

MATERIALS LICENSE

Amendment No. 45

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); and to import such byproduct and source material. 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.

"OFFICIAL RECORD COPY"

Licensee

In accordance with application dated
March 12, 19853. License number 29-03438-01 is amended in its
entirety to read as follows:

4. Expiration date June 30, 1990

5. Docket or
Reference No. 030-024736. Byproduct, source, and/or
special nuclear material7. Chemical and/or physical
form8. 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
- B. Any byproduct material listed in Group III of Schedule A, Section 35.100 of 10 CFR 35
- C. Any byproduct material listed in Group IV of Schedule A, Section 35.100 of 10 CFR 35
- D. Any byproduct material listed in Group V of Schedule A, Section 35.100 of 10 CFR 35
- E. Xenon 133

- A. Any radiopharmaceutical listed in Groups I and II 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
- C. Any radiopharmaceutical listed in Group IV of Schedule A, Section 35.100 of 10 CFR 35
- D. Any radiopharmaceutical listed in Group V of Schedule A, Section 35.100 of 10 CFR 35
- E. Gas or gas in solution that is the subject of an active (i.e., not withdrawn or terminated) "New Drug Application" (NDA) approved by FDA or an active (i.e., not withdrawn, terminated or on "clinical hold") "Notice of Claimed Investigational Exemption for a New Drug" (IND) that has been accepted by FDA

- A. As necessary for uses authorized in Subitem 9.A.
- B. 2 curies of each byproduct material authorized in Subitem 6.B.
- C. As necessary for uses authorized in Subitem 9.C.
- D. As necessary for uses authorized in Subitem 9.D.
- E. 200 millicuries

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MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number

29-03438-01

Docket or Reference number

030-02473

Amendment No. 45

9. Authorized use

- A. Any diagnostic procedure listed in Groups I and II of Schedule A, Section 35.100, 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. Any therapeutic procedure listed in Group V of Schedule A, Section 35.100 of Title 10, Code of Federal Regulations.
- E. Blood flow and pulmonary function studies.

CONDITIONS

- 10. Licensed material shall be used only at the licensee's facilities, Newcomb Medical Center, 65 South State Street, Vineland, New Jersey.
- 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. Licensed material listed in Item 6 above is authorized for use by, or under the supervision of, the following individual(s) for the materials and uses indicated:
 - Ernesto B. Go, M.D. I, II, III, IV, V
Xenon 133
 - Satish P. Shah, M.D. I, II, III
Xenon 133
Iodine 131 for treatment of hyperthyroidism,
cardiac dysfunction and thyroid carcinoma
 - Fazlollah Golestaneh, M.D. I, II, III, IV, V
Xenon 133
 - Ramaa B. Athreya, M.D. I, II, III
Xenon 133
Phosphorus 32 as colloidal chromic phosphate for
intracavitary treatment of malignant effusions
- 13. Licensed material shall be used in accordance with the provisions of Section 35.14(b)(c)(e) and (f) of Title 10, Code of Federal Regulations.

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(continued)

CONDITIONS

14. For a period not to exceed sixty (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 Medical Isotopes 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.
15. Patients containing Iodine 131 for the treatment of thyroid carcinoma shall remain hospitalized until the residual activity is 30 millicuries or less.
16. 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 ten (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.
17. 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 application dated March 12, 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

Original Signed By:

John D. Kinneman

Date

JUN 11 1985

By

Nuclear Materials Safety and
Safeguards Branch, Region I
King of Prussia, Pennsylvania 19406