

(7-90)

10 CFR 30, 32, 33

34, 35, 36, 39 and 40

APPLICATION FOR MATERIAL LICENSE

Estimated burden per response to comply with this information collection request: 7 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Forward comments regarding burden estimate to the Information and Records Management Branch (T-6 F33), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, and to the Paperwork Reduction Project (3150-0120), Office of Management and Budget, Washington, DC 20503. NRC may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.

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.

APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY
OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS
U.S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555-0001

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:

LICENSING ASSISTANT SECTION
NUCLEAR MATERIALS SAFETY BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PA 19406-1415

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

NUCLEAR MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION II
101 MARIETTA STREET, NW, SUITE 2900
ATLANTA, GA 30323-0199

IF YOU ARE LOCATED IN:

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

MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION III
801 WARRENVILLE RD.
LISLE, IL 60532-4361

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS,
LOUISIANA, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA,
OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH,
WASHINGTON, OR WYOMING, SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
811 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TX 76011-8064

LL 30375
030-34356
02200

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 JURISDICTIONS.

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

☒ A
☐ B
☐ C

A. NEW LICENSE

B. AMENDMENT TO LICENSE NUMBER _____

C. RENEWAL OF LICENSE NUMBER _____

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

~~SAME AS ITEM 3~~
COMPREHENSIVE MEDICAL EVALUATIONS, I
451 Park Avenue South, 2nd Floor
New York, New York 10016

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

GREGORY MEDICAL OFFICE
2841 Kennedy Blvd.
North Bergen, NJ 07087

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Ephraim S. Himelstein

TELEPHONE NUMBER

212-779-0202

SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 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 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

75

AMOUNT

ENCLOSED \$ 1400.00

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 CONFORMANCE WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 39, 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.

CERTIFYING OFFICER - TYPE/PRINTED NAME AND TITLE

Jose R. Sanchez-Pena, M.D.

SIGNATURE

DATE

1-27-97

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		

APPROVED BY

DATE

SECTION COPY

JAN 30 1997

PRINTED ON RECYCLED PAPER

By product material

Amount

Purpose

Material Listed in
35,100

as needed

medical use uptake,
dilution & excretion
studies.

Materials Listed in
35.200

as needed

medical use imaging
& localization

Materials Listed in
35,300

as needed
less than
30Mci I131

medical use therapy

Calibration sources
materials listed in
35.100 & 35.200
and T1/2 less than
100 days
T1/2 greater than
100 days

not to exceed
15Mci

calibration of
Dose calibrator

not to exceed
200 Micro Curies

Dose calibrator

Technetium 99m
single & mounts

not to exceed
50 Millicuries

Dose calibrator

ITEM 7

Individuals responsible for radiation safety program and their training:

Supplement A:

Training and experience of radiation safety office

E.S. Himmelstein Physicist

Authorized user Non-Human use Coney Island Hospital New
York City office Radiation Control License # 130-3

RSO Coney Island Hospital 1974-1980

RSO Woodhull Hospital License # 2649-1 1980-1989

Attached License # 2649-1 NYC office of Radiation Control

SUPPLEMENT A

SUPPLEMENT		U.S. NUCLEAR REGULATORY COMMISSION		
TRAINING AND EXPERIENCE AUTHORIZED USER OR RADIATION SAFETY OFFICER				
1. NAME OF PROPOSED AUTHORIZED USER OR RADIATION SAFETY OFFICER <i>Ephraim S. Himmelshein</i>		2. FOR PHYSICIANS, STATE OR TERRITORY WHERE LICENSED		
3. CERTIFICATION				
SPECIALTY BOARD A	CATEGORY B	MONTH AND YEAR CERTIFIED C		
<i>NEW YORK CITY OFFICE OF RADIATION CONTROL</i>	<i>R.S.O. WOODHULL HOSPITAL</i>	<i>LICEN # 2649-1</i>		
4. TRAINING RECEIVED IN BASIC RADIOISOTOPE HANDLING TECHNIQUES				
FIELD OF TRAINING A	LOCATION AND DATE(S) OF TRAINING B	TYPE AND LENGTH OF TRAINING		
		CLOCK HOURS IN LECTURE OR LABORATORY	CLOCK HOURS OF SUPERVISED ON-THE-JOB EXPERIENCE	
a. RADIATION PHYSICS AND INSTRUMENTATION				
b. RADIATION PROTECTION				
c. MATHEMATICS PERTAINING TO THE USE AND MEASUREMENT OF RADIOACTIVITY				
d. RADIATION BIOLOGY				
e. RADIOPHARMACEUTICAL CHEMISTRY				
5. EXPERIENCE WITH RADIATION. (Actual use of Radioisotopes or Equivalent Experience)				
ISOTOPE	mCi USED AT ONE TIME	LOCATION	CLOCK HOURS	TYPE OF USE

