Official Use Only Security-Related Information

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 w	ith ti	ne application received
Eloundo			August 12, 2008		to application received
1. E.R. Squibb & Sons, LLC					9-00139-02 is amended in
The manufacture of the second			its entirety to rea		
2. One Squibb Drive			4. Expiration dat	e No	ovember 30, 2018
P.O. Box 191			5. Docket No. 03	30-0	5222
New Brunswick, New Jersey 089	903-0	191	Reference No	١.	
					
Byproduct, source, and/or special nuclear material	7.	Chemical and/or	physical form	8.	Maximum amount that licensee may possess at any one time under this license
A. Any byproduct material with atomic numbers 1 through 83, except Strontium 90	Α.	Any		Α.	100 millicuries per radionuclide and 2 curies total
B. Hydrogen 3	В.	Any	~	В.	20 curies
C. Carbon 14	Ċ.	Any	***	C.	20 curies
D. Strontium 90	D.	Any		D.	2 millicuries
E. Any byproduct material with atomic numbers 84 through 103	E.	Any		E.	1 millicuries
F. Nickel 63	F.	Sealed Source Model G2397A Model 400B-07 and Smith Mod	x; Barringer 753, 400B-7169;	F.	15 millicuries per source and 55 millicuries total
G. Any byproduct material with atomic numbers 1 through 83	G.	Any		G.	100 millicuries per radionuclide and 2 icuries total
H. Hydrogen 3	H.	Any		Н.	250 curies
I. Carbon 14	I.	Any		1.	25 curies
J. Phosphorus 33	J.	Any		J.	1 curie
K. Sulfur 35	K.	Any		K.	10 curies
L. Technetium 99m	L.	Any .		L.	750 millicuries
M. Iodine 125	M.	Any		М.	500 millicuries

Information in this record was deleted in accordance with the Freedom of Information Act Official Use Only - Security-Related Information

2011-0063

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	 								V		
6.	Byproduct, source, and/or special 7. Chemical and/or physical nuclear material				eal form 8. Maximum amount that licensee may possess at any one time under this license						
N.		product material with numbers 1 through 83	N.	Any	N.	N. 100 millicuries per radionuclide and 2 curies total					
Ο.	Hydrog	en 3	Ο.	Any	Ο.	1 curie					
	Carbon			Any		1 curie					
	Sulfur 3			Any	Q.	300 millicu	ries				
	Calciun			Any		300 millicu					
F.	through I To be I U.S. N distribu	ized use: E. and G. through R. used for sample analysis uclear Regulatory Comm uted in accordance with a s specifically authorized vices.	and in ga nissior a Com	n under 10 CFR 32.21 mission or Agreemen	ing of the licens vices that have 0 or with an Ag t State specific	see's instrun been registe reement Sta license auth	nents ered ite a iorizi	s. eithe nd ha ing di	r wit ive b strib	h the been ution to	
				CONDITIONS							
10.	Α.	A. Licensed material in items 6.A. through 6.F.may be used or stored only at the licensee's facilities located at One Squibb Drive, New Brunswick, New Jersey									
	В.	Licensed material in ite licensee's facilities loca	ms 6. ated a	F. through 6.M (b)(7)(F t Route 206 and Provi	may only be nceline Road, L	used or sto awrenceville	red o	only a ew Je	t the	; /.	
	C.	Licensed material in ite licensee's facilities loca	ms 6. ated at	F. and 6.N. through 6. t 311 Pennington-Roc	R may only be ky Hill Road, Pe	used or stor ennington, N	ed o lew .	nly at Jerse	the y.		

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- 11. Licensed material shall only be used by, or under the supervision of, individuals designated, in writing, by the Radiation Safety Committee. The licensee shall maintain records of individuals designated as users for 3 years following the last use of licensed material by the individual.
- 12. The Radiation Safety Officer for this license is Michael J. Vala, CHP.

