

MATERIALS LICENSE

Amendment No. 13

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.

301703

Licensee		In accordance with letter dated July 16, 1996	
1. Clinton Memorial Hospital Radiology Services Department		3. License Number 34-18241-01 is amended in its entirety to read as follows:	
2. 610 W. Main Street Wilmington, OH 45177		4. Expiration Date August 31, 2005	
		5. Docket or Reference No. 030-14718	
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. Cobalt-60	A. Sealed sources model designation AECL C- 146 or C-151 or Neutron Products, Inc. NPTT Series	A. 4000 curies per source	
B. Uranium depleted in Uranium-235	B. Solid Metal	B. 41 kilograms total possession limit	

9. Authorized Use:

- A. One source to be used in a an AECL Theratron 80 teletherapy unit for treatment of humans. One source in its shipping container to be in possession of the licensee as necessary to the replacement of the source in the teletherapy unit only.
- B. Shielding in a teletherapy unit.

CONDITIONS

10. Location of Use: Clinton Memorial Hospital, Room 0005, 610 W. Main Street, Wilmington, Ohio.
11. Radiation Safety Officer: James Patrick Havey, M.D.
12. A. Authorized Users: Rodney P. Geier, M.D., Richard L. Levy, M.D., Peter R. Fried, M.D., or Ralph J. Wright, III, M.D.
- B. Teletherapy Physicist: John B. Sweet, M.S.

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PDR ADDCK 03014718
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COPY

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2 ml
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**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number

34-18241-01

Docket or Reference Number

030-14718

Amendment No. 13

13. Notwithstanding other authorizations and requirements of this license, the licensee shall have the cobalt-60 source described in Subitem 7.A. of this license removed from the teletherapy head and returned to the supplier if the radiation levels permitted by Section 35.641 of 10 CFR Part 35 are exceeded.
14. The licensee is exempted from decommissioning financial assurance requirements for possession of licensed material in sealed sources in quantities greater than the limits of 10 CFR 30.35(d) for the purpose of source changes only. This exemption is granted for no more than 30 days for any one source change.
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 10, 1995.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date

8/28/96

By

James Mullauer
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: 02300
STATUS CODE: 0
FEE CATEGORY: 7A 2B
EXP. DATE: 20050331
FEE COMMENTS: CODE 13
DECOM FIN ASSUR REQD: N
.....

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED
APPLICANT/LICENSEE: CLINTON MEMORIAL HOSPITAL
RECEIVED DATE: 960808
DOCKET NO: 3014718
CONTROL NO.: 301703
LICENSE NO.: 34-18241-01
ACTION TYPE: AMENDMENT

2. FEE ATTACHED

AMOUNT:
CHECK NO.:

3. COMMENTS

SIGNED
DATE

Marcia [Signature]
8/9/96

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED) ✓

1. FEE CATEGORY AND AMOUNT: 7A 2B \$470

2. CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR:

AMENDMENT ✓
RENEWAL
LICENSE

3. OTHER

SIGNED
DATE

SC 10/8/96

OCT 28 1996

Log	Aug 7 70
Remitter	
Check No.	124182 / 124986
Amount	\$440 \$30
Fee Category	7A 2B
Type of Fee	Amnd
Date Check Rec'd	10/8/96
Date Completed	
By:	SC

1996 AUG 12 PM 3:53

LICENSE FEE REQUIREMENTS

LICENSE FEE AND DEBT COLLECTION BRANCH
DIVISION OF ACCOUNTING AND FINANCE
OFFICE OF THE CONTROLLER
U.S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555-0001CLINTON MEMORIAL HOSPITAL
ATTN: J. PATRICK HAVEY, M.D.
RADIOLOGY MEDICAL DIRECTOR
610 WEST MAIN STREET
WILMINGTON, OHIO 45177

TYPE OF ACTION

- ☐ NEW LICENSE
☐ RENEWAL OF LICENSE
☒ AMENDMENT TO LICENSE

REQUESTED DATE

7-16-96

LICENSE NUMBER

34-18241-01

CONTROL NUMBER

301703

I. APPLICATION FEE DUE

Your request for a licensing action is subject to the fee(s) in the category(ies) noted below in accordance with Section 170.31 of the enclosed Federal Register notice. Payment of the fee is required prior to the issuance of the license, renewal, or amendment.

