

MATERIALS LICENSE

Amendment No. 09

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.

302/01

Licensee		In accordance with the letter dated September 15, 1996	
1. Radiologists, P.C.		3. License Number 24-20047-01 is amended in its entirety to read as follows:	
2. 6724 Troost Avenue Suite 900 Kansas City, Missouri 64131		4. Expiration Date March 31, 2001	
		5. Docket or Reference No. 030-17683	
6. Byproduct, Source, and/or Special Nuclear Material	7. Chemical and/or Physical Form	8. Maximum Amount that Licensee May Possess at Any One Time Under This License	
A. Any byproduct material identified in 10 CFR 35.100	A. Any radiopharmaceutical identified in 10 CFR 35.100	A. As needed	
B. Any byproduct material identified in 10 CFR 35.200	B. Any radiopharmaceutical identified in 10 CFR 35.200 (excluding generators and xenon-133)	B. As needed	
C. Any byproduct material identified in 10 CFR 35.300	C. Any radiopharmaceutical identified in 10 CFR 35.300 (excluding iodine-131 for thyroid carcinoma therapy)	C. As needed (not to exceed one curie of iodine-131)	
D. Any byproduct material identified in 10 CFR 35.500	D. Sealed sources identified in 10 CFR 35.500	D. As needed	
9. Authorized Use:			
A. Medical use described in 10 CFR 35.100.			
B. Medical use described in 10 CFR 35.200 (excluding generators and xenon-133).			
C. For treatment of hyperthyroidism and cardiac dysfunction.			
D. Medical use described in 10 CFR 35.500 in devices which have been evaluated and approved for licensing purposes by the U.S. Nuclear Regulatory Commission or an Agreement State.			

COPY

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number

24-20047-01

Docket or Reference Number

030-17683

Amendment No. 09

CONDITIONS

10. Location of Use: 6724 Troost Avenue, Suite 900, Kansas City, Missouri.
11. Radiation Safety Officer: Mordecai Kopperman, M.D.
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 UsersMaterial and Use

- | | |
|------------------------------|---|
| A. Rodger W. Lambie, M.D. | 10 CFR 35.100, 35.200 (excluding generators and xenon-133), iodine-131 for treatment of hyperthyroidism and cardiac dysfunction and 35.500. |
| B. Edwin M. Herman, M.D. | 10 CFR 35.100, 35.200 (excluding generators and xenon-133), iodine-131 for treatment of hyperthyroidism and cardiac dysfunction and 35.500. |
| C. Mordecai Kopperman, M.D. | 10 CFR 35.100, 35.200 (excluding generators and xenon-133), iodine-131 for treatment of hyperthyroidism and cardiac dysfunction and 35.500. |
| D. Angela Noto, M.D. | 10 CFR 35.100, 35.200 (excluding generators and xenon-133), iodine-131 for treatment of hyperthyroidism and cardiac dysfunction and 35.500. |
| E. Jennifer H. Crawley, M.D. | 10 CFR 35.100, 35.200 (excluding generators and xenon-133), iodine-131 for treatment of hyperthyroidism and cardiac dysfunction and 35.500. |
| F. Neal Lurz, M.D. | 10 CFR 35.100, 35.200 (excluding generators and xenon-133), 35.300 (excluding iodine-131 for thyroid carcinoma therapy) and 35.500. |
| G. Thomas B. Summers, M.D. | 10 CFR 35.100, 35.200 (excluding generators and xenon-133), iodine-131 for treatment of hyperthyroidism and cardiac dysfunction. |

COPY

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SUPPLEMENTARY SHEET

License Number

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Docket or Reference Number

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Authorized UsersMaterial and Use

H. Deborah Dawson Troy, M.D.

10 CFR 35.100, 35.200 (excluding generators and xenon-133), iodine-131 for treatment of hyperthyroidism and cardiac dysfunction.

I. Sanford B. Radom, M.D.

10 CFR 35.100, 35.200 (excluding generators and xenon-133), iodine-131 for treatment of hyperthyroidism and cardiac dysfunction.

