

STATE OF NEW HAMPSHIRE

Honorarium or Expense Reimbursement Report (RSA 15-B)



Type or Print all Information Clearly:

Name: Adam J Tirrell Work Phone No. 271-7578
First Middle Last

Work Address: 29 Hazen Dr, Rm 253, Radiological Health Section, Concord, NH, 03301

Office/Appointment/Employment held: Radiation Health Physicist III

List the full name, post office address, occupation, and principal place of business, if any, of the source of any reportable honorarium or expense reimbursement. When the source is a corporation or other entity, the name and work address of the person representing the corporation or entity in making the honorarium or expense reimbursement must be provided in addition to the name of the corporation or entity.

Source of Honorarium or Expense Reimbursement:

Name of source: _____
First Middle Last

Post Office Address: _____

Occupation: _____

Principal Place of Business: _____

If source is a Corporation or other Entity:

Name of Corporation or Entity: Radiation Safety and Control Services, Inc

Name of Corporate/Entity Representative: Ginger Nownes

Work Address of Representative: 91 Portsmouth Ave., Stratham, NH, 03885

Food and/or beverages consumed pursuant to RSA 15-B:6, II with value over \$25.00

Value of Honorarium: _____ Date Received: _____ *If exact value is unknown, provide an estimate of the value of the gift or honorarium and identify the value as an estimate.* Exact Estimate

Value of Expense Reimbursement: \$1,020.00 Date Received: 6/26/15 *A copy of the agenda or an equivalent document must be attached to this filing.* Exact Estimate

Briefly describe the service or event this Honorarium or Expense Reimbursement relates to:

Radiation Safety Officer course, June 22-26, Portsmouth NH.
Fee waived for state Radiological Health Section.

"I have read RSA 15-B and hereby swear or affirm that the foregoing information is true and complete to the best of my knowledge and belief."

[Signature]
Signature of Filer

5/26/15
Date Filed

RECEIVED

9/07

RSA 15-B:9 Penalty. Any person who knowingly fails to comply with the provisions of this chapter or knowingly files a false report shall be guilty of a misdemeanor.

Return to: Secretary of State's Office, State House Room 204, Concord, NH 03301

JUN 17 2015
NEW HAMPSHIRE
DEPARTMENT OF STATE

COPY

REQUEST FOR AUTHORIZATION FOR OUT-OF-STATE TRAVEL

Date: March 30, 2015

TO THE HONORABLE GOVERNOR & COUNCIL:

The Department of Health and Human Services, Division of Public Health Services, Bureau of Public Health Protection, Radiological Health Section requests permission

for 1 employees or their designees to travel to Portsmouth, New Hampshire
 for 5 days of travel status from June 22, 2015 to June 26, 2015

Conference/Workshop/Seminar Title

40-hour Radiation Safety Officer (RSO) Training Course, provided by Radiation Safety & Control Services, Inc. (RSCS) of Stratham, New Hampshire

Purpose of Travel

The purpose of this travel is for Adam J. Tirrell, Radiation Health Physicist III to attend the 40-hour RSO Training Course provided by RSCS. which covers the fundamentals of health physics including the concepts of radiation, radioactivity, radiation exposure and dose, biological effects of radiation, radiological hazards, radiation detection and measurements, operational radiation safety, radiological emergency response, transportation of radioactive material, and regulations pertaining to radiation protection and control. This course is considered to be part of Mr. Tirrell's overall training, which will ultimately authorize him to carry out independent inspections and licensing of all categories of radioactive material and radiation-producing equipment users and facilities. Attendance ensures that the State of NH meets its responsibilities in protecting the health and safety of workers and the public from unnecessary exposure to sources of radiation. There will be no loss of productivity, as coverage of Mr. Tirrell's duties will be provided by other Radiological Health Section (RHS) Health Physicist staff. For this training, Mr. Tirrell's registration expenses, in the amount of \$1,020.00, have been waived by RSCS for State personnel. Mr. Tirrell will submit an Expense Reimbursement Form to the Secretary of State Office upon his return, as RSCS is a non-government entity, to whom we do not pay dues. The State of NH will be responsible for the cost of classroom materials, (e.g. course and reference manuals, regulations, supplies, etc.) in the amount of \$375.00 plus an estimated \$20.00 in miscellaneous expenses, which may arise. Mr. Tirrell will commute daily with the use of an RHS State of NH vehicle.

