

THE GEORGE WASHINGTON UNIVERSITY MEDICAL CENTER

Washington, D.C. 20037

September 13, 1988

U.S. Nuclear Regulatory Commission Materials License Division 475 Allendale Road King of Prussia, Pennsylvania 19406

Sir:

We would like to amend our Broad License (# 08-00216-22), our Irradiator License (# 08-00216-23) and our Pacemaker License (# SN 1099) to reflect the departure of Mark Selikson, Ph.D. as Radiation Safety Officer. Brian L. Miller, Assistant Radiation Safety Officer, will be acting Radiation Safety Officer. Attached is his current curriculum vitae. Dr. Alan Wasserman, Chairman of the Radiation Safety Committee for .2 Pears ... will continue to provide overall program direction. In particular he will interface with faculty and staff concerning program policy issues.

Please contact me on 994-2995 if there are any questions or if you need further information.

Sincerely

Michael J. Jackson, Ph.D. Associate Dean of Research George Washington University Medical Center

MJ/gjh(M5)

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Office of Research and Sponsored Programs 2300 Eye Street, N.W. 202-676-2995

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Brian L. Miller 14100 Weeping Willow Drive, #22 Silver Spring, Maryland 20906 301-871-5912 George Washington University Medical Center Radiation Safety Office 2300 K Street, N.W., #201 Washington, D.C. 20037 202-994-2630

EMPLOYMENT:

1. 1. 1

November 1987 to Present	Assistant Radiation Safety Officer George Washington University Medical Center
	Responsible for the day to day maintenance of GWUMC's {a large medical and research, broad license facility} Radiation Safety program. Supervision of full time technical staff and part time support personnel. Development of new procedures and continuing review of existing procedures to ensure compliance with applicable federal and local regulations.
August 1987 to Present	Consulting Health Physicist Krueger-Gilbert Health Physics, Inc.
	Perform x-ray compliance tests. Review and generate survey protocols for clinical nuclear medicine and radiology clients. Assisted in the design of KGHP, Inc.'s radioactive material storage area. Assisted in protocol development for the counting of sealed source leak tests. Presently developing proceedures for and assuming complete control of a Radon Testing Devision for Krueger-Gilbert Health Physics, Inc.
January 1987 to November 1987	Health Physics Technologist Health Physics Services, Inc.
	Assisted the Washington Hospital Center Radiation Safety Officer and the on-site Health Physicist in maintaining the Radiation Safety program. Responsible for daily and weekly surveys of the Nuclear Medicine Department and related areas. Duties also included: monthly survey of the Hyman Research Building, operating and maintaining records for the personnel monitoring program, assisting with x-ray compliance testing and assuring proper radioactive waste disposal. The Washington Hospital Center is a large medical user of radioisotopes licensed by the N.R.C. under 10 CFR 35. The Hospital Center uses these isotopes for diagnosis, teletherapy, nuclear pacemakers, and limited research.
September 1986 to January 1987	Laboratory Aid National Health Laboratories
	Aided Radio-Immunoassay Technicians in performing blood tests using radioactive labeling techniques. Duties included: Pipetting, operation of gamma counters, data entry, verification of results, performing T ₃ , T ₄ and T ₇ tests and documenting Quality Assurance and Control.
TECHNICAL:	
July 1987 to Present	Computerized Health Physics System
	Presently developing a computerized system to assist Health Physicists in performing routine tasks such as: X-ray shielding requirements, x-ray and radionuclide dose estimates, x-ray compliance tests and personnel dosimetry.

TECHNICAL: (continued)

January 1984 to May 1984

Remote Radiation Detection Project

Responsible for designing and constructing a machine language controlled system enabling the Hero-I robot to recognize and pinpoint radiation sources. Ability to trouble-shoot pre-existing and self-designed hardware and software required. The capacity to change signals from digital to analog and from analog to digital formats essential.

EDUCATION:

University of Pittsburgh Pittsburgh, PA:

Earned 13 credits toward a M.S. in Health Physics GPA:

3.00

Related Courses: Nuclear Regulatory Concerns and Medical Physics, Radiochemical Analysis, Environmental Radiation Analysis, Biological Effects of Non-ionizing Radiation.

Pennsylvania State University University Park, PA:

B.S. in Engineering Major: Nuclear Engineering

Graduated: August 1984

Related Courses: Radiological Safety, Computer Control of Mechanical Systems, Reactor Design.

