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U.S. NUCLEAR REGULATORY COMMISSION

PAGE	_1_	OF	7	PAG	ES
	Amen	dm	ent No	. 96	

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 Foderal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 38, 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 helow.

below. Licensee In accordance with the application dated May 26, 1999, JUCLEAR F 3. License number 29-00139-02 is amended in 1. E. R. Squibb & Sons, Inc. is entirety to read as follows: 4. Expiration date September 30, 2008 2. One Squibb Drive 5. Docket No. 030-05222 P. O. Box 191 New Brunswick, New Jerse \$ 08903-0191 Reference No. Maximum amount that license a may 6. Byproduct, source, and/or special possess at any one time under this nuclear material A. Any byproduct material with 5: curies per radionuclide and 1000 curies total Atomic Nos. 1-83 except Strontium 90 €. 150 curies B. Iodine 131 C. Hydrogen 3 D. 20 curies D. Carbon 14 E. 10 curies E. Sulfur 35 E. Any F. 2 millicuries F. Strontium 90 F. Any G. Any byproduct material with G. 1 millicurle G. Any Atomic Nos. 84-103 H. Not to exceed 15 millicuries per H. Plated sources in detector H. Nickel 63 source and 750 millicuries total cells 200 millicuries per radionuclide Any byproduct material with Any and 6 curies total Atomic Nos. 1-83 except Strontium 90 J. 7 curies Any J. Hydrogen 3 K. 5 curies K. Carbon 14 primetion in this record was deleted in accordance with the Freedom of Information Act 9908030004

PAGE License Number 29-00139-02 Docket or Reference Number 030-05222 Amendment No. 96 Byproduct, source, and/or special 7. Chemical and/or physical form 8. Maximum amount that licensee may nuclear material possess at any one time under this license Phosphorus 33 L. Any L. 1 curie M. ANY AR REGULAS M. Sulfur 35 M. 10 curies N. Molybdenum 99/Technetium N. 50 curies 99m O. todine 125 500 millicuries P2500 millicuries P. lodine 131 P. Any Q. Technetium 99 Q. 200 millicuries R. Nickel 63 R. Not to exceed 15 millicuries per sodrce and 750 millicuries total S. Any byproduct with Atornic Not to exceed 200 millicuries Nos. 1-83 except per radionuclide and 6 curies Strontium 90 IVNot to exceed 15 millicuries per Nickel 63 source and 750 millicuries total U. Not to exceed 10 millicuries per U. Any byproduct material with Atomic Nos. 1 through 83 radionuclide and 1 curie total except Strontium 90 V. Hydrogen 3 V. Any V. 100 millicuries W. Carbon 14 W. Any W. 100 millicuries X. Sulfur 35 X. Any X. 300 millicuries Y. Phosphorous 32 Y. Any Y. 100 millicuries Z Phosphorous 33 Z. 200 millicuries Z. Any lodine 125 50 millicuries Nickel 63 BB. Plated sources in detector BB. Not to exceed 15 millicuries cells per source and 750 millicuries total

NRC FORM	374	U.S. NUCLEAR REGULATORY COMMISSION	PAGE 3	of 7 PAGES
			License Number 29-00139-02	
		MATERIALS LICENSE SUPPLEMENTARY SHEET	Docket or coeference Number 030-05222	
			Amendment No. 96	
9. Autho	vized use			
A and B.	(1) (2)	Research and development as defined in For possession, use, and processing increasing radiopharmaceuticals.	•	ochemicals and
	(3)	For storage prior to distribution of manuf		
	44	radiopharmaceuticals ARREC		
	(4)	For packaging and distribution of manufater radiopharmaceuticals to persons authorities.		erial pursuant to
	• . • • • •	the terms and conditions of a specific lice	T \	•
	. 00	Commission or an Agreement State.	An OFF 20 (Challed animal	-44
C. through	100.	Research and development as defined in calibration of instruments.	1 TO CFR 30.4 Including animal	studies;
F. and G.		Calibration of instruments; Interim storag	95	
H., R., T.,	and BB.	In electron capture delector cells which s	in distributed under a specific I	icense issued by
		the U.S. Nuclear Redulatory Commission	rocary Agreemany State.	
10. A. L	icensed r	material in Herns & Mought H. may aim	be used at the licensee's facilit	ties located at
C	one Squib	b Drive, New Brunsweit, New John		
		naterial in Items of through 6.R. vally only and Provinceline Road, Lawrenceville, New		es located at
	10016 200		The soy.	
		naterial in Items 6.S. and 6.T. may only be n-Rocky Hill Road, Pennington, New Jersey		ocated at 311
		naterial in Items 6.U. through 6.BB. may on nilton Health Place, Hamilton, New Jersey.	ly be used at the licensee's faci	ilities located at
11. A L	icensed n	naterial shall be used by, or under the supe	rvision of, individuals designate	ed by the