Attendees and their Titles

Adam J. Tirrell, Radiation Health Physicist III or Designated Alternate

Fiscal Information - Summary

<u>Objt</u>	<u>Description</u>	<u>Amount</u>		<u>Amount</u>
0710	Common Carriers	\$ 0.00	Appropriation of Out-of-State Travel	\$ 5,000.00
0711	Per Diem in Lieu	\$ 0.00	Amount Expended to date	\$ 3,265.15
0712	Meals	\$ 0.00	Available Balance	\$ 1,734.85
0713	Hotel	\$ 0.00	Amount requested this authorization	\$ 395.00
0714	Mileage	\$ 0.00	Estimated Balance Available	\$ 1,339.85
0715	Operation State Car	\$ 0.00		
0717	Miscellaneous	\$ 20.00	Appropriation Code 010 - 090 - 5391 - 070	
0719	Registration Fees	\$ 375.00	Source of Funds 100% Other (Fees)	
TOTAL		\$ 395.00	Job # 90028000	

Authorized Signature: Michael Dunford
 José Thier Montero, MD
 Director

Approved By: _____
 Nicholas A. Toumpas
 Commissioner



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Password

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RSO (Radiation Safety Officer)

RSO Course Description

This comprehensive 40-hour course provides students with a balance of technical and theoretical information along with practical applications of radiation safety. Fundamental concepts are presented in a logical progression, providing a sound basis for understanding the day-to-day requirements of the Radiation Safety Officer. This training includes DOT requirements for transportation of radioactive material and satisfies the requirements of Subpart H. A DOT exam is included. References from past students are available upon request.

Continuing education credits have been approved by the American Academy of Health Physics (32 Continuing Education Credits) and the American Society of Radiologic Technologists (40 hours of Category A Continuing Education Credits) for the five-day RSO course.

The fee for the course is \$1495.00. Course fee includes all materials, daily continental breakfast and snack breaks, and a catered lunch and social on the first day of the course.

RSO Course Outline

- Math and Physics Review
- Radiation and Radioactivity
- Biological Effects
- Radiological Hazards
- Detection and Measurement
- Operational Program
- Regulatory Agencies
- DOT Regulations



ARSO (Advanced Radiation Safety Officer) Course Description

This three-day course includes a review of basic theoretical concepts and in-depth discussion of operational programs, licensing issues and regulatory considerations. The advanced RSO course includes a brief review of the fundamentals along with a focus on 10CFR20 and 10CFR30 licensing issues. Several NRC positions, regulatory guides and NUREGs will be presented. This training includes DOT requirements for transportation of radioactive material and satisfies the requirements of Subpart H. A DOT exam is included. This course also provides the participants an opportunity to discuss their specific license issues. We encourage you to send us a copy of your license, program documents and tie-down letters so we may include them in the course materials.

Several workshop sessions are provided to participants that allow for detailed discussions on your particular needs. During workshop sessions, several software tools are presented that can be used to improve the efficiency and effectiveness of your radiation protection program. Continuing education credits have been approved by the American Academy of Health Physics (16 Continuing Education Credits) and the American Society of Radiologic Technologists (24 hours of Category A Continuing Education Credits) for the three-day ARSO course.

The fee for the course is \$1095.00. Course fee includes all materials, daily continental breakfast and snack breaks, and a catered lunch and social on the first day of the course.

