



**METROPOLITAN HOSPITAL
Central Division**

201 North Eighth Street
Philadelphia, Pennsylvania 19106
(215) 238-2405

Robert V. Giardinelli
Executive Director

January 24, 1985

Materials Licensing Branch
U.S. Nuclear Regulatory Commission
631 Park Avenue - Region I
King of Prussia, PA 19406

License: 37-04871-01
Program Code: 02120
Exp. Date: 2-28-85

To Whom This May Concern:

Please accept this letter as our indication and desire to renew
License: 37-04871-01 due to expire on 2-28-85.

We have reviewed our current license and are satisfied that except
for the exceptions cited below, all of the information represents our
current program. We, therefore, wish to continue to operate under our
current license which has been previously documented 2-26-79, 1-16-80,
and 3-1-82.

Please note exceptions:

RECEIVED BY LFMB	
Date	2/5/85
Leg	Reg 2
By	Brown
Orig. To	
Action Comp	2/7/85

1. We wish to increase our maximum possession limits of
Iodine-131 as iodide for treatment of thyroid carcinoma
from 150 mCi to 200 mCi.

2. We wish to change the composition of the Medical Isotope
Committee.

The following previous members will no longer serve -
they are:

Norton Levin, D.O. - Pathologist
Sidney Kahn - Assistant Hospital Administrator

The following members have been added:

N. Susan Yaron, M.D. - Pathologist
John Hamilton - Associate Executive Director of Plant.

"OFFICIAL RECORD COPY"

03376

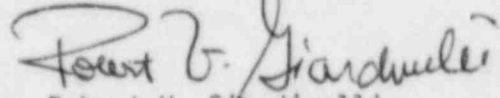
8505300460 850515
REG1 LIC30
37-04871-01 PDR

3. Appendix D is modified and resubmitted to identify new consultant for calibration of survey instruments and calibration of dose calibrator in keeping with letter of 1-16-80.
4. Please amend item 24 - Personnel Monitoring Devices - NRC-313M - to identify exchange frequency of both whole body and finger badges to one month rather than "every two weeks."

Enclosed also find check for \$580.00 to satisfy our renewal fee.

Philip Shtasel, D.O., can be contacted at (215) 238-2200 if there are any additional data required for this renewal.

Very truly yours,



Robert V. Giardinelli
Executive Director

Encs: Check
New Appendix D in duplicate
C.V. - pathologist

RECEIVED
FEB -4 P1 34
NRC

CALIBRATION OF SURVEY INSTRUMENTS

Check appropriate items.

- X 1 Survey instruments will be calibrated at least annually and following repair.
- X 2 Calibration will be performed at two points on each scale used for radiation protection purposes, i.e., at least up to 1 R/hr.

The two points will be approximately 1/3 and 2/3 of full scale. A survey instrument may be considered properly calibrated when the instrument readings are within ± 10 percent of the calculated or known values for each point checked. Readings within ± 20 percent are considered acceptable if a calibration chart, graph, or response factor is prepared, attached to the instrument, and used to interpret readings to within ± 10 percent. Also, when higher scales are not checked or calibrated, an appropriate precautionary note will be posted on the instrument.

3. Survey instruments will be calibrated

- a By the manufacturer
- b At the licensee's facility

(1) Calibration source

Manufacturer's name _____

Model no. _____

Activity in millicuries _____

or

Exposure rate at a specified distance _____

Accuracy _____

Traceability to primary standard _____

- (2) The calibration procedures in Section I of Appendix D will be used
- or
- (3) The step-by-step procedures, including radiation safety procedures, are attached.

 X c By a consultant or outside firm

- (1) Name Radiation Management Corporation
- (2) Location 3508 Market Street, Philadelphia, PA 19104
- (3) Procedures and sources

 X have been approved by NRC and are on file in License No. 37-13129-01

 have been approved by an Agreement State; a copy of the Agreement State license, the procedures, and a description of the sources are attached, and the consultant's report will contain the information on

 the attached "Certificate of Instrument Calibration."

 the consultant's reporting form as attached.

 are described in the attachment, and the consultant's report will contain the information on

 the attached "Certificate of Instrument Calibration."

 the consultant's reporting form as attached.

