER 30 4						
A. Ent polibratic	These and Develop								
N. and O. For reequip	esearch and developme	nt as defined by 1	0 CFR 30.4 and	for	calibratin	g te	st		
		CONDITIONS							
10. Licensed materia and at 1195 Arro	al shall be used only at t whead Court, Crown Po	the licensee's facil oint, Indiana.	ities located at 9	715	Kincaid	l, Fi	sher	s, lı	ıdiana
11. A. Licensed r	materials shall be used	d by, or under the	e supervision o	f Jir	nmy Loc	or.			
B. The Radiatio	n Safety Officer for thi	s license is Jimn	ny Loor.						

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12.	Licensed material shall not be used in or on humans exc of this license.	ept as provided otherwise by specific condition
13.	The licensee shall not use licensed material in field appli provided otherwise by specific condition of this license.	cations where activity is release except as
14.	The licensee shall conduct a physical inventory every 6 r U.S. Nuclear Regulatory Commission, to account for all under the license. Records of inventories shall be mainta and shall include the radionuclides, quantities, manufact the inventory.	months, or at other intervals approved by the sources and/or devices received and possessed ained for 5 years from the date of each inventory, urer's name and model numbers, and the date of
15.	Sealed sources containing licensed material shall not be holders by the licensee.	opened or sources removed from source
16.	The licensee shall not acquire licensed material in a seal source unless the source or device has been registered under 10 CFR 32.210 or with an Agreement State.	ed source or device that contains a sealed with the U.S. Nuclear Regulatory Commission
17.	A. Sealed sources shall be tested for leakage and/or of intervals specified in the certificate of registration is Commission under 10 CFR 32.210 or under equivalent	contamination at intervals not to exceed the sued by the U.S. Nuclear Regulatory lent regulations of an Agreement State.
	B. In the absence of a certificate from a transferor indi intervals specified in the certificate of registration is Commission under 10 CFR 32.210 or under equiva the transfer, a sealed source received from another the test results received.	cating that a leak test has been made, within the sued by the U.S. Nuclear Regulatory lent regulations of an Agreement state, prior to person shall not be put into use until tested and
	C. Sealed sources need not be leak tested if they contradioactive gas; or the half-life of the isotope is 30 c microcuries of beta and/or gamma emitting material emitting material.	ain only hydrogen-3; or they contain only a lays or less; or they contain no more than 100 l or not more than 10 microcuries of alpha
•	D. Sealed sources need not be tested if they are in sto they are removed from storage for use or transferre within the required leak test interval, they shall be to shall be stored for a period of more than 10 years w contamination.	brage, and are not being used. However, when the to another person, and have not been tested ested before use or transfer. No sealed source without being tested for leakage and/or
	E. The leak test shall be capable of detecting the press radioactive material on the test sample. If the test re becquerels) or more of removable contamination, a Regulatory Commission in accordance with 10 CFF immediately from service and decontaminated, repa Commission regulations.	ence of 0.005 microcurie (185 becquerels) of eveals the presence of 0.005 microcurie (185 report shall be filed with the U.S. Nuclear 30.50(c)(2), and the source shall be removed aired, or disposed of in accordance with

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- F. Tests for leakage and/or contamination shall be performed by persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services. In addition, the licensee is authorized to collect leak test samples for analysis by persons specifically licensed by the Commission or an Agreement State to perform such services.
- G. Records of leak test results shall be kept in units of microcuries and shall be maintained for 3 years.
- 18. The licensee is authorized to transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
- In addition to the possession limits in item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35 (d) for establishing decommissioning financial assurance.
- 20. Calibration of survey instruments shall be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.
- 21. The licensee is authorized to hold radioactive material with a physical half-life of less than 120 days for decay-in-storage before disposal in ordinary trash provided:
 - A. Before disposal as ordinary trash, byproduct material shall be surveyed at the container surface with the appropriate survey meter set on its most sensitive scale and with no interposed shielding to determine that its radioactivity cannot be distinguished from background. All radiation labels shall be removed or obliterated.
 - B. A record of each disposal permitted under this License Condition shall be retained for three years. The record must include the date of disposal, the date on which the byproduct material was placed in storage, the radionuclides disposed, the survey instrument used, the background dose rate, the dose rate measured at the surface of each waste container, and the name of the individual who performed the disposal.

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- 22. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commissions's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
 - A. Application dated September 14, 2009; and
 - B. Facsimile dated October 30, 2009; and
 - C. Letter dated November 5, 2010; and
 - D. Letter received September 15, 2011

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date SEP 3 0 2011

By

Toye L⁰ Simmons Materials Licensing Branch Region III