

# UNITED STATES NUCLEAR REGULATORY COMMISSION

REGION I 475 ALLENDALE ROAD KING OF PRUSSIA, PENNSYLVANIA 19406-1415

May 16, 2001

Docket No. 03005222 License No. 29-00139-02

Control No. 129446

Thomas M. Primm
Vice President
E. R. Squibb & Sons, Inc.
One Squibb Drive
P.O. Box 191
New Brunswick, NJ 08903-0191

SUBJECT: E. R. SQUIBB & SONS, INC., ISSUANCE OF LICENSE AMENDMENT,

CONTROL NO. 129446

Dear Mr. Primm:

This refers to your license amendment request. Enclosed with this letter is the amended license. With the exception of the EPA permitted mixed waste storage area and approximately 500 square feet of warehouse space that will continue to be utilized for radioactive waste storage purposes, building 81at your New Brunswick, New Jersey location may be released for unrestricted use. However, since this building is encompassed within the New Brunswick, New Jersey location of use currently listed in condition 10 of your license, you are still permitted to use licensed material there. Please retain your records of the closeout surveys for this building. If licensed material is used in the released areas of building 81 in the future, remedial actions may be necessary again.

The enclosed amended license (Amendment No. 98) is written in a format that incorporates current U.S. Nuclear Regulatory Commission requirements and policy. Several conditions that appeared in Amendment No. 97 of your license were revised or deleted.

Please review the enclosed document carefully and be sure that you understand and fully implement all the conditions incorporated into the amended license. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I Office, Licensing Assistance Team, (610) 337-5239, so that we can provide appropriate corrections and answers.

In accordance with 10 CFR 2.790, a copy of this letter will be placed in the NRC Public Document Room and will be accessible from the NRC Web site at <a href="http://www.nrc.gov/NRC/ADAMS/index.html">http://www.nrc.gov/NRC/ADAMS/index.html</a>.

T. Primm 2

E. R. Squibb & Sons, Inc.

Thank you for your cooperation.

Sincerely,

Original signed by Pamela J. Henderson

Pamela J. Henderson Senior Health Physicist Nuclear Materials Safety Branch 2 Division of Nuclear Materials Safety

Enclosure:

Amendment No. 98

CC:

Michael J. Vala, Radiation Safety Officer Susan Voigt, Chair, Radiation Safety Committee

T. Primm	3
E. R. Squibb & Sons, Inc.	

DOCUMENT NAME: C:\\\\129-00139-02.129446.05162001.wpd

To receive a copy of this document, indicate in the box: "C" = Copy w/o attach/encl "E" = Copy w/ attach/encl "N" = No copy

OFFICE	DNMS/RI	Z	DNMS/RI	DNMS/RI		
NAME	PHenderson/PJH1					
DATE	05/16/2001					

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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.

	be deemed to contain the conditions speci cable rules, regulations, and orders of the N v.					
	Licensee			In accordance w	ith t	he letter dated
				March 15, 2001,		
1. E	. R. Squibb & Sons, Inc.			3. License number	29-	00139-02 is amended in
			EAR R	its entirety to rea	ıd a	s follows:
	one Squibb Drive	, -		4. Expiration date \$	-	
	. O. Box 101			5. Docket No. 030	-052	222
N	lew Brunswick, New Jersey 08903-0	191		Reference No.	7	2
	<u>u</u> =	2		1000		_
6.	Byproduct, source, and/or special nuclear material	7.	Chemical and/o	r 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	A.	Any	January 1	A.	5 curies per radionuclide and 1000 curies total
В.	lodine 131	В.	Any	Mary Comment	В.	150 curies
C.	Hydrogen 3	C.	Any 🧳	44	C.	20 curies
D.	Carbon 14	D.	Any	4	D.	20 curies
E.	Sulfur 35	E.	Any	女本	E.	10 curies
F.	Strontium 90	F.	Any		F.	2 millicuries
G.	Any byproduct material with atomic numbers 84 through 103	G.	Any		G.	1 millicurie
H.	Nickel 63	H.	Foil or plated registered eit U.S. Nuclear Commission 10 CFR 32.2 Agreement S	her with the Regulatory under 10 or with an	H.	No single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State
I.	Any byproduct material with atomic numbers 1 through 83, except Strontium 90	I.	Any		I.	200 millicuries per radionuclide and 6 curies total
J.	Hydrogen 3	J.	Any		J.	7 curies

