

MATERIALS LICENSE

Amendment No. 30

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

301809

Licensee

In accordance with letter dated
August 26, 19963. License Number 13-16457-01 is amended in
its entirety to read as follows:

4. Expiration Date April 30, 2005

5. Docket or
Reference No. 030-110726. Byproduct, Source, and/or
Special Nuclear Material7. Chemical and/or Physical
Form8. Maximum Amount that Licensee
May Possess at Any One Time
Under This LicenseA. Any byproduct
material identified
in 10 CFR 35.100A. Any radiopharmaceutical
identified in 10 CFR
35.100

A. As needed

B. Any byproduct
material identified
in 10 CFR 35.200B. Any radiopharmaceutical
identified in 10 CFR
35.200

B. As needed

C. Any byproduct material
identified in 10 CFR
35.300C. Any radiopharmaceutical
identified in 10 CFR
35.300C. As needed
(not to exceed
1 curie of I-131)D. Any byproduct material
identified in 10 CFR
35.400D. Any brachytherapy source
identified in 10 CFR
35.400

D. 3 Curies

E. Any byproduct material
identified in 10 CFR
35.500E. Sealed sources identified E. As needed
in 10 CFR 35.500

9. Authorized Use:

A. Medical use described in 10 CFR 35.100.

B. Medical use described in 10 CFR 35.200.

C. Medical use described in 10 CFR 35.300.

D. Medical use described in 10 CFR 35.400.

E. For storage only.

060047

9611060141 961024
PDR ADOCK 03011072
C PDR

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SD

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number

13-16457-01

Docket or Reference Number

030-11072

Amendment No. 30

CONDITIONS

10. Licensed material shall be used only at the licensee's facilities located at 1606 N. 7th Street, Terre Haute, Indiana.
11. Radiation Safety Officer: Dean A. Taylor
12. Licensed material listed in Item 6 above is only authorized for use by, or under the supervision of, the following individuals for the materials and uses indicated:

Authorized Users

Material and Use

- | | |
|-----------------------------------|--|
| A. Michael R. Konowitz, M.D. | 10 CFR 35.100 and 35.300. |
| B. John Lambertus, M.D. | 10 CFR 35.100 and 35.300. |
| C. George H. Kinnebrew, Jr., M.D. | 10 CFR 35.100 and 35.300 (excluding iodine-131 for thyroid carcinoma). |
| D. Robert Haerr, M.D. | 10 CFR 35.300 and 35.400. |
| E. Newell Pugh, M.D. | 10 CFR 35.300 and 35.400. |
| F. Gerald J. Longa, M.D. | 10 CFR 35.100 and 35.200. |
| G. M. Bashar Kashlan, M.D. | 10 CFR 35.100 and 35.200. |
| H. James B. Kho, M.D. | 10 CFR 35.100 and 35.200. |
| I. Scott L. Ackley, M.D. | 10 CFR 35.300 and 35.400. |
| J. Killol J. Thakore, M.D. | 10 CFR 35.300. |
| K. Ann T. Wendecker, D.O. | 10 CFR 35.300. |
13. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
 14. In addition to the possession limits in Condition 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d) for establishing decommissioning financial assurance.

COPY

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number

13-16457-01

Docket or Reference Number

030-11072

Amendment No. 30

15. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below, except for minor changes in the medical use radiation safety procedures as provided in 10 CFR 35.31. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
- A. Application dated July 8, 1994 (excluding Item 5 in ATT 11.1, Biological Waste); and
- B. Letters dated February 15, 1995, March 15, 1995, September 18, 1995, November 2, 1995, May 22, 1996, July 22, 1996 and August 26, 1996.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date 24 October 1996

By

William P. Reckhald
Materials Licensing Branch, Region III

COPY

S7

(FOR LFMS USE)
INFORMATION FROM LTS

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

Program Code: 02120
Status Code: 0
Fee Category: 7C 2B
Exp. Date: 20050430
Fee Comments: CODE 23
Decom Fin Assur Req: N

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: UNION HOSPITAL
Received Date: 960906
Docket No: 3011072
Control No.: 301809
License No.: 13-16457-01
Action Type: Amendment

