

Applicant.....	111438
Check No. ....	111438
Amount Due \$.....	\$120
Term ..... 12 months	
Date Check Rec'd .....	8/23/84
Received By .....	[Signature]



HOSPITAL

1026 A AVENUE N.E.  
CEDAR RAPIDS, IOWA 52402  
(319) 369-7211

August 3, 1984

RECEIVED

RECEIVED BY LFMB	
Date.....	8/29/84
Log.....	ay 18th
By.....	[Signature]
Orig. To.....	R/T
Action Compl.....	[Signature]

U. S. Nuclear Regulatory Commission  
Radioisotopes Licensing Section  
Region III  
799 Roosevelt Road  
Glen Ellyn, Illinois 60137

RE: Amendment to Radioactive Materials License #14-09883-01

Gentlemen:

We request amendment to our Radioactive Materials License #14-09883-01 to reflect the following changes:

1. We request exemption to applicable portions of NRC Regulatory Guide 10.8, Appendices K and L ("Radiation Safety Procedures for Therapeutic Use of Radiopharmaceuticals" and "Radiation Safety Procedures for Therapeutic Use of Sealed Sources") concerning film badge services for nursing personnel attending therapy patients at our facility. We wish to discontinue film badging service because of the infrequent (two per year) use of Cesium materials. Our latest film badge results indicate these employees have received "minimal" readings for at least the past calendar quarter. A copy of this exposure report is enclosed for your review.  
  
We will retain four (4) generic film badges which could be dedicated to individuals, should additional patients be treated at St. Luke Methodist Hospital.
2. We request the addition of Richard L. Kundel, M.D. as a licensed physician user to our license. Please indicate Dr. Kundel as authorized for Groups I, II, III, IV, V, and Xenon-133 procedures. Training and experience documentation for Dr. Kundel may be obtained by referencing the NRC license of Muscatine General Hospital, Muscatine, Iowa (#14-16508-01) and the enclosed supplemental information.

We trust the information contained herein is sufficient to grant our request for amendment to our license and look forward to receipt of that document. We have enclosed our check in the amount of \$120 to cover the amendment processing fees.

Sincerely,

8507120211 841123  
REG3 LIC30  
14-09883-01 PDR

*Samuel T. Wallace*  
Samuel T. Wallace  
President

:krf

Enclosures

Control No. 77316

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AUG 17 1984  
REGION 17 1984

# The University of Iowa

Iowa City, Iowa 52242

University of Iowa Hospitals and Clinics  
Department of Radiology

(319) 356-2575

If no answer, 356-1616



TO WHOM IT MAY CONCERN:

This is to certify that Dr. Richard L. Kundel trained as a resident in Diagnostic Radiology at the University of Iowa from July 1, 1976, through June 30, 1980.

During this period of training, Dr. Kundel received special instruction in Radiation and Nuclear Physics, Radiation Biology, Radiopharmacy and Instrumentation in Nuclear Medicine. In addition to the routine rotation through Diagnostic Radiology, he had five months of training in clinical Nuclear Medicine which includes radionuclide diagnostic imaging and in-vivo procedures as well as radionuclide therapy.

Enclosed is a list of the radionuclide diagnostic and therapeutic procedures in which Dr. Kundel was involved as a resident in Diagnostic Radiology.

Sincerely,

Mary E. H. Kathol, M.D.  
Acting Director  
Division of Nuclear Radiology  
University of Iowa Hospitals  
and Clinics  
Iowa City, Iowa 52242

Encl.

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AUG 17 1984

REGION III

Control No. 7 7 3 16

NUCLEAR MEDICINE PROCEDURES (Total No. performed during months of Nov. '77,  
Jan. '79, Feb. '79, August '79, June 1980)

Endocrine and Metabolic

Thyroid in Vivo

$^{131}\text{I}$  Uptake - 13.  
 $^{131}\text{I}$  Neck and mediastinum scan, plus uptake - 38.  
 $^{131}\text{I}$  Thyroid neck scan - 1  
 $^{99\text{m}}\text{TcO}_4$  Neck and mediastinum scan - 148  
 $^{131}\text{I}$  Whole body scan - 12

Hematopoietic

Volumes

$^{51}\text{Cr}$  Red cell mass, chromate - 2  
 $^{125}\text{I}$  Blood volume, riss and chromate - 5

Erythrokinetics

$^{51}\text{Cr}$  Red cell survival - 2

Absorption and Excretion Tests

$^{57}\text{Co}$  Schillings Vitamin B-12 - 21  
 $^{57}\text{Co}$  Schillings Vitamin B-12, with IF - 3

External Counting or Scanning

$^{99\text{m}}\text{Tc}$  S-C Bone marrow scan - 1  
 $^{67}\text{Ga}$  Gallium whole body scan - 34

Genitourinary

$^{131}\text{I}$  Renal function, Hippuptope (Renogram) - 0  
 $^{99\text{m}}\text{Tc}$  DTPA Renal - 52

Central Nervous System

$^{99\text{m}}\text{TcO}_4$  Brain Scan (or  $^{99\text{m}}\text{Tc}$ -DTPA)

Dynamic - 0  
Dynamic and routine - 315

Yb-169 DTPA Cisternography (CSF scan) - 7



NUCLEAR MEDICINE PROCEDURES (Cont'd)

Gastrointestinal

Scanning

$^{99m}\text{TcO}_4$  Meckel's scan - 9  
 $^{99m}\text{Tc}$ -DTPA or  $^{99m}\text{Tc}$ -SC Gastric emptying study - 0  
 $^{99m}\text{TcO}_4$  Parotid scan - 6  
 $^{99m}\text{Tc}$ -S-C liver spleen scan - 401  
 $^{131}\text{I}$  Rose Bengal liver scan - 0  
 $^{99m}\text{Tc}$ -PIPIDA biliary scan - 19  
 $^{99m}\text{Tc}$ -S-C +  $^{99m}\text{Tc}$ -MAA liver/spleen/lung scan - 5

Cardiovascular

Tl-201 thallous chloride Thallium myocardial perfusion - 160  
 $^{99m}\text{Tc}$ -MAA Isotope venogram - 3  
 $^{99m}\text{Tc}$ -RBC Isotope Ventriculogram - 484  
 $^{99m}\text{Tc}$ -PYP Pyrophosphate infarct imaging - 52

Pulmonary

$^{99m}\text{Tc}$  MAA Perfusion scan - 86  
 $^{99m}\text{Tc}$ -MAA +  $^{133}\text{Xe}$  gas Perfusion ventilation scan - 60

Osseous

$^{99m}\text{Tc}$  MDP Bone scan - 415

Miscellaneous

$^{99m}\text{TcO}_4$  Lacrimal duct - 0

Therapeutic Procedures

$^{131}\text{I}$  Thyroid Radioiodine Therapy (see attached report)

Hyperthyroidism, initial - 30  
Hyperthyroidism, repeat - 3  
Thyroid carcinoma, initial - 2  
Thyroid carcinoma, repeat - 2

Au 198 gold seeds - 1