CALIBRATION OF DOSE CALIBRATOR

A Sources Used for Linearity Test

(Check as appropriate)

_____ First elution from new Mo-99/Tc-99m generator

or

_____ Other* (specify) _____

B Sources Used for Instrument Accuracy and Constancy Tests

Radionuclide	Suggested Activity (mCi)	Activity (mCi)	Accuracy
Co-57	3-5	5.0	+ 4.3%
Ba-133	0.1-0.5	.259	+ 5%
Cs-137	0.1-0.2	.190	+ 4.3%
Ra-226	1-2	_____	_____
_____	_____	_____	_____

C ☒ The procedures described in Section 2 of Appendix D will be used for calibration of the dose calibrator

or

_____ Equivalent procedures are attached

*For licensees who are not authorized for Mo-99/Tc-99m generators, activity must be equivalent to the highest activity used.

CURRICULUM VITAE OF

N. SUSAN YARON, M. D.

139 Golf Club Drive
Langhorne, Pa. 19047
(215) 750-1873 (H)

EDUCATION:

Graduated from Escuela Superior de Comercio -
University of Rosario, Argentina 1965

M. D. Degree given by Universidad Nacional de
Rosario, Argentina 1966 - 1972
Graduated With Honors
Graduated #1 in class out of 500 students

Certificates received upon completion of courses in
Male Sterility, given by Universidad Nacional de
Rosario and Latin American Association for the
Investigation of Human Reproduction, Argentina 1972

Certificate received upon completion of course in
Pathology of Neoplastic Skin Diseases, given by
New York University, New York, New York 1980

Workshops and Seminars in Immunoperoxidase
Techniques, Gynecologic Pathology, and Breast
Pathology, given by American Society of Clinical
Pathology, Las Vegas, Nevada 1981

Workshops in Cytopathology given by Delaware Valley
Society of Cytology, Phila., Pa. 1982

Certificate received upon completion of course in
Quality Control in the Laboratory, given by
American Society of Clinical Pathologists,
New York, New York 1983

Course in Computers in the Laboratory given by
Temple University Hospital, Phila., Pa. 1983

LICENSES:

Licensed to Practice Medicine by The Commonwealth
of Pennsylvania, Harrisburg, Pa. 1980

Board Eligibility for Anatomical and Clinical
Pathology 1983

POST-GRADUATE
TRAINING:

6/83 - 5/84 TEMPLE UNIVERSITY HOSPITAL PATHOLOGY FELLOW
 PHILA., PA.

This is a major teaching hospital with over 500 beds.
Appointed as a Pathology Fellow. Responsible for
diagnosis of surgical pathology specimens. In addition,

supervise Residents in Surgical Pathology. Organize and implement a minimum of three weekly teaching conferences with all residents and staff members. Responsible for designing, building and maintaining an on-going teaching file of slides and Kodachromes. Hold laboratory teaching sessions for second year medical students in Temple University School of Medicine.

6/82 - 6/83

TEMPLE UNIVERSITY HOSPITAL
PHILA., PA.

CHIEF RESIDENT
IN PATHOLOGY

Duties included organizing the schedule of rotations for all pathology residents. Did clinical pathology rotations in Hematology, Blood Banking, Coagulation, Microbiology, Immunology and Immunoperoxidase Techniques.

1980 - 6/83

TEMPLE UNIVERSITY HOSPITAL
PHILA., PA.

RESIDENT IN
PATHOLOGY

Duties included autopsy and surgical pathology. Also, did elective rotations in cytopathology, pediatric pathology, neuropathology, electron microscopy and clinical chemistry.

1979 - 1980

ALBERT EINSTEIN MEDICAL CENTER
NORTHERN DIVISION
PHILA., PA.

FIRST-YEAR
RESIDENT IN
PATHOLOGY

This is a major teaching hospital affiliated with Temple University. Responsible for autopsy and surgical pathology.

