Official Use Only Security-Related Information

U.S. NUCLEAR REGULATORY COMMISSION

PAGE <u>1</u> OF <u>6</u> PAGES Amendment No. 113

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	In accordance with the letter received						
			Fe	February 20, 2009, 3. License number 29-00139-02 is amended in its entirety to read as follows:						
1.	E.R. Squibb & Sons, LLC		3. its							
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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	03-01	191	Reference No	•					
6.	Byproduct, source, and/or special nuclear material	7.	Chemical and/or phys	sical form	8.	Maximum amount that licensee may possess at any one time under this license				
Α.	Any byproduct material with atomic numbers 1 through 83, except Strontium 90	A .	Any		Α.	100 millicuries per radionuclide and 2 curies total				
В.	Hydrogen 3	B. -	Any	· · · ·	Β.	20 curies				
С.	Carbon 14	C.	Any	- •	C.	20 curies				
D.	Strontium 90	D.	Any	•	D.	2 millicuries				
E.	Any byproduct material with atomic numbers 84 through 103	Ē.	Any	-	Ε.	1 millicuries				
F.	Nickel 63	F.	Sealed Sources (A Model G2397A; B Model 400B-0753 and Smith Model A	Agilent arringer , 400B-7169; ADP 2000)	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				
Н.	Hydrogen 3	Н.	Any		н.	250 curies				
I.	Carbon 14	١.	Any		١.	25 curies				
J.	Phosphorus 33	J.	Any		J.	1 curie				
K.	Sulfur 35	K.	Any		Κ.	10 curies				
Ĺ.	Technetium 99m	L.	Any		L.	750 millicuries				
М	lodine 125	М.	Any		Μ.	500 millicuries				