ARSO Course Outline

In This Section

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[Instrumentation](#)

[Internal and External Dosimetry](#)

[Radiation Safety Officer](#)

[Transportation of Radioactive Material](#)

[Custom Classes](#)

- Theory Review
- Radiological Hazards Review
- Radiation Detection
- Operational Radiation Safety
- Radiation Protection Program Workshop
- Regulatory Control and Compliance
- Licensing
- DOT Regulation

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Course Description

This comprehensive 40-hour course provides students with a balance of technical and theoretical information along with practical applications of radiation safety. Fundamental concepts are presented in a logical progression, providing a sound basis for understanding the day-to-day requirements of the Radiation Safety Officer. An optional exam for RSO's whose programs require testing is provided along with a DOT exam. References from past students are available upon request.

The three instructors of the course are Certified Health Physicists with a combined 70 years of experience in their field. As RSCS principals, they operate a nuclear instrumentation calibration facility, an analytical measurement laboratory, and also perform consulting for Radioactive Material Licensees.

Continuing education credits have been approved by the American Academy of Health Physics (32 Continuing Education Credits), the American Society of Radiologic Technologists (40 hours of Category A Continuing Education Credits), and the American Board of Industrial Hygiene (4, 5 CM Points) for the five-day RSO course.

Class Schedule

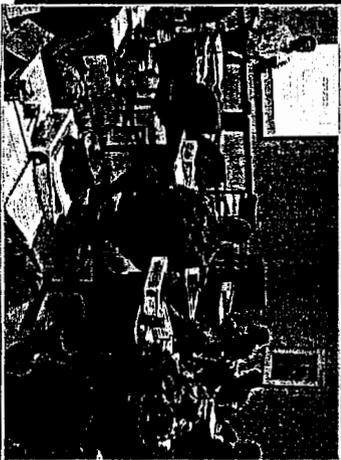
Classes will run **June 22nd through June 26th, 8:00 AM to 5:00 PM on Monday-Thursday, and 8:00 AM to 12:00 PM on Friday.** The RSO course will end at noon on Friday and an optional exam will be offered Friday afternoon. Optional evening sessions will be held on Tuesday and Thursday. On Monday, RSCS will provide lunch and a catered social after class.



Registration and Accommodations

The fee for the course is \$1,495.00. Since enrollment is limited, early registration is advised. An early bird discount of \$100 will apply to all students who register and provide payment or purchase order for the course by May 1st. Payment must be received in full no later than 15 business days prior to the start of the course. Registrations made after this period will be expected to be paid at time of registration. A full refund will be provided for course cancellations made within 3 days of enrollment. A \$200 fee will be applied to all cancellations received before 10 business days to the start of the course. No refunds will be given after that period.

Courses will be held at the Best Western Wynwood Hotel in Portsmouth NH. The hotel is located near Strawberry Banke, America's third-oldest community where you can explore the many restored houses from colonial times and watch craftsmen ply their trades as in earlier days. Or, you can take an evening stroll through the flowered gardens of Prescott Park where you may encounter an out-of-doors musical or



theatrical performance! The hotel is also near several beautiful beaches, including the Hampton Beach resort area. Course participants are responsible for their hotel accommodations. A block of rooms at the Wynwood Hotel has been held at a reduced rate of \$94.95 plus 9% tax per night if booked before the June 7th cut-off date. After the cut-off date, the group rate will apply only on a space available basis. Call direct at 603-436-7600. Remember to tell the Best Western you are attending the RSCS course.

More Information

To register for the course online, or to contact us for additional information, visit us at radsafety.com or call us at 800-525-8339.

About Us

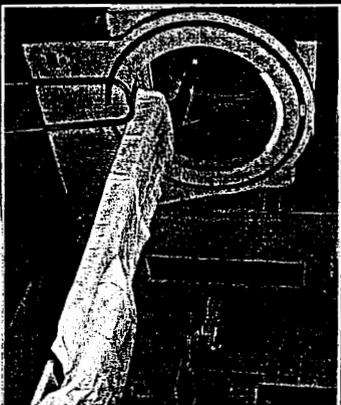
Established in 1989, Radiation Safety & Control Services provides technical consulting, training and instrument support services to commercial nuclear, private industrial, medical, academic and governmental facilities. Services offered include:

- ### Health Physics Consulting
- Management and Technical Support
 - Radiation Safety Program Audits
 - Groundwater Support
 - Decommissioning Support HP Program Development
 - License Applications and Amendments