J. Robert C. Newth, Jr., M.D.

10 CFR 35.100, 35.200 (excluding generators and xenon-133), iodine-131 for treatment of hyperthyroidism and cardiac dysfunction and 35.500.

K. John Waddell, M.D.

10 CFR 35.100, 35.200 (excluding generators and xenon-133), iodine-131 for treatment of hyperthyroidism and cardiac dysfunction and 35.500.

13. Licensee shall maintain records of the personnel training program.
14. In addition to the possession limits in Item 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.
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. Applications dated December 20, 1990, and
- B. Letters dated April 24, 1996 (Only Items 8, 9.2, 9.3, 10.3 and attachments 8.1 and 9.1.1 in application dated February 20, 1996), August 20, 1996, September 15, 1996 and November 27, 1996.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date

1/8/97

By

Michael J. White

Nuclear Materials Licensing Branch, Region III

COPY

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

(FOR LFMS USE)
INFORMATION FROM LTS

S2

Program Code: 02120
Status Code: 0
Fee Category: 7C
Exp. Date: 20010331
Fee Comments:
Decom Fin Assur Req: N

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: RADIOLOGISTS, P.C.
Received Date: 961203
Docket No: 3017683
Control No.: 302101
License No.: 24-20047-01
Action Type: Amendment

2. FEE ATTACHED

Amount: ~~X~~
Check No.: ~~X~~

* ADDL INFO
301872-S2

3. COMMENTS

Signed A. Hersey
Date 12-4-96

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

1. Fee Category and Amount: 7C

FEE NOT REQUIRED

2. Correct Fee Paid. Application may be processed for:
Amendment X
Renewal
License

3. OTHER

Signed SC
Date 12/17/96

1996 DEC 13 PM 2:16

RECEIVED BY LFDCB	
Date	<u>Dec. 13, 1996</u>
Log	<u>Dec 6 III</u>
By	<u>SC</u>
Date Completed	<u>12/17/96</u>

DIAGNOSTIC IMAGING CENTER



RADIOLOGISTS, P.C.

(TROOST OFFICE)

RODGER W. LAMBIE, M.D., F.A.C.R.
EDWIN M. HERMAN, M.D., F.A.C.R.
MORDECAI KOPPERMAN, M.D., F.A.C.R.
JENNIFER H. CRAWLEY, M.D.
ANGELA M. NOTO, M.D.
NEAL K. LURZ, M.D.
THOMAS B. SUMMERS, M.D.

November 27, 1996

Mike Webber
Materials Licensing Section
US Nuclear Regulatory Commission, Region III
801 Warrenville Road
Lisle, IL 60532-4351

Dear Mr. Webber:

Enclosed please find additional information for Control Number 301872. As requested in your letter faxed October 21, 1996, I have provided the decommission survey of the Nuclear Medicine Department at Radiologists, P.C., for your review.

If you require any additional information, please call.

Best regards,

Mordecai Kopperman, M.D.

Enclosure: Decommission survey

Reference: Control number 301872
RM License #24-20047-01

RECEIVED

DEC 03 1996

REGION III

Continuation of 301872
FEE NOT REQUIRED

Pm: 11-29-96

6724 Troost, #900
Kansas City, MO 64131
Tel: (816) 333-8420
Fax: (816) 333-7843

5500-5520 College Blvd.
Overland Park, KS 66211
Tel: (913) 491-9299
Fax: (913) 491-9363

5400 North Oak, #206
Kansas City, MO 64118
Tel: (816) 455-5959
Fax: (816) 455-1122

609 N. M-291 Hwy.
Lee's Summit, MO 64086
Tel: (816) 525-5545
Fax: (816) 554-0046

DEC 01 1996
302101



RADIOLOGICAL SOLUTIONS

SERVING YOUR MEDICAL PHYSICS NEEDS

P.O. BOX 22622
KANSAS CITY, MO 64113
816-444-5901 FAX 816-444-5789
1-800-237-9023

Decommissioning Record for Radiologists, P.C.