licensee's Radiation Safety Committee.

The Radiation Safety Officer for this license is Michael J. Vala, C. H. P.

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.

INC FORM 374A	U.S. NUCLEAR REGULATORY COMM	SSION	PAGE 4 of 7 PAG	ES
		***	License Number 29-00139-02	1
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13. The license	shall not use licensed material in or ca	huma	n beings.	
14. The license	shall not use licensed material in field a	pplica	ations where activity is released.	
15. Experiment	al animals administered licensed material	is or ti	heir products shall not be used for human	
consumption				
16. A. Sealed	sources and detector cells containing lice	ensed	routerial shall be tested for leakage and/or	** .
	ination at intervals not to exceed six mon ite of registration haberred to in 10 CFR 3		r at such other intervals as are specified by the not to exceed three years.	•
	ed for leakage and/or contamination at in		i sources designed to emit alpha particles sha s not to exceed three months.	Ш
C. In the s	beence of a certificate from a transferred	Indica	ting that a leak tost has been made within six	
months	prior to the transfer, a sealed source or		orical received fon another person shall not	
The second of th	nto use until tested.		3 7,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.••.
" D. Each se	saled source fabrices, by the licenses in		sinspecial and fasted for construction defect ir as a sealed source.	3,
		W		
E. Sealed	sources and detector and insert notices	earte S	Manual Control of the	
(n) th	ey contain only hydrogen-3; or		40	
(II) th	ey contain only a radioactive gag or	*	*	
(III) th	e half-life of the isotope is 30 days or les	s: or		
		ž.		
	ey contain not more man 100 microcune: an 10 microcuries of alpha emitting mate		eta and/or gamma emitting material or not mo	re
(v) th	ev are not designed to emit alpha particle	es. en	e in storage, and are not being used. Howeve	ar
W	hen they are removed from storage for us	se or 1	transfer to another person, and have not been shall be tested before use or transfer. No	
80	aled source or detector cell shall be store		a period of more than 10 years without being	
10	sted for leakage and/or contamination.		1987 - 1985 (\$1) 1985 - 1986 - 1985 - 1986 - 1986 - 1986	,
		1997		

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NNC FORM 374A 3 2 U.S. NUCLEAR REGULATORY COMMISSION	».
	License Number 29-00139-02 3 4 5 5
MATERIALS LICENSE SUPPLEMENTARY SHEET.	Docket or Reference Number 030-05222
	Amendment No. 96
F. The test shall be capable of detecting the presence of 0.00 a report shall be filed with the U.S. Nuclear Regulator shall be removed immediately from service and decoaccordance with Commission regulations. The report leak test result is known with the U.S. Nuclear Regulator accordance with Commission regulations. The report leak test result is known with the U.S. Nuclear Regulator Regulator Materials Safety Branch, 473-Allendal Gareport shall specify the source or detector cell involved to the licensee is authorized to cliect leak test sample leakage and/or contamination may be performed by or an Agreement State to perform such services. 17. Detector cells containing a titanium tridde foil or a scanding with a properly operating temperature comply rechanism that specified by the mahuracturer. 18. The licensee shall consoct a physical membration assumed that specified by the mahuracturer. 19. The licensee shall not absolute lice the membration assumed that source unless the source of devices the property of the licensee. 20. Sealed sources or detector cells containing licensed materials and the licensee. 21. The licensee shall maintain and execute the response materials are contingency Plan submitted to the Commission on February Plan without prior as evidenced by license amendment Radiological Emergency Contingency Plan without prior decrease the response effectiveness of the plan, and shall the plan without prior approval for a period of two years for Chief, Nuclear Materials Safety Branch, Division of Nucleary Plan without prior approval for a period of two years for the plan without prior approval for a period of two years for the plan without prior approval for a period of two years for the	Incocurie or more of removable contamination, bry Commission and the source or detector cell contaminated, repaired, or disposed of in part shall be filed within five days of the date the latory Commission, Region I, ATTN: Chief, di King of Prussia, Pennsylvania 19406. The led the state of Prussia, Pennsylvania 19406. The led the state of Prussia is and corrective action taken. The state of Prussia is and corrective actio