2. FEE ATTACHED

Amount: ~~-----~~
Check No.: ~~-----~~

* ADDL INFO
301396-57

3. COMMENTS

Signed D. Henry
Date 9-6-96

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered /___/)

1. Fee Category and Amount: 7C 2B **FEE NOT REQUIRED**

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

Amendment ☒
Renewal ☐
License ☐

3. OTHER

Signed SC
Date 9/16/96

SEP 19 1996

RECEIVED BY LFDCB	
Date	<u>Sept. 12, 1996</u>
Log	<u>Sept 5 10</u>
By	<u>SC</u>
Date Completed	<u>9/16/96</u>

union HOSPITAL

August 26, 1996

Nuclear Materials Licensing Branch
Attn: Mr. William P. Reichhold
United States Nuclear Regulatory Commission
Region III
801 Warrenville Road
Lisle, IL 60532-4351

RE: NRC Material License
No. 13-16457-01
Control No. 301396

Dear Mr. Reichhold:

Per your letter of July 29, 1996 the following information is submitted in support of our request for removal of our old Radioactive Materials (RAM) Waste Storage Room from our license (note: no rooms in Union Hospital's older East Building have assigned room numbers). We wish to release this space for unrestricted use (storage of administrative records), as was discussed in our amendment #29 application dated May 22, 1996.

The old RAM Waste Store Room (located in Union Hospital East Building Basement) was used to store patient wastes and Nuclear Medicine Department wastes which were contaminated with any of the following radiopharmaceuticals:

Gallium - 67	Strontium - 89
Technetium - 99m	Indium - 111
Iodine - 123	Iodine - 131
Thallium - 201	

The vast majority of the material was Iodine - 131 contaminated patient wastes generated during in-patient thyroid carcinoma treatments. The Strontium - 89 contaminated wastes were from cancer patients who had received the isotope as out-patients but were subsequently admitted as in-patients (within 10 days of treatment). The only isotopes in the room for the six month period prior to closure were Cobalt - 57, Strontium - 89, Technetium - 99m, and Iodine - 131. The cobalt - 57 was in the form of two old sealed flood sources for gamma camera testing (current activity < 50 μ Ci each). Due to low activity, these two sealed sources were taken out of service by the Nuclear Medicine Department, sealed in their shielded storage cases and placed in the old RAM store room on March 22, 1996.

Enclosed, please find a diagram of the old RAM waste store room. Ten survey points were selected in and around the room including four on the floor inside the room, one on the floor immediately outside the room, one on each major interior wall/door surfaces, and one on the interior and exterior door knob surfaces. Based on the small size of the room (roughly 5 x 6 feet), ten survey points were considered sufficient to detect any residual contamination. The area survey and wipe sampling was carried out by Dean A. Taylor, our Radiation Safety

Continuation of 301396
FEE NOT REQUIRED

pm: 9-3-96

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SEP 06 1996

301809

Officer on August 12, 1996. The area survey was conducted using a Ludlum Measurements, Inc. Model 2221 Scaler with a Model 44-2-5 Sodium Iodide Probe. The instrument was calibrated on March 18, 1996. The wipe samples were analyzed for Iodine using the same Ludlum Measurements, Inc. Model 2221 Scaler with a Model 44-2-5 Sodium Iodide Probe. The wipe samples were analysed for Strontium using a Nuclear Chicago Model 1152 Gas Proportional Counter, Operated by RSSI, 6312 West Oakton Street, Morton Grove, IL 60053-2723. The instrument was calibrated on July 16, 1996 and the analysis was conducted by Terry Liaboe of RSSI. Wipe analysis was not carried out specifically for Cobalt - 57 since the sealed sources remained in storage in their cases during their entire time spent in the RAM Waste Room. Wipe analysis was not carried out specifically for Technetium - 99m due to its 6.01 hour half-life. All survey results are enclosed and indicate no significant residual contamination.

