NRC FORM 313
(10-87)
10 CFR 30, 32, 34, 35 and 40

APPLICATION FOR MATERIAL LICENSE

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED BY OMB
3150-0120
Expires: 6-30-90

030-20000

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

APPLICATIONS FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

U.S. NUCLEAR REGULATORY COMMISSION
DIVISION OF FUEL CYCLE AND MATERIAL SAFETY, NMSS
WASHINGTON, DC 20555

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS, IF YOU ARE LOCATED IN:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION I
NUCLEAR MATERIALS SAFETY SECTION B
475 ALLENDALE ROAD
KING OF PRUSSIA, PA 19406

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION II
NUCEAR MATERIALS SAFETY SECTION
101 MARIETTA STREET, SUITE 2900
ATLANTA, GA 30323

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION III
MATERIALS LICENSING SECTION
799 ROOSEVELT ROAD
GLEN ELLYN, IL 60137

ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH, OR WYOMING, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
MATERIAL RADIATION PROTECTION SECTION
611 RYAN PLAZA DRIVE, SUITE 1000
ARLINGTON, TX 76011

ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON, AND U.S. TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION V
NUCLEAR MATERIALS SAFETY SECTION
1450 MARIA LANE, SUITE 210
WALNUT CREEK, CA 94596

RECEIVED
AUG -8 AM 11:10
U.S. NUCLEAR REGULATORY COMMISSION
OFFICE OF RESOURCE MANAGEMENT

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTION.

1. THIS IS AN APPLICATION FOR *(Check appropriate item)*

- [ ] A. NEW LICENSE
- [ ] B. AMENDMENT TO LICENSE NUMBER _____
- [X] C. RENEWAL OF LICENSE NUMBER NRC 37-20624-01

2. NAME AND MAILING ADDRESS OF APPLICANT *(Include Zip Code)*

Brownsville General Hospital
125 Simpson Road
Brownsville, PA 15417

3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED.

Same as #2 above.

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION | TELEPHONE NUMBER

Vicente Alcantara, M.D. RSO | (412) 785-7200

SUBMIT ITEMS 5 THROUGH 11 ON 8½ x 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

5. RADIOACTIVE MATERIAL
a. Element and mass number, b. chemical and/or physical form, and c. maximum amount which will be possessed at any one time.

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE.

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.

9. FACILITIES AND EQUIPMENT.

10. RADIATION SAFETY PROGRAM.

11. WASTE MANAGEMENT.

12. LICENSEE FEES *(See 10 CFR 170 and Section 170.31)*
FEE CATEGORY 7C | AMOUNT ENCLOSED $580.00

13. CERTIFICATION. *(Must be completed by applicant)* THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, AND 40 AND THAT ALL INFORMATION CONTAINED HEREIN, IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948, 62 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

SIGNATURE - CERTIFYING OFFICER	TYPED/PRINTED NAME	TITLE	DATE
Charles Lonchar	Charles Lonchar	Chief Executive Officer	7-25-88

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	COMMENTS	APPROVED BY
REN	Aug. 8	7C	ML10 109314	S. Kimberly
AMOUNT RECEIVED	CHECK NUMBER			DATE
$580	029780		"OFFICIAL RECORD COPY"	8/11/88

9001160315 881014
REG1 LIC30
37-20624-01 PDR

26 JUL 1988

#5 & 6 of NRC 313

Radioactive Material and Purpose of Use

BYPRODUCT MATERIAL	AMOUNT	PURPOSE
5.a Material in 35.100	As needed	6.a Medical Use
5.b Material in 35.200	As needed	6.b Medical Use
5.c Material in 31.11	As needed	6.c In Vitro Studies

Items #5 & 6
July 25, 1988

#7 of NRC 313 Individuals Responsible for Radiation Safety Programs; Training and Experience

7.1 of NRC 313 Authorized Users for Medical Use

William E. Reisinger, Jr., M.D.	See NRC License #37-20624-01
Geno J. DiBagno, M.D.	See NRC License #37-20624-01
Vicente Alcantara, M.D.	See NRC License #37-20624-01
Vallabhaneni Babu, M.D.	See NRC License #37-20624-01
Richard Gnegy, M.D.	See NRC License #37-20624-01
Robert J. Peard, M.D.	See NRC License #37-20624-01
Dan Van Lee, M.D.	See NRC License #37-06573-03

7.3 of NRC 313 Radiation Safety Officer

Vicente Alcantara, M.D.	See NRC License #37-20624-01

Item #7
July 25, 1988

#8 of NRC 313 Training for Individuals Working in or Frequenting Restricted Areas

8.1 of NRC 313 Training Program

A. Once a year, all personnel including technicians, nursing, security and housekeeping personnel will be given a talk in the form of a lecture on the subjects of:

Areas where radioactive material is used or stored
Radiation safety
Pertinent NRC rules and regulations
Appropriate responses to emergencies or unsafe conditions
Their right to be informed of their radiation exposure

B. Anyone joining the department or working in the vicinity of radioactive material will be instructed on radiation safety and all pertinent information regarding the department prior to assuming their duties.