Member of Alpha Lambda Delta (Freshman Honors Fraternity)

NRC FOR	AUTHOR	TF	AINING AND EXPERIE	NCE	LEAR REGULATO	RY COMMISSIC	
1 NAME OF AUTHORIZED USER OR RADIATION SAFETY OFFICER Brian L. Miller					2. STATE OR TERRITORY IN WHICH LICENSED TO PRACTICE MEDICINE		
			3. CERTIFICATION		-l		
SPECIALTY BOARD			CATEGOR	Y	MONTH AND YEAR CERTIFIED		
	4. TRAININ	G RECEIV	ED IN BASIC RADIOISOTO	PE HANDLING T	ECHNIQUES		
Startes S.					TYPE AND LENGTH OF TRAINING		
•	FIELD OF TRAINING		LOCATION AND DATE IS	OF TRAINING	LECTURE/ LABORATORY COURSES (Hours) C	SUPERVISED LABORATORY EXPERIENCE (Hours) D	
	DIATION PHYSICS AND TRUMENTATION		See Attachmen	t I			
b. RAI	DIATION PROTECTION		See Attachmen	t I			
TH	THEMATICS PERTAINING E USE AND MEASUREMEN RADIOACTIVITY	TO	See Attachmen	t I .			
d. RAI	DIATION BIOLOGY		See Attachmen	: I			
e. RA Chi	DIOPHARMACEUTICAL EMISTRY		See Attachmen	t I			
	5. EXPERIENCE	WITH RA	DIATION. (Actual use of Re	dioisotopes or Eq	uivalent Experience	•)	
SOTOPE	MAXIMUM AMOUNT	WHERE	EXPERIENCE WAS GAINED	DURATION OF	EXPERIENCE	TYPE OF USE	
		SEE	ATTACHMENT II .				

4 -- TRAINING RECEIVED IN BASIC RADIOISOTOPE HANDLING TECHNIQUES

FIELD OF TRAINING	LOCATION & DATES OF TRAINING	TYPE & LENGTH OF TRAINING		
		LECTURE/ LABORATORY COURSES (HOURS)	SUPERVISED LABORATORY EXPERIENCE (HOURS)	
RADIATION PHYSICS AND INST- RUMENTATION	The Pennsylvania State University The University of Pittsburgh	15 Semester Hours (approx. 225 hours) 3 Semester Hours (approx. 45 hours)	3 Semester Hours (approx. 45 hours)	
RADIATION PROTECTION	The Pennsylvania State University The University of Pittsburgh	6 Semester Hours (approx. 90 hours) 3 Semester Hours (approx. 45 hours)		
MATHEMATICS PERTAINING TO THE USE AND MEASURE- MENT OF RADIOACT- TIVITY	The Pennsylvania State University The University of Pittsburga	6 Semester Hours (approx. 90 hours) 3 Semester Hours (approx. 45 hours)		
RADIATION BIOLOGY	The Pennsylvania State University The University of Pittsburgh	3 Semester Hours (approx. 45 hours) 3 Semester Hours (approx. 45 hours)		
RADIOPHARM- ACEUTICAL CHEMISTRY	The University of Pittsburgh	3 Semester Hours (approx. 45 hours)	1 Semester Hour (approx. 15 hours)	

Brian L. Miller

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#	5	••	EXPERIENCE	WITH	RADIATION	

ISOTOPE	MAXIMUM AMOUNT	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE	TYPE OF USE
235U & 238U	Amounts associated w/ a TRIGA Reactor	The Pennsylvania State University Breazalle Research Reactor	9/82 - 8/84	Operation of and Experiments with a TRIGA type research reactor
Nat U	2500 kg	The Pennsylvania State University Graphite Pile Sub-Critical Reactor	9/83 - 12/83	Experimentation with Subcritical Reactor
PuBe	16 x 4g	The Pennsylvania State University	9/83 - 12/83	Same as Above
Th, U, Pu	μCi amts.	The University of Pittsburgh	9/85 - 12/86	Radiochemical analysis of reactor coolant sludge.
1251	5 mCi (RIA Kits)	National Health Laboratories Vienna Virginia	8/86 - 1/87	RIA (T2, T3, T4) Tests
99Mo - 99mTc	5 to 10 Ci	The Washington Hospital Center Washington D.C.	1/87 - 11/87	Radiation Safety Tests associated with Technetium Generators
137Cs	25 - 70 mCi	Same as above	Same as above	Radiation Safety Tests associated with Brachy Therapy
1311	150 mCi	Same as above	Same as above	Radiation Safety Tests associated with Thyroid ablation Therapy
1251	250 mCi	Same as above	Same as above	Radiation Safety Tests associated with Bone Densitometers.
137Cs	100 mCi	The George Washington University Medical Center	11/87 - Present	Surveymeter Calib. Source
153Gd	1 Ci	Same as above	Same as above	Radiation Safety proc. associated with a Bone mineral analyser
137Cs	2 kCi	Same as above	Same as above	Radiation Safety proc. associated with irradiators.

Department of Medicine Division of Cardiology (202) 994-0213



THE GEORGE WASHINGTON UNIVERSITY MEDICAL CENTER

The H. B. Burns Memorial Building / 2150 Pennsylvania Avenue, N.W. / Washington, D.C. 20037

September 19, 1988

U.S. Nuclear Regulatory Materials License Division 475 Allendale Road King of Prussia, Pennsylavia 19406

Sir:

I am writing in support of the appointment of Mr. Brian L. Miller as Acting Radiation Safety Officer at George Washington University. I have been chairman of the Radiation Safety Committee at George Washington University for the past 2 years. As you have been informed, Dr. Mark Selikson will be leaving our University on October 1, 1988. The Executive Committee of the Radiation Safety Committee on September 14, 1988 unanimously approved the selection of Mr. Miller as acting Safety Officer.

