

**WASHINGTON
UNIVERSITY
SCHOOL OF
MEDICINE**

AT WASHINGTON UNIVERSITY MEDICAL CENTER

DIVISION OF
RADIATION SAFETY

December 28, 1984

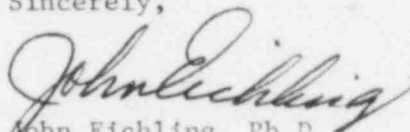
Cheryl Phillips
License Fee Management Branch
Office of Administration
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Reference: Control Number 77806

Dear Ms. Phillips:

Enclosed is a check in the amount of \$220 submitted as the remaining payment of the fees required to amend two teletherapy licenses -- Materials Licenses 24-00063-08 and 24-00063-10 issued to Washington University of St. Louis, Missouri. (Refer to enclosed copy of a letter from Glenda Jackson of your office.) Thank you.

Sincerely,


John Eichling, Ph.D.

8510040135 850828
REG3 LIC30
24-00063-08 PDR

Box 8053
724 S. Euclid Avenue
St. Louis, Missouri 63110
(314) 362-3476

Talked to Glenda Jackson ⁰⁸⁰⁸ January 7, 1985,
fee for Washington Univ School of Med
24-00063-08, Contract No. 77806
has been paid -

Mike McLann



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION III
799 ROOSEVELT ROAD
GLEN ELLYN, ILLINOIS 60137

*appropriate
fee pd for
C/N. 77805.
it was sent to
Reg III 11/28/84*

BETWEEN: William O. Miller, Chief
License Fee Management Branch
Office of Administration

Regional License Section
Material Licensing Branch
FCMS, Office of Nuclear Material
Safety & Safeguards

LICENSE FEE TRANSMITTAL

A. REGION III

1. APPLICATION ATTACHED

Applicant/Licensee: Washington University School of Medicine
Application Dated: November 9, 1984
Control No.: CONTROL NO. 77806
License No.: 24-00063-08

2. FEE ATTACHED

Amount: 240⁰⁰ } *see C/N 77805 11/26 \$220*
Check No.: 415876 } *for check add'l fee*
all

3. COMMENTS

\$230 applied to C/N 77805 7A

Signed B. Schulte

Date 11/20/84

B. LICENSE FEE MANAGEMENT BRANCH

1. Fee Category and Amount: 7 PHOT #220

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

Amendment

Renewal

License

Signed D. Zolner

Date 1/13/85

JAN 8 1985

7th
0 0300

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE

AT WASHINGTON UNIVERSITY MEDICAL CENTER

DIVISION OF
RADIATION SAFETY

Radiology Dept. Box 8131
660 South Euclid
St Louis 63110

030-10094
24-00063-03
EX 5/31/86
A (I.E.)

November 9, 1984

Bruce Mallett, Ph.D., Chief
Regional Licensing Section
Division of Fuel Cycle & Material Safety
U.S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Reference: USNRC License Numbers
24-00063-08 & 24-00063-10

Dear Dr. Mallett:

The purpose of this correspondence is to request the U.S. Nuclear Regulatory Commission to amend Condition 12 of the **two** Washington University Medical Center (St. Louis, Missouri) **teletherapy** licenses (24-00063-08 & 24-00063-10) to authorize Robert J. Myerson, M.D., and Robert R. Kuske, M.D., to use the licensed material **in addition** to the physicians who are certified by the American Board of Radiology in Radiology or Therapeutic Radiology and who have been approved by the licensee's Radiation Safety Committee. (The name of the institutional radiation committee has been recently changed to Radiation Safety Committee; previously, the name was the Radiation Hazards Committee).

Information regarding the training and experience of Drs. Kuske & Myerson as well as letters of recommendation from the institutions where they received their radiation oncology training are enclosed in duplicate.

A check in the amount of \$240 for the 2 amendments is also enclosed.