FEE CATEGORY	APPLICATION	RENEWAL	AMENDMENT
7C	\$	\$	\$ 440.00
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$

FEE(s) DUE	\$	440.00
PAYMENT RECEIVED	\$	0.00
AMOUNT DUE	\$	440.00

☒ Your request was received without the prescribed application fee.

☐ We received your Check No. _____ in the amount of \$ _____. Payment of the additional fee noted above is required.

☐ Your request will increase the scope of your license program. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(d)(2).

☐ Your license expired prior to the receipt of your application for renewal. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(a).

MAKE PAYMENT OF THE FEE(S) TO THE U.S. NUCLEAR REGULATORY COMMISSION AND MAIL THE PAYMENT TO THE ADDRESS LISTED AT THE TOP OF THIS FORM. IF WE DO NOT RECEIVE A REPLY FROM YOU WITHIN 30 CALENDAR DAYS FROM THE DATE LISTED BELOW, WE SHALL ASSUME THAT YOU DO NOT WISH TO PURSUE YOUR APPLICATION AND WILL VOID THIS ACTION.

SIGNATURE - LICENSE FEE ANALYST

LFDCB

LFDCB

SHIRLEY CRUTCHFIELD

8/15/95

II. FEE NOT REQUIRED

☐ Enclosed is Check No. _____ which accompanied your request. The fee is not required because:

☐ We received your Check No. _____ in payment of the fee.

☐ The Licensing staff has informed us that your request is to be considered as a continuation of your request dated _____, Control No. _____.

☐ Your request was combined, prior to review, with your _____ request, Control No. _____.

III. CHECK RETURNED

☐ Enclosed is Check No. _____ which was returned to us by the bank for:

- ☐ INSUFFICIENT FUNDS
☐ ACCOUNT CLOSED
☐ OTHER

MAIL THE REPLACEMENT CHECK TO THE ADDRESS LISTED AT THE TOP OF THIS FORM AND REFERENCE THE ABOVE CONTROL NUMBER.

IV. LICENSE ISSUED WITHOUT THE REQUIRED FEE

☐ License No. _____, Amendment No. _____, issued on _____ was issued without the required fee being collected. The fee required is noted in Section I of this form.

☐ The scope of your licensed program was increased. Therefore, your request is subject to the application fee(s) noted in Section I of this form. Refer to Section 170.31 and Footnote 1(d)(2).

☐ Because of the urgency of your request, the license was issued without remittance of the prescribed fee noted in Section I of this form.

Distribution:

Pending Fee File OC/DAF/SF(LF-3 2 7)

LFARB R/F (2)

Region 3

DATE

Aug. 15, 1996

LICENSE FEE REQUIREMENTS

LICENSE FEE AND DEBT COLLECTION BRANCH
DIVISION OF ACCOUNTING AND FINANCE
OFFICE OF THE CONTROLLER
U.S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555-0001CLINTON MEMORIAL HOSPITAL
ATTN: J. PATRICK HAVEY, M.D.
RADIOLOGY MEDICAL DIRECTOR
610 WEST MAIN STREET
WILMINGTON, OHIO 45177

TYPE OF ACTION

- ☐ NEW LICENSE
☐ RENEWAL OF LICENSE
☒ AMENDMENT TO LICENSE

REQUESTED DATE

7-16-96

LICENSE NUMBER

34-18241-01

CONTROL NUMBER

301703

I. APPLICATION FEE DUE

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FEE CATEGORY	APPLICATION	RENEWAL	AMENDMENT
7A	\$	\$	\$ 470.00
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$

FEE(s) DUE	\$	470.00
PAYMENT RECEIVED	\$	440.00
AMOUNT DUE	\$	30.00

☐ Your request was received without the prescribed application fee.

☒ We received your Check No. 124182 in the amount of \$ 440.00. Payment of the additional fee noted above is required.

☐ Your request will increase the scope of your license program. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(d)(2).

☐ Your license expired prior to the receipt of your application for renewal. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(a).