Detection system:

Berthold Industries Nuclear Spectrometer Model LB 2040

Berthold Industries Model LB 6628-1U NaI well detector

Calibrated: 6/25/96

Ludlum Instruments Model 14C, Probe 44-9 SN:69399

Detection Efficiency:

78% for Co-57

No.	Location	mR/hr	CPM	DPM	Accept?
1	L-shield	0.02	603	19	YES
1b	Sharps shield	0.02	556	-42	YES
2	Floor under prep area	0.02	715	162	YES
3	Dose calibrator	0.02	669	103	YES
3b	Counter top in prep area	0.02	550	-49	YES
4	Injection table	0.02	621	42	YES
4b	Injection area floor	0.02	628	51	YES
4c	Waste can	0.02	629	52	YES
5	Matrix camera	0.02	596	10	YES
6	Control center	0.02	609	26	YES
7	Desk	0.02	578	-13	YES
7b	File cabinet	0.02	610	28	YES
8	Toshiba table	0.02	621	42	YES
9	Toshiba camera head	0.02	614	33	YES
10	Collimator stand	0.02	624	46	YES
10b	Fillable flood	0.02	719	167	YES
11	Dose receipt stand	0.02	694	135	YES
12	Lead cave storage	0.02	625	47	YES
12b	Sealed source containers	0.02	670	105	YES
13	Sink	0.02	573	-20	YES
13b	Waste storage cabinet	0.02	645	73	YES
14	Floor under table	0.02	634	58	YES
15	Wall mounted first aid cabinet	0.02	595	8	YES
16	GE matrix camera	0.02	601	16	YES
17	GE camera control	0.02	618	38	YES
18	Floor	0.02	656	87	YES
19	Injection table	0.02	628	51	YES
20	Camera table	0.02	603	19	YES
21	Toshiba camera	0.02	593	6	YES
22	Injection area floor	0.02	659	91	YES
23	Collimator stand	0.02	622	43	YES
24	Door and floor	0.02	581	-9	YES
25	Stool	0.02	624	46	YES

Background:

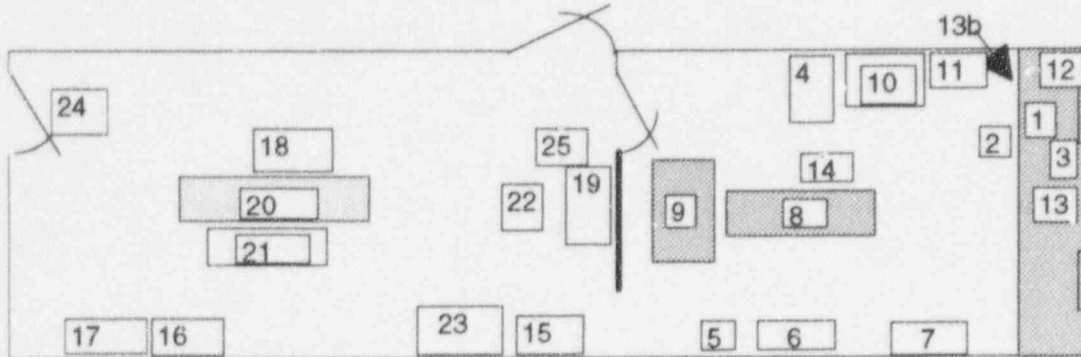
0.02 588.4

CLEANING LEVEL:

200 DPM for I-131

NOTICE: To convert from cpm to dpm: Wipe dpm = (Measured cpm - Background cpm) / Eff%

MAP FOR DECOMMISSIONING WIPE AND AREA SURVEY



Surveyor: _____

Kari S. Arcide, M.S.