Sincerely,

John Eichling
John Eichling, Ph.D.
Radiation Safety Officer
Washington University &
Affiliated Institutions

JE:fiw

enclosures

~~DUP~~
8509/20127

RECEIVED

NOV 15 1984

REGION III

CONTROL NO. 77806

7/2-19 III

Box 8131

510 S. Kingshighway

St. Louis, Missouri 63110

(314) 362-2988

Applicant
Check No.	458716 (240)/509309
Amount, Fee Category	240 + 2030
Type of Fee	Amendment
Date Check Rec'd	11/85
Received By	CAP/14/10

PRECEPTOR STATEMENT

Supplement B must be completed by the applicant physician's preceptor. If more than one preceptor is necessary to document experience, obtain a separate statement from each.

1. APPLICANT PHYSICIAN'S NAME AND ADDRESS

FULL NAME

Robert J. Myerson, M.D.

STREET ADDRESS

4511 Forest Park Blvd., Suite 311

CITY

St. Louis,

STATE

MO

ZIP CODE

63108

KEY TO COLUMN C

PERSONAL PARTICIPATION SHOULD CONSIST OF:

- 1-Supervised examination of patients to determine the suitability for radioisotope diagnosis and/or treatment and recommendation for prescribed dosage.
- 2-Collaboration in dose calibration and actual administration of dose to the patient including calculation of the radiation dose, related measurements and plotting of data.
- 3-Adequate period of training to enable physician to manage radioactive patients and follow patients through diagnosis and/or course of treatment.

2. CLINICAL TRAINING AND EXPERIENCE OF ABOVE NAMED PHYSICIAN

ISOTOPE A	CONDITIONS DIAGNOSED OR TREATED B	NUMBER OF CASES INVOLVING PERSONAL PARTICIPATION C	COMMENTS (Additional information or comments may be submitted in duplicate on separate sheets.) D
I-131 or I-125	DIAGNOSIS OF THYROID FUNCTION		
	DETERMINATION OF BLOOD AND BLOOD PLASMA VOLUME		
	LIVER FUNCTION STUDIES		
	FAT ABSORPTION STUDIES		
	KIDNEY FUNCTION STUDIES		
	IN VITRO STUDIES		
OTHER			
I-125	DETECTION OF THROMBOSIS		
I-131	THYROID IMAGING		
P-32	EYE TUMOR LOCALIZATION		
Se-75	PANCREAS IMAGING		
Yb-169	CISTERNOGRAPHY		
Xe-133	BLOOD FLOW STUDIES AND PULMONARY FUNCTION STUDIES		
OTHER			
Tc-99m	BRAIN IMAGING		
	CARDIAC IMAGING		
	THYROID IMAGING		
	SALIVARY GLAND IMAGING		
	BLOOD POOL IMAGING		
	PLACENTA LOCALIZATION		
	LIVER AND SPLEEN IMAGING		
	LUNG IMAGING		
	BONE IMAGING		
OTHER			

PRECEPTOR STATEMENT (Continued)

2. CLINICAL TRAINING AND EXPERIENCE OF ABOVE NAMED PHYSICIAN (Continued)

ISOTOPE A	CONDITIONS DIAGNOSED OR TREATED B	NUMBER OF CASES INVOLVING PERSONAL PARTICIPATION C	COMMENTS (Additional information or comments may be submitted in duplicate on separate sheets.) D
P-32 (Soluble)	TREATMENT OF POLYCYTHEMIA VERA, LEUKEMIA, AND BONE METASTASES		
P-32 (Colloidal)	INTRACAVITARY TREATMENT		
I-131	TREATMENT OF THYROID CARCINOMA		
	TREATMENT OF HYPERTHYROIDISM		
Au-198	INTRACAVITARY TREATMENT	1	
Co-60 or Cs-137	INTERSTITIAL TREATMENT		
	INTRACAVITARY TREATMENT	10	
I-125 or Ir-192	INTERSTITIAL TREATMENT	17	
Co-60 or Cs-137	TELETHERAPY TREATMENT	50	
Sr-90	TREATMENT OF EYE DISEASE		
	RADIOPHARMACEUTICAL PREPARATION		
Mo-99/ Tc-99m	GENERATOR		
Sn-113/ In-113m	GENERATOR		
Tc-99m	REAGENT KITS		
Other			