Additionally, we wish to add two authorized users to our license and to remove one based on his retirement from practice. We wish to add Ann T. Wendecker, DO, as an authorized user under the use categories described in 10 CFR 35.100, 10 CFR 35.200 and 10 CFR 35.300. We also wish to add Raymond J. Facco, MD, as an authorized user under the use categories described in 10 CFR 35.100 and 10 CFR 35.200. Attached, please find documents in support of these two candidates for authorized user status. The retiring physician to be removed from our license is Raymond N. Sweeney, MD.

If you have any questions regarding this request please contact Dean A. Taylor at (812) 238-7759. Your assistance in expediting this request is greatly appreciated.

Sincerely,



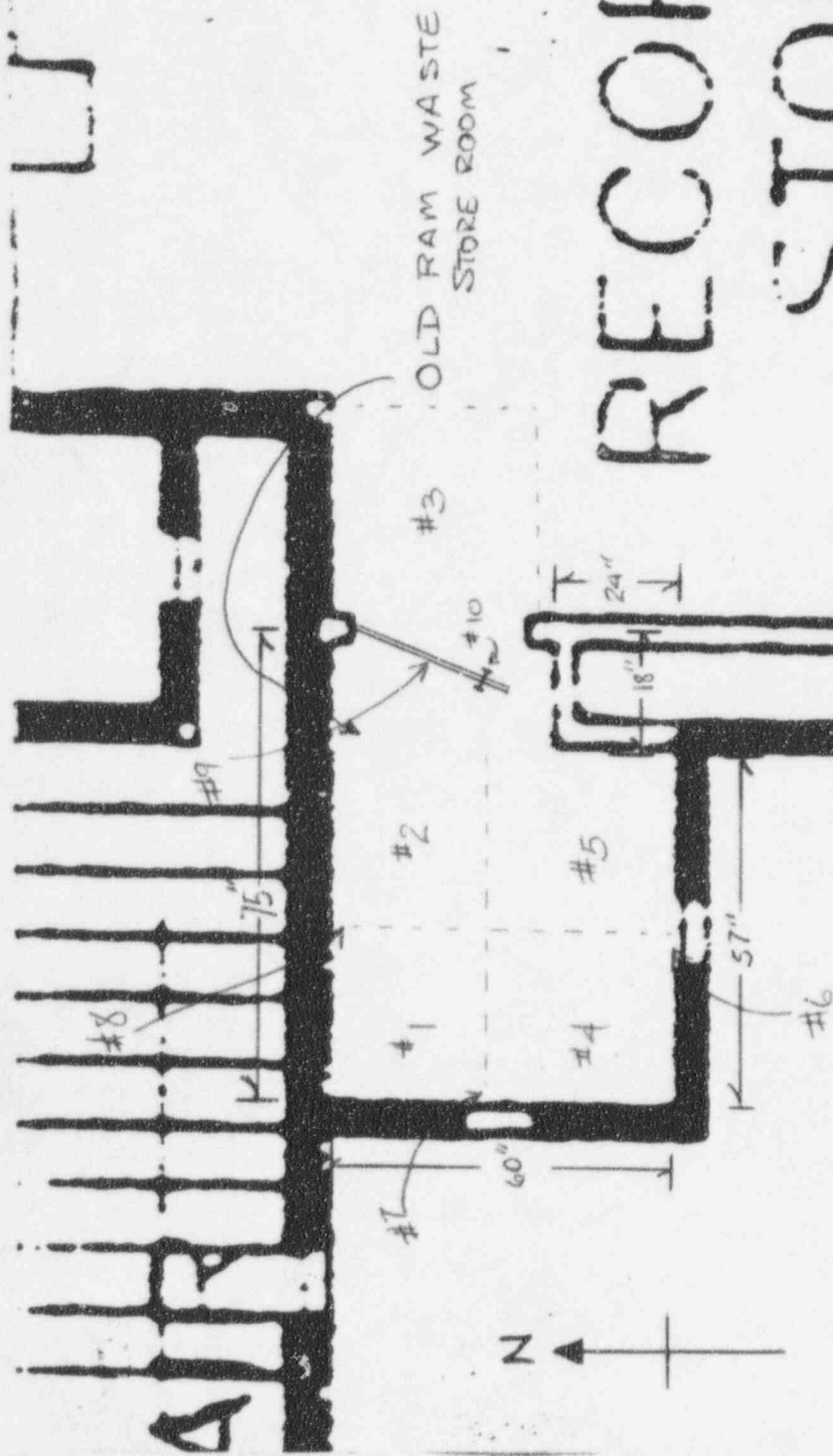
David R. Doerr
Senior Vice President
Chief Operating Officer

Enclosure

UNION HOSPITAL
EAST BUILDING
BASEMENT DETAIL

RECORDS STOR.

