



AMERICAN UNIVERSITY

WASHINGTON, D.C.

DEPARTMENT OF CHEMISTRY

August 14, 2008

Mr. Stephen Hammann
Health Physicist
Commercial and R&D Branch
Division of Materials Safety
US Nuclear Regulatory Commission Region I
475 Allendale Rd
King of Prussia, PA 19406-1415

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MS-16

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REGION I
2008 AUG 20 PM 12:43

Dear Mr. Hammann:
Re: Docket No. 03022261
Control No. 142517

08-08371-05

This is a response to your inquiry of July 24, 2008 asking us to confirm that Dr. Cathy Schaeff, the proposed Radiation Safety Officer (RSO) for American University, has received the training for RSOs specified in section 8.7.1 of NUREG 1556, Volume 7.

Dr. Schaeff has far more than 40 hours of training and hands-on experience working with radioactive materials. She had one day training at Queens University in Canada in the late 1980s, and in 1993 and 1999 she took the one day course at NIH. The second one day course was a repeat because of the length of time that elapsed between 1993 and 1999.

We do not have a copy of the syllabus for the one day course in the 1990s, but I am attaching a copy of the syllabus from 1984 (when I took the one day course). NIH's course covers the areas deemed by NRC to be important for RSOs - radiation protection principles, units and characteristics of ionizing radiation, detection instrumentation, biological hazards and NRC requirements.

Her year 2000 training conducted at American University by Carol Berger, C.H.P. was specifically focused on operating the American University Radiation Safety Program from the perspective of the RSO in charge. Copies of the Carol Berger's qualifications and Cathy Schaeff's certificate of completion of this training are attached.

The publications in Cathy Schaeff's CV, numbers 2 (1991), 3 (1993), 4 (1997), 5 (1999) and 6 (1999) are based on mitochondrial DNA analysis using radioisotopes, principally S-35. Each lists her as the first author and represents months of direct hand-on work, totaling months to years of experience.

Sincerely,

Albert M. Cheh
Professor of Chemistry and RSO

COLLEGE OF ARTS AND SCIENCES

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142517
NRC/RCM MATER. ALS-002

U.S. Department of Health and Human Services
National Institutes of Health
Division of Safety
Radiation Safety Branch

RADIATION SAFETY IN THE LABORATORY

Building 21--Classroom

December 13, 1984

TIME	SUBJECT	LECTURER
8:30-9:20	INTRODUCTION: points of intervention	Mr. Doob
	RADIATION & RADIOACTIVITY: I origins of radioactivity types of radiation	
9:20-9:30	[break]	
9:30-10:20	RADIATION & RADIOACTIVITY: II interactions with matter survey instruments	Mr. Doob
10:20-10:30	[break]	
10:30- 11:20	QUANTITIES AND UNITS Curies; Roentgens; rads; rems; SIs	Mr. Doob
	FEDERAL REQUIREMENTS legal exposure limits recommendations for fertile women rights of radiation workers	
11:20-11:30	[break]	
11:30-12:30	BIOEFFECTS	Mr. Doob
12:30-1:30	[lunch]	
1:30-2:20	EXPOSURE CONTROL internal & external hazards decontamination emergencies	Mr. Levy
2:20-2:40	WASTE MANAGEMENT	Mr. Levy
2:40-2:50	[break]	
2:50-3:15	PERSONNEL MONITORING film badge & TLD dosimeters urinalysis; thyroid & whole body counting	Mr. Googins
3:15-3:30	NIH RADIATION SAFETY PROGRAM radionuclide license; accountability authorized investigator system results of personnel monitoring	Dr. Augustine
3:30-4:00	EXAM	

RADIATION SAFETY COMMITTEE
Managing the American University Radiation Safety Program

Room 202, Beeghly Building
Washington, D.C.
February 4, 2000 - 10:00 a.m. to 12:00 p.m.

Instructor: Carol D. Berger, C.H.P.

‘ Introductions
‘

‘ Basic Principles of Radiation and Radioactivity
‘

‘ Regulations and Requirements (Amended License No. 08-03371-05)
‘

‘ RSP-001, “Radiation Protection Program Plan”
‘

‘ Radiation Safety Procedures

‘ RSP-006, “Training and Qualification of Radiation Safety Personnel”

‘ RSP-007, “Radiation Safety Training”

‘ RSP-012, “Control of Radiological Work”

‘ RSP-013, “Control of Radioactive Waste”

‘ RSP-023, “Purchase, Handling and Accountability of Radioactive Material”

‘ Questions/Answers

About the Instructor . . .

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Carol D. Berger, C. H. P., is the President and co-founder of Integrated Environmental Management, Inc. (**IEM**). She is Certified by the American Board of Health Physics and has over twenty years experience in nuclear activities with emphasis in strategic planning, radiation dosimetry, instrumentation, and applied health physics. She is Past-President of the American Academy of Health Physics, a past member of the Panel of Examiners for the American Board of Health Physics, and is a recognized expert in the fields of external and internal dosimetry, participating on ANSI, ASTM, and NCRP committees for establishing dosimetry standards. She served as the head of the Radiation Dosimetry Group at Oak Ridge National Laboratory, and was a member of the Health Physics and Dosimetry Task Group for the President's Commission on the Accident at Three Mile Island. She has prepared detailed site investigation reports and decontamination and decommissioning plans for major materials handling and manufacturing facilities; has conducted dose/risk assessments for facilities contaminated with naturally-occurring radioactive material (NORM), byproduct material, activation products, source material, and special nuclear material; and has developed and delivered training on a variety of topics to USNRC inspectors, materials licensees, nuclear power plant operations personnel, public school teachers, and members of the general public.

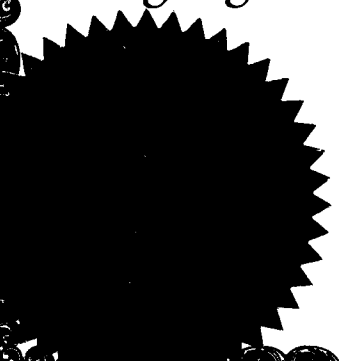
Integrated Environmental Management, Inc.

Certificate of Completion

Cathy Schaeff

Managing the American University Radiation Safety Program

Washington, D.C. - February 4, 2000



Carol D. Berger

Carol D. Berger, C.H.P.