MAKE PAYMENT OF THE FEE(S) TO THE U.S. NUCLEAR REGULATORY COMMISSION AND MAIL THE PAYMENT TO THE ADDRESS LISTED AT THE TOP OF THIS FORM. IF WE DO NOT RECEIVE A REPLY FROM YOU WITHIN 30 CALENDAR DAYS FROM THE DATE LISTED BELOW, WE SHALL ASSUME THAT YOU DO NOT WISH TO PURSUE YOUR APPLICATION AND WILL VOID THIS ACTION.

SIGNATURE -- LICENSE FEE ANALYST

LFDCB

LFDCB

Shirley Crutchfield
SHIRLEY CRUTCHFIELD

10/9/96

Distribution:

Pending Fee File

FARB R/F (2)

OC/DAF/RF
OC/DAF/SF(LF-3.2.7)
Region 3

DATE

Oct. 9, 1996

LICENSE FEE REQUIREMENTS

LICENSE FEE AND DEBT COLLECTION BRANCH
DIVISION OF ACCOUNTING AND FINANCE
OFFICE OF THE CONTROLLER
U.S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555-0001CLINTON MEMORIAL HOSPITAL
ATTN: J. PATRICK HAVEY, M.D.
RADIOLOGY MEDICAL DIRECTOR
610 WEST MAIN STREET
WILIMINGTON, OHIO 45177DR. HARVEY: WE ARE IN NEED OF AN ADDITIONAL FEE OF \$30. THE FEE
AS QUOTED IN OUR 8/15/96, LETTER WAS INCORRECT. IT SHOULD'VE
STATED \$470 INSTEAD OF \$430 FOR THE 7A FEE CATEGORY.

TYPE OF ACTION

- ☐ NEW LICENSE
☐ RENEWAL OF LICENSE
☒ AMENDMENT TO LICENSE

REQUESTED DATE

7-16-96

LICENSE NUMBER

34-18241-01

CONTROL NUMBER

301703

I. APPLICATION FEE DUE

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license, renewal, or amendment.

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	\$	\$	\$
	\$	\$	\$
	\$	\$	\$

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PAYMENT RECEIVED	\$	440.00
AMOUNT DUE	\$	30.00

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\$ 440.00. Payment of the additional fee noted
above is required.☐ Your request will increase the scope of your license program.
Therefore, your request is subject to the application fee(s) noted above.
Refer to Section 170.31 and Footnote 1(d)(2).☐ Your license expired prior to the receipt of your application for renewal.
Therefore, your request is subject to the application fee(s) noted above.
Refer to Section 170.31 and Footnote 1(a).MAKE PAYMENT OF THE FEE(S) TO THE U.S. NUCLEAR
REGULATORY COMMISSION AND MAIL THE PAYMENT TO THE
ADDRESS LISTED AT THE TOP OF THIS FORM. IF WE DO NOT
RECEIVE A REPLY FROM YOU WITHIN 30 CALENDAR DAYS FROM
THE DATE LISTED BELOW, WE SHALL ASSUME THAT YOU DO NOT
WISH TO PURSUE YOUR APPLICATION AND WILL VOID THIS
ACTION.

SIGNATURE - LICENSE FEE ANALYST

LFDCB

LFDCB

SHIRLEY CRUTCHFIELD

9/16/96

II. FEE NOT REQUIRED

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request. The fee is not required because:☐ We received your Check No. _____ in payment of
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_____, Control No. _____☐ Your request was combined, prior to review, with your
request, Control No. _____

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☐ ACCOUNT CLOSED
☐ OTHER

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NUMBER.

IV. LICENSE ISSUED WITHOUT THE REQUIRED FEE

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collected. The fee required is noted in Section I of this form.☐ The scope of your licensed program was increased. Therefore, your
request is subject to the application fee(s) noted in Section I of this form.
Refer to Section 170.31 and Footnote 1(d)(2).☐ Because of the urgency of your request, the license was issued without
remittance of the prescribed fee noted in Section I of this form.

Distribution

Pending Fee File OC/DAF/SF(LF-3.2.7)

I.F.A.R.R. R/F (2)

Region 3

DATE

Sept. 16, 1996

July 16, 1996

U.S. Nuclear Regulatory Commission, Region 3
801 Warrenville Road
Lisle, Illinois 60532-4351



Dear Sir or Madame:

The following information is forwarded with regard to our Cobalt-60 Teletherapy Unit License (NRC 34-18241-01). Our present Teletherapy Physicist, James G. Kereiakes, Ph.D., will be retiring from active participation in our Teletherapy Physics Program. Mr. John Sweet, M.S., has been associated with Dr. Kereiakes for several years. His experience in the therapy physics area is described in the added supporting material.