RAM STORE.



SURVEY POINTS

- #1 NW QUADRANT FLOOR
- 2 NE QUADRANT FLOOR
- 3 FLOOR BEYOND ROOM
- 4 SW QUADRANT FLOOR
- 5 SE QUADRANT FLOOR
- 6 S. WALL 3' FROM FLOOR
- 7 W. WALL 3' FROM FLOOR
- 8 N. WALL 3' FROM FLOOR
- 9 INTERIOR DOOR SURFACE
- 10 INTERIOR/EXTERIOR KNOB

13
12.

UNION HOSPITAL

Direct Reading Contamination Survey Record

Name: Old RAM Waste Storage Room
 Isotope: ⁵⁷Co, ^{99m}Tc, ⁸⁹Sr, ¹³¹I

Room No.: N/A
 Survey Date: 8/12/96

Instrument Used: Ludlum 2221 Scaler Serial No.: 71251 Calibration Date: 3/18/96
 Detector Used: Ludlum 44-2-5 Scint. Serial No.: PRO72100 Calibration Date: 3/18/96

Background count: ~ 220 cpm

LOCATION CODE	LOCATION	DIRECT CPM	COMMENT OR ACTION TAKEN
1.	NW Quadrant Floor	250	Cement
2.	NE Quadrant Floor	250	Cement
3.	Floor Just Beyond Room	220	Linoleum Tile
4.	SW Quadrant Floor	300	Cement
5.	SE Quadrant Floor	250	Cement
6.	S Wall (3 ft. from floor)	320	Ceramic Tile
7.	W Wall (3 ft. from floor)	300	Ceramic Tile
8.	N Wall (3 ft. from floor)	230	Leaded Sheet Rock
9.	Interior Door Surface (3 ft.)	280	Painted (Wood/Hollow Core)
10.	Interior Door Knob	240	Brass
11.	Exterior Door Knob	240	Brass
12.			
13.			
14.			
15.			
16.			
17.			
18.			

Notes: Survey points should be indicated on room map.
 See Wipe Test Record Form for wipe results.

UNION HOSPITAL

Wipe Test Record

Test Location: Old RAM Storage Room
Isotope: ¹³¹I

Date Measured: 8/14/96
Wipe Date: 8/12/96

Instrument Used: Ludlum 2221 Scaler Serial No.: 71251 Calibration Date: 3/18/96
Detector Used: Ludlum 44-2-5 Scint. Serial No.: PRO72100 Calibration Date: 3/18/96

Standard Source: Isotope: ¹³³Ba Activity: 0.011 μ Ci Calibration Date: 4/5/91
Current Activity in dpm: 17,006 Instrument efficiency (1/c): 44.74 dpm/ccpm

WIPE LOCATION	AREA (cm ²)	RAW COUNT Time: <u>5 min</u>	CCPM	DPM
BACKGROUND		80.25		
STANDARD SOURCE		1980.75	380	17,001
1. NW Quadrant Floor	100	74	< bkg	--
2. NE Quadrant Floor	100	78	< bkg	--
3. Floor Just Beyond Room	100	71	< bkg	--
4. SW Quadrant Floor	100	84	1	45 (<MDA)
5. SE Quadrant Floor	100	108	6	268
6. S Wall (3 ft. From Floor)	100	90	2	89 (<MDA)
7. W Wall (3 ft. From Floor)	100	125	9	403
8. N Wall (3 ft. From Floor)	100	100	4	179(<MDA)
9. Interior Door Surface (3 ft.)	100	115	7	313
10. Door knob (Both Sides)	100	107	5	224(<MDA)
11.				
12. Post Survey Background		99.5		
13.				
14.				