I have known Mr. Miller for approximately one year during his tenure as the Assistant Radiation Safety Officer. He has been responsible for the supervision of the technical staff and instrumental in ensuring compliance with federal and local regulations. We feel that he has the education and background to handle this new position without difficulty.

To guarantee his success while we actively recruit a permanent replacement for Dr. Selikson, I have told Mr. Miller that he will have mine and the Committees full support. I will be readily available for consultation at anytime and will spend as much time as needed in ensuring that our Radiation Safety program remains one of excellence.

I would hope you will review this request favorably and I would be glad to discuss this further if necessary.

Sincerely,

Alan G. Wasserman, M.D. Chairman, Radiation Safety Committee



THE GEORGE WASHINGTON UNIVERSITY MEDICAL CENTER

Washington, D.C. 20037

Office of Research and Sponsored Programs 2300 Eye Street, N.W. 202-676-2995

September 23, 1988

U.S. Nuclear Regulatory Materials License Division 475 Allendale Road King of Prussia, Pennsylvania 19406

Sir:

As you have been informed, Dr. Mark Selikson will be leaving our University. While we actively recruit a permanent replacement for Dr. Selikson, we would like to appoint Mr. Brian L. Miller as acting Radiation Safety Officer.

Mr. Miller has been employed at George Washington University Medical Center for approximately one (1) year as Assistant Radiation Safety Officer. During this period he has been responsible for the supervision of the Radiation Safety Office's technical staff and has played an integral part in the policy review and development undertaken by the Radiation Safety Office.

I concur with the Radiation Safety Committee Executive Group's unanimous decision to nominate Mr. Miller as acting Radiation Safety Officer. In order that his tenure in this position proceed as smoothly as possible, the chairman of the Radiation Safety Committee, Dr. Alan Wasserman, and I have pledged our full support for him. In addition, we are willing to devote as much time as necessary to ensure continued smooth operation of the radiation safety program.

It is my sincere hope that you will respond favorably to this request and allow Mr. Miller's appointment as acting Radiation Safety Officer. 1 would be glad to discuss this further if necessary.

Sincerely,

Varken

Michael J. Jackson, Ph. D. Associate Dean of Research George Washington University Medical Center

MJJ/gjh (EC5)

Esidiation Safety Office (202) 994-2630



THE GEORGE WASHINGTON UNIVERSITY MEDICAL CENTER

Warwick Building / 2300 K Street, N.W. / Washington, D.C. 20037

September 22, 1988

U.S. Nuclear Regulatory Commission Materials License Division 475 Allendale Road King of Prussia, Pennsylvania 19406

Sir:

The enclosed check number 373948 represents payment for the amendmends to our Broad and Irradiation License as stated in our letter of September 19, as well as payment for an inspection for which we were billed under invoice number 1389B in the amount of \$320.00. Please process accordingly.

If there are any questions or problems, please contact us on (202) 994-2630.

Sincerely, Dender Unel

Glenda Hall Executive Aide Radiation Safety Office George Washington University Medical Center

GJH (09)

Enclosure

UNITED STATES NUCLEAR REGULATORY COMMISSION INSPECTION FEE INVOICE

INVOICE NUMBER

INVOICE DATE

LICENSEE NAME AND ADDRESS GEORGE WASHINGTON UNIVERSITY MED 2300 K ST N.W. WASHINGTON DC 20037 ATT: DR.MARK SELIKSON RSD

DB-00216-23

DATE OFINSPECTIONLIC. FEECODEAMOUNTINSPECTIONREPORT NO.CATEGORYAA905DUE01/22/8888013EINS-NR\$ 320.00

TERMS AND CONDITIONS ARE ATTACHED.

MAKE CHECKS PAYABLE TO :

U.S. NUCLEAR REGULATORY COMMISSION OFFICE OF RESOURCE MANAGEMENT DIVISION OF ACCOUNTING AND FINANCE WASHINGTON D.C. 20555

> 109671 27 SEP 1988

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(FOR LEMS USE) . INFORMATION FROM LTS * ET FEEN: . ICENSE FEE MANAGEMENT BRANCH, ARM : PROGRAM CODE: 03510 AND : STATUS CODE: 0 REGIONAL LICENSING SECTIONS : FEE CATEGORY: 3E : EXP. DATE: 19920131 : FEE COMMENTS: ___ ICENSE FEE TRANSMITTAL REGIONV APPLICATION ATTACHED 1. APPLICANT/LICENSEE: GEORGE WASHINGTON UNIV. MEDICAL CTR RECEIVED DATE: 880927 DOCKET NO: 3019445 CONTROL NO .: 109671 LICENSE NO .: 08-00216-23 ACTION TYPE: AMENDMENT FEE ATTACHED AMOUNT: .00373948 CHECK ND .: 3. COMMENTS ee 109670, 71, +72 SIGNED DATE LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED 1.1) 8. 1. FEE CATEGORY AND AMOUNT: 34 (8/20) CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR: 2. AMENDMENT ---- K RENEWAL LICENSE 3. OTHER kn, SIGNED mura DATE 10/2/88