1972 - 1974

HOSPITAL ESCUELA
GRANADERO BAIGORRIA
ROSARIO, ARGENTINA

INTERNSHIP IN
INTERNAL
MEDICINE

This is a teaching hospital.

STAFF
APPOINTMENTS:

1984 - Present

METROPOLITAN HOSPITAL,
CENTRAL DIVISION,
PHILA., PA.

STAFF
PATHOLOGIST

FACULTY

APPOINTMENTS:

- 1983 - Present TEMPLE UNIVERSITY CLINICAL
MEDICAL SCHOOL INSTRUCTOR
PHILA., PA.
- Teach Laboratory Pathology to second year medical students.
- 1972 - 1978 UNIVERSIDAD NACIONAL ASSISTANT
DE ROSARIO PROFESSOR
ROSARIO, ARGENTINA
- Taught Anatomy to first year medical students.
- 1967 - 1972 UNIVERSIDAD NACIONAL INSTRUCTOR
DE ROSARIO
ROSARIO, ARGENTINA
- Taught Anatomy to first year medical students.

MEMBERSHIPS:

- 1981 - Present American Society of Clinical Pathologists,
Junior Member
- 1983 - Present College of American Pathologists
- 1984 - Present American Medical Association
- 1984 - Present Delaware Valley Society of Cytology

PAPERS AND
PRESENTATIONS:

Yunis, N.S., Petersen, R.O. and Rathouser, F.:
"Bilateral Testicular Biopsies in the Study of
Cryptorchidism" - Presented before the Robert E.
Gross Annual Lectureship, Houston, Texas in
February, 1982 and accepted for publication by
the University of Texas, Department of Pediatric
Surgery and Continuing Education, and the
Foundation for Children.

- LANGUAGES: Read, speak and write Spanish, Hebrew, French
and English fluently.

X

BETWEEN: William O. Miller, Chief
License Fee Management Branch
Office of Administration

John E. Glenn, Chief
Nuclear Materials Section B
Division of Engineering and
Technical Programs

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED

Applicant/Licensee: Metropolitan Hospital

Application Dated: 1/24/85

Control No.: 03376

License No.: 37-04871-01

2. FEE ATTACHED

Amount: \$ 580.00

Check No.: 2037

3. COMMENTS

Signed Brenda Platchek

Date 1/29/85

B. LICENSE FEE MANAGEMENT BRANCH

1. Fee Category and Amount: 7C \$580

2. Correct Fee Paid. Application may be processed for:

Amendment

Renewal ✓

License

Signed Francis Brown ms

Date 2/5/85

108 2/7/85

W

"SECTION COPY"

METROPOLITAN HOSPITAL

201 N. 8th St.
PHILADELPHIA, PA. 19106

VO 2037

3-76
310

	DATE	CHECK NO.	GROSS	DISC.	PROT.	AMT.	AMOUNT OF CHECK
PAY	1/22/85	2037	580.00			580.00	580.00

TO THE
ORDER OF

U. S. Nuclear Regulatory Commission
631 Park Ave- Region 1
King of Prussia, Pa. 19406

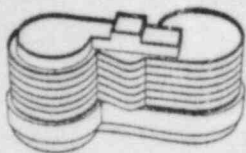
METROPOLITAN HOSPITAL

INDUSTRIAL VALLEY BANK AND TRUST COMPANY

⑈0002037⑈ ⑆031000765⑆

850 373 2⑈

VC-185-SPEC.



METROPOLITAN HOSPITAL 201 North Eighth Street, Philadelphia, Pa. 19106, (215) 238-2200
Department of Radiology

Robert R. Rosenbaum, D.O.
Philip Shtasel, D.O.
Lewis Halin, D.O.
Richard Kiszonas, D.O.
Paul Wallner, D.O.
David Schatanoff, M.D.

Item #12 - PERSONNEL TRAINING PROGRAM

The individuals who work with or in the vicinity of radioactive materials can be divided into two general categories - professional and non-professional.