We ask that Mr. Sweet be added to our teletherapy license as a Teletherapy Physicist. Should you require additional information, please contact John Giga, Radiology Administrator at 513-382-9455. Thank you.

Sincerely,

J. Patrick Havey, M.D.
Radiology Medical Director and RSO

cc: J. Giga
attachment

RECEIVED

AUG 8 - 1996

REGION III

AUG 8 1996

PM 8-8-96

DOCUMENTATION OF TELETHERAPY PHYSICIST QUALIFICATIONS

APPLICANT: JOHN B. SWEET, M.S.

ADDRESS: 416 DAVID LANE
MASON, OH 45040

DATE: JULY 31, 1996

EDUCATION: M.S. in Radiological Physics, University of Cincinnati, August 1989

TRAINING:

I have received several years of training in radiotherapy physics during my graduate work at the University of Cincinnati. This academic program has a strong clinical emphasis, and my primary emphasis was in radiotherapy. Course work toward the masters degree included radiotherapy physics, radiation biology, nuclear medicine physics, diagnostic radiology physics, and statistics. Additional course work toward a doctorate includes aspects of nuclear engineering, including reactor theory, radiation shielding, and environmental radioactivity concepts. Lab work included instruction in radiation safety, handling of radioactive materials, radiation measurements, quality assurance and calibration protocols for therapy units, use and interpretation of radiation dosimeters, and other topics. In addition, I was required to demonstrate clinical involvement in the activities of the radiation oncology department.

As a part of my "hands-on" training, I performed daily accelerator quality assurance checks, prepared treatment plans, prepared and analyzed *in vivo* dosimeters, reviewed patient calculations and treatment records, performed radiation calibrations and surveys, fabricated custom treatment devices, and attended occasional "chart rounds" and resident seminars.

WORK EXPERIENCE UNDER SUPERVISION OF TELETHERAPY PHYSICIST:

I have been deemed admissible to the American Board of Radiology examination Radiation Therapy Physics and will sit for the October 1996 examination in Chicago.

I have accumulated several years of full time equivalent work experience through my position as a half-time physics assistant at the Barrett Cancer Center at the University of Cincinnati Hospital from 1990-1992 and as a part time consulting physicist with Rad Physics since 1989. Specifics as they relate to the teletherapy physicist requirements are provided below.

I have been performing wipe tests on sealed sources since 1989. This experience includes more than sixty check sources wiped at six month intervals as well as a Co-60 teletherapy source and two Gd-153 bone densitometers. In addition, I performed quarterly surveys of the ambient dose rates in and around the brachytherapy source storage room for more than two years. This experience relates to 10CFR35.59.

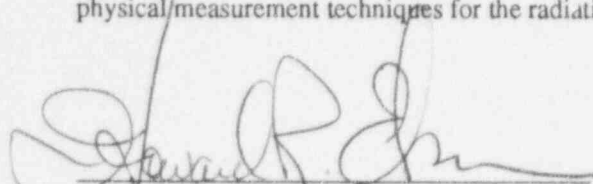
I have performed the full annual calibration for a Co-60 teletherapy unit at the University of Cincinnati following the requirements of 10CFR35.632. In addition, my experience at the university included active participation in the commissioning and acquisition of physics data for megavoltage linear accelerators and in routine quality assurance for these units.

I performed the monthly spot checks of a Co-60 teletherapy unit for more than two years following the requirements of 10CFR35.634.

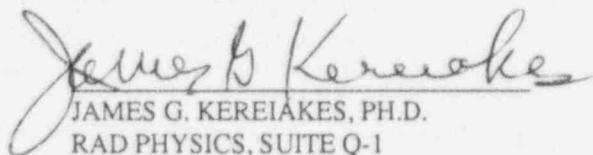
I have performed surveys of radiation dose rates in and around the Co-60 teletherapy room and also around linear accelerator vaults. This experience relates to the requirements of 10CFR35.641.

In addition, my experience under the supervision of senior physicists includes clinical activities and involvement in treatment planning for brachytherapy and external beam patients, chart checking and treatment plan review, design and fabrication of custom treatment devices, *in vivo* patient dosimetry, and a wide range of physical measurement techniques for the radiation therapy field.