3. DATES AND TOTAL NUMBER OF HOURS RECEIVED IN CLINICAL RADIOISOTOPE TRAINING

4. THE TRAINING AND EXPERIENCE INDICATED ABOVE
WAS OBTAINED UNDER THE SUPERVISION OF:

a. NAME OF SUPERVISOR

b. NAME OF INSTITUTION *Dept. of Radiation**Therapy, Hosp. Univ. of Pennsylvania*

c. MAILING ADDRESS

3400 Spruce ST

d. CITY

Philadelphia, PA 19104

5. MATERIALS LICENSE NUMBER(S)

37-118-07 Exp. Date Aug '88

6. PRECEPTOR'S SIGNATURE

James M. Galvin

7. PRECEPTOR'S NAME (Please type or print)

James M. Galvin

8. DATE

Sept 27, 1984

TRAINING AND EXPERIENCE
AUTHORIZED USER OR RADIATION SAFETY OFFICER

1. NAME OF AUTHORIZED USER OR RADIATION SAFETY OFFICER

Robert J. Myerson

2. STATE OR TERRITORY IN

WHICH LICENSED TO

PRACTICE MEDICINE

Pennsylvania; Missouri

3. CERTIFICATION

SPECIALTY BOARD
ACATEGORY
BMONTH AND YEAR CERTIFIED
CBoard Eligible
Radiation Therapy

4. TRAINING RECEIVED IN BASIC RADIOISOTOPE HANDLING TECHNIQUES

FIELD OF TRAINING A	LOCATION AND DATE(S) OF TRAINING B	TYPE AND LENGTH OF TRAINING	
		LECTURE/ LABORATORY COURSES (Hours) C	SUPERVISED LABORATORY EXPERIENCE (Hours) D
a. RADIATION PHYSICS AND INSTRUMENTATION	Department of Radiation Therapy, Hospital of the Univ. of PA 7/81-6/84	40	40
b. RADIATION PROTECTION	" "	20	
c. MATHEMATICS PERTAINING TO THE USE AND MEASUREMENT OF RADIOACTIVITY	" "	20	
d. RADIATION BIOLOGY	" "	20	
e. RADIOPHARMACEUTICAL CHEMISTRY	" "	10	

5. EXPERIENCE WITH RADIATION. (Actual use of Radioisotopes or Equivalent Experience)

ISOTOPE	MAXIMUM AMOUNT	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE	TYPE OF USE
Ir ¹⁹²	75 mg Radium Equivalents	Hospital of the Univ. of Pennsylvania & American Oncologic Hospital	7/81 - 6/84	Implants for breast, head & neck, and anal carcinoma
I ¹²⁵	35 m Ci	" "	" "	Prostate Implant
Cs ¹³⁷	80 mg Radium Equivalents	" "	" "	Gynecologic Intracavitary Treatment



UNIVERSITY of PENNSYLVANIA

SCHOOL OF MEDICINE

DEPARTMENTS OF RADIATION THERAPY

University of Pennsylvania
and
The Fox Chase Cancer Center

Mailing Address:

Hospital of the University of Pennsylvania
3400 Spruce Street
Philadelphia, Pennsylvania 19104

(215) 662- 6204/3084

Physics Section

Peter Bloch, Ph. D. - Director
James M. Galvin, D.Sc.
Ronald D. Larsen, Ph.D.
James C.H. Chu, Ph.D.
Marc R. Sontag, Ph.D.
Martin D. Altschuler, Ph.D.
V.K. Prasanna Kumar, Ph.D.

22nd October 1984

John Eichling, Ph.D.
Radiation Safety Officer
Mallinckrodt Institute of Radiology
St. Louis, Missouri

Dear Dr. Eichling:

I am writing at this time to recommend Dr. Robert Myerson as a user of radioactive materials at your institution. It is my opinion that Bob's training in the use of sealed sources for therapeutic purposes is sufficient to allow him to carry out these duties independently. I would rate Bob's understanding of the clinical aspects of brachytherapy as superior. Also, evidently due to his strong background in physics, his grasp of radiation safety is excellent. I would recommend him without hesitation.

