



MEMORIAL MEDICAL CENTER, INC.

1615 Maple Lane

Ashland, Wisconsin 54806

(715) 682-4563

November 25, 1985

United States Nuclear Regulatory Commission
Material Licensing Section
Region III
799 Roosevelt Road
Glen Ellyn, IL 60137

Gentlemen:

This letter is submitted as a request to renew our Radioactive By-Product Material License 48-16593-01 which will expire on February 28, 1986.

Several minor changes appear in the license. They are as follows:

- (1) Revised membership of the Radiation Safety Committee
- (2) Revised list of all authorized personnel to inject radio-pharmaceuticals
- (3) Revised floor plan indicating new department lounge area where the waiting room was
- (4) Deletion of Dr. John Peterson, radiologist, from the license

Enclosed are copies of these revisions and a remittance of \$580.00 for the five year renewal fee.

Thank you.

Sincerely,

Marjorie Kacvinsky
Radiology Director

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U.S. NUCLEAR
REGULATORY
COMMISSION

RECEIVED

DEC 23 1985

REGION III

8610020203 860722
REG3 LIC30
48-16593-01 PDR

| | |
|---------------|--------------|
| Applicant | Jan 4 1985 |
| Check No. | 051819 \$580 |
| Amount of Fee | |
| Term | 1 year |
| Expiry Date | 2/28/86 |
| Comments | |
| Initials | JK |
| Date | 11/25/85 |
| Signature | |

CONTROL NO. 80392

DEC 23 1985

Item 7: Radiation Safety Committee

A. Members

1. M.J. Fischer, M.D. - Chief Radiologist
2. R.G. Lind, M.D. - Radiologist
3. Steven Bechtold, M.D. - Chief Pathologist
4. Marjorie Kacvinsky - Radiology Director
5. Lowell Miller - Hospital Administrator
6. Robert Wadzinski - Chief Nuclear Medicine Technologist
7. Barb Peikert - Director of Nursing
8. Tom Stipetich - Laboratory Technologist

B. Radiation Safety Committee, Medical Isotope Committee and Diagnostic Services Committee are all one and the same.

Preparation, Purification, and Storage of Radiopharmaceuticals

1. Preparation

^{99}Mo Generator is eluted. Moly contamination is assayed and recorded. ^{99}Tc elution is assayed. Activity per volume is recorded. Reagent kits are prepared according to package inserts of manufacturer. Radiopharmaceuticals are stored in lead containers affixed with appropriate radiation labels. Labels shall be written clearly and legibly with the following information:

1. radionuclide
2. initial activity per volume
3. date of assay

$^{99\text{m}}\text{Tc}$ radiopharmaceutical concentrations are recorded on generator elution form (#795). Patient doses are also logged in.

II. Administration

The following physicians and technologists are authorized to administer radioactive materials to patients:

List of current names is kept in files in Radiology Director's office.

1. The following sites are designated as permanent storage areas for radionuclides in quantities greater than tracer amounts or for prolonged periods of time.

- a. Department of Radiology hot lab area
- b. Decay locker located external to building
- c. Such additional sites as approved.

2. All storage areas shall satisfy the following requirements:

- a. They must have sufficient shielding to reduce external radiation to permissible levels.
- b. They shall be adequately posted with appropriate signs according to the levels of activity present in the area.

3. Radionuclides will not be stored in areas other than the already designated permanent or temporary storage areas, except for transitory storage just prior to actual use.

4. Containers of radioactive material which give a radiation intensity level greater than five mr/hr at three inches distance, should have a "Danger" sign posted.



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The following physicians and technologists are authorized to administer radioactive materials to patients:

Dr. Markham Fischer M.D.

Dr. Robert Lind M.D.

