



UNITED STATES  
**NUCLEAR REGULATORY COMMISSION**  
REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

July 27, 2007

Docket No. 030-30971  
Control No. 140777

License No. 45-25034-01

John A. Hufnagel  
Radiation Safety Officer  
Washington and Lee University  
204 West Washington Street  
Lexington, VA 24450

SUBJECT: WASHINGTON AND LEE UNIVERSITY, LICENSE AMENDMENT,  
CONTROL NO. 140777

Dear Mr. Hufnagel:

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, (610) 337-5239, so that we can provide appropriate corrections and answers.

An environmental assessment for this action is not required, since this action is categorically excluded under 10 CFR 51.22(c)(14).

Current NRC regulations and guidance are included on the NRC's website at [www.nrc.gov](http://www.nrc.gov); select **Nuclear Materials; Medical, Industrial, and Academic Uses of Nuclear Material**; then **Toolkit Index Page**. Or you may obtain these documents by contacting the Government Printing Office (GPO) toll-free at 1-888-293-6498. The GPO is open from 7:00 a.m. to 9:00 p.m. EST, Monday through Friday (except Federal holidays).

Thank you for your cooperation.

Sincerely,

***Original signed by Bryan A. Parker***

Bryan A. Parker  
Health Physicist  
Commercial and R&D Branch  
Division of Nuclear Materials Safety

Enclosure:  
Amendment No. 09

DOCUMENT NAME: C:\FileNet\ML072130532.wpd

**SUNSI Review Complete: BParker**

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NAME	BParker /BAP/							
DATE	7/27/07							

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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 the letter dated June 28, 2007,
1. Washington and Lee University	3. License No. 45-25034-01
2. 204 West Washington Street Lexington, Virginia 24450	is amended in its entirety to read as follows:
	4. Expiration Date: September 30, 2015
	5. Docket No. 030-30971

6. 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. Hydrogen 3	A. Any	A. 20 millicuries
B. Carbon 14	B. Any	B. 1 millicurie
C. Sulfur 35	C. Any	C. 10 millicuries
D. Cobalt 60	D. Any	D. 22 microcuries
E. Phosphorus 32	E. Any	E. 500 microcuries

## 9. Authorized use:

- A. through E. Research and development as defined in 10 CFR 30.4; animal studies; teaching and training of students.

**CONDITIONS**

10. Licensed material may be used or stored only at the licensee's facilities located at Washington and Lee University, Science Center, Lexington, Virginia.
11. A. The Radiation Safety Officer (RSO) for this license is John Hufnagel.

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B. Licensed material shall be used by, or under the supervision of:

Authorized UserMaterial

John Hufnagel

All

John J. Wielgus, Ph.D.

H-3; C-14

Maryanne Simurda, Ph.D.

S-35

Kenneth E. Van Ness, Ph.D.

Co-60

Frederick J. LaRiviere, Ph.D.

P-32; S-35; H-3

12. The licensee shall not use licensed material in or on human beings.
13. The licensee shall not use licensed material in field applications where it is released except as provided otherwise by specific condition of this license.
14. Experimental animals, or the products from experimental animals, that have been administered licensed materials shall not be used for human consumption.
15. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
16. 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 five 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.
17. The licensee is authorized to hold byproduct material with a physical half-life of less than or equal to 120 days for decay-in-storage before disposal without regard to its radioactivity if the licensee:
- A. Monitors byproduct material at the surface before disposal and determines that its radioactivity cannot be distinguished from the background radiation level with an appropriate radiation detection survey meter set on its most sensitive scale and with no interposed shielding; and
  - B. Removes or obliterates all radiation labels, except for radiation labels on materials that are within containers and that will be managed as biomedical waste after they have been released from the licensee; and

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- C. Maintains records of the disposal of licensed materials for three years. The record must include the date of disposal, the survey instrument used, the background radiation level, the radiation level measured at the surface of each waste container, and the name of the individual who performed the disposal.
18. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
19. 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. Application dated March 29, 2005 [ML051430501]
  - B. Letter dated July 15, 2005 [ML052020292]
  - C. Facsimile received September 28, 2005 [ML052780211]
  - D. Letter dated October 3, 2006 [ML062910373]

For the U. S. Nuclear Regulatory Commission

Date July 27, 2007By ***Original signed by Bryan A. Parker***Bryan A. Parker  
Commercial and R&D Branch  
Division of Nuclear Materials Safety  
Region I  
King of Prussia, Pennsylvania 19406