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Letter dated August 19, 1998

Ву

For the U.S. Nuclear Regulatory Commission

Date	June 7, 1999
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Original signed by Francis M. Costello

Francis M. Costello, Acting Chief Nuclear Materials Safety Branch 2 Division of Nuclear Materials Safety Region I King of Prussia, Pennsylvania 19406

June 7, 1999

Docket No. 030-05222 Control No. 126887 License No. 29-00139-02

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

Dear Mr. Primm:

This refers to your license amendment request. Enclosed with this letter is the amended license.

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, (810) 337-5093 or 5239, so that we can provide appropriate corrections and answers.

Thank you for your cooperation.

Sincerely,

Original signed by John R. McGrath

fu

Francis M. Costello, Acting Chief Nuclear Materials Safety Branch 2 Division of Nuclear Materials Safety

Enclosure:

Amendment No. 96

CC:

Susan Voigt, Chair of the Radiation Safety Committee Senior Director, WWMG EH&S Michael J. Vala, CHP, Radiation Safety Officer T. Primm E. R. Squibb & Sons, Inc.

DOCUMENT NAME: B:\DNMS Documents\Lic Cover Letter\L29-00139-02.wpd
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tris is to acknowledge the	receipt of your letter/application dated
05-26-99 includes an administrative re	_, and to inform you that the initial processing which eview has been performed.
AMEND	29-00139-02 ative omissions. Your application was assigned to a
	se note that the technical review may identify additiona
Please provide to this of	fice within 30 days of your receipt of this card
_ ' ' ' '	een forwarded to our License Fee & Accounts I contact you separately if there is a fee issue involved.
	ned Mail Control Number 1 2 6 8 8 7 It this action, please refer to this control number. 37-5398, or 337-5260.
MPC Form 522 (RE)	Sincerely,
(Licensing Assistance Team Leader

:

Pharmaceutical Group Technical Operations

One Squibb Drive P.O. Box 191 New Brunswick, NJ 08903-0191 908 519-2000

May 26, 1999

Dr. John Kinneman US Nuclear Regulatory Commission Region I 475 Aliendale Road King of Prussia, PA 19404

RE: RADIOACTIVE MATERIAL LICENSE NUMBER 29-00139-02

Dear Dr. Kinneman:

E.R. Squibb & Sons, Inc., a wholly owned subsidiary of Bristol-Myers Squibb Company, wishes to amend its current radioactive license (#29-00139-02) to reflect the following:

• Replace Mr. Daniel K. Balkunow, the current Radiation Safety Officer, with Michael J. Vala, CHP, effective on or about June 14, 1999.

Mr Vala's résumé, which outlines his experience and qualifications, is enclosed for your review. A check for \$530.00 is also enclosed to cover the cost of this amendment. If you have any questions regarding this matter, please contact Mr. Vala at (732) 519-2987.