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SUP	PLEMENTARY SHE	ET	Amendment N	lo 08
			Amenament	.0. 00
Byproduct, source, and nuclear material	or special 7.	Chemical and/or physic	cal form 8.	Maximum amount that licensee may possess at any one time under this license
K. Carbon 14	K	. Any	K.	5 curies
L. Phosphorus 33	L	. Any	L.	1 curie
M. Sulfur 35	N	1. Any	M.	10 curies
N. Molybdenum 99/Te	chnetium N	. Any	4 N.	50 curies
99m	40		0	500 W
O. lodine 125	(V)	O. Any		500 millicuries
P. Iodine 131	F 60	. Any	13322	500 millicuries
Q. Technetium 99	A C	. Any	Q.	200 millicuries
R. Nickel 63	TED ST	registered either wind U.S. Nuclear Regular Commission under 10 CFR 32.210 or Agreement State	th the latory	No single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State
S. Any byproduct mat atomic numbers 1 to except, Strontium 9	through 83,	. Any	S.	200 millicuries per radionuclide and 6 curies total
T. Hydrogen 3	Т	. Any	<b>T</b> .	500 millicuries
U. Carbon 14	U	. Any	U.	500 millicuries
V. Sulfur 35	V	. Any	V.	300 millicuries
W. Calcium 45	V	V. Any	W.	. 300 millicuries
X. Nickel 63	X	. Foil or plated source registered either wind U.S. Nuclear Regular Commission under 10 CFR 32.210 or Agreement State	th the latory	No single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State
Y. Any byproduct mat atomic numbers 1 to except Strontium 9	through 83,	. Any	Y.	10 millicuries per radionuclide and 1 curie total

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Byproduct, source, as nuclear material	nd/or special	7. Chemical and/or ph	ysical form	Maximum amount that licensee may possess at any one time under this license			
Z. Hydrogen 3		Z. Any		Z. 100 millicuries			
AA. Carbon 14		AA. Any		AA. 100 millicuries			
BB. Sulfur 35		BB. Any	GU,	BB. 300 millicuries			
CC. Phosphorous 3	32	CC. Any	14	CC. 100 millicuries			
DD. Phosphorous 3	33	DD. Any		DD. 200 millicuries			
EE. lodine 125	S	EE. Any		EE. 50 millicuries			
FF. Nickel 63	ED STATE	FF. Foil or plated registered eit U.S. Nuclear Commission 10 CFR 32.2 Agreement S	ne <mark>r with the</mark> Regulatory under IO or with an	FF. No single source to exceed the maximum activity specified in the certificate of registration issued by the U.S. Nuclear Regulatory Commission or an Agreement State			
9. Authorized use:		Will and the second		8			
A. and B.  (1) Research and development as defined in 10 CFR 30.4; animal studies.  (2) For possession, use, and processing incident to the manufacture of radiochemicals and radiopharmaceuticals.  (3) For storage prior to distribution of manufactured radiochemicals and radiopharmaceuticals.  (4) For packaging and distribution of manufactured radiochemicals and radiopharmaceuticals to persons authorized to receive the licensed material pursuant to the terms and conditions of a specific license issued by the U.S. Nuclear Regulatory							
C. through FF.			d in 10 CFR 3	0.4 including animal studies;			
F. and G.		struments; interim sto	rage				

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H., R., X., and FF.

To be used for sample analysis in compatible gas chromatography devices that have been registered either with the U.S. Nuclear Regulatory Commission under 10 CFR 32.210 or with an Agreement State and have been distributed in accordance with a Commission or Agreement State specific license authorizing distribution to persons specifically authorized by a Commission or Agreement State license to receive, possess, and use the devices.

