

## MATERIALS LICENSE

Amendment No. 27

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.

**"OFFICIAL RECORD COPY"**

## Licensee

1. Elizabeth General Hospital
2. 925 East Jersey Street  
Elizabeth, New Jersey 07201

- In accordance with application dated  
December 26, 1984
3. License number 29-01600-02 is amended in its  
entirety to read as follows:
4. Expiration date July 31, 1990
5. Docket or  
Reference No. 030-02437

- |                                                                                                         |                                                                                                                                                                                                                                                                                                                                                            |                                                                                      |
|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 6. Byproduct, source, and/or<br>special nuclear material                                                | 7. Chemical and/or physical<br>form                                                                                                                                                                                                                                                                                                                        | 8. Maximum amount that licensee<br>may possess at any one time<br>under this license |
| A. Any byproduct material<br>listed in Groups I and<br>II of Schedule A, Section<br>35.100 of 10 CFR 35 | A. Any radiopharmaceutical<br>listed in Groups I and<br>II of Schedule A, Section<br>35.100 of 10 CFR 35                                                                                                                                                                                                                                                   | A. As necessary for uses<br>authorized in Subitem<br>9.A.                            |
| B. Any byproduct material<br>listed in Group III of<br>Schedule A, Section<br>35.100 of 10 CFR 35       | B. Any form listed in Group<br>III of Schedule A, Section<br>35.100 of 10 CFR 35                                                                                                                                                                                                                                                                           | B. 2 curies of each<br>byproduct material<br>authorized in Subitem 6.B.              |
| C. Any byproduct material<br>listed in Section 31.11(a)<br>of 10 CFR 31                                 | C. Prepackaged kits                                                                                                                                                                                                                                                                                                                                        | C. 5 millicuries of each<br>byproduct material<br>authorized in Subitem 6.C.         |
| D. Xenon 133                                                                                            | D. Gas or gas in solution<br>that is the subject of<br>an active (i.e., not<br>withdrawn or terminated)<br>"New Drug Application"<br>(NDA) approved by FDA<br>or an active (i.e., not<br>withdrawn, terminated or<br>on "clinical hold")<br>"Notice of Claimed In-<br>vestigational Exemption<br>for a New Drug" (IND)<br>that has been accepted<br>by FDA | D. 150 millicuries                                                                   |

## 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. In vitro studies.
- D. Blood flow and pulmonary function studies.

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**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License number

29-01600-02

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030-02437

Amendment No. 27

(continued)

**CONDITIONS**

10. Licensed material shall be used only at the licensee's facilities, Elizabeth General Hospital, 925 East Jersey Street, Elizabeth, 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:  

Joseph Greeley, M.D.	Groups I, II and III In vitro studies Xenon 133
Robert Silbey, M.D.	Groups I, II and III In vitro studies Xenon 133
Khee Tiang Oen, M.D.	Groups I, II and III In vitro studies Xenon 133
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.
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.

The licensee shall maintain for the 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.
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 ten (10) half-lives.

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(15. continued)

**CONDITIONS**

- 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. 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 February 25, 1985 which contains ALARA Program and letters dated December 26, 1984, May 29, 1985 and July 3, 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 E. Glenn

By

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

Date JUL 30 1985