CITY OF NEW YORK
RADIOACTIVE MATERIALS LICENSE

Page 1 of _____ Pages

AMENDMENT NUMBER 1

LICENSE NUMBER 2649 1

Woodhull Medical and
Mental Health Center
Dept. of Radiology/Nuclear Medicine
Dept. of Pathology/Laboratories
720 Flushing Avenue
Brooklyn, N. Y. 11206

Attention: Richard A. Rosen, M.D.
Martin Salwen, M.D.

In accordance with letter dated December 13, 1982, from
Ephraim S. Himmelstein, Radiation Safety Officer, License Number 2649-1
is hereby amended to read as follows:

I) To add the following radioactive materials :

6.) Radioactive Material	7.) Chemical and/or Physical Form	8.) Maximum Quantity
M.) Rubidium 81	M)(Contained in a dis - pensing column within a Krypton 81m Gas Generator and eluted by passage of humidified oxygen or air through the column)	M.) 25 Millicuries
N.) Krypton 81m	N.) Gas	N.) 25 Millicuries

CONDITIONS

9.) Authorized Use:

- M) The radioisotope from which the Krypton 81m is provided.
N) Pulmonary Ventilation Studies.

II) To update Condition #19 and to read as follows:

#19) Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material described in Subitems 6, 7 and 9 of this license in accordance with statements, representations and procedures contained in:

- 1) Application dated September 15, 1982.
- 2) Letters dated September 21, 1982 and December 13, 1982.

FOR THE NEW YORK CITY DEPARTMENT OF HEALTH

Date _____

by _____

Barry C. Scheraga

Assistant Commissioner for Radiological Health

Pursuant to the New York City Charter and Article 175 of the New York City Health Code, and in reliance on statements and representations heretofore made by the licensee designated below, a license is hereby issued authorizing such licensee to transfer, receive, possess and use the radioactive material(s) designated below; and to use such radioactive materials for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules, regulations, and orders now or hereafter in effect of all appropriate regulatory agencies and to any conditions specified below.

Licensee WOODHULL MEDICAL AND MENTAL HEALTH CTR. 1. Name DEPT. OF RADIOLOGY / NUCLEAR MEDICINE DEPT. OF PATHOLOGY / LABORATORIES 2. Address 720 FLUSHING AVENUE B'KLYN, N. Y. 11206 ATT: RICHARD A. ROSEN, M.D. MARTIN SALWEN, M.D.		3. License number 2649-1
		4. Expiration date Oct. 31, 1987
		5. Reference number
6. Radioactive materials (element and mass number) A) ANY RADIOACTIVE MATERIAL LISTED IN GROUPS I AND II OF TABLE SIX (6) SECTION 175.117, ART. 175 OF THE NEW YORK CITY HEALTH CODE.	7. Chemical and/or physical form A) ANY RADIO PHARMACEUTICAL LISTED IN GROUPS I AND II OF TABLE SIX (6), SECTION 175.117, ARTICLE 175 OF THE NEW YORK CITY HEALTH CODE.	8. Maximum quantity licensee may possess at any one time A) AS NECESSARY FOR USE AUTHORIZED IN SUB- ITEM 9A

CONT.

