



Good Shepherd
Hospital
of the Evangelical Hospital Association

450 West Highway 22
Barrington, Illinois 60010
(312) 381-9600

April 27, 1983

Bruce Mallett, PhD
Chief, Licensing Section
U.S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Dear Dr. Mallett:

We request you amend our NRC By-Product Material License #12-18809-01 to include Group VI materials. Supplementary information for our request is as follows:

The following information utilizes the format from Item 20, Page 10.8-11 of Regulatory Guide 10.8, Revision 1, October, 1980.

- a. See attached diagram, which shows the area which the Group VI materials will be stored in. There is a restricted area and access to the materials will be by authorized personnel only.

At this time, we do not anticipate purchasing our own sources. Sources will be obtained through NRC approved manufacturer's distributors. With the available shielding around the storage castle of 2" by 4" by 8" standard lead bricks, radiation levels will be kept below the 2mR per hour limit. The area surrounding the storage room is not a routinely occupied area.

- b. Special precautions that will be utilized while handling the materials are as follows:

1. A lead "L" block shield with leaded glass view port will be utilized while sources are being handled during preparation and loading into applicators.
2. Long-handled forceps will also be utilized for handling of the sources.
3. No sources will be picked up by hand.

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Amount/Fee Category 7407-2
Type of Fee Amended
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Date 5/20/83
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4. All sources will be kept in shielded containers until such time as they are actually being loaded into applicators or placed in the patient.
- c. Finger TLD's will be utilized for individuals who will handle sealed sources. This will include individuals preparing the sources and those doing actual applications.
- d. A four wheel aluminum cart with a lead brick castle on top of it will be utilized to transport the sources from the storage site to the place of use. The bricks will be 2" x 4" x 8" standard lead bricks. Proper signage will be posted on the castle, alerting individuals as to the content of the material within. A radiation survey instrument will be brought along with the transport cart.
- e. Source accountability will be maintained by written record. This record will include the following:
 1. the date of the receipt of the sources
 2. the date the sources are signed out
 3. who signs the sources out
 4. where they will be used
 5. the patient's name and room number

Also included in the record upon completion of the therapy will be the date of the return of the sources, number of sources returned, who returns the sources and verification that the sources are placed back in the storage area.

- f. Surveys to be performed during the course of treatment are as follows:
 1. the surgery room where the material is implanted
 2. the patient and the room the patient is staying in right after the patient is brought back to the room
 3. the room is resurveyed upon removal of the sources and before the patient is discharged
 4. the source inventory and count is conducted at the time the sources are removed from the patient.
 5. no patient is released until verification that all sources have been returned to the storage area has been made.
- g. We will follow the procedures for nursing instruction as listed in Appendix L of Regulatory Guide 10.8.

U.S. Nuclear Regulatory Commission
Dr. Bruce Mallett
Page 3

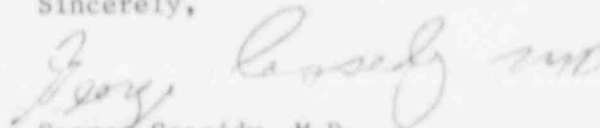
We would like to add the following individuals as users of the Group VI materials only:

1. Jeffrey Smoron, M.D. - credentials for Doctor Smoron can be found in NRC License #12-06593-01
2. James Gagnon, M.D. - credentials for Doctor Gagnon can be found in NRC License #12-06593-01
3. Richard Phillips, M.D. - credentials for Doctor Phillips can be found under NRC License #12-09567-01 and #12-09567-03.

These individuals would be the only users of Group VI materials at this time.

