

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, 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.

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| <p>Licensee</p> <p>1. Department of Veterans Affairs</p> <p>2. Nuclear Medicine Service (115) 500 West Fort Street Boise, Idaho 83702-4598</p> | <p>In accordance with letter dated December 4, 1996</p> <p>3. License number 11-18311-01 is amended in its entirety to read as follows:</p> <p>4. Expiration date December 31, 2003</p> <p>5. Docket or Reference No 030-14825</p> | |
| <p>6. Byproduct, source, and or special nuclear material</p> <p>A. Any byproduct material identified in 10 CFR 35.100</p> <p>B. Any byproduct material identified in 10 CFR 35.200</p> <p>C. Any byproduct material identified in 10 CFR 35.300</p> <p>D. Any byproduct material identified in 10 CFR 31.11</p> <p>E. Any byproduct material with Atomic Number 1 through 83, inclusive</p> | <p>7. Chemical and/or physical form</p> <p>A. Any radiopharmaceutical identified in 10 CFR 35.100</p> <p>B. Any radiopharmaceutical identified in 10 CFR 35.200</p> <p>C. Any radiopharmaceutical identified in 10 CFR 35.300</p> <p>D. Prepackaged Kits</p> <p>E. Any</p> | <p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. As needed</p> <p>B. As needed</p> <p>C. 500 millicuries</p> <p>D. As needed</p> <p>E. Not to exceed 10 millicuries per radionuclide except: Carbon-14 - 20 mCi Hydrogen-3 - 20 mCi Iodine-125 - 50 mCi Iodine-131 - 20 mCi Phosphorus-32 - 50 mCi</p> |

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**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number
11-18311-01

Docket or Reference Number
030-14825

Amendment No. 17

9. Authorized use

- A. Medical use described in 10 CFR 35.100.
- B. Medical use described in 10 CFR 35.200.
- C. Medical use described in 10 CFR 35.300.
- D. In vitro studies.
- E. For use in medical research tracer studies in laboratory animals, academic instruction, and other nonhuman uses approved by the VAMC-Boise, Idaho, Radiation Control Committee.

CONDITIONS

- 10. Location of use: 500 West Fort Street, Boise, Idaho.
- 11. Radiation Safety Officer: Kenneth M. Nute
- 12. Authorized Users:
 - A. David K. Anderson, M.D., for material identified in 10 CFR 35.100, 35.200, and 31.11.
 - B. Richard Sullivan, M.D., for material identified in 10 CFR 35.100, 35.200, 35.300, and 31.11.
- 13. Licensed material listed in Item 6.E. shall only be used by, or under the supervision of, individuals designated by the Radiation Control Committee, Robert E. Vestal, M.D., Chairperson.
- 14. A. Sealed sources and detector cells listed in Item 6.E. shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as specified by the certificate of registration referred to in 10 CFR 32.210.
- B. Notwithstanding Paragraph A of this Condition, sealed sources and detector cells designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed 3 months.

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14. (Continued)

- C. In the absence of a certificate from a transferor indicating that a leak test has been made within 6 months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.
- D. Sealed sources need not be leak tested if:
- (i) they contain only hydrogen-3; or
 - (ii) they contain only a radioactive gas; or
 - (iii) the half-life of the isotope is 30 days or less; or
 - (iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or
 - (v) they are not designed to emit alpha particles, 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 or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- E. The leak test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30(b)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region IV, 611 Ryan Plaza Drive, Suite 400, Arlington, Texas 76011, ATTN: Director, Division of Nuclear Materials Safety. The report shall specify the source involved, the test results, and corrective action taken.
- F. The licensee is authorized to collect leak test samples for analysis by Health Physics Northwest. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.

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15. Maintenance, 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 Commission or an Agreement State to perform such services.
16. 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 temperature from exceeding that specified by the manufacturer and approved by U.S. Nuclear Regulatory Commission.
17. Licensed material listed in Item 6.E. shall not be used in or on human beings.
18. The licensee is authorized to hold non-medical byproduct waste, with half-lives of 90 days or less, for decay-in-storage before disposal in ordinary trash provided that:
 - A. Radioactive 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, byproduct material shall be surveyed at the container surface with the appropriate meter set on its most sensitive scale 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 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.
19. Sealed sources or detector cells listed in Item 6.E. containing licensed material shall not be opened or sources removed from source holders by the licensee.
20. The licensee is authorized to transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
21. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices listed in Item 6.E. received and possessed under the license.
22. Experimental animals, or the products from experimental animals, that have been administered licensed materials shall not be used for human consumption.
23. This license does not authorize commercial distribution of licensed material.

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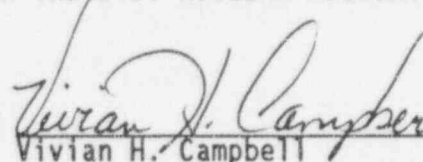
Amendment No. 17

24. Licensed material listed in Item 6.E. shall not be used in or on human beings.
25. 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.
26. 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, except for minor changes in the medical use radiation safety procedures as provided in 10 CFR 35.31. 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 June 7, 1990
 - B. Letter dated May 20, 1993
 - C. Letter dated September 28, 1993
 - D. Letter dated October 13, 1993
 - E. Letter dated October 25, 1993
 - F. Letter dated December 1, 1993
 - G. Letter dated May 17, 1996
 - H. Letter dated June 13, 1996
 - I. Letter dated December 4, 1996

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date JAN 28 1997

By



Vivian H. Campbell

Nuclear Materials Licensing Branch
Region IV
Arlington, Texas 76011