- ### Health Physics Software
- Radiation Safety Manager
 - Decommissioning Cost Estimation
 - Analytical Data Management System

- ### Calibration & Analytical Lab
- NIST-Traceable Instrument Calibration
 - Full Service Repair Lab On Site
 - Radioactive Source Leak Testing
 - Radon Testing & Mitigation

- ### Radiation Detection Equipment
- Radiation Detection Equipment Sales and Leasing
 - Simulated Radiation Detection Equipment
 - Radiation Safety Supplies





Radiation Safety & Control Services

COPY

Adam Tirrell
28 Hazen Drive
Concord, NH 03301

March 27, 2015

Dear Adam,

This letter is to confirm your registration in our Radiation Safety Officer Training Course, scheduled for 06/22/2015 through 06/26/2015. We are pleased that you chose RSCS to provide you this training and we will make every effort to make it a worthwhile and enjoyable week.

If possible, please bring a copy of your license and a copy of your radiation protection program. This will provide you the opportunity to discuss licensing issues specific to your company.

Please contact us if you have any questions regarding the class. We look forward to seeing you on 06/22/2015.

Sincerely,

Ginger Nownes

COPY

Fw: RSO Class Confirmation

Twila M Kenna to: Michelle Jodoin, Adam J Tirrell

03/27/2015 02:55 PM

From: Twila M Kenna/CommPublicHealth/Hazen/DHHS
To: Michelle Jodoin/CommPublicHealth/Hazen/DHHS@DHHS, Adam J
Tirrell/CommPublicHealth/Hazen/DHHS@DHHS

Twila M. Kenna, Ph.D., Manager
Radioactive Materials Program
NH Radiological Health Section
Bureau of Public Health Protection
New Hampshire Division of Public Health Services Department of Health & Human Services
29 Hazen Drive
Concord, New Hampshire 03301-6504
Phone: 603-271-4840
Fax: 603-225-2325
Email: tkenna@dhhs.state.nh.us

New Hampshire Division of Public Health Services , Improving Health, Preventing Disease, Decreasing
Costs for All

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----- Forwarded by Twila M Kenna/CommPublicHealth/Hazen/DHHS on 03/27/2015 02:54 PM -----

From: Ginger Nownes <ganownes@radsafety.com>
To: "tkenna@dhhs.state.nh.us" <tkenna@dhhs.state.nh.us>
Date: 03/27/2015 02:48 PM
Subject: RSO Class Confirmation

Good afternoon Twyla,

Attached is Adam Tirrell's confirmation package for the June RSO course in Portsmouth, NH. Please feel
free to call or email me if you have any questions.

Thank you,

Ginger Nownes
Radiation Safety and Control Services, Inc.
91 Portsmouth Avenue
Stratham, NH 03885
800-525-8339 X220
603-778-2871 X220
Fax: 603-778-6879

Radiation Safety Officer Training Course Outline: RSCS Inc.

Math Review

- Basic Definitions and Operations
- Problem Solving
- Graphical Analysis
- Powers
- Scientific Notation
- Exponentials and Logarithms

Nuclear Physics Review

- Atomic Structure
- Nucleus
- Fundamental Properties
 - Mass, Charge, Energy, Force
 - Electrical & Chemical
- Nuclear Force

Radiation & Radioactivity

Radiation

- Definition
- Types of Radiation

Radioactivity

- Definition
- Units of Measure
- Half Life & Decay Law

Interaction of Radiation with Matter

- Penetrating Radiation
- Non-Penetrating Radiation
 - Charged Particle Interactions
 - Coulomb Forces
 - Radiative Losses
- Gamma & X-Ray Interactions
 - Photoelectric Effect
 - Compton Scattering
 - Pair Production

Radiation Exposure and Dose

Fundamental Concepts

- Exposure
- Absorbed Dose
- Dose Equivalent
- Total Effective Dose Equivalent, TEDE
- Committed Effective Dose Equivalent, CEDE
- Deep Dose Equivalent, DDE

Radiation Safety Officer Training Course Outline: RSCS Inc.