CONDITIONS

9. Authorized use. (Unless otherwise specified, the authorized place of use is the licensee's address stated in Item 2 above.)
- A) ANY DIAGNOSTIC PROCEDURE LISTED IN GROUPS I AND II OF TABLE SIX (6), SECTION 175.117, ARTICLE 175 OF THE NEW YORK CITY HEALTH CODE.
 - B) PREPARATION AND USE OF RADIOPHARMACEUTICALS FOR ANY DIAGNOSTIC PROCEDURE LISTED IN GROUPS III OF TABLE SIX (6), SECTION 175.117, ARTICLE 175 OF THE NEW YORK CITY HEALTH CODE.
 - C) ANY THERAPEUTIC PROCEDURE LISTED IN GROUP IV OF TABLE SIX (6), SECTION 175.117, ARTICLE 175 OF THE NEW YORK CITY HEALTH CODE.
 - D) ANY THERAPEUTIC PROCEDURE LISTED IN GROUP V OF TABLE SIX (6), SECTION 175.117, ARTICLE 175 OF THE NEW YORK CITY HEALTH CODE.
 - E) DIAGNOSIS OF CARDIAC ABNORMALITIES, CEREBRAL AND MUSCLE BLOOD FLOW STUDIES. PULMONARY FUNCTION STUDIES.
 - F) THROUGH L) IN-VITRO LABORATORY STUDIES. (NON-HUMAN USE).

CONT..

Date _____

FOR THE NEW YORK CITY DEPARTMENT OF HEALTH

by _____

CONTINUATION
WOODHULL

LICENSE NUMBER -2649

6. RADIOACTIVE MATERIALS (ELEMENT & MASS NUMBER)	7. CHEMICAL AND/OR PHYSICAL FORM	8. MAXIMUM QUANTITY LICENSE MAY POSSESS AT ANY ONE
B) ANY RADIOACTIVE MATERIAL LISTED IN GROUP III OF TABLE SIX (6), SECTION 175.117, ART. 175 OF THE NEW YORK CITY HEALTH CODE.	B) ANY FORM LISTED IN GROUP III OF TABLE SIX (6), SECTION 175.117, ART. 175 OF THE NEW YORK CITY HEALTH CODE.	B) 3 CURIES OF EACH RADIOACTIVE MATERIAL AUTHORIZED IN ITEM 6.B
C) ANY RADIOACTIVE MATERIAL LISTED IN GROUP IV OF TABLE SIX (6), SECTION 175.117, ARTICLE 175 OF THE NEW YORK CITY HEALTH CODE.	C) ANY RADIOPHARMACEUTICAL LISTED IN GROUP IV OF TABLE SIX (6), SECTION 175.117, ART. 175 OF THE NEW YORK CITY HEALTH CODE.	C) AS NECESSARY FOR USES AUTHORIZED IN SUB-ITEM 9 D
D) ANY RADIOACTIVE MATERIAL LISTED IN GROUP V OF TABLE SIX (6), SECTION 175.117, ARTICLE 175 OF THE NEW YORK CITY HEALTH CODE.	D) ANY RADIOPHARMACEUTICAL LISTED IN GROUP V OF TABLE SIX (6) SECTION 175.117, ARTICLE 175 OF THE NEW YORK CITY HEALTH CODE.	D) AS NECESSARY FOR USES AUTHORIZED IN SUB-ITEM 9 D
E) XENON 133	E) GAS OR GAS IN SOLUTION (SUPPLIED BY NEW ENGLAND NUCLEAR NDA #17-284; GENERAL ELECTRIC, NDA #17-550; MEDI-PHYSICS, NDA #17-256; MALLINCKRODT, NDA #18-327)	F) 100 MILLICURIES
F) IODINE 131	F) ANY	F) 1 MILLICURIE
G) IODINE 125	G) ANY	G) 10 MILLICURIE
H) IRON 59	H) ANY	H) 500 MICROCURIES
I) COBALT 57	I) ANY	I) 1 MILLICURIE
J) COBALT 60	J) ANY	J) 100 MICROCURIES
K) HYDROGEN 3	K) ANY	K) 10 MILLICURIES
L) CARBON 14	L) ANY	L) 10 MILLICURIES

Date

OCT 4 1982

FOR THE NEW YORK CITY DEPARTMENT OF HEALTH

by

Perry C. Fitzgerald

Assistant to the Director for Radioactive Materials

CITY OF NEW YORK
RADIOACTIVE MATERIALS LICENSE
2649-1

Page 3 of 4

LICENSE NUMBER

CONT.

