MATERIALS LICENSE

Amendment No. 07

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.

301775

Licensee	
1. Radiologists, P.C.	In accordance with letter dated August 20, 1996
2. 6724 Troost Avenue Suite 900 Kansas City, Missouri 64131	3. License Number 24-20047-01 is amended in its its entirety to read as follows:
	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
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.

0/1

210077

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number
24-20047-01

Docket or Reference Number
030-17683

Amendment No. 07

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.

CONDITIONS

10. Location of Use: 6724 Troost Avenue, Suite 900, Kansas City, Missouri.

11. Radiation Safety Officer: Rodger W. Lambie, 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 Users	Material 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.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number
24-20047-01

Docket or Reference Number
030-17683

Amendment No. 07

Authorized Users	Material and Use
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.
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.

13. Licensee shall maintain records of the personnel training program.

14. This license is based on the licensee's statements and representations listed below:

    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) and August 20, 1996.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date 2 October 1996

By William P. Reichhold
Nuclear Materials Licensing Branch, Region III

COPY

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

(FOR LFMS USE)
INFORMATION FROM LTS

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

57

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED
   Applicant/Licensee: RADIOLOGISTS, P.C.
   Received Date: 960823
   Docket No: 3017683
   Control No.: 301775
   License No.: 24-20047-01
   Action Type: Amendment

2. FEE ATTACHED
   Amount: *
   Check No.:

   * addl info
   399985 - 57

3. COMMENTS

Signed D. Hersey
Date 8-27-96

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

1. Fee Category and Amount: 7C

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

3. OTHER

Signed AC
Date 9/5/96

SEP 0 9 1996

Log	Sept 3. IL
Remitter	
Check No.	
Amount	
Fee Category	7C
Type of Fee	AMD
Date Check Rec'd	
Date Completed	9/5/96
By:	AC

FEE NOT REQUIRED

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.

August 20, 1996

William P. Reichhold
Materials Licensing Section
U.S. Nuclear Regulatory Commission, Region III
801 Warrenville Road
Lisle, IL 60532-4351

Dear Mr. Reichhold:

Enclosed please find additional information to Control No. 399985 for the renewal of Radioactive Materials License No. 24-20047-01, Docket No. 030-17683.

As discussed with both you and John Madera, we have revised our package opening procedures to contain more specific information. We have addressed your items 1, 2, 5, and 7 as listed in your letter which accompanied our Amendment No. 6. We feel that items 4 and 6 were already present and addressed in the prior procedure. Concerning item 3, we have written the procedure to follow 10 CFR Part 20.1906 and Regulatory Guide 10.8 Appendix X exclusively, as opposed to the older Appendix L.

Additionally, I have discussed the assay procedure issue with Robert Hayes. I will measure the efficiency of the current wipe test counting system using NIST traceable Cs-137 and Co-57 sources. If I find that the efficiency is not sufficient to detect 2000 dpm, we will implemant a new counting procedure using the gamma camera.

Thank you for your attention to this matter.

Best regards,

Karl Schlafke Arcide, M.S., DABR, DABSNM
Medical Physics Consultant

Enclosure: Revised Att. 10.7

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) 525-5565
Fax: (816) 554-0046

Continuation of 399985
FEE NOT REQUIRED
30/775

NRC 313 **ITEM 10**

ATT 10.7 PROCEDURES FOR SAFELY OPENING PACKAGES CONTAINING RADIOACTIVE MATERIALS

a. No packages will be ordered or received which exceed Type A quantities.

b. Put on gloves to prevent hand contamination.