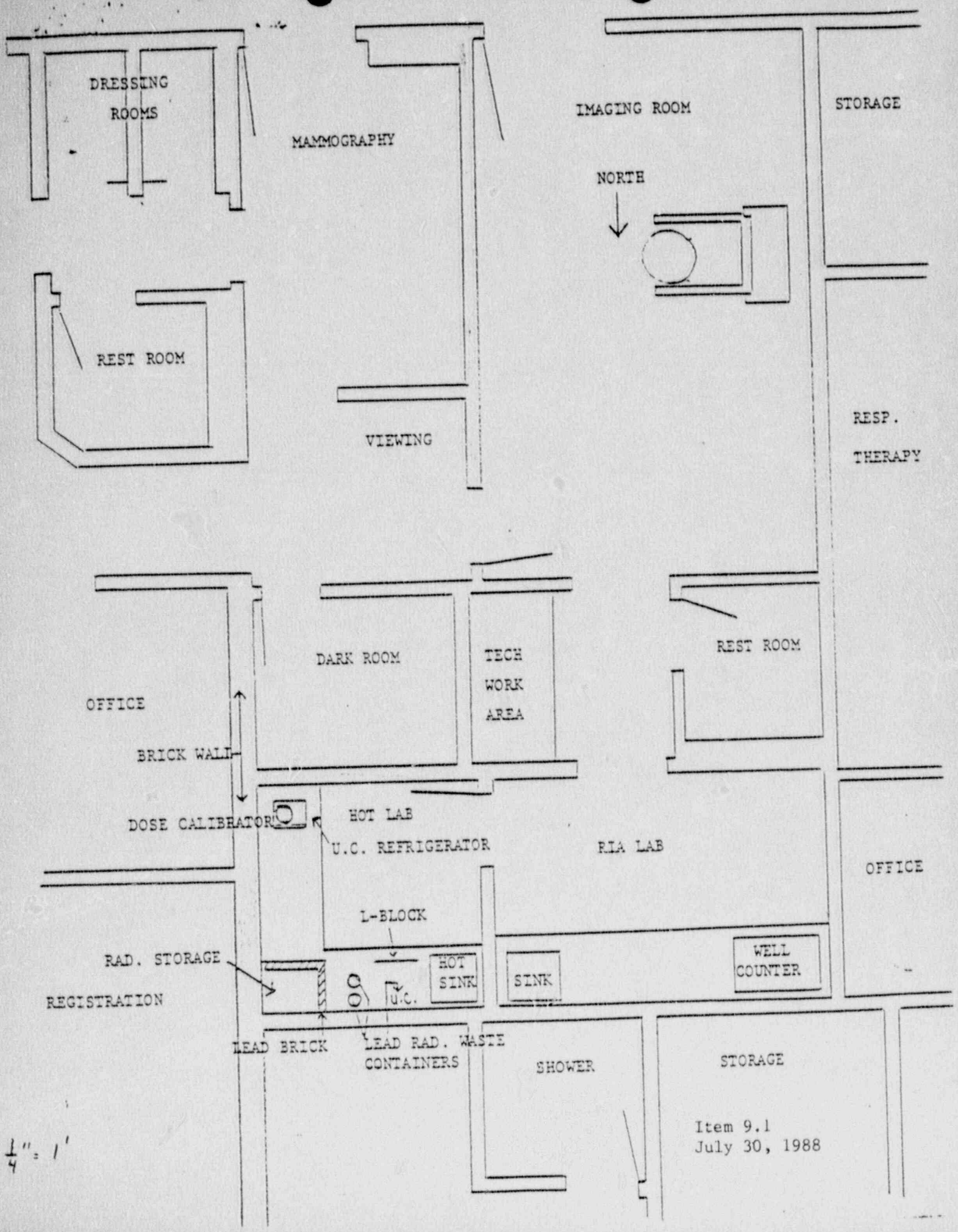
C. The technicians will be routinely instructed quarterly by the health physicist on subjects such as:

Physics
Radiation safety
Mathematics
Calibration and care of instruments
Radioimmunoassay
Licensing
NRC and state regulations
Radiobiology

8.2 of NRC 313 Other Training Program

NA

#9.1 of NRC 313. [redacted] Facilities: Annotated Drawing



1/4" = 1'

Item 9.1
July 30, 1988

9.2 of NRC 313 Survey Meter Calibration

Survey meters will be calibrated routinely once a year by an outside vendor. We are using the services of Applied Health Physics, Inc., 2986 Industrial Blvd., Bethel Park, PA 15102, (412) 563-2242, for the calibration of our survey meters. Their license number is NRC 37-09135-01.

