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

May 22, 2007

Docket No. 03009100 License No. 37-15434-01
Control No. 140452

Ralph Vassallo, M.D.
Radiation Safety Officer
American Red Cross
Musser Blood Center
700 Spring Garden Street
Philadelphia, PA 19123-3594

SUBJECT: AMERICAN RED CROSS, LICENSE AMENDMENT, CONTROL NO. 140452

Dear Dr. Vassallo:

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; select **Nuclear Materials; Medical, Academic, and Industrial Uses of Nuclear Material;** then **Regulations, Guidance, and Communications.** You may also 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 8:00 p.m. EST, Monday through Friday (except Federal holidays).

Thank you for your cooperation.

Sincerely,

Original signed by Michelle Beardsley

Michelle Beardsley
Senior Health Physicist
Commercial and R&D Branch
Division of Nuclear Materials Safety

Enclosure:
Amendment No. 15

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SUNSI Review Complete: MBeardsley
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U.S. NUCLEAR REGULATORY COMMISSION

Amendment No. 15

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 April 23, 2007,
1. American Red Cross Blood Services Penn-Jersey Region Musser Blood Center 2. 700 Spring Garden Street Philadelphia, Pennsylvania 19123-3594	3. License number 37-15434-01 is amended in its entirety to read as follows: 4. Expiration date July 31, 2014 5. Docket No. 030-09100 Reference No.

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. Any byproduct material permitted by 10 CFR 35.100	A. Any	A. As needed
B. Sulfur 35	B. Any	B. 10 millicuries
C. Hydrogen 3	C. Any	C. 10 millicuries
D. Phosphorus 32	D. Any	D. 10 millicuries
E. Chromium 51	E. Any	E. 10 millicuries
F. Carbon 14	F. Any	F. 10 millicuries

9. Authorized use:

A. Any uptake, dilution and excretion study permitted by 10 CFR 35.100.
B. through F. For use in conducting in vitro research.

CONDITIONS

10. Licensed material may be used or stored only at the licensee's facilities located at Musser Blood Center, 700 Spring Garden Street, Philadelphia, Pennsylvania.

11. Licensed material is authorized for use by, or under the supervision of:

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number
37-15434-01

Docket or Reference Number
030-09100

Amendment No. 15

A. Individuals permitted to work as an authorized user in accordance with 10 CFR 35.13 and 35.14.

B. The following individuals are authorized users for medical use as indicated:

Authorized Users	Material and Use
Ralph R. Vassallo, M.D.	35.100

C. The following individuals are authorized users for non-medical uses as indicated:

Authorized Users	Material and Use
Ralph R. Vassallo, M.D.	Sulfur 35; Hydrogen 3; Phosphorus 32; Chromium 51; Carbon 14 for in vitro research
Scott Murphy, M.D.	Sulfur 35; Hydrogen 3; Phosphorus 32; Chromium 51; Carbon 14 for in vitro research

12. The Radiation Safety Officer for this license is Ralph R. Vassallo, M.D.

13. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d) for establishing decommissioning financial assurance.

14. The licensee is authorized to hold radioactive material with a physical half-life of less than or equal to 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 10 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 3 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.

15. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

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16. 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. This license condition applies only to those procedures that are required to be submitted in accordance with the regulations. Additionally, this license condition does not limit the licensee's ability to make changes to the radiation protection program as provided for in 10 CFR 35.26. 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 January 29, 2004 (ML040450009)
    B. Letter dated March 17, 2004 (ML040850441)
    C. Letter dated July 1, 2004 (ML041950358)
    D. Application dated September 17, 2004 (ML042670429)
    E. Letter dated October 5, 2004 (ML042940239)

For the U.S. Nuclear Regulatory Commission

Date May 22, 2007

By ***Original signed by Michelle Beardsley***

Michelle Beardsley
Commercial and R&D Branch
Division of Nuclear Materials Safety
Region I
King of Prussia, Pennsylvania 19406