Visually inspect all packages containing radioactive material for any signs of damage (wet or crushed). If damage is observed, notify the Radiation Safety Officer (RSO) immediately and, if possible, detain the driver and delivery vehicle until the extent of any possible contamination is determined. If no damage is observed, continue with the procedure.

d. All packages labeled with a Radioactive White I, Yellow II, or Yellow III, except those containing radioactive materials in gaseous form, will be monitored for radioactive contamination. Still wearing gloves, using an alcohol wipe or other appropriate swab, wipe at least 300 square centimeters of the package surface (or the entire package if smaller). Remove the wipe sample to a low background area and assay using a detection system capable of determining removable contamination of 22 dpm/cm^2 or lower.

e. If removable contamination on the package exceeds 22 dpm/cm^2 for beta/gamma emitters for a wipe of 300 square centimeters, notify the Radiation Safety Officer so that appropriate action may be taken.

f. If surface contamination test results are negative, wearing disposable rubber gloves, open the outer package following the manufacturer's directions, if supplied, and remove the packing slip. Examine the inner package to verify the contents relative to the requisition *and* packing slip. Check the physical integrity of the final source container prior to use of the contents. If contamination is suspected for any reason, wipe the external surface of the final source container and remove the wipe to a low background area to assay. Take special precautions to prevent the potential spread of contamination. Assay to determine if there is any removable radioactivity. If anything is other than expected, stop and notify the RSO.

g. Monitor any disposable packing material and/or container for radiation levels.

i. If radiation levels exceed background, treat the package or material as radioactive waste. (See item 11.1)

ii. If no radiation is detected, obliterate all radiation labels and discard the material as regular trash.

h. Make a record of the receipt and any action taken.

DIAGNOSTIC IMAGING CENTER
RADIOLOGISTS, P.C.
(TROOST OFFICE)

ROGGER W. LAMBIE, M.D., F.A.C.R.
EDWIN M. HERMAN, M.D., F.A.C.R.
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JENNIFER H. CRAWLEY, M.D.
ANGELA M. NOTO, M.D.
NEAL K. LURZ, M.D.

FAX COVER SHEET

DATE: 8-23-96

NUMBER OF PAGES: 2 (To Follow)

DOCUMENT(S) GOING TO:

FAX NUMBER: (630) 515-1078

ATTENTION: William Reichbld

FIRM NAME: NRC

OTHER:

_____ If marked, please call (816) _____ - _____ to confirm.

****

FROM: Mary Moreau CNMT FAX NUMBER: (816) 333-7843

MEMO: Control # 399985
Radioactive Materials License 24-20047-01

****

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BILLING OFFICE TELEPHONE NUMBER: (816) 333-9767
6724 TROOST, SUITE 900 · KANSAS CITY, MO 64131 · 816-333-8420 · FAX 333-7843
9500-9520 COLLEGE BLVD. · OVERLAND PARK, KS 66211 · 913-491-9299 · FAX 491-9363
5400 NORTH OAK, SUITE 206 · KANSAS CITY, MO 64118 · 816-455-5959 · FAX 455-1422

OCT 0 2 1996

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

Dear Dr. Lambie:

Enclosed is Amendment No. 07 to your NRC Material License No. 24-20047-01 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 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).

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.

301775

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

Enclosure: Amendment No. 07

DOCUMENT NAME: M:\03017683.CL6

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OFFICE	DNMS/RIII WR				
NAME	WREICHHOLD:jaw				
DATE	10/2/96				

OFFICIAL RECORD COPY

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.

August 20, 1996

William P. Reichhold
Materials Licensing Section
U.S. Nuclear Regulatory Commission, Region III
801 Warrenville Road
Lisle, IL 60532-4351

Dear Mr. Reichhold:

Enclosed please find additional information to Control No. 393985 for the renewal of Radioactive Materials License No. 24-20047-01, Docket No. 030-17683.

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Karl Schlafke Arcide, M.S., DABR, DABSNM
Medical Physics Consultant

Enclosure: Revised Att. 10.7

PM; 9-19-96

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Fax: (816) 554-0046

NRC 313

ITEM 10

ATT 10.7 PROCEDURES FOR SAFELY OPENING PACKAGES CONTAINING RADIOACTIVE MATERIALS

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