9.3 of NRC 313 Dose Calibrator Calibration

We will establish and implement the model procedure for calibrating our dose calibrator that was published in Appendix C to Regulatory Guide 10.8, Revision 2.

For the routine calibration of the dose calibrator, we will use the following sources:

SOURCES	APPROXIMATE ACTIVITY
Co 57	50 uCi - 5 mCi
Cs 137	50 - 200 uCi
Ba 133	50 - 250 uCi

9.4 of NRC 313 Personnel Monitoring Program

We will establish and implement the model personnel external exposure monitoring program published in Appendix D to Regulatory Guide 10.8, Revision 2.

9.5 of NRC 313 Imaging Equipment

NA

9.6 of NRC 313 Other Equipment and Facilities

NA

#10 of NRC 313 Radiation Safety Program

10.1 of NRC 313 Radiation Safety Committee/Radiation Safety Oificer

We will issue the model Radiation Safety Committee Charter and Radiation Safety Officer Delegation of Authority that was published in Appendix F to Regulatory Guide 10.8, Revision 2.

10.2 of NRC 313 ALARA Program

We will establish and implement the model ALARA program that was published in Appendix G to Regulatory Guide 10.8, Revision 2.

10.3 of NRC 313 Leak Test

Our consulting physicist, Krishnadas Banerjee, Ph.D, FACR, will do the leak testing of the sealed sources (activity greater than 100 uCi) every six months. For his resume, see NRC license #37-01072-01.

10.4 of NRC 313 Safe Use of Radiopharmaceuticals

We have developed rules for the safe use of radiopharmaceuticals for your review that are appended as ATT 10.4.

10.5 of NRC 313 Spill Procedures

We will establish and implement the model spill procedures published in Appendix J to Regulatory Guide 10.8, Revision 2.

10.6 of NRC 313 Ordering and Receiving

We have developed a procedure for ordering and receiving radioactive material for your review that is appended as ATT 10.6.

10.7 of NRC 313 Opening Packages

We have developed a package opening procedure for your review that is appended at ATT 10.7.

Items 10.1 - 10.7
July 25, 1988

10.8 of NRC 313 Unit Dosage Records

We will establish and implement the model procedure for a unit dosage record system that was published in Appendix M.1 to Regulatory Guide 10.8, Revision 2.

10.9 of NRC 313 Multidose Vial Records

We will establish and implement the model procedure for a multidose vial records system that was published in Appendix M.2 to Regulatory Guide 10.8, Revision 2.

10.10 of NRC 313 Molybdenum Concentration Records

Not applicable because we purchase radionuclides in single dose form from an NRC approved radiopharmaceutical company in Pittsburgh.

10.11 of NRC 313 Implant Source Use Records

NA

10.12 of NRC 313 Area Survey Procedures

We will establish and implement the model procedure for area surveys that was published in Appendix N to Regulatory Guide 10.8, Revision 2.

10.13 of NRC 313 Air Concentration Control

NA

10.14 of NRC 313 Radiopharmaceutical Therapy

NA

10.15 of NRC 313 Implant Therapy

NA

10.16 of NRC 313 Other Safety Procedures

NA

ATT 10.4 Rules for the Safe Use of Radiopharmaceuticals

1. Laboratory must be kept clean, and waste or contaminated materials must not be allowed to accumulate.

2. No food is to be stored in the Nuclear Medicine Department.

3. No cosmetics are to be applied while in the Nuclear Medicine Department.

4. Eating, drinking, smoking, and loitering are prohibited in areas where radioactive material is handled or stored.

5. Laboratory coats and rubber gloves are to be worn while handling radioactive materials.

6. All working surfaces will be covered with disposable absorbent paper.

7. All containers of radioactive materials must be labeled with radionuclide name, activity, date of assay, and radiation symbol.

8. Monitoring devices, film badges and ring TLD are to be worn by nuclear medicine personnel while working in the department. These devices will be measured monthly and a record of the exposure kept on file in the Radiology Department and in each employee's personnel file. Each employee will be given a record of their exposure annually and upon termination.

9. Automatic pipetting devices are to be used; no pipetting by mouth.

10. All spills, including those resulting from incontinence, must be cleaned up immediately.

11. All work areas are to be monitored daily and the results of these surveys recorded.

12. All doses are to be assayed immediately before injection into the patient.

13. Syringe shields are to be used when preparing or injecting radioisotopes or radiopharmaceuticals.

14. Either after each procedure or before leaving the area, hands will be monitored for contamination in a low-background area with the G-M survey meter, or the gamma camera.