Note: MDA = $(3 / c) (\text{rate}_{\text{backgrnd}} / \text{time}_{\text{backgrnd}})^{1/2}$ where c is the calibration factor (ccpm/min dpm)
= 240 dpm

Surveyor's Signature: 

D.A. TAYLOR
Radiation Safety Officer

WIPE TEST ANALYSIS RESULTS

Performed for: Union Hospital, Inc.
1606 N. 7th Street
Terre Haute, IN 47804

Submitted by: Dean A. Taylor, RSO

Samples received: August 23, 1996
Results reported: August 23, 1996

Prepared by: B. A. Taylor

Laboratory Sample No.	Client Sample No.	Sr-89 Activity dpm/100 cm ²
961300	1	< 9
961301	2	< 9
961302	3	< 9
961303	4	< 9
961304	5	< 9
961305	6	< 9
961306	7	< 9
961307	8	< 9
961308	9	< 9
961309	10	< 9

Counting System: Nuclear Chicago Model 1152 Proportional Counter

Beta Standard Information: Cl-36
New England Nuclear
0.0233 uCi 11/80
NIST traceable

Renewal No. **H795321**

FORM APPROVED BY STATE BOARD OF ACCOUNTS 5/78



HEALTH PROFESSIONS BUREAU

402 West Washington Street
Room 041
Indianapolis, Indiana 46204

CONTROL NO. **959163** DEPOSIT DATE **08/15/95** FEE PAID **100.00**

LIC # **02001403** EXP DATE **06/30/97** **E**

ANN TERESE WENDECKER
10600 HAMILTON ROAD
TERRE HAUTE

IN 47802

State Form 4259 (R4/8-91)

CUT ON DOTTED LINE FOR BILLFOLD

STATE OF INDIANA
HEALTH PROFESSIONS BUREAU

RENEWAL NO. **H795321**

LICENSE NO. **02001403**

ANN TERESE WENDECKER

IS DULY LICENSED AS PRESCRIBED BY INDIANA LAW AS A
OSTEOPATHIC PHYSICIAN

MEDICAL LICENSING BOARD

TO ENGAGE IN SUCH PURSUIT UNTIL **06/30/97**

UNLESS SUSPENDED OR REVOKED BY LAW.

WRITTEN
SIGNATURE _____

NOT VALID UNLESS SIGNED IN INK

The American Osteopathic Association

upon recommendation
of the

American Osteopathic Board of Radiology



certifies that

Ann Terese Wendecker, D.O.

having met the prescribed qualifications and standards and
passed the required examinations of this Board,
is qualified as a specialist in

Diagnostic Radiology

and is hereby awarded this certificate as of

May 27, 1994



American Osteopathic Association

Robert Prebys
Executive Director

American Osteopathic Board of Radiology

John K. Kelly, D.O.
Chairman
Michael K. Millman, D.O. FAOCR
Secretary

Certificate No. 0779

Renewal No. H789318

FORM APPROVED BY STATE BOARD OF ACCOUNTS 5/78

HEALTH PROFESSIONS BUREAU

402 West Washington Street
Room 041
Indianapolis, Indiana 46204

CUT ON DOTTED LINE FOR BILLFOLD

STATE OF INDIANA
HEALTH PROFESSIONS BUREAU

RENEWAL NO. H789318
LICENSE NO. 01042301

RAYMOND JOSEPH FACCO

IS DULY LICENSED AS PRESCRIBED BY INDIANA LAW AS A
PHYSICIAN

MEDICAL LICENSING BOARD

TO ENGAGE IN SUCH PURSUIT UNTIL 06/30/97

UNLESS SUSPENDED OR REVOKED BY LAW

WRITTEN
SIGNATURE

NO FEE UNLESS SIGNED IN INK

RAYMOND JOSEPH FACCO
2601 HARRISON WOODS ROAD
NORTH TERRE HAUTE IN 47805

State Form 4259 (R4/8-91)