## CONDITIONS

- 10. A. Licensed material in Items 6.A. through 6.H. may only be used at the licensee's facilities located at One Squibb Drive, New Brunswick, New Jersey.
  - B. Licensed material in Items 6.I. through 6.R. may only be used at the licensee's facilities located at Route 206 and Provinceline Road, Lawrenceville, New Jersey.
  - C. Licensed material in Items 6.S. through 6.X. may only be used at the licensee's facilities located at 311 Pennington-Rocky Hill Road, Pennington, New Jersey.
  - D. Licensed material in Items 6.Y. through 6.FF. may only be used at the licensee's facilities located at Three Hamilton Health Place, Hamilton, New Jersey.
- 11. A. Licensed material shall be used by, or under the supervision of, individuals designated by the licensee's Radiation Safety Committee.
  - B. The Radiation Safety Officer for this license is Michael J. Vala, CHP.
- 12. The licensee shall maintain and execute the response measure of his Radiological Emergency Contingency Plan submitted to the Commission on February 18, 1997. The licensee shall also maintain procedures as necessary to implement the plan. The licensee shall make no change in his Radiological Emergency Contingency Plan that would decrease the response effectiveness of the plan without prior Commission approval as evidenced by license amendment. The licensee may make changes to his Radiological Emergency Contingency Plan without prior Commission approval if the changes do not decrease the response effectiveness of the plan, and shall maintain records of changes that are made to the plan without prior approval for a period of two years from the date of the changes and shall furnish the Director, Division of Nuclear Materials Safety, Region I Office referenced in Appendix D of 10 CFR Part 20, a report containing a description of each change within six months after the change is made.
- 13. The licensee shall not use licensed material in or on human beings.
- 14. The licensee shall not use licensed material in field applications where activity is released.
- 15. Experimental animals administered licensed materials or their products shall not be used for human consumption.

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# MATERIALS LICENSE SUPPLEMENTARY SHEET

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- 16. This license does not authorize commercial distribution of licensed material to persons generally licensed pursuant to 10 CFR 31 or to persons exempt from licensing pursuant to 10 CFR 30.18.
- 17. A. Sealed sources shall be tested for leakage and/or contamination at intervals not to exceed 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.
  - 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.

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- 18. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
- 19. The licensee shall conduct a physical inventory every six months, or at other interval approved by the U.S. Nuclear Regulatory Commission, to account for all sealed sources and/or devices received and possessed under the license.
- 20. A. Detector cells containing a titanium tritide foil 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.
  - B. When in use, detector cells containing a titanium tritide foil or a scandium tritide foil shall be vented to the outside.
- 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. Waste to be disposed of in this manner shall be held for decay a minimum of ten half-lives.
  - B. Before disposal as ordinary trash, the waste shall be surveyed at the container surface with the appropriate survey instrument 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.
  - C. A record of each such 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.
- 22. The licensee shall submit a revised Decommissioning Funding Plan that includes all licensed locations and activities, by March 1, 2003 or ninety days following completion of the decommissioning of building 124 at the New Brunswick, New Jersey location, whichever occurs earlier. The Decommissioning Funding Plan shall be sent to the Director, Division of Nuclear Materials Safety, Region I Office referenced in Appendix D of 10 CFR Part 20.
- 23. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

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- 24. 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 U.S. Nuclear Regulatory Commission's regulations shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations.
  - A. Letter dated March 23, 1992
  - B. Letter dated May 8, 1992
  - C. Letter dated February 17, 1994
  - D. Letter dated June 20, 1994
  - E. Application dated February 18, 1997
  - F. Letter dated August 26, 1997
  - G. Letter dated August 29, 1997
  - H. Letter dated October 15, 1997
  - I. Letter dated June 19, 1998
  - J. Letter dated August 19, 1998
  - K. Letter dated March 15, 2001
  - L. Letter dated May 15, 2001



For the U.S. Nuclear Regulatory Commission

Date \_\_May 16, 2001\_\_\_\_\_ By

Pamela J. Henderson Nuclear Materials Safety Branch 2 Region I King of Prussia, Pennsylvania 19406