The professional group can be defined as those who are specifically trained and possess competence in the field of nuclear medicine. This group consists of physicians and radioisotope technologists. The physician complement has been identified in supplements A and B. In addition, residents in radiology are rotated through the nuclear medicine section. They are under the direct supervision of the attending physician. They are required to attain proficiency in nuclear physics,

(continued)
Item #12 1/16/80

"OFFICIAL RECORD COPY" ML10

Item #12 - PERSONNEL TRAINING PROGRAM (page 2)

radiobiology, radiation protection, instrumentation, mathematics pertinent to radioactivity, and radiopharmaceutical chemistry. This is obtained by formal course work in classes established for residents in radiology and in the daily supervised activities within the department.

The technicians working in the section are all trained in the above subjects. Two of the three are registered. The third, while not registered, has been working exclusively in nuclear medicine for the past 19 years and is under the direct supervision of both the Chief Technologist and attending physicians.

All new procedures and regulations are discussed and reviewed by either the Chief Technologist or attending physician. Although, not mandatory, each technologist belongs to the local Society and is encouraged to attend scheduled meetings. Funds and time are provided for each to attend one appropriate national meeting yearly.

Both the residents and technologist group are made familiar with the particular items specified in 10 CFR 19.12. They are

Item #12 - PERSONNEL TRAINING PROGRAM (page 3)

informed as to the arrangement of the department and its procedures. The storage areas both for radiopharmaceuticals and waste materials are identified. The mechanics of handling and transfer of radioactive materials are monitored by a supervisor until the new person is both familiar, comfortable, and competent in their use.

The hazards of exposure are constantly stressed and monitored. It is clearly established that all of the safety regulations aimed at exposure protection will be observed and any accident or inadvertent break from these procedures and protocol will be immediately reported to a supervisor. Radiation protection devices are identified and explained. Any evidence of abnormal conditions revealed by these instruments are to be reported immediately. Additionally, all personnel are made aware that exposure records are being kept and are available for review at any time.

These programs are ongoing. Refresher orientation, particularly of ancillary hospital personnel, is performed yearly, but also at the time of any individual situation that requires this attention - as discussed below.

(continued)
Item #12 1/16/80

Item #12 - PERSONNEL TRAINING PROGRAM (Page 4)

The non-professional personnel is defined as anyone not specifically trained in nuclear medicine and whose job description precludes regular contact with radioactive materials. This group consists of those who may occasionally be in the vicinity or have direct contact with patients with high doses of radioactivity such as nurses or house keeping personnel or those who may occasionally or inadvertently be in the vicinity of materials such as security or house keeping personnel.

The former group - ie - nurses on all hospital shifts - receive a formal lecture each year by both a member of the nuclear medicine and radiotherapy sections. The entire gamut of therapeutic nuclear medicine is discussed. The nuclear facilities are visited and the location and storage areas identified. The potential hazards and safety measures appropriate to their activities are reviewed. The extent of potential patient involvement consistent with the scope of permissible licensure is identified as are the regulations of handling, dis-

(continued)
Item #12 1/16/80

Item #12 - PERSONNEL TRAINING PROGRAM (Page 5)

posal of wastes, contaminated linens, utensils, telephones, visitation privileges, etc. The nature of an emergency is explained as well as the appropriate measures to institute and the names of the individuals to notify provided. In addition, whenever radionuclear therapy is contemplated and the specific patient room identified the nursing and house keeping personnel servicing that area are again individually instructed by the attending physician. The appropriate information is given to all three nursing and house keeping shifts. Appropriate printed instructions are appended to all patient charts and appropriate signs indicating restricted patient areas are utilized. These materials are also to be found in the nurses manual of procedure. (these materials are in conformity with Appendix K)

The latter group, the security personnel who may receive radiopharmaceutical delivery on occasion are individually instructed as to procedures of package handling and the necessary steps in case of apparent package damage. They are also instructed as to security in the nuclear medicine section and the appropriate personnel to notify in case of question.