

Amendment No. 10

## 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 April 8, 1985	
1. Tri-County Radiologists	3. License number 21-17974-01 is amended in its entirety to read as follows:	
2. 1544 Lakewood Bloomfield Hills, MI 48013	4. Expiration date May 31, 1988	
	5. Docket or Reference No. 030-13748, 030-11685, 030-12187	
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. 3 curies of each byproduct material authorized in Subitem 6.B
C. Xenon-133	C. Gas or gas in solution that is the subject of an active (i.e., not withdrawn or terminated) "New Drug Application" (NDA) approved by FDA or an active (i.e., not withdrawn, terminated or on "clinical hold") "Notice of Claimed Investigational Exemption for a New Drug" (IND) that has been accepted by FDA	C. 200 millicuries
D. Americium 241	D. Sealed source Amersham/Searle Model No. AMC.24	D. 2 sources not to exceed 14 millicuries each

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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. Blood flow studies. Pulmonary function studies.
- D. To be used in Searle Analytic Anatomical Marker Model SS-10244.

CONDITIONS

- 10. A. Licensed material (excluding xenon-133) may be used only at facilities of the licensee located at 39880 Van Dyke Road, Sterling Heights, Michigan; Midwest Health Center, 5050 Schaffer, Dearborn, Michigan; 2200 Monroe, Dearborn, Michigan, and 3656 Harper Avenue, Mount Clemens, Michigan.
- B. Licensed material including xenon-133 may be used only at the licensee's facilities located at Cambridge Diagnostic Center, 27285 West Warren, Dearborn Heights, Michigan; 2709 Pontiac Lake Road, Pontiac, Michigan and 4435 East Davison, Detroit, Michigan.
- 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 the following individual(s) for the materials and uses indicated:

Stanley Halprin, D.O.

Groups I, II and III  
Xenon-133  
Americium-241 sealed source

Raymond Sneider, D.O.

Groups I, II and III  
Xenon-133  
Americium-241 sealed source

Lawrence B. Ratner, D.O.

Groups I, II and III  
Xenon-133  
Americium-241 sealed source

Virginia S. Ventura, M.D.

Groups I, II and III  
Xenon-133  
Americium-241 sealed source

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Benson Selitsky, D.O.

Groups I, II and III  
Xenon-133  
Americium-241 sealed source

Allen Russell, M.D.

Groups I, II and III  
Xenon-133  
Americium-241 sealed source

Chintana Paramagul, M.D.

Groups I, II and III  
Xenon-133  
Americium-241 sealed source

13. The Radiation Protection Officer for the activities authorized by this license is Raymond Sneider, D.O.
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. A. (1) Each sealed source containing licensed material, other than Hydrogen 3, with a half-life greater than thirty days and in any form other than gas shall be tested for leakage and/or contamination at intervals not to exceed six months. In the absence of a certificate from a transferor indicating that a test has been made within six months prior to the transfer, a sealed source received from another person shall not be put into use until tested.
- (2) Notwithstanding the periodic leak test required by this condition, any licensed sealed source is exempt from such leak tests when the source contains 100 microcuries or less of beta and/or gamma emitting material or 10 microcuries or less of alpha emitting material.
- B. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surfaces of the device in which the sealed source is permanently mounted or stored on which one might expect contamination to accumulate. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the Commission.
- C. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Commission regulations. A report shall be filed within five (5) days of the test with the U. S. Nuclear Regulatory Commission, Region III, 799 Roosevelt Road, Glen Ellyn, Illinois 60137, describing the equipment involved, the test results, and the corrective action taken.
- D. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically authorized by the Commission or an Agreement State to perform such services.

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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. This license does not authorize commercial distribution to persons licensed pursuant to Sections 35.14 and 35.100 of 10 CFR Part 35.
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 of Radioactive Material for Transport and Transportation of Radioactive Material Under Certain Conditions."
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 April 18, 1983, September 25, 1984, and April 8, 1985; letters dated April 12, 1983 (except Item 15), December 14, 1984, and April 8, 1985; and ALARA Program dated September 22, 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

Original Signed

By George M. McCann

Materials Licensing Section, Region III

Date May 7, 1985

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