STATE OF INDIANA
CONTROLLED SUBSTANCES REGISTRATION CERTIFICATE

Date Registration Expires

Fee Paid

Activity

57674

06/30/97

20.00

PHYSICIAN

Registration #

Batch #

Schedules Authorized

01042301B

553333

2 2N 3 3N 4 5

FACCO, RAYMOND JOSEPH
UNION HOSPITAL - RADIOLOGY
1606 NORTH SEVENTH ST
TERRE HAUTE IN 47804

HEALTH PROFESSIONS BUREAU
INDIANA BOARD OF PHARMACY
CONTROLLED SUBSTANCES
ADVISORY COMMITTEE
402 West Washington Street
Room 041
Indianapolis, IN 46204
(317) 232-2960

THIS CERTIFICATE IS NOT TRANSFERABLE ON CHANGE OF OWNERSHIP, CONTROL, LOCATION, OR BUSINESS ACTIVITY

The American Board of Radiation

Organized through the cooperation of the
American College of Radiology, the American Roentgen Ray Society,
the American Radium Society, the Radiological Society of North America,
the Section on Radiology of the American Medical Association,
the American Society for Therapeutic Radiology and Oncology, the Association of
University Radiologists, and American Association of Physicians in Medicine
Hereby certifies that

[illegible]

Has pursued an accepted course of graduate study and clinical work, has met certain standards and qualifications and has passed the examinations conducted under the authority of

The American Board of Radiology

THE UNIVERSITY OF CHICAGO

Thereby demonstrating to the satisfaction of the Board
that he is qualified to practice the specialty of

Digestive Radiology



OCT 24 1996

David R. Doerr
Senior Vice President/Chief Operating Officer
Union Hospital
1606 North 7th Street
Terre Haute, IN 47804

Dear Mr. Doerr:

Enclosed is Amendment No. 30 to your NRC Material License No. 13-16457-01 in accordance with your request.

Please review the enclosed document carefully and be sure that you understand all conditions. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region III office at (630) 829-9887 so that we can provide appropriate corrections and answers.

Please note, based upon the close-out survey results in letter dated August 26, 1996, we have authorized the release of the old radioactive materials waste storage room (located in Union Hospital East Building Basement) for unrestricted use.

Also note, as discussed with Dean Taylor on October 23, 1996, we have not added Dr. John Leahy because he does not meet the criteria in 10 CFR 35.13(b) to use material listed in 10 CFR 35.300. If you wish Dr. Leahy authorized to use material in 35.300 you will need to submit an amendment.

Please be advised that your license expires at the end of the day, in the month, and year stated in the license. Unless your license has been terminated, you must conduct your program involving byproduct materials in accordance with the conditions of your NRC license, representations made in your license application, and NRC regulations. In particular, note that you must:

1. Operate in accordance with NRC regulations 10 CFR Part 19, "Notices, Instructions and Reports to Workers; Inspections," 10 CFR Part 20, "Standards for Protection Against Radiation," and other applicable regulations.
2. Notify NRC, in writing, within 30 days:
 - a. When an authorized user or Radiation Safety Officer permanently discontinues performance of duties under the license or has a name change; or

301809

- b. When the licensee's mailing address changes (no fee is required if the location of byproduct material remains the same).
3. In accordance with 10 CFR 30.36(b) and/or license condition, notify NRC, promptly, in writing, and request termination of the license when you decide to terminate all activities involving materials authorized under the license.
4. Request and obtain a license amendment before you:
 - a. Receive or use byproduct material for a clinical procedure permitted under Part 35 but not permitted by your license issued pursuant to this Part;
 - b. Permit anyone, except individuals described in 10 CFR 35.13(b), to work as an authorized user under the license;
 - c. Change Radiation Safety Officers;
 - d. Order byproduct material in excess of the amount, or radionuclide, or form different than authorized on the license;
 - e. Add or change the areas of use or address or addresses of use identified in the license application or on the license; or
 - f. Change ownership of your organization.
5. Submit a complete renewal application with proper fee or termination request at least 30 days before the expiration date of your license. You will receive a reminder notice approximately 90 days before the expiration date. Possession of byproduct material after your license expires is a violation of NRC regulations. A license will not normally be renewed, except on a case-by-case basis, in instances where licensed material has never been possessed or used.