Please let me know if any additional information is needed.

Sincerely,

James M. Galvin, D.Sc.

JMG/amr
cc:

PRECEPTOR STATEMENT

Supplement B must be completed by the applicant physician's preceptor. If more than one preceptor is necessary to document experience, obtain a separate statement from each.

1. APPLICANT PHYSICIAN'S NAME AND ADDRESS

FULL NAME

Robert R. Kuske, M.D.

STREET ADDRESS

4554 Laclede Ave., #304

CITY

St. Louis

STATE

MO

ZIP CODE

63108

KEY TO COLUMN C

PERSONAL PARTICIPATION SHOULD CONSIST OF:

- 1-Supervised examination of patients to determine the suitability for radioisotope diagnosis and/or treatment and recommendation for prescribed dosage.
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- 3-Adequate period of training to enable physician to manage radioactive patients and follow patients through diagnosis and/or course of treatment.

2. CLINICAL TRAINING AND EXPERIENCE OF ABOVE NAMED PHYSICIAN

ISOTOPE A	CONDITIONS DIAGNOSED OR TREATED B	NUMBER OF CASES INVOLVING PERSONAL PARTICIPATION C	COMMENTS (Additional information or comments may be submitted in duplicate on separate sheets.) D
I-131 or I-125	DIAGNOSIS OF THYROID FUNCTION		
	DETERMINATION OF BLOOD AND BLOOD PLASMA VOLUME		
	LIVER FUNCTION STUDIES		
	FAT ABSORPTION STUDIES		
	KIDNEY FUNCTION STUDIES		
	IN VITRO STUDIES		
OTHER			
I-125	DETECTION OF THROMBOSIS		
I-131	THYROID IMAGING		
P-32	EYE TUMOR LOCALIZATION		
Se-75	PANCREAS IMAGING		
Yb-169	CISTERNOGRAPHY		
Xe-133	BLOOD FLOW STUDIES AND PULMONARY FUNCTION STUDIES		
OTHER			
Tc-99m	BRAIN IMAGING		
	CARDIAC IMAGING		
	THYROID IMAGING		
	SALIVARY GLAND IMAGING		
	BLOOD POOL IMAGING		
	PLACENTA LOCALIZATION		
	LIVER AND SPLEEN IMAGING		
	LUNG IMAGING		
	BONE IMAGING		
OTHER			

2. CLINICAL TRAINING AND EXPERIENCE OF ABOVE NAMED PHYSICIAN (Continued)

ISOTOPE A	CONDITIONS DIAGNOSED OR TREATED B	NUMBER OF CASES INVOLVING PERSONAL PARTICIPATION C	COMMENTS (Additional information or comments may be submitted in duplicate on separate sheets.) D
P-32 (Soluble)	TREATMENT OF POLYCYTHEMIA VERA, LEUKEMIA, AND BONE METASTASES	2	BONE METASTASES FROM PROSTATE CANCER OVARY CANCER
P-32 (Colloidal)	INTRACAVITARY TREATMENT	3	
I-131	TREATMENT OF THYROID CARCINOMA	1	
	TREATMENT OF HYPERTHYROIDISM		
Au-198	INTRACAVITARY TREATMENT		CANCER CERVIX AND ENDOMETRIUM PROSTATE CANCER BREAST CANCER VARIOUS TUMORS PTERYGIUM
Co-60 or Cs-137	INTERSTITIAL TREATMENT		
	INTRACAVITARY TREATMENT	39	
I-125 or Ir-192	INTERSTITIAL TREATMENT	3 14	
	TELETHERAPY TREATMENT	360	
Sr-90	TREATMENT OF EYE DISEASE	3	
	RADIOPHARMACEUTICAL PREPARATION		
Mo-99/ Tc-99m	GENERATOR		
Sn-113/ In-113m	GENERATOR		
Tc-99m	REAGENT KITS		
Other			

