



Steven Snay MS, CHP.
Radiation Safety Officer

Radiation Safety Office
Pinanski Building, room 213
One University Avenue
Lowell, Massachusetts 01854

telephone: (978) 934 - 3373
fax: (978) 934 - 4038

email: Steven_Snay@uml.edu

April 2, 2012

SNM-714
07066738

Br. J

Nuclear Regulatory commission
Materials, Security, and Industrial branch
Division of Nuclear Materials Safety
475 Allendale Road
King of Prussia, PA 19406-1415

RE: SNM License 714 - Appointment of new Radiation Safety Officer at UMass Lowell

Dear Nuclear Regulatory Commission Officer:

Because the current RSO will be leaving at the end of July the Radiation Safety Committee here at UMass Lowell would like to have me appointed as the RSO for the special nuclear materials license SNM-714. The updated contact information for the Radiation Safety Officer will be:

Steve Snay MS. CHP
Radiation Safety Office, Pinanski 213
One University Avenue, Lowell MA 01854
Phone: 978-934-3373 Fax: 978-934-4038
Email: Steven_Snay@uml.edu

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REGION 1
APR - 6 PM 12: 26

I have also included my CV for your review and acceptance as Radiation Safety Officer on the license.

If you have any questions, please feel free to contact me at (978) 934-3373. Thank you for your time and effort.

Sincerely,

A handwritten signature of Steven Snay in black ink.

Steven Snay, CHP
Radiation Safety Officer

577296
NMSS/RGN1 MATERIALS-002

Curriculum Vitae

Steven P. Snay MS, CHP

PERSONAL INFORMATION WAS REMOVED
BY NRC. NO COPY OF THIS INFORMATION
WAS RETAINED BY THE NRC.

Steven_Snay@uml.edu

CAREER OBJECTIVE: To ensure the safety of the public and workers through great radiological protection practices and health physics techniques

EDUCATION:

- ◇ University of Massachusetts Lowell, Master of Science in Radiological Sciences and Protection
- ◇ University of Massachusetts Lowell, Baccalaureate in Physics with a Radiological Health Physics Option
- ◇ Associates in Nuclear Engineering, Three Rivers College

WORK EXPERIENCE:

Acting Radiation Safety Officer, UMass Lowell (March 2012-present)
Assistant Radiation Safety Officer, UMass Lowell (2004-present)
Adjunct Faculty in Physics, UMass Lowell (2006-present)
Auxiliary Operator, UMass Lowell Research Reactor (02-04)
Unit 2 Health Physics, Dominion Nuclear (summer 04)
Unit 2&3 I&C technician, Dominion Nuclear (summers 02 & 03)

ACTIVITIES:

Certified member of the American Academy of Health Physics (2011-present), Board of directors for the New England Chapter Health Physics Society (2006-2008), New England Chapter Health Physics Society Committee chairperson for student affairs (2006-2008), Health Physics Society member (2004-present), Research Project advisor for the Radiological Science Masters at UMass Lowell, Professional Science Masters Radiological Sciences internship manager.

ACHIEVMENT/AWARDS:

Certified Health Physicist, Outstanding Radiological Sciences Graduate Student (07), Kenneth Skrable Technical Excellence in Radiological Science Award (2005), Charles R. Mingins Award outstanding Senior in Health Physics (2005), National Academy of Nuclear Training scholarship (03 & 04), American Nuclear Society - John Lamarsh scholarship Association of Facilities Engineering scholarship and Candidate for Outstanding Technical student of the year (1/14/03), TRCC Math scholarship 02-03,

INTERESTS:

Physics, kayaking, hiking and snow shoeing.

Job training and Achievements:

Certification in Health Physics (CHP) from the American Academy of Health Physics (2011)
DOE Advanced Laser Safety Officer training (August 2011)
National Nuclear Security Administration (NNSA) Global Threat Reduction initiative (GTRI) Alarm response training program (May 16-20, 2011)
OSHA Hazardous Waste Operations and Emergency Response HAZWOPER Certification #21531682 and Respirator Fit Tested (April 2011 - January 2010)
CPR Certification from the American Heart Association for medical personnel (March 2011)
First Aid for First Responders certification from the American Heart Association (March 2011)
IATA/DOT radioactive material shippers training by Dr. Roy Parker (December 2, 2010 & November 15, 2007)
Laser Safety Officer Training by the Laser Institute of America (LIA) (November 3-7, 2008)
Laser Safety for Health Physicists by Ben Edwards, CLSO (March 20, 2008)
UMass Lowell Environmental Health and Safety Laboratory training (July 17, 2007)
Health Physics Society annual meeting (2010 and 2008)
Health Physics Summer School "Medical Health Physics" (June 16-23, 2006)
Performance Management Training (March 2012)