ATT 10.6

MEMORANDUM

TO: Nursing Supervisors

FROM: Vicente Alcantara, M.D.
Radiation Safety Officer

RE: Receipt of Packages Containing Radioactive Material

The nursing supervisor on duty shall accept delivery of packages containing radioactive material that arrive during off-duty hours. These packages should be placed on a cart or wheelchair and taken immediately to the Radiology department. Radiology personnel will then assume responsibility for the package.

If the package appears to be damaged, immediately contact one of the individuals identified below. Ask the carrier to remain at the hospital until it can be determined that neither the driver nor the delivery vehicle is contaminated.

If you have any questions concerning this memorandum, please feel free to contact me at extension 2266.

Radiation Safety Officer:	Vicente Alacantara, M.D.	941-2037
Nuclear Medicine Supervisor:	Joseph Javorsky	239-5892
Radiology Manager:	Jack Sulitz	228-7150

ATT 10.7 Procedure for Opening Packages Containing Radioactive Materials

All packages received are to be entered in the Record of Radionuclides Ordered and Received log book. Nuclear medicine personnel will follow the procedure outlined below:

1. Put on disposable gloves.

2. Visually inspect all packages for any sign of damage (e.g. wetness, crushed). If damage is noted immediately contact one of the individuals identified below:

   Nuclear medicine supervisor: Joseph Javorsky 239-5892
   Radiology manager: Jack Sulitz 228-7150
   Radiation Safety Officer: Vicente Alcantara, M.D. 941-2047

   Ask the carrier to remain at the hospital until it can be determined that neither he nor the delivery vehicle is contaminated.

3. Measure the exposure 3 feet from the package surface and at the package surface using a G-M survey meter and record the reading. If the exposure exceeds 200mR/hr at the surface or 10mR/hr at 3 feet, discontinue the procedure and notify one of the individuals specified above.

4. Open the outer package (following manufacturer's directions if supplied) and remove packing slip. Open inner package to verify contents (compare requisition, packing slips and labels) and check integrity of final source container. (Inspect for breakage of seals, vials, loss of liquid, discoloration of packing material, etc.).

5. Using a gauze pad, wipe the final source container. Use a new gauze pad for each container to be wiped. Place the gauze pads into plastic assay tubes and count the samples with the scintillation gamma counter for one minute each using a 15 - 500 kev window for Tc-99m products. Readings for each sample should not exceed 2000 dpm's above the background readings. If the wipe test results are within normal limits, record as O.K. in the log book. Decontaminate the source container if necessary (counts exceeding 2000 dpm's above background levels) rewipe and recount. Indicate the contents of the source container with corresponding assay tube on the tape printout. In case of I-131, the limits will be 200 dpm.

6. Monitor the packing material and packages for contamination before discarding. If contaminated, treat as radioactive waste. If not, obliterate radiation labels before discarding in regular trash.

#11 of NRC 313 Waste Management

11.1 of NRC 313 Waste Disposal

We have developed a procedure for waste disposal for your review that is appended as ATT 11.1.

11.2 of NRC 313 Other Waste Disposal

NA

ATT 11.1 Waste Disposal

All radiopharmaceuticals will be ordered from SYNCOR, a radiopharmaceutical firm in Pittsburgh (2911 Penn Avenue). The radiopharmaceuticals will be ordered as needed and will be supplied in unit dose form. All used syringes as well as unused doses will be returned in their original lead lined container to SYNCOR for disposal.

Radioactive waste materials such as gauze pads, needles, butterflies, etc. will be held for decay in storage at our institution and will be disposed of in normal trash for incineration once the activity has reached background levels.

Liquid radioactive wastes from in vitro studies, Co 57 and I 125, will be released into the sanitary sewer system in accordance with the established regulations.

All radiation warning labels affixed to containers are to be removed before the containers can be disposed of in normal trash.

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM
AND
REGIONAL LICENSING SECTIONS

(FOR LFMS USE)
INFORMATION FROM LTS

PROGRAM CODE: 02120
STATUS CODE: 2
FEE CATEGORY: 7C
EXP. DATE: 19880831
FEE COMMENTS: CODE 23

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED
APPLICANT/LICENSEE: BROWNSVILLE GENERAL HOSPITAL
RECEIVED DATE: 880726
DOCKET NO: 3020000
CONTROL NO.: 109314
LICENSE NO.: 37-20624-01
ACTION TYPE: RENEWAL

2. FEE ATTACHED
AMOUNT: $580.00
CHECK NO.: 029780

3. COMMENTS

SIGNED L. L. Brown
DATE 88/08/04

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED)

1. FEE CATEGORY AND AMOUNT: 7C $ 580

2. CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR:
AMENDMENT ____
RENEWAL ✓
LICENSE ____

3. OTHER _____

SIGNED D. Kimberly
DATE 8/11/88