Robert Wadzinski RT, CNMT

Marjorie Kacvinsky RT, CNMT

Nancy Pufall, RT

Diane Hyvonen, RT

Dick Gray, RT

Liz Glass, RT

Julie Hoffmann, RT

Xray Exposure Room (Diagnostic)

Formic counter top - covered with absorbent paper

Lead shielded (contained)

cabinets overhead

Dose Calibrator Tc^{99m} Generator

Xray Supply Room

Remote vial & syringe holders

Hot Lab 5' x 3½'

Syringe & vial shields

Mobile Lead shielded Waste Container

Doors Locked.
Radiation Hazard Signs Posted.
"Caution: Radiation Area & Material"

Memorial Medical Center
Ashland, Wisconsin

Change of location of
Nuclear Medicine Scanning
Room.

Storage Area

Floors are waxed tile-
Ceramic tile wainscoating
Vinyl Above.

Doors Closed - Low Traffic Corridor

Department Employee Lounge

12' x 11'

Low Use
Janitorial

CONTROL NO. 80392

Radiologist Office

Staff bathroom

1cm = 1 foot

DELETE

FORM NRC-313M-SUPPLEMENT A

U. S. NUCLEAR REGULATORY COMMISSION

TRAINING AND EXPERIENCE
AUTHORIZED USER OR RADIATION SAFETY OFFICER

1. NAME OF AUTHORIZED USER OR RADIATION SAFETY OFFICER

John O. H. Peterson MD

2 STATE OR TERRITORY IN
WHICH LICENSED TO
PRACTICE MEDICINE
Wix, Mich, Minn

SPECIALTY BOARD

A

3. CERTIFICATION

CATEGORY
B

MONTH AND YEAR CERTIFIED
C

American Board
of Radiology

Diagnostic Radiology

June 1975

4. TRAINING RECEIVED IN BASIC RADIONUCLIDE HANDLING TECHNIQUES

| FIELD OF TRAINING A | LOCATION AND DATE(S) OF TRAINING B | TYPE AND LENGTH OF TRAINING | |
|--|--|---|--|
| | | LECTURE/ LABORATORY COURSES Hours C | SUPERVISED LABORATORY EXPERIENCE Hours D |
| a. RADIATION PHYSICS AND INSTRUMENTATION | University of Minnesota Hospitals and Minneapolis | 150 | 100 |
| b. RADIATION PROTECTION | Veterans Administration Hospital (Diagnostic Radiology) | 30 | 30 |
| c. MATHEMATICS PERTAINING TO, THE USE AND MEASUREMENT OF RADACTIVITY | Residency - July 1, 1972 - June 30, 1975) | 30 | 30 |
| d. RADIATION BIOLOGY | Merle Loken MD, Chief Dept of Nuclear Medicine | 25 | 20 |
| e. RADIONUCLIDE CHEMISTRY | Thomas Payne, PhD Radiation Physicist | 50 | 30 |

5. EXPERIENCE WITH RADIATION. (Actual Use of Radiisotope or Equivalent Experience)

| ISOTOPE | MAXIMUM AMOUNT | WHERE EXPERIENCE WAS GAINED | CURATION OF EXPERIENCE | TYPE OF USE |
|---------|-------------------|---|------------------------|----------------------|
| Tc-99m | 200 mc / week. | Memorial Medical Center Arlington, Wisconsin | 1500 hrs (2 yrs) | Medical Diagnosis |

U.S. NUCLEAR REGULATORY COMMISSION
APPLICATION FOR MATERIALS LICENSE - MEDICALApproved by OMB
3150-0041

INSTRUCTIONS - Complete Items 1 through 26 if this is an initial application or an application for renewal of a license. Use supplemental sheets where necessary. Item 26 must be completed on all applications and signed. Retain one copy. Submit original and one copy of entire application to: Director, Office of Nuclear Materials Safety and Safeguards, U.S. Nuclear Regulatory Commission, Washington, D.C. 20555. Upon approval of this application, the applicant will receive a Materials License. An NRC Materials License is issued in accordance with the general requirements contained in Title 10, Code of Federal Regulations, Part 30, and the Licensee is subject to Title 10, Code of Federal Regulations, Parts 19, 20 and 35 and the license fee provision of Title 10, Code of Federal Regulations, Part 170. The license fee category should be stated in Item 26 and the appropriate fee enclosed.