In addition, please note that NRC Form 313 requires the applicant, by his/her signature, to verify that the applicant understands that all statements contained in the application are true and correct to the best of the applicant's knowledge. The signatory for the application should be the licensee or certifying official rather than a consultant.

You will be periodically inspected by NRC. Failure to conduct your program in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in enforcement action against you. This could include issuance of a notice of violation, or imposition of a civil penalty, or an order suspending, modifying or revoking your license as specified in the

D. Doerr

-3-

General Policy and Procedures for NRC Enforcement Actions. Since serious consequences to employees and the public can result from failure to comply with NRC requirements, prompt and vigorous enforcement action will be taken when dealing with licensees who do not achieve the necessary meticulous attention to detail and the high standard of compliance which NRC expects of its licensees.

Sincerely,

Original Signed By
W. P. Reichhold
Nuclear Materials Licensing Branch

License No.: 13-16457-01
Docket No.: 030-11072

Enclosure: Amendment No. 30

DOCUMENT NAME: M:\03011072.CL6

To receive a copy of this document, indicate in the box: "C" = Copy without enclosures "E" = Copy with enclosures "N" = No copy

OFFICE	DNMS/RII								
NAME	WREICHHOLD:jaw								
DATE	10/2/96								

OFFICIAL RECORD COPY



September 26, 1996

Nuclear Materials Licensing Branch
Attn: Mr. William P. Reichhold
United States Nuclear Regulatory Commission
Region III
801 Warrenville Road
Lisle, IL 60532-4351

RE: NRC Material License
No. 13-16457-01

Dear Mr. Reichhold:

Union Hospital has made an administrative decision to have our NRC License more closely mirror the credentialed privileges granted to our authorized users. Unfortunately this effort contradicts a portion of our request of August 26, 1996, to add two authorized users to our license. Consequently, we respectfully request that the following physicians be removed from the list of authorized users for the uses described in 10 CFR 35.100 and 10 CFR 35.200:

Ann T. Wendecker, DO *WANT FOR 35.300* —
Raymond J. Facco, MD. — *OUT*.

In addition, our Radiation Safety Committee has recently approved the following medical staff to become authorized users for therapeutic use of unsealed byproduct material as described in 10 CFR 35.300:

John M. Leahy, MD — *NO ACTION*
Killol J. Thakore, MD. — *35.300*

We ask that they be added to the license accordingly. Attached, please find documents in support of these two candidates for authorized user status.

If you have any questions regarding this request please contact Dean A. Taylor at (812) 238-7759. Your assistance in expediting this request is greatly appreciated.

Sincerely,

David R. Doerr
David R. Doerr
Senior Vice President
Chief Operating Officer

RECEIVED
OCT 07 1996
REGION III

Enclosed

Pm: 10-1-96

OCT 07 1996

The American Board of Radiology

Organized through the cooperation of the
American College of Radiology, the American Roentgen Ray Society,
the American Radium Society, the Radiological Society of North America,
the Section on Radiology of the American Medical Association,
the American Society for Therapeutic Radiology and Oncology, the Association of
University Radiologists, and American Association of Physicists in Medicine

Hereby certifies that

John Maurice Leahy, M.D.

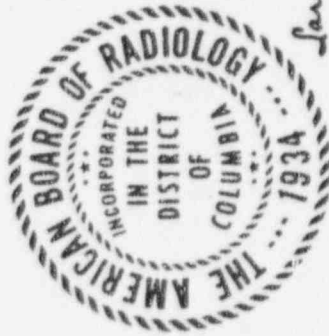
Has pursued an accepted course of graduate study
and clinical work, has met certain standards and qualifications and
has passed the examinations conducted under the authority of

The American Board of Radiology

On this twelfth day of June, 1936

Thereby demonstrating to the satisfaction of the Board
that he is qualified to practice the specialty of

Diagnostic Radiology



Lawrence S. Hansen, M.D. Robert R. Hartley, M.D. Paul Capp, M.D.
President Secretary-Treasurer Executive Director

PRECEPTOR STATEMENT

PROPOSED PHYSICIAN USER'S NAME AND ADDRESS

FULL NAME: John Leahy, M.D.