CONDITIONS

- 10.) THE LICENSEE SHALL COMPLY WITH THE PROVISIONS OF ARTICLE 175 OF THE NEW YORK CITY HEALTH CODE, ENTITLED "RADIATION CONTROL".
- 11) RADIATION MATERIAL SHALL BE USED BY, OR UNDER THE SUPERVISION OF, RICHARD A. ROSEN MARTIN SALWEN, M.D. IS ONLY AUTHORIZED TO USE ALL RADIOACTIVE MATERIALS LISTED IN 6(F) THROUGH 6(L).
- 12) THE LICENSEE IS AUTHORIZED TO HOLD RADIOACTIVE MATERIAL WITH A PHYSICAL HALF-LIFE LESS THAN 65 DAYS FOR DECAY-IN-STORAGE BEFORE DISPOSAL IN ORDINARY TRASH PROVIDED:
- A) EFFECTED RADIOACTIVE WASTE 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.
- 13) A) RADIOACTIVE MATERIAL AUTHORIZED IN THE GROUPS SPECIFIED IN SUBITEMS 6, AND 7 SH BE USE IN ACCORDANCE WITH THE PROVISIONS OF SECTION 175.103(O) (P)(Q)(R) AND ARTICLE 175 OF THE NEW YORK CITY HEALTH CODE AND ALSO IN ACCORDANCE WITH THE INFORMATION CONTAINED IN THE LABEL AFFIXED TO THE PACKAGE OR LEAFLET OR BROCHURE ACCOMPANYING THE PACKAGE.
- B) RADIOPHARMACEUTICALS BEING DISTRIBUTED WITH THE INVESTIGATIONAL USE LABELING UN A "NOTICE OF CLAIMED INVESTIGATIONAL EXEMPTION FOR A NEW DRUG" (IND) NUMBER ASS BY THE FOOD DRUG ADMINISTRATION (FDA) ARE NOT AUTHORIZED IN THE GROUPS SPECIFIED IN SUBITEMS 6 AND 7.
 - C) THE POSSESSION LIMIT, WHEN SPECIFIED IN SUBITEM 8, INCLUDES ALL RADIOACTIVE MATERIAL POSSESSED BY THE LICENSEE UNDER THIS LICENSE WHETHER IN STORAGE, IMPLANTED IN HOSPITALIZED PATIENTS OR OTHERWISE IN USE.
- 14) B) RADIOACTIVE GASES, AS FREE GAS OR IN SOLUTION, TO BE ADMINISTERED TO HUMANS, SH BE PROCURED FROM A SUPPLIER WHO DISTRIBUTES THE PRODUCT INDICATED FOR HUMAN USE IN ACCORDANCE WITH THE FEDERAL FOOD, DRUG AND COSMETIC ACT.
- 15) RADIOACTIVE MATERIAL TO BE ADMINISTERED TO HUMANS SHALL BE PROCURED FROM A SUPP LICENSED BY THE U.S. NUCLEAR REGULATORY COMMISSION OR AN AGREEMENT STATE TO DIS TRIBUTE THE PRODUCT TO GROUP LICENSEE.
- 16) A) TECHNETIUM-99M SEPARATED FROM MOLYBDENUM-99 EITHER BY ELUTION OF A MOLYBDENUM-99 TECHNETIUM-99M GENERATOR OR BY EXTRACTION PROCESS SHALL BE TESTED TO DETECT AND QUANTIFY MOLYBDENUM-99 ACTIVITY PRIOR TO ADMINISTRATION TO PATIENTS.
- B) THE LICENSEE SHALL NOT ADMINISTER TO PATIENTS TECHNETIUM-99M CONTAINING MORE TH ONE (1) MICROCURIE OF MOLYBDENUM-99 PER MILLICURIE OF TECHNETIUM-99M OR MORE TH FIVE (5) MICROCURIES OF MOLYBDENUM-99 PER DOSE OF TECHNETIUM-99M AT TIME OF