Kansas RM License No.:33-C737-01

Date: _____

10/30/96

JAN 08 1997

Rodger W. Lambie, M.D.
President
Radiologists, P.C.
6724 Troost Avenue
Suite 900
Kansas City, MO 64131

Dear Dr. Lambie:

This refers to the close-out survey results of your former nuclear medicine area which were transmitted in the facsimile and letter dated October 31, 1996 from your consultant, Ms. Kari Arcide, and the letter dated November 27, 1996 from your Radiation Safety Officer, Dr. Kopperman. This also refers to our telephone conversations with Ms. Arcide and your nuclear medicine technologist, Ms. Mary Moureau, on October 31, 1996. During the telephone conversation with Ms. Moureau, we authorized the release of the former nuclear medicine area. The purpose of this letter is to document the verbal authorization given during the October 31, 1996 phone conversation with Ms. Moureau, and to transmit Amendment No. 9 to your NRC License No. 24-20047-01. License Condition No. 15.B ties down the close-out survey results included in your October 31, 1996 and November 27, 1996 letters.

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
 - b. When the licensee's mailing address changes (no fee is required if the location of byproduct material remains the same).

302101

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 General Policy and Procedures for NRC Enforcement Actions. Since serious consequences to employees and the public can result from failure to comply with NRC

R. Lambie

-3-

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
Michael F. Weber
Nuclear Materials Licensing Branch

License No.: 24-20047-01
Docket No.: 030-17683

Enclosure: Amendment No. 09

DOCUMENT NAME: M:\03017683.CL6

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

OFFICE	DNMS/RIII	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NAME	MFWEBER:ja'v	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DATE	01/01/97	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

OFFICIAL RECORD COPY



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION III
801 WARRENVILLE ROAD
LISLE, ILLINOIS 60532-4351

December 9, 1996

Mordecai Kopperman, M.D.
Radiation Safety Officer
Radiologists, P.C.
6724 Troost Avenue, Suite 900
Kansas City, MO 64131

SUBJECT: ACKNOWLEDGEMENT OF CORRESPONDENCE
(Letter Dated 11/27/96)

Dear Licensee:

In response to your request, we have completed the initial processing, which is an administrative review of your application for a(n):

☐ New License ☒ Amendment ☐ Renewal
☐ Termination ☐ Switch User (Amendment not required)
☐ Other _____

No administrative deficiencies were identified during this initial review. However, it should be noted that a technical review may identify omissions in the submitted information.

It appears that your request is routine (see 1-3 below, as applicable).

1. New and amendment actions are normally processed within 90 days, unless we find major deficiencies, or policy issues requiring central program office assistance.
2. Renewal actions are normally processed within 180 days, however, under timely filing (before expiration), you may continue to operate under your existing license.
3. Termination actions are normally processed within 90 days, unless confirmatory surveys following decontamination/decommissioning activities are involved.

A copy of your correspondence has been forwarded to our Licensing Fee and Debt Collection Branch (301/415-6097) for approval of the fee category and amount, if required.

If you have a compelling safety or business-related reason for requesting expedited review, please contact the Materials Licensing Branch at (630) 829-9887. We will try to complete your request as soon as practicable. Any correspondence about this request should reference the control number.

Nuclear Materials Support Branch

Mail Control No. 302101
License No. 24-20047-01

UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION III
801 WARRENVILLE ROAD
LISLE, ILLINOIS 60532-4351
630-829-9887 (phone), 630-515-1259 (fax)

CONVERSATION RECORD

TIME

Various

DATE

10/31/96

NAME OF PERSON(S) CONTACTED

ORGANIZATION

TELEPHONE NO.

Kari Arcide, Mary Moureau

Radiologists, PC

816-333-8420

SUBJECT

Amend. Request - additional info to CONTROL NO. 301872

SUMMARY

By facsimile dated October 31, 1996, Ms. Arcide (licensee's consultant) transmitted the close-out survey results of the licensee's former nuclear medicine area. Today I spoke with Ms. Arcide and the licensee's nuclear medicine technologist, Ms. Mary Moureau. Per the licensee's request, I authorized the release of the former nuclear medicine area.

ACTION REQUIRED

NAME OF PERSON DOCUMENTING CONVERSATION

SIGNATURE

DATE

Michael F. Weber

M. F. Weber

10/31/96