SUPERVISORS:



HOWARD R. ELSON, PH.D.
C.M. BARRETT CANCER CENTER
UNIVERSITY OF CINCINNATI HOSPITAL
234 GOODMAN STREET
CINCINNATI, OH 45267-0757



JAMES G. KEREIAKES, PH.D.
RAD PHYSICS, SUITE Q-1
400 OAK STREET
CINCINNATI, OH 45219

JOHN B. SWEET, M.S.
416 David Lane
Mason, OH 45040-2117
(513) 398-4377 phone & fax

EDUCATION:

Ph.D. in Medical Physics, in progress
M.S. in Radiological Physics, August 1989
B.S. in Mathematics & Statistics, Engineering Physics, May 1987
Study abroad at Miami University European Center, Spring 1987

University of Cincinnati, Cincinnati, Ohio
University of Cincinnati, Cincinnati, Ohio
Miami University, Oxford, Ohio
Miami University, Luxembourg Campus

CERTIFICATION:

Admitted to 1996 examination by the American Board of Radiology: Therapeutic & Diagnostic Radiological Physics
Qualified Radiation Expert, State of Ohio (pending): Medical Therapeutic & Medical Diagnostic Radiation Physics
Have fulfilled training requirements for Teletherapy Physicist designation by NRC (10CFR35.9612)
Qualified under interim rules to perform mammographic surveys for FDA/State accreditation

WORK EXPERIENCE:

Radiologic Physicist (Rad Physics, 9/89-present)

My responsibilities in this position have been entirely in the medical setting with strong clinical emphasis on providing comprehensive quality assurance and regulatory compliance throughout more than ten radiology departments. Primary accomplishments include:

- Conducting acceptance testing and continuing quality assurance testing of 20 x-ray CT scanners
- Inspecting mammographic units according to ACR/FDA guidelines with ABR-certified physicist
- Independently inspecting diagnostic radiographic & fluoroscopic units for safety and regulatory compliance
- Providing backup service in absence of Radiation Safety Officer, Good Samaritan Hospital, NRC letter 3/25/96
- Calculating patient-specific whole-body and lesion retention times for quantitative I-131 therapy
- Performing, reviewing, and recommending continuing quality assurance testing for SPECT cameras
- Implementing a quality assurance program for ultrasound to meet current recommendations
- Performing compliance audits for nuclear medicine programs (NRC, OH, KY, EPA, DOT)
- Implementing program to evaluate compliance with EPA "Clean Air Act" for radioisotope emissions
- Checking teletherapy charts and treatment plans under supervision of teletherapy physicist
- Performing sealed source and area wipe tests (named on NRC license)
- Calculating doses from x-ray and nuclear medicine procedures and contamination incidents
- Assessing fluoroscopy patients' exposure levels in response to FDA advisories
- Innovatively using computer spreadsheets and dosimetry programs
- Reviewing hospital personnel dosimetry.

Physics Assistant, U.C. Radiology (C. M. Barrett Cancer Center, 6/90-6/92)

My experience in this position was entirely clinical in an expanding radiotherapy department. I assisted the responsible physicist throughout the acceptance testing of a Siemens Mevatron 74 linear accelerator with photon and electron capabilities and was responsible for acquisition and entry of the physics data necessary for the treatment planning computer. In addition, I measured the electron beam characteristics in the treatment plane for our total skin electron therapy protocol. I calibrated and characterized various therapy beams using ion chambers, diodes, film, and TLD chips, performed the full annual calibration and monthly spot checks of a Co-60 teletherapy unit, and conducted radiation safety surveys of the brachytherapy lab and source storage areas. I gained additional "hands-on" experience utilizing computerized treatment planning for external beam and brachytherapy patients, checking treatment parameters and calculations for radiotherapy patients, and constructing beam modifying devices (2D lead, 3D brass, custom blocks). My research interests included radiosurgery quality assurance, three-dimensional dosimetry, and physics training methods.