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|--|---|
| 1.a. NAME AND MAILING ADDRESS OF APPLICANT (institution, firm, clinic, physician, etc.) INCLUDE ZIP CODE Nuclear Medicine Department Memorial Medical Center 1615 Maple Lane Ashland, Wisconsin 54806 ext. 715 682-4563 251 TELEPHONE NO.: AREA CODE (715) 682-4563 151 | 1.b. STREET ADDRESS(ES) AT WHICH RADIOACTIVE MATERIAL WILL BE USED (If different from 1.a.) INCLUDE ZIP CODE |
| 2. PERSON TO CONTACT REGARDING THIS APPLICATION M.J. Fischer, M.D. ext. TELEPHONE NO.: AREA CODE (715) 682-4563 151 | 3. THIS IS AN APPLICATION FOR: (Check appropriate item) a. <input type="checkbox"/> NEW LICENSE b. <input type="checkbox"/> AMENDMENT TO LICENSE NO. 48-16593-01 c. <input checked="" type="checkbox"/> RENEWAL OF LICENSE NO. 48-16593-01 |
| 4. INDIVIDUAL USERS (Name individuals who will use or directly supervise use of radioactive material. Complete Supplements A and B for each individual.) M.J. Fischer, M.D. Robert G. Lind, M.D. | 5. RADIATION SAFETY OFFICER (RSO) (Name of person designated as radiation safety officer. If other than individual user, complete resume of training and experience as in Supplement A.) M.J. Fischer, M.D. |

6.a. RADIOACTIVE MATERIAL FOR MEDICAL USE

| RADIOACTIVE MATERIAL LISTED IN: | ITEMS DESIRED "X" | MAXIMUM POSSESSION LIMITS (In millicuries) | ADDITIONAL ITEMS: | MARK ITEMS DESIRED "X" | MAXIMUM POSSESSION LIMITS (In millicuries) |
|--------------------------------------|----------------------|---|---|---------------------------|---|
| 10 CFR 31.11 FOR IN VITRO STUDIES | | | IODINE-131 AS IODIDE FOR TREATMENT OF HYPERTHYROIDISM | | |
| 10 CFR 35.100, SCHEDULE A, GROUP I | X | AS NEEDED | PHOSPHORUS-32 AS SOLUBLE PHOSPHATE FOR TREATMENT OF POLYCYTHEMIA VERA, LEUKEMIA AND BONE METASTASES | | |
| 10 CFR 35.100, SCHEDULE A, GROUP II | X | AS NEEDED | PHOSPHORUS-32 AS COLLOIDAL CHROMIC PHOSPHATE FOR INTRACAVITARY TREATMENT OF MALIGNANT EFFUSIONS. | | |
| 10 CFR 35.100, SCHEDULE A, GROUP III | X | 200 mCi | GOLD-198 AS COLLOID FOR INTRACAVITARY TREATMENT OF MALIGNANT EFFUSIONS. | | |
| 10 CFR 35.100, SCHEDULE A, GROUP IV | | AS NEEDED | IODINE-131 AS IODIDE FOR TREATMENT OF THYROID CARCINOMA | | |
| 10 CFR 35.100, SCHEDULE A, GROUP V | | AS NEEDED | XENON-133 AS GAS OR GAS IN SALINE FOR BLOOD FLOW STUDIES AND PULMONARY FUNCTION STUDIES. | | |
| 10 CFR 35.100, SCHEDULE A, GROUP VI | | | | | |

6.b. RADIOACTIVE MATERIAL FOR USES NOT LISTED IN ITEM 6.a. (Sealed sources up to 3 mCi used for calibration and reference standards are authorized under Section 35.14(d), 10 CFR Part 35, and NEED NOT BE LISTED.)

| ELEMENT AND MASS NUMBER | CHEMICAL AND/OR PHYSICAL FORM | MAXIMUM NUMBER OF MILLCURIES OF EACH FORM | DESCRIBE PURPOSE OF USE |
|-------------------------|-------------------------------|---|-------------------------|
| | | | |