(b)(7)(F)

- 14. The licensee shall not use licensed material in or on human beings.
- 15. The licensee shall not use licensed material in field applications where it is released except as provided otherwise by specific condition of this license.
- 16. Experimental animals, or the products from experimental animals, that have been administered licensed materials shall not be used for human consumption.
- 17. This license does not authorize commercial distribution of licensed material.
- 18. This license does not authorize distribution to persons licensed pursuant to 10 CFR 32.72 or 32.74; to persons exempt from licensing; or to general licensees.
- 19. Not withstanding 10 CFR 33.17(a)(4), the licensee is authorized to manufacture drugs containing radioactive material for distribution to specific licensees.
- 20. A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed six months or at the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State.
 - B. Notwithstanding Paragraph A of this Condition, sealed sources designed to primarily emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed 3 months.

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- C. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source.
- D. In the absence of a certificate from a transferor indicating that a leak test has been made within the intervals specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or under equivalent regulations of an Agreement State, prior to the transfer, a sealed source received from another person shall not be put into use until tested and the test results received.
- E. Sealed sources need not be tested if they contain only hydrogen-3; or they contain only a radioactive gas; or the half-life of the isotope is 30 days or less; or they contain not more than 100 microcuries of beta- and/or gamma-emitting material or not more than 10 microcuries of alpha-emitting material.
- F. Sealed sources need not be tested if they are in storage and are not being used; however, when they are removed from storage for use or transferred to another person and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- G. The leak test shall be capable of detecting the presence of 0.005 microcurie (185 becquerels) of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie (185 becquerels) or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(c)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations.
- H. Tests for leakage and/or contamination, including leak test sample collection and analysis, shall be performed by the licensee or by other persons specifically licensed by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services.
- 1. Records of leak test results shall be kept in units of microcuries and shall be maintained for 5 years.
- 21. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
- 22. The licensee shall conduct a physical inventory every six months, or at other intervals approved by the U.S. Nuclear Regulatory Commission, to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 5 years from the date of each inventory and shall include the radionuclides, quantities, manufacturer's name and model numbers, and the date of the inventory.

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24.	shall	ntenance, repair, cleaning, replacement, and disposa I be performed only by the device manufacturer or ot ne U.S. Nuclear Regulatory Commission or an Agree	her persons specifica	illy auth	noriz	ed		
25.	Α.	Detector cells containing a titanium tritide foil or a conjunction with a properly operating temperature temperatures from exceeding that specified in the 10 CFR 32.210.	control mechanism w	hich pr	eve	nts th	e foil	
	В.	When in use, detector cells containing a titanium to the outside.	ritide foil or a scandiu	m tritid	e foi	l shal	l be	vented
26.		licensee is authorized to hold byproduct material wit days for decay-in-storage before disposal without re						0
	Α.	Monitors byproduct material at the surface before cannot be distinguished from the background radia survey meter set on its most sensitive scale and w	ation level with an app	propriat	te ra			
	B.	Removes or obliterates all radiation labels, except containers and that will be managed as biomedica licensee; and						
	C.	Maintains records of the disposal of licensed mate date of disposal, the survey instrument used, the bemeasured at the surface of each waste container, the disposal.	ackground radiation I	evel, th	ne ra	diatio	n lev	vel 💮
27.		licensee is authorized to transport licensed material FR Part 71, "Packaging and Transportation of Radio		e provi	ision	s of		
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28.	acco inclu- shall and	pt as specifically provided rdance with the statement of	ents, representat ited below. The l ements, represen ore restrictive than	tions, and U.S. Nuc ntations, n the reg	d procedures contained clear Regulatory Command procedures in the	d in the o	docu regu	ment lation	s, 1s		
	A. B. C.	Letter dated June 16, Application dated rece Letter dated October 2	eived August 12,	2008 [M							
	Ο.	Lotter dated October 7	20, 2000 [MC000	0402201							
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				For the	U.S. Nuclear Regulate	ory Com	miss	ion			
Date		November 25, 2008		Ву	Original signed by J	ames P.	Dwj	yer			
				•	James P. Dwyer, Chie Commercial and R&D Division of Nuclear Ma Region I King of Prussia, Penn	Branch aterials S		-			