FOR THE NEW YORK CITY DEPARTMENT OF HEALTH

Date _____

by _____

Assistant to the Director for Radioactive Materials

CITY OF NEW YORK
RADIOACTIVE MATERIALS LICENSE

Page 4 of 4 p.

CONT..

LICENSE NUMBER - 2649

CONDITIONS

- c) THE LICENSEE SHALL ESTABLISH WRITTEN PROCEDURES FOR PERSONNEL PERFORMING TESTS TO DETECT AND QUANTIFY MOLYBDENUM-99 CONTAMINATION. THESE PROCEDURES SHALL INCLUDE ALL NECESSARY CALCULATIONS AND STEPS TO BE TAKEN IF ACTIVITIES OF MOLYBDENUM-99 IN EXCESS OF THE LIMITS SPECIFIED IN SUBITEM 16(b).
 - d) PERSONNEL PERFORMING TESTS TO DETECT AND QUANTIFY MOLYBDENUM-99 CONTAMINATION SHALL BE GIVEN SPECIFIC TRAINING IN PERFORMING THESE TESTS PRIOR TO CONDUCTING SUCH TESTS.
 - e) THE LICENSEE SHALL MAINTAIN FOR INSPECTION BY THE BUREAU FOR RADIATION CONTROL RECORDS OF THE RESULTS OF EACH TEST PERFORMED TO DETECT AND QUANTIFY MOLYBDENUM CONTAMINATION AND RECORDS OF TRAINING GIVEN TO PERSONNEL PERFORMING THESE TESTS
 - f) RECORDS DESCRIBED IN SUBITEM 16(e) ABOVE SHALL BE MAINTAINED FOR TWO (2) YEARS FOLLOWING THE PERFORMANCE OF THE TESTS AND THE TRAINING OF PERSONNEL.
- 17) PATIENTS CONTAINING MORE THAN 30 MILLICURIES OF IODINE 131 OR GOLD 198 SHALL REMAIN HOSPITALIZED UNTIL THE RESIDUAL ACTIVITY IS LESS THAN 30 MILLICURI
- 18) INDIVIDUALS WHO OPEN AND/OR PREPARE ORAL SOLUTIONS OF IODINE 131 FOR THERAPEUTIC DOSES SHALL PERFORM SURVEYS (E.G. MEASUREMENT OF IODINE 131 IN AIR, MEASUREMENT OF IODINE 131 IN THYROID GLAND OF LABORATORY PERSONNEL AND CONTAMINATION SURVEY OF PERSONNEL, EQUIPMENT AND FACILITIES) TO DETERMINE COMPLIANCE WITH SECTION 175.106 OF THE NEW YORK CITY HEALTH CODE.
- 19) EXCEPT AS SPECIFICALLY PROVIDED OTHERWISE BY THIS LICENSE, THE LICENSEE SHALL POSSESS AND USE RADIOACTIVE MATERIAL DESCRIBED IN SUBITEMS 6, 7, AND 9 OF THIS LICENSE IN ACCORDANCE WITH STATEMENTS, REPRESENTATIONS AND PROCEDURES CONTAINED IN (1) APPLICATION DATED SEPTEMBER 15, 1982
- (2) LETTER DATED SEPTEMBER 21, 1982.

