

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, 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 application dated September 28, 1984	
1. Veterans Administration Medical Center Clinical Laboratory Services		3. License number 11-18311-J1 is amended in its entirety to read as follows:	
2. Fifth and Fourth Streets Boise, Idaho 83702		4. Expiration date August 31, 1990	
		5. Docket or Reference No. 030-14825	
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 listed in Groups I and II of Schedule A, Section 35.100 of 10 CFR 35	A. Any radiopharmaceutical listed in Groups I and II of Schedule A, Section 35.100 of 10 CFR 35	A. As necessary for uses authorized in Subitem 9.A.	
B. Any byproduct material listed in Group III of Schedule A, Section 35.100 of 10 CFR 35	B. Any form listed in Group III of Schedule A, Section 35.100 of 10 CFR 35	B. 2 curies of each byproduct material authorized in Subitem 6.B.	
C. Any byproduct material listed in Group IV of Schedule A, Section 35.100 of 10 CFR 35	C. Any radiopharmaceutical listed in Group IV of Schedule A, Section 35.100 of 10 CFR 35	C. As necessary for uses authorized in Subitem 9.C.	
D. Any byproduct material listed in Section 31.11(a) of 10 CFR 31	D. Any	D. 3 millicuries of each byproduct material author- ized in Subitem 6.D.	

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SUPPLEMENTARY SHEET

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Docket or Reference number
030-14825

Amendment No. 05

E. Xenon-133

E. Gas or gas in solution that is the subject of an active (i.e., not withdrawn or terminated) "New Drug Application" (NDA) approved by FDA or an active (i.e., not withdrawn, terminated or on "clinical hold") "Notice of Claimed Investigational Exemption for a New Drug" (IND) that has been accepted by FDA

E. 400 millicuries

F. Any byproduct material with Atomic Numbers 3 through 83, inclusive

F. Any

F. Not to exceed 10 millicuries per radionuclides except:

Carbon-14 20 millicuries
Hydrogen-3 20 millicuries
Iodine-125 20 millicuries
Iodine-131 20 millicuries

9. Authorized use

- A. Any diagnostic procedure listed in Groups I and II of Schedule A, Section 35.100 of Title 10, Code of Federal Regulations.
- B. Preparation and use of radiopharmaceuticals for any diagnostic procedure listed in Group III of Schedule A, Section 35.100 of Title 10, Code of Federal Regulations.
- C. Any therapeutic procedure listed in Group IV of Schedule A, Section 35.100 of Title 10, Code of Federal Regulations.
- D. In vitro studies.
- E. Blood flow or pulmonary function studies.

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9. (continued)

- F. For use in medical research tracer studies in laboratory animals, academic instruction, and other nonhuman uses approved by VAMC Boise, Idaho Radiation Control and Radioactive Drug Research Committee.

CONDITIONS

10. Licensed material shall be used only at Veterans Administration Medical Center, Fifth and Fourth Street, Boise, Idaho.
11. The licensee shall comply with the provisions of Title 10, Chapter 1, Code of Federal Regulations, Part 19, "Notices, Instructions and Reports to Workers; Inspections" and Part 20, "Standards for Protection Against Radiation."

12. A. Licensed material listed in Item 6.A. through 6.E. above is authorized for use by, or under the supervision of, the following individual(s) for the materials and uses indicated:

Lawrence L. Knight, M.D.

Groups I, II, III, and IV
In vitro studies
Xenon-133

John B. Tweeten, M.D.

Groups I, II, and III
In vitro studies
Xenon-133
Iodine-131 as iodide for treatment
of hyperthyroidism, cardiac
dysfunction, and thyroid carcinoma

Frederick R. Oyer, M.D.

Groups I, II, and III
In vitro studies
Xenon-133

- B. Licensed material listed in Item 6.F. shall be used by, or under the supervision of, individuals designated by the VAMC Boise, Idaho Radiation Control and Radioactive Drug Research Committee, Lawrence L. Knight, M.D., Chairman.

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13. Licensed material identified in Item 6.A. through 6.E. shall be used in accordance with the provisions of Section 35.14(b)(c)(e) and (f) of Title 10, Code of Federal Regulations.
14. For a period not to exceed 60 days in any calendar year, a visiting physician is authorized to use licensed material for human use under the terms of this license, provided the visiting physician:

- A. Has the prior written permission of the hospital's administrator and its Radiation Safety Committee, and
- B. Is specifically named as a user on a Nuclear Regulatory Commission license authorizing human use, and
- C. Performs only those procedures for which he is specifically authorized by a Nuclear Regulatory Commission license.

The licensee shall maintain for inspection by the Commission, copies of the written permission specified in Subitem A above and of the license(s) specified in Subitems B and C above. These records shall be maintained for 5 years from the time the licensee grants its permission under Subitem A above.

15. The licensee is authorized to hold radioactive material with a physical half-life of less than 65 days for decay-in-storage before disposal in ordinary trash provided:
- A. Radioactive waste to be disposed of in this manner shall be held for decay a minimum of 10 half-lives.
 - B. Prior to disposal as normal waste, radioactive waste shall be monitored to determine that its radioactivity cannot be distinguished from background with typical low-level laboratory survey instruments. All radiation labels will be removed or obliterated.
 - C. Generator columns shall be segregated so that they may be monitored separately to ensure decay to background levels prior to disposal.
16. Experimental animals administered licensed materials or their products shall not be used for human consumption.
17. Licensed materials identified in Item 6.F. shall not be used in or on human beings or in products distributed to the public.

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18. The licensee may transport licensed material or deliver licensed material to a carrier for transport in accordance with the provisions of Title 10, Code of Federal Regulations, Part 71, "Packaging and Transportation of Radioactive Material."
19. Except as specifically provided otherwise by this license, the licensee shall possess and use licensed material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in applications dated September 15, 1983, and September 24, 1984; and letter dated July 30, 1985. The Nuclear Regulatory Commission's regulations shall govern the licensee's statements in applications or letters, unless the statements are more restrictive than the regulations.



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date AUG 30 1985

Original Signed By
By Jack E. Whitten

Nuclear Materials Safety Section
Region IV
Arlington, Texas 76011

Official Record Copy

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