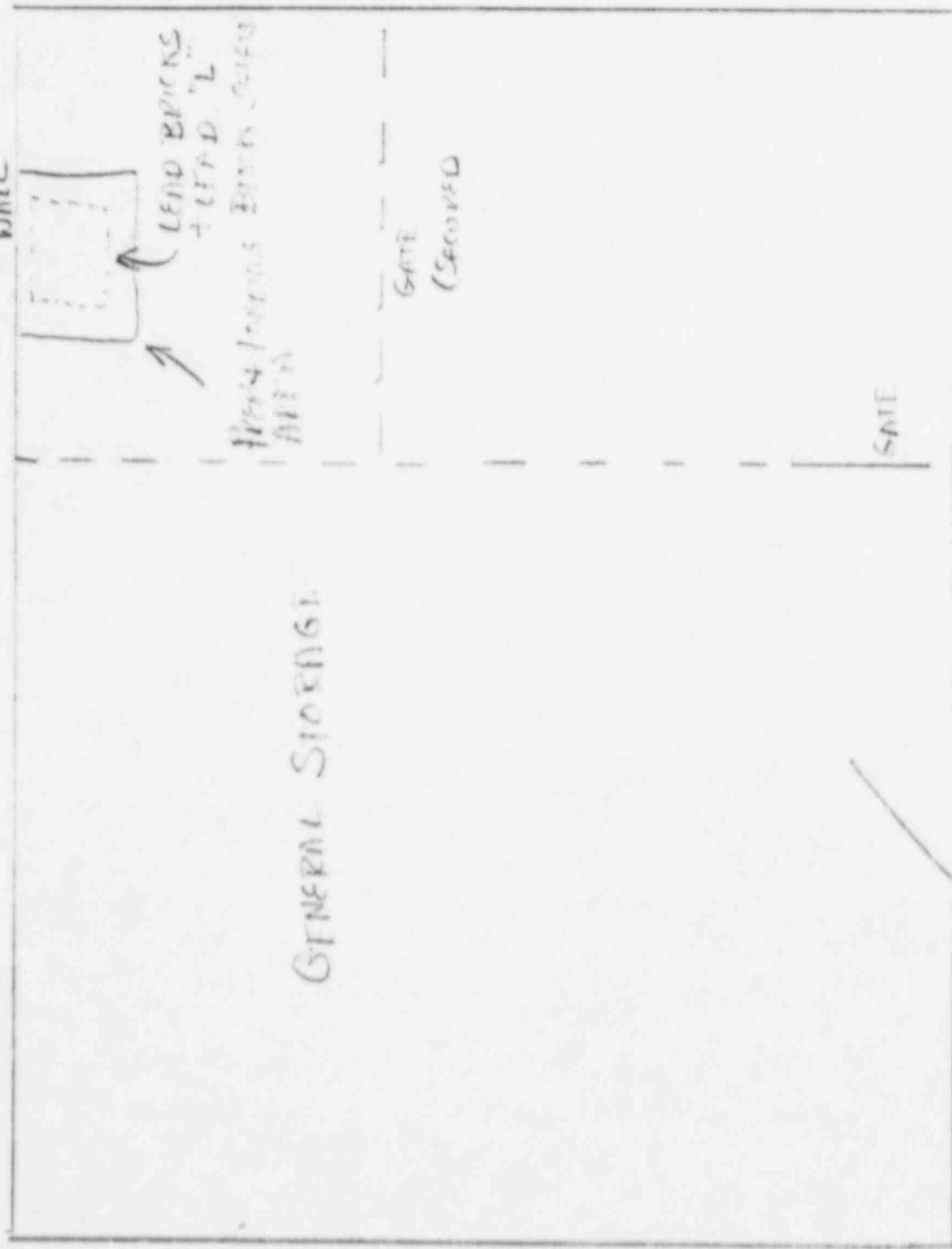
Should you have any questions regarding our request or should you need any additional information, please contact Mr. Ronald D. Edwards, Health Physicist, at (312) 369-6488. He is authorized to answer any questions or provide any additional information regarding our NRC License.

Sincerely,



George Cassidy, M.D.
Director
Radiology and Diagnostic Imaging

GC:kab
Enc. (2)



CONCRETE
BLOCK
WALL

LEAD BRICKS
+ LEAD "L"

WATER TANKS + PUMPS

GATE
(Secured)

GATE

GENERAL STORAGE

STORAGE AREA FOR GROUP VI MATERIALS

GOOD SHEPHERD HOSPITAL
RAVENSWOOD, ILL.

12-18809-01