OCT 4 1982

Date _____

FOR THE NEW YORK CITY DEPARTMENT OF HEALTH

by _____

Assistant to the Director for Radioactive Materials

CITY OF NEW YORK
RADIOACTIVE MATERIALS LICENSE

Page 1 of 1 Pages

AMENDMENT NUMBER-2

LICENSE NUMBER-2649-1

Woodhull Medical and Mental Health Center
Department of Radiology/Nuclear Medicine
Department of Pathology/Laboratories
720 Flushing Avenue
Brooklyn, New York 11206

Attn: Richard A. Rosen, M.D.
Martin Salwen, M.D.
Masood Nejatheim, M.D.

In accordance with letter dated December 30, 1983 (and attached American Board of Nuclear Medicine Certificate), from Ephraim S. Himmelstein, Associate Director of Radiology and Nuclear Medicine, License Number 2649 is hereby amended to read as follows:

(I) To add the name of Masood Nejatheim, M.D., as an authorized user and to read as follows:

11. Radioactive material shall be used by, or under the supervision of, Richard A. Rosen, M.D., or Masood Nejatheim, M.D.

Martin Salwen, M.D., is only authorized to use all radioactive materials listed in items 6(F) through 6(L).

(II) To update condition #19 and to read as follows:

19. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material described in Subitems 6, 7 and 9 of this license in accordance with statements, representations procedures contained in

- (1) Application dated September 15, 1982.
- (2) Letters dated September 21, 1982, December 13, 1982 and December 30, 1983 (and attached American Board of Nuclear Medicine Certificate).

JAN 20 1984

Date _____

FOR THE NEW YORK CITY DEPARTMENT OF HEALTH
by Perry A. Letsinger
Perry A. Letsinger, Chief
Radioactive Materials Division

CITY OF NEW YORK
RADIOACTIVE MATERIALS LICENSE

Page 1 of 2 Pages

AMENDMENT NUMBER-3

LICENSE NUMBER-2649-1

Woodhull Medical and
Mental Health Center
Department of Pathology/
Laboratories
720 Flushing Avenue
Brooklyn, New York 11206

Attention: Richard A. Rosen, M.D.
Martin Salwen, M.D.
Masood Nejatheid, M.D.
Letty Lutsker, M.D.

In accordance with letters dated November 29, 1984 and January 30, 1985, from Ephraim S. Himelstein, Associate Director of Radiology and Nuclear Medicine and Certificate of Board Certification in Nuclear Medicine from Letty Lutsker, M.D. received in the Bureau for Radiation Control on November 29, 1984, License Number 2649-1 is hereby amended to read as follows:

(I) To add the following radioactive materials:

6. Radioactive materials	7. Chemical and/or physical form	8. Maximum quantity licensee may possess at any one time
(O) Cesium 137	(O) Sealed Source (3 M Company) (Model #6501)	(O) 10 Millicuries
(P) Americium 241	(P) Sealed Source (Siemens Corp) (Model #035-24400A)	(P) 36 Millicuries (3-Sealed Sources of 12- millicuries each)

20. Radioactive material as sealed sources shall not be opened by the licensee.

21. (A) (1) Each sealed source containing radioactive 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 (6) months. In the absence of a certificate from a transferor indicating that a test has been made within six (6) months prior to the transfer, the sealed source 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.

(3) The periodic leak test required by this condition does not apply to sealed sources that are stored and not being used. The sources excepted from this test shall be tested for leakage prior to any use or transfer to another person unless they have been leak tested within six (6) months prior to the date of use or transfer.

MAR 15 1985

Date _____

FOR THE NEW YORK CITY DEPARTMENT OF HEALTH
by Perry A. Letsinger
Perry A. Letsinger, Chief
Radioactive Materials Division

RC-11(7/80) (COL-6ACH)

CITY OF NEW YORK
RADIOACTIVE MATERIALS LICENSE

Page 2 of 2 Pages

AMENDMENT NUMBER-3

LICENSE NUMBER-2649-1

(B) The test shall be capable of detecting the presence of 0.005 microcurie of removable contamination on the source. 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.

(C) Records of leak results shall be kept in units of microcuries, and maintained for inspection by the Bureau for Radiation Control.