3. DATES AND TOTAL NUMBER OF HOURS RECEIVED IN CLINICAL RADIOISOTOPE TRAINING

JULY 1 1981 - JUNE 30 1984

135 HRS.

4. THE TRAINING AND EXPERIENCE INDICATED ABOVE WAS OBTAINED UNDER THE SUPERVISION OF:

a. NAME OF SUPERVISOR

Bernard S. Aron, M.D., FACR

b. NAME OF INSTITUTION

Division of Radiation Oncology
University Hospital

c. MAILING ADDRESS

234 Goodman Street

d. CITY

Cincinnati, Ohio 45267-0757

5. MATERIALS LICENSE NUMBER(S)

6. PRECEPTOR'S SIGNATURE

Bernard S. Aron M.D., FACR

7. PRECEPTOR'S NAME (Please type or print)

Bernard S. Aron, M.D., FACR

8. DATE

9/12/84

TRAINING AND EXPERIENCE
AUTHORIZED USER OR RADIATION SAFETY OFFICER

1. NAME OF AUTHORIZED USER OR RADIATION SAFETY OFFICER ROBERT ROYMOND KUSKE, JR. M.D.		2. STATE OR TERRITORY IN WHICH LICENSED TO PRACTICE MEDICINE CHIC & Missouri		
3. CERTIFICATION				
SPECIALTY BOARD A	CATEGORY B	MONTH AND YEAR CERTIFIED C		
Therapeutic Radiology		Board Eligible (EXAMINATION SPRING '85)		
4. TRAINING RECEIVED IN BASIC RADIOISOTOPE HANDLING TECHNIQUES				
FIELD OF TRAINING A	LOCATION AND DATE(S) OF TRAINING B	TYPE AND LENGTH OF TRAINING		
		LECTURE/ LABORATORY COURSES (Hours) C	SUPERVISED LABORATORY EXPERIENCE (Hours) D	
a. RADIATION PHYSICS AND INSTRUMENTATION	UNIVERSITY OF CINCINNATI COLLEGE OF MEDICINE - Radiology Dept.	100	100	
b. RADIATION PROTECTION	UNIV. OF CINCINNATI	40	10	
c. MATHEMATICS PERTAINING TO THE USE AND MEASUREMENT OF RADIOACTIVITY	UNIV. OF CINCINNATI	100	100	
d. RADIATION BIOLOGY	UNIV. OF CINCINNATI	100	100	
e. RADIOPHARMACEUTICAL CHEMISTRY	UNIV. OF CINCINNATI	10	10	
5. EXPERIENCE WITH RADIATION. (Actual use of Radioisotopes or Equivalent Experience)				
ISOTOPE	MAXIMUM AMOUNT	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE	TYPE OF USE
Co^{60} Au^{198} Cr^{51} Ru^{106} Fr^{192} I^{125} P^{32}	$\approx 6000 Ci^*$ 50 mCi 200 μ Ci 50 mCi 25 mCi 15 mCi	UNIV. OF CINCINNATI	6/81 - 6/84	pt. treatment

University of Cincinnati
Medical Center



College of Medicine

Division of Radiation Oncology
University of Cincinnati Hospital

Mail Location 757
234 Goodman Street
Cincinnati, Ohio 45267
Phone (513) 872-4775

September 17, 1984

John Eichling, M.D.
Radiation Safety
X-Ray
Mallinckrodt Inst. of Radiology
510 S. Kingshighway
St. Louis, MO 63110

RE: Robert R. Kuske, M.D.

Dear Dr. Eichling:

Dr. Kuske completed a three-year residency program in Radiation Oncology in June, 1984. This is to advise that Dr. Kuske is qualified in the use of radioisotopes.

Sincerely,

A handwritten signature in cursive script, likely belonging to Bernard S. Aron.

Bernard S. Aron, M.D., FACR
Director, Division of Radiation Oncology

BSA/jr

encl.

CONTROL NO. 77806