

St. Barnabas Ambulatory Care Center
200 South Orange Avenue
Livingston, NJ 07039

January 4, 1999

United States Nuclear Regulatory Commission
Medical Licensing Section
475 Allendale Road
King of Prussia, PA 19404

030-34442

Gentlemen:

Please amend our radioactive materials license number 29-01608-05 as follows:

Add the use of Gadolinium-153 as sealed sources. The physical form shall be line sources for use in 2 Profile Attenuation Correction Devices (PACD) for our 2 Siemens ECAM gamma camera systems. The supplier shall be Dupont Pharmaceutical.

The PACD has been approved by the Illinois Department of Nuclear Safety under device registry number IL-0605-D-105-S (copy attached); the transmission line sources have been approved by the Nuclear Regulatory commission under device registry number NR-0476-S-117-S.

A possession limit of 600 mCi is requested (2 ECAM gamma cameras).

We submit the following information from Siemens Medical Systems, Inc. for your review:

1. Source Replenishment Procedures
 - a) Types of individuals authorized to change sources (p. 4/2)
2. Maximum Exposure Dose Rates
3. Safety Risk Assessment
 - a) Preventative measures and actions taken in the event of failure of the shutter mechanism (p. 10/1)

We confirm the following:

1. The sources will be inventoried quarterly and leak-tested at intervals not to exceed six months.
2. Spent sources shall be returned to Dupont for disposal.

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3. Only the following radiation workers will be permitted to perform source changes on the Siemens "Profile" Gd-153 device:

- a) Authorized User Physicians
- b) Radiation Physicists
- c) Nuclear Medicine Technologists

We confirm that all the above have been adequately trained to handle radioactive sources. In addition, Siemens Engineers, "device specific trained", by Siemens Medical Systems to replace sealed sources, will be authorized to perform source changes.

We would appreciate expediting this request. Should you have any technical questions, please contact Mr. John Gochoco at (973) 322-5590.

Sincerely,

Susan Garrubbo
Executive Director

enc. \$450 amendment fee