Job tasks:

Assistant Radiation Safety Officer and Laser Safety Officer, UMass Lowell (2004-present)
Acting Radiation Safety Officer (March 2012-Present)

As the ARSO I assist in the implementation of the UMass Lowell type A broad scope license. I oversee the proper radioactive material and laser use by Laboratories including a 5.5MV direct current positive ion particle accelerator and a 1MW Swimming Pool reactor. The reactor building houses a nuclear reactor and a 120kCi gamma radiation facility capable of exposures in MRad/hr. My tasks (below) include ensuring the safe use of radioactive material for workers and the public.

- Annual Broad Scope License Audit (2011, 2010, 2008 and assisted in 2009, 2007, 2006, 2005 audits) following NRC inspection criteria 69012 and 69001 for reactor specific audits.
- 2011 NRC Special Nuclear Material license reapplication (complete rewrite)
- 2011 Broad Scope License reapplication (complete rewrite)
- ALARA reporting
- Campus Laser Safety Officer ensuring laser safety compliance as per state Regulations
- Member of the Accelerator Safety Subcommittee (2009-present)
- Maintain and update source inventories on the National Source Tracking System
- Radioactive material shipping and receiving (as per DOT and IATA)

- Procedure Writing
- Laboratory Surveys to verify compliance of a Radioactive Material user (Contamination, Dose rate measurements, worker compliance to procedures)
- Assisting in redevelopment of all radiation and laser surveys and incorporating them into an electronic platform
- Source room restructuring to facilitate a more ALARA atmosphere (2010)
- Decontamination of many surfaces and objects
- Decommission laboratories for free release (Waste Removal, Final Lab Survey, etc.)
- Radioactive waste handling, analysis and database Inventory (liquid, solid, sharps, mixed waste)
- Effluent monitoring (waste water holding tanks and Reactor primary & secondary water analysis)
- Source inventory (Sealed Source leak test, Byproduct inventory, and special Nuclear Materials)
- Investigations and analysis of unknown sources, solid and liquid waste for radioactivity and being in compliance with laws for chemical satellite areas.
- Handled State and Nuclear Regulatory Commission Inspections
- Emergency response drills (lead in 2009) and Reactor emergency supply inventory
- Massachusetts Nuclear Incident Advisory Team (NIAT) training controller
- Personnel radiation monitoring implementation (TLD, FILM Badges) and calibrations (Electronic and Pocket dosimeters)
- Implementation of a new Electronic dosimeter program (Procedures, Radiation Work Permits, MCNP5 Monte Carlo simulation of the calibration apparatus, and source field verification)
- Conducted a comprehensive background radiation analysis of UMass Lowell
- Portable survey meters instrument inventory, calibrations using a pulse generator, and calibrated radiation sources (Ion chambers, Geiger's, NAI detectors and neutron meters)
- Personnel hand and foot monitor setup and calibrations
- Gamma Spectroscopy system setup, install and calibrations (efficiency, energy etc.) for BeGe and HpGe using the Genie 2000 Software
- Gas Proportional Counter Calibration, Use, and system install configuration
- Liquid Scintillation Calibration and Use
- Conducted training of all radiation workers and ancillary personnel (i.e. housekeeping, facilities, police, fire fighters, Ambulatory staff, and Saints Memorial Hospital staff)
- Health Physics internship manager

Adjunct Professor in Physics /Radiological Sciences

In the teaching capacity I had the privilege to educate health physics and medical physics undergraduate and graduate students as well as teaching laboratory sections for non-science majors. In the spirit of health physics as an educator one task I take pride in is educating the public in the safe use and many uses of radioactive material, which these classes allowed me to perform.

- Introduction to Radiological Sciences 95.204.201 (2012-present)
- Introduction to Radiological Sciences 95.300.201 and 98.500.201 (2011-2012)
- Radiation and Life Laboratory 98.102.802 & 98.102.803 (2007-present)