

MATERIALS LICENSE

Amendment Number 16

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.

Licensee		In accordance with application dated January 25, 1983,	
1. Marion General Hospital Department of Nuclear Medicine		3. License number 34-10802-02 is amended in its entirety to read as follows:	
2. McKinley Park Drive Marion, Ohio 43302		4. Expiration date June 30, 1988	
5. Docket or 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 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 by- product 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 Group V 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	D. As necessary for uses authorized in Subitem 9.D.	

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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

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. 200 millicuries

F. Any byproduct material listed in Section 31.11(a) of 10 CFR 31

F. Prepackaged kits

F. 3 millicuries of each byproduct material authorized in Subitem 6.F.

G. Iodine-131

G. Iodomethynorcholesterol manufactured by and received from the Nuclear Pharmacy of the University of Michigan

G. 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. Any therapeutic procedure listed in Group V of Schedule A, Section 35.100 of Title 10, Code of Federal Regulations.

E. Blood flow studies. Pulmonary function studies.

F. In vitro studies.

G. For adrenal imaging used in accordance with Notice of Claimed Investigational Exemption For a New Drug (IND) Number 14,965.

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CONDITIONS

10. Licensed material shall be used only at McKinley Park Drive, Marion, Ohio.
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:
- | | |
|-----------------------|--|
| Lee Johnson, M.D. | All |
| Brooks Sitterly, M.D. | Groups I, II and III
Phosphorus-32 for treatment of leukemia,
polycythemia vera and bone metastases
Iodine-131 for treatment of hyper-
thyroidism and cardiac conditions
Xenon-133
<u>In vitro studies</u> |
| Ernest Hettrick, M.D. | Groups I, II and III
Iodine-131 for treatment of hyper-
thyroidism and cardiac conditions
Xenon-133
<u>In vitro studies</u> |
| Edwin G. Davy, M.D. | Groups I, II and III
Iodine-131 for treatment of hyper-
thyroidism
Xenon-133
<u>In vitro studies</u> |
13. 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:
- Has the prior written permission of the hospital's Administrator and its Medical Isotopes Committee, and
 - Is specifically named as a user on a Nuclear Regulatory Commission license authorizing human use, and
 - 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 five (5) years from the time the licensee grants its permission under subitem (a) above.

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CONDITIONS:

14. 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.
15. Patients containing Iodine-131 for the treatment of thyroid carcinoma or patients containing therapeutic quantities of Gold-198 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. The licensee shall notify the U.S. Nuclear Regulatory Commission within thirty (30) days of the termination of a "Notice of Claimed Investigational Exemption for a New Drug" (IND) for licensed material described in Subitems 6.G. and 7.G.
18. The licensee shall utilize the procedures recommended by the manufacturer of their xenon trap when performing trap saturation tests.
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 application dated January 25, 1983; letter dated May 11, 1983 (with attachments); and Model ALARA Program as contained in Appendix O of Regulatory Guide 10.8, October, 1980. 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

JUN 24 1983

By

Lucy M. McCann

Materials Licensing Section
Region III