Graduate Research Assistant, U.C. Nuclear Engineering (3/89-6/90)
Graduate Assistant/Student Helper, U.C. Radiology (1987-1990)

Internal dosimetry & compartmental models
Various radiation oncology physics duties

PAPERS AND PRESENTATIONS:

- Sweet, JB, "A Tissue-Equivalent Chemical System for Measuring Two-Dimensional Radiation Distributions," Dissertation (in progress), University of Cincinnati
- Sweet, JB, "A Water-Equivalent Head Phantom for Stereotactic Radiosurgery," M.S. Thesis, University of Cincinnati, 1989
- Sweet, JB, "Quality Assurance for SPECT," Presentation to "Spring into '96 Continuing Education, Conference for Nuclear Medicine Professionals," Cincinnati, OH, April 20, 1996, approved for CME credit
- Sweet, JB, "Tissue-equivalent Dosimeter for Two-dimensional Radiation Dose Measurement," Presentation to Fall Meeting of the Ohio River Valley Chapter, AAPM, Cincinnati, OH, November 1995
- Sweet, JB and Lamba, MAS, "Alignment Verification in Stereotactic Radiosurgery with Use of Graphic Arts Film," Presentation to RSNA '90, paper #01268, Chicago, IL, 1990
- Cone, L, Zite, I, Kagan, R, Kereiakes, J, Sweet, J, Warden, G, "The Use of Bedside Fluoroscopy in the Placement of Nasoduodenal Feeding Tubes in Pediatric Burn Patients," Presentation to 26th Annual Meeting of American Burn Association, Cincinnati, OH, March 1993
- Sweet, JB, "Symmetries in European Architecture," Presentation to Pi Mu Epsilon State Conference, Oxford, OH, October 1987

PROFESSIONAL ASSOCIATIONS, HONORS, AND LEADERSHIP:

American Association of Physicists in Medicine
American Institute of Ultrasound in Medicine

Joseph M. DeNardi European Center Scholarship, Ashland Scholar Award, Harold McCord Scholarship, Jaycees Scholarship, PTA Scholarship, National Merit Commended Scholar, National Honor Society, Spanish National Honor Society

Eagle Scout, Alpha Phi Omega national service fraternity (VP of Campus Service), Sigma Pi Sigma physics honorary, Pi Mu Epsilon mathematics honorary (member of Student Advisory Board), Biometric Society, undergraduate representative to Physics Department, University Disciplinary Board, member of Student Summer Orientation Staff, Stanton Hall Treasurer

CONTINUING EDUCATION:

- 1995 AAPM Summer School, "Medical Computed Tomography and Ultrasound: Current Technology and Applications," June 25-29, 1995, New London, CT (30 Medical Physics CME credits)
- U.C. Radiological Sciences "hands-on" laboratory session for mammographic physics QA, 1994
- RSNA '92, Annual Meeting of the Radiological Society of North America, Chicago, IL, Refresher Courses and Scientific (Sessions attended: Diagnostic Ultrasound Principles and Equipment Comparison, QA for Diagnostic Imaging and Radiation Oncology Services, Principles of Spectral and Color Flow Doppler Ultrasound, Technical Aspects of Breast Imaging: Accreditation and QC, Determination of Entrance Skin Exposure, Management of Radiation in Diagnostic Medical Imaging, Radiation Design Criteria for Diagnostic X-ray Facilities, Radiobiology.... Time, Dose, Fractionation)
- AAPM '90, Annual Meeting of the American Association of Physicists in Medicine, July 1990, St. Louis, MO
- RSNA '89, Annual Meeting of the Radiological Society of North America, Chicago, IL
- AAPM '89, Annual Meeting of the American Association of Physicists in Medicine, July 1989, Memphis, TN
- RSNA '88, Annual Meeting of the Radiological Society of North America, Chicago, IL

REFERENCES:

Available upon request

OCT 23 1996

J. Patrick Havey, M.D.
Radiation Safety Officer
Clinton Memorial Hospital
Radiology Services Department
610 W. Main Street
Wilmington, OH 45177

Dear Dr. Havey:

Enclosed is Amendment No. 13 to your NRC Material License No. 34-18241-01 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 also note that the expiration date on your NRC license was extended 5 years in accordance with 10 CFR 30.36(2) and now reads August 31, 2005.

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).

301703

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

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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
James R. Mullauer, M.H.S.
Health Physicist
Nuclear Materials Licensing Branch

License No. 34-18241-01
Docket No. 030-14718

Enclosure: Amendment No. 13

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