Sincerely,

Susan Voigt, Chaif of the Radiation Safety Committee

_Senior Director, WWMG EH&S

Encolsures (2)

126887

MAY 28 1996

Michael J. Vala, Jr., CHP Bristol-Myers Squibb Company One Squibb Drive, P.O. Box 191 New Brunswick, New Jersey 08903 (732) 519-2987

EDUCATION

Masters of Technology Management, May (b)(6)

Stevens Institute of Technology, Hoboken, NJ

Major: Technology Management

Masters of Science, May (b)(6)

Rutgers University, New Brunswick, NJ

Major: Radiation Science

Bachelor of Engineering, May (b)(6)

Stevens Institute of Technology, Hoboken, NJ
Major: Engineering Physics

EXPERIENCE

Health Physics Supervisor Bristol-Myers Squibb, New Brunswick, NJ

March 1992 - Present

- Responsible for regulatory compliance and radiation safety at a nuclear medicine manufacturing and distribution facility
- Provides operational Health Physics support for largest non-utility radioactive material license in New Jersey
- Review of clinical research protocols involving radiolabeled investigational drugs
- Development of strategic goals and objectives for Health Physics Department
- Provide technical expertise and support for Central New Jersey Radiation Safety Committee
- Represents Environmental Health & Safety on the Facilities & Engineering Quality Customer Focus Team
- Represents Bristol-Myers Squibb on the PhRMA low level radioactive waste sub-committee
- Knowledge of applicable DOT, EPA, FDA, NRC, OSHA and NJ DEP regulations regarding radicactive material use
- Conducting facility compliance audits
- Develops and provides radiation safety training for research, manufacturing, and support personnel
- Personnel monitoring/bioassay techniques and dose calculations
- Approved by the NJ DEP as a Qualified Individual for the performance of radiation surveys for diagnostic x-ray equipment in accordance to NJAC 7:28-15.

Michael J. Vala, Jr., CHP Page 2

EXPERIENCE (continued)

- Projects completed:
 - ♦ Championed the preparation of the application for renewal of the Central New Jersey radioactive material license
 - O Identified and assessed new dosimetry contractor for Bristol-Myers Squibb
 - O Development of a Decommissioning Funding Plan for five licensed sites including a Radiopharmaceutical manufacturing facility and R&D areas for submission to the NRC
 - Developed radioactive waste labeling, sorting and packaging program for PRI personnel in preparation of interim waste storage period.

Health Physicist
Teledyne Isotopes, Westwood, NJ

March 1987 - March 1992

- Managed radioactive waste brokerage service
 - ◊ Regulatory compliance
 - Non-routine waste disposal
 - ♦ Facility decontamination and disposal
 - Supervised environmental and facility characterizations, remediations, and decontaminations
 - Radiation safety audits and evaluations for consulting clients

CERTIFICATION

American Board of Health Physics - Comprehensive Certification in Health Physics, November 1993, Re-certified 1997

PROFESSIONAL SOCIETIES

- New Jersey Health Physics Society (President 1995)
- National Health Physics Society

PRESENTATIONS & PUBLISHED ABSTRACTS

- Regulatory Requirements for an Interim Waste Storage Facility at a Pharmaceutical R&D Facility, Midyear Topical Meeting of the Health Physics Society, Albany, NY, February, 1994
- Waste Segregation Program for R&D Personnel, Annual Meeting of the Health Physics Society, San Francisco, CA, June, 1994

128887

BETWEEN, C.S.		· INFORMATION FROM LTS
License Fee Management Bi and Regional Licensing Section	cns cns	Program Code: 03211 Status Code: 0 Fee Category: 3A Exp. Date: 20080930 Fee Comments: Decom Fin Assur Reqd: Y
LICENSE FEE TRANSMITTAL		
A. REGION		
1. APPLICATION ATTACHED Applicant/Licensee: Received Date: Docket No: Control No.: License No.: Action Type:		ONS: INC.
2. FEE ATTACHED Amount: \$530.00 Check No.: 9/3 5/2//2	· -	
3. COMMENTS	Signed A Date 4	J. Brown 18/99
B. LICENSE FEE MANAGEMEN	T BRANCH (Check w	hen milestone 03 is entered (L_{ℓ})
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3. OTHER	Signed	ech Rec's /7/99

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