ADDRESS:

CITY, STATE, ZIP CODE:

CLINICAL TRAINING AND EXPERIENCE OF ABOVE NAMED PHYSICIAN

ISOTOPE	CONDITIONS DIAGNOSED OR TREATED	NUMBER OF CASES INVOLVING PERSONNEL PARTICIPATION	COMMENTS
	Thyroid scan		
	Thyroid uptake		
	Lung perfusion scan		
	Xenon ventilation study		
	Aerosol ventilation scan		
	Renal flow scan		
	Brain scan		
	Liver/spleen scan		
	Bone scan		
	Gastroesophageal study		
	LeVeen shunt study		
	Cystogram		
	Dacrocystogram		
	Cardiac perfusion scan		
	Cardiac stress ventriculogram		
	Cardiac rest ventriculogram		
	Gallium scan		
In-111	White cell		
Tc-99m	Testicular scan		
In-111	Cisternogram		
Tc-99m	Gall bladder scan		
Tc-99m	GI bleed		

P-32(S)	PV, leukemia, bone mets	0	(S) = Soluble
P-32(C)	intracavitary treatment	0	(C) = Colloidal
I-131	treatment of hyperthyroidism	46	
I-131	treatment of thyroid carcinoma	7	
Mo-99/Tc-99m	Generator	5	
Tc-99m	Reagent Kits	15	

DATES AND TOTAL NUMBER OF HOURS RECEIVED IN CLINICAL RADIOISOTOPE TRAINING

Methodist Hospital, 1701 N. Senate Blvd., Indianapolis, IN 46202

CLOCK HOURS OF

Oct-92 Nov-93 Nov-94

EXPERIENCE: 1008

Jun-93 Apr-94 Jun-96

TRAINING AND EXPERIENCE INDICATED ABOVE OBTAINED UNDER THE SUPERVISION OF:

Larry L. Heck, M.D.

Methodist Hospital of Indiana, Inc.

1701 N. Senate Blvd.

Indianapolis, IN 46202

NRC License No. 13-02063-01

Larry L. Heck, M.D.

Chairman, Radiation

Safety Committee

8/22/96
DATE

STATE OF INDIANA
HEALTH PROFESSIONS BUREAU

RENEWAL NO H784683
LICENSE NO 01041592

JOHN MAURICE LEAHY
IS DULY LICENSED AS PRESCRIBED BY INDIANA LAW AS A
PHYSICIAN

MEDICAL LICENSING BOARD

TO ENGAGE IN SUCH PURSUIT UNTIL 06/30/97

UNLESS SUSPENDED OR REVOKED BY LAW

WRITTEN SIGNATURE John M. Leahy MD
NOT VALID UNLESS SIGNED IN INK

Verified By: Kulthry
Checked By: RL
Issued: 7-1-93 Expired: 6-30-97
Status: AS
Date: 5-17-96

The American Board of Nuclear Medicine

Incorporated 1971

Certifies that

Killol Jagdishchandra Thakore

*has met the requirements of this Board and is qualified
during the period of 1993 through 2003 to practice as a Specialist
in all aspects of Clinical and Laboratory*

Nuclear Medicine

*including but not limited to Radiobioassay, Nuclear Imaging,
In Vivo Measurements & Therapy with Unsealed Radionuclides*

R. Edward Coleman
Chairman

Paul T. Fitchman
Secretary

05906

Number

35

STATE OF INDIANA
HEALTH PROFESSIONS BUREAU

RENEWAL NO. H909046
LICENSE NO. 01045252

KILLOL J. THAKORE

IS DULY LICENSED AS PRESCRIBED BY INDIANA LAW AS A
PHYSICIAN

MEDICAL LICENSING BOARD

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WRITTEN SIGNATURE *K. Killol*

NOT VALID UNLESS SIGNED IN BLUE