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					License Number 29-00139-02	2					
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6.	Byprod nuclear	uct, source, and/or special r material	7.	Chemical and/or physica	al form 8	3.	Maximum an possess at a license	nouni ny or	that li ne time	censo a und	ee may er this
N.	Any by atomic	product material with numbers 1 through 83	N.	Any	٢	N.	100 millicur and 2 curie	ries s tot	per ra al	adior	nuclide
0.	Hydrog	gen 3	О.	Any	C	О.	1 curie				
P.	Carbo	n 14	P.	Any	F	ο.	1 curie				
Q.	Sulfur	35	Q.	Anv	Ċ	<u>р</u> .	300 millicur	ies			
R.	Calciu	m 45	R	Anv	F	<u>२</u>	300 milliou	ies			
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9	Autho	rized use:		ະ 			·.	_			
•••					<u>.</u>						
A. t	hrough	E. and G. through R.	Res	earch and developme	nt as defined	in	10 CFR 30.	4; a	nimal	stuc	lies;
-	*	and the second second second second	and	calibration and check	ing of the lice	ns	ee's instrum	ents	5 .		
►.	IODE	used for sample analysis	s in ga	is chromatography de punder 10 CER 32 21	vices that hav	e	been registe	ered to a	eithe	r witi	h the
	distrib	uted in accordance with	a Con	mission or Agreemen	t State specifi	ic l	license auth	orizi	na di	strib	ution to
	persor	ns specifically authorized	bya	Commission or Agree	nent State lice	en	se to receiv	e, po	osses	is, ai	nd use
(h)/7	the de	vices.									
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				CONDITIONS							
10.	Α.	Licensed material in ite located at One Squibb	ms 6. Drive,	A. through 6.F.may be New Brunswick, New	used or store Jersey	əd	only at the I	icen	see's	faci	lities
	В.	Licensed material in ite	ms 6.i	F. through 6.M and (b Route 206 and Prov) may only b	e I	used or stor	ed o	inly a	t the	
						_		,,,,,,			
	C.	Licensed material in ite licensee's facilities loca	ms 6. Ited al	F. and 6.N. through 6. 311 Pennington-Roc	R may only be ky Hill Road, I	eι Pe	used or store nnington, N	ed or ew J	nly at ersey	the /.	
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11	Licen	sed material shall only be used by, or under the sur	pervision of, individuals designated,
¥ 1,	in writ	ting, by the Radiation Safety Committee. The licens	see shall maintain records of
	indivio	duals designated as users for 3 years following the	last use of licensed material by
	ine in	olvidual.	
12.	The F	Radiation Safety Officer for this license is James R.	Ownes.
13.	(b)(7)	(F)	алианан алан алан алан алан алан алан ал
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14.	The li	censee shall not use licensed material in or on hun	nan beings.
15.	The li other	censee shall not use licensed material in field appl wise by specific condition of this license.	ications where it is released except as provided
16.	Expe licens	rimental animals, or the products from experimenta ed materials shall not be used for human consump	I animals, that have been administered ption.
17.	This	icense does not authorize commercial distribution	of licensed material.
18.	This I to pe	icense does not authorize distribution to persons license exempt from licensing; or to general licensee	censed pursuant to 10 CFR 32.72 or 32.74; es.
19.	Not v radio	vithstanding 10 CFR 33.17(a)(4), the licensee is au active material for distribution to specific licensees.	thorized to manufacture drugs containing
20.	A.	Sealed sources shall be tested for leakage and/or months or at the intervals specified in the certifica Regulatory Commission under 10 CFR 32.210 or State.	contamination at intervals not to exceed six te of registration issued by the U.S. Nuclear under equivalent regulations of an Agreement
and the second	Β.	Notwithstanding Paragraph A of this Condition, se particles shall be tested for leakage and/or contar	ealed sources designed to primarily emit alpha nination at intervals not to exceed 3 months.
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NRC	FORM 3	Official Use Only - Security-	PAGE 4 OF 6 PAGES					
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	C.	Each sealed source fabricated by the licensee sh defects, leakage, and contamination prior to any	all be inspected and tested for construction use or transfer as a sealed source.					
	D.	In the absence of a certificate from a transferor in intervals specified in the certificate of registration Commission under 10 CFR 32.210 or under equi the transfer, a sealed source received from anoth and the test results received.	dicating that a leak test has been made within the issued by the U.S. Nuclear Regulatory valent regulations of an Agreement State, prior to her person shall not be put into use until tested					
	E.	Sealed sources need not be tested if they contair radioactive gas, or the half-life of the isotope is 30 100 microcuries of beta- and/or gamma-emitting alpha-emitting material.	n only hydrogen-3; or they contain only a D days or less; or they contain not more than material or not more than 10 microcuries of					
	F.	Sealed sources need not be tested if they are in a they are removed from storage for use or transfer within the required leak test interval, they shall be shall be stored for a period of more than 10 years contamination.	storage and are not being used; however, when red to another person and have not been tested tested before use or transfer. No sealed source without being tested for leakage and/or					
	G.	The leak test shall be capable of detecting the pr radioactive material on the test sample. If the test (185 becquerels) or more of removable contamin Regulatory Commission in accordance with 10 C immediately from service and decontaminated, re Commission regulations.	esence of 0.005 microcurie (185 becquerels) of at reveals the presence of 0.005 microcurie ation, a report shall be filed with the U.S. Nuclear FR 30.50(c)(2), and the source shall be removed paired, or disposed of in accordance with					
	H.	Tests for leakage and/or contamination, including performed by the licensee or by other persons sp Commission or an Agreement State to perform si	l leak test sample collection and analysis, shall be ecifically licensed by the U.S. Nuclear Regulatory uch services.					
	I.	Records of leak test results shall be kept in units 5 years.	of microcuries and shall be maintained for					
21.	Seal from	ed sources or detector cells containing licensed ma source holders by the licensee.	aterial shall not be opened or sources removed					
22.	The U.S. unde inver and	licensee shall conduct a physical inventory every s Nuclear Regulatory Commission, to account for all er the license. Records of inventories shall be mair ntory and shall include the radionuclides, quantities the date of the inventory.	ix months, or at other intervals approved by the sources and/or devices received and possessed atained for 5 years from the date of each , manufacturer's name and model numbers,					
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24.	Mair	ntenance, repair, cleaning, replacement, and	disposal of foils contained in detector cells								
	shall be performed only by the device manufacturer or other persons specifically authorized by the U.S. Nuclear Regulatory Commission or an Agreement State to perform such services										
	byti	ie e.e. Nuclear regulatory commission of a	ragicement otate to periorn such services.								
25.	Α.	Detector cells containing a titanium tritide f	bil or a scandium tritide foil shall only be used in								
		conjunction with a properly operating temperature control mechanism which prevents the foil temperatures from exceeding that specified in the certificate of registration referred to in									
		10 CFR 32.210.									
	Β.	When in use, detector cells containing a tit to the outside.	anium tritide foil or a scandium tritide foil shall be ven								
26.	The 120	licensee is authorized to hold byproduct mat days for decay-in-storage before disposal with	erial with a physical half-life of less than or equal to hout regard to its radioactivity if the licensee:								
	A.	Monitors byproduct material at the surface cannot be distinguished from the backgrou survey meter set on its most sensitive scale	before disposal and determines that its radioactivity nd radiation level with an appropriate radiation detect and with no interposed shielding; and								
	В.	Removes or obliterates all radiation labels, containers and that will be managed as bio licensee; and	except for radiation labels on materials that are within medical waste after they have been released from the								
	C.	Maintains records of the disposal of license date of disposal, the survey instrument use measured at the surface of each waste cor the disposal.	ed materials for 3 years. The record must include the d, the background radiation level, the radiation level atainer, and the name of the individual who performed								
27.	The 10 C	licensee is authorized to transport licensed n CFR Part 71, "Packaging and Transportation of	naterial in accordance with the provisions of of Radioactive Material."								

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	acco inclu shall and A. B. C.	ordance with the statem ding any enclosures, lis govern unless the stat correspondence are mo Letter dated June 16, Application dated rec Letter dated October	ents, representa sted below. The ements, represe pre restrictive tha 2006 [ML06199 eived August 12 20, 2008 [ML08]	ations, a U.S. No entations an the re 00582] , 2008 [3040225	nd procedures containe uclear Regulatory Com s, and procedures in the egulations. ML082350229] 5]	ed in the o mission's e licensee	locul regu 's ap	ments lation plicat	s, s ion				
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				For th	ne U.S. Nuclear Regula	itory Com	miss	ion					
Date		March 24, 2009		Ву	Original signed by	Elizabeth	Ullr	ich					
					Elizabeth Ullrich Commercial and R&I Division of Nuclear M Region I King of Prussia, Pon	D Branch Iaterials S	Safet	y					

։ Դես է ենչը է ենչը հետում է ուրենքությունը կանորությունը կանորությունը հայտարում է է ենչը է հետում է հետում է հե Հայ է ենչը է է է է ենչը է է ենչը ենչը ենչը ենչը ենչը է ենչը է ենչը է ենչը է ենչը է ենչը հայտերան արելուներում է