(D) 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 Department Regulations. A report shall be filed within five (5) days of the test with the Radioactive Materials Division, Bureau for Radiation Control, 65 Worth Street, New York, N.Y. 10013, describing the equipment involved, the test results, and the corrective action taken.

(II) To add the name of Letty Lutsker, M.D. as an authorized user and to read as follows:

11. Radioactive material shall be used by, or under the supervision of, Richard A. Rosen, M.D., Masood Nejatheid, M.D. or Letty Lutsker, M.D.

Martin Salwen, M.D. is only authorized to use all radioactive materials listed in items 6(F) through 6(L).

(III) To update condition #19 and to read as follows:

19. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material described in Subitems 6, 7 and 9 of this license in accordance with statements, representations and procedures contained in

(1) Application dated September 15, 1982. (2) Letters dated September 21, 1982, December 13, 1982, December 30, 1983 (and attached American Board of Nuclear Medicine Certificate), November 29, 1984 and January 30, 1985.

(3) American Board of Nuclear Medicine Certificate received in the Bureau for Radiation Control on November 29, 1984.

Date _____

RC-11(7/80)(COL-6ACH)

FOR THE NEW YORK CITY DEPARTMENT OF HEALTH
by Perry A. Letsinger
Perry A. Letsinger, Chief
Radioactive Materials Division

SUPPLEMENT A

SUPPLEMENT		U.S. NUCLEAR REGULATORY COMMISSION		
TRAINING AND EXPERIENCE AUTHORIZED USER OR RADIATION SAFETY OFFICER				
1. NAME OF PROPOSED AUTHORIZED USER OR RADIATION SAFETY OFFICER Jose Katz, M.D., PhD		2. FOR PHYSICIANS, STATE OR TERRITORY WHERE LICENSED Oh, Tx, NJ		
3. CERTIFICATION				
SPECIALTY BOARD A	CATEGORY B	MONTH AND YEAR CERTIFIED C		
Internal Medicine Cardiovascular disease		Sept 1986 Nov 1989		
4. TRAINING RECEIVED IN BASIC RADIOISOTOPE HANDLING TECHNIQUES				
FIELD OF TRAINING A	LOCATION AND DATE(S) OF TRAINING B	TYPE AND LENGTH OF TRAINING		
		CLOCK HOURS IN LECTURE OR LABORATORY	CLOCK HOURS OF SUPERVISED ON-THE-JOB EXPERIENCE	
a. RADIATION PHYSICS AND INSTRUMENTATION	U. of Illinois (63-67; PhD)	450	400	
	Free Univ. of Berlin (77)	60	40	
	Southwestern Med. Sch., Dallas (85)	100	100	
b. RADIATION PROTECTION	U. of Illinois (63-67; PhD)	300	250	
	Free Univ. of Berlin (77)	60	40	
	Southwestern Med. Sch., Dallas (85)	100	100	
c. MATHEMATICS PERTAINING TO THE USE AND MEASUREMENT OF RADIOACTIVITY	U. of Illinois (63-67; PhD)	300	300	
	Free Univ. of Berlin (77)	60	60	
	Southwestern Med. Sch., Dallas (85)	50	50	
d. RADIATION BIOLOGY	Free Univ. of Berlin (77)	50	50	
	Southwestern Med. Sch., Dallas (85)	200	200	
e. RADIOPHARMACEUTICAL CHEMISTRY	Southwestern Med. Sch., Dallas (85-88)	250	250	
5. EXPERIENCE WITH RADIATION. (Actual use of Radioisotopes or Equivalent Experience)				
ISOTOPE	mCi USED AT ONE TIME	LOCATION	CLOCK HOURS	TYPE OF USE
^{99m} Tc	20 mCi	Southwestern Med. Sch., Dallas	650	cardiac studies, research
²⁰¹ Tl	3.5 mCi	Southwestern Med. Sch., Dallas	650	cardiac studies, research
¹¹¹ In	2 mCi	Southwestern Med. Sch., Dallas	200	cardiac studies, research
¹²³ I	2.5 mCi	Southwestern Med. Sch., Dallas	200	cardiac studies, research