Background Radiation Exposure

 Natural Sources

 Technologically Enhanced Sources

Biological Effects of Radiation

 Background

 Sequential Patterns of Biological Effects

 Cellular Effects

 Types of Exposure

 Acute

 Chronic

 Types of Biological Effects

 Short Term Effects

 Long Term Effects

 Genetic Effects

 Federal Exposure Limits and Risk Estimates

Radiological Hazards

 External Radiation Dose

 Penetrating (gamma)

 Non-Penetrating (beta)

 Rules of Thumb

 Time, Distance, Shielding

 Internal Radiation Dose

 Units of Measure

 Fixed vs Removable Contamination

 Internal Hazards and Entry Routes

 Airborne Radioactivity

 Protection Methods

Radiation Detection and Measurement

 Basic Principles

 Gas Filled Detectors

 Scintillation Detectors

 Solid State Detectors

 Sample Analysis Applications

 Detector Efficiency

 Counting Statistics

 Minimum Detectable Activity

 Dose and Dose Rate Measurements

 Dose Rate Meters

 Dosimeters

Radiation Safety Officer Training Course Outline: RSCS Inc.

- Contamination Measurements
 - Direct Methods (Friskers)
 - Indirect Methods
 - Swipes
 - Laboratory Instruments

Operational Radiation Safety

- Organization
- Facility Design
- Radiation Safety Program Goals
 - General Public
 - Radiation Workers
 - ALARA

- Requirements
- Annual Radiation Protection Program Audits

Planning for Emergencies

- Nature of Radiation Accidents
- Planning for Radiation Accidents
 - Types of Accidents
 - Planning Criteria
- Responding to Accidents
- The Role of Federal, State, and Local Agencies
- General Rules for Health Physicists and RSOs

Regulations Pertaining to Radiation Protection

- NRC/Agreement States - License Requirements
 - 10CFR20
 - 10CFR19
- DOT - Transportation Requirements
- EPA - Environmental/Effluent Considerations

Transportation of Radioactive Material

- Regulatory Agencies
 - Title 49 - Department of Transportation
 - 49 CFR 171: General Information
 - 49 CFR 172: Hazmat Tables
 - 49CFR 173: Reqts for shippers
 - 49 CFR 177: Public Highway
 - Title 10 - Nuclear Regulatory Commission
 - 10 CFR 71: Packaging of RAM
 - Title 39 - U.S. Postal Service
 - US Postal Service Publication #6

Radiation Safety Officer Training Course Outline: RSCS Inc.

3 Considerations When Shipping

The A(1) and A(2) System

Quantity Limits

Radioactive Material

Limited Quantity

Type A Quantity

Type B Quantity

Highway Route Controlled Quantity:

Low Specific Activity (LSA)

Instruments or Articles: Solids

Three types of packaging

Container Type Determination

Transport Index

Warning Labels

White I

Yellow II

Yellow III

Contamination Control

Shipping Papers

Radiation Protection Program Assessments

Purpose of Assessments

Types of Assessments

Preparations for Assessments

Conducting Assessments

Documentation

Lessons Learned

COPY

Fw: Adam Tirrell

Twila M Kenna to: Michelle Jodoin, Adam J Tirrell

03/27/2015 02:24 PM

From: Twila M Kenna/CommPublicHealth/Hazen/DHHS
To: Michelle Jodoin/CommPublicHealth/Hazen/DHHS@DHHS, Adam J
Tirrell/CommPublicHealth/Hazen/DHHS@DHHS

Twila M. Kenna, Ph.D., Manager
Radioactive Materials Program
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New Hampshire Division of Public Health Services Department of Health & Human Services
29 Hazen Drive
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New Hampshire Division of Public Health Services , Improving Health, Preventing Disease, Decreasing
Costs for All

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From: Ginger Nownes <ganownes@radsafety.com>
To: "tkenna@dhhs.state.nh.us" <tkenna@dhhs.state.nh.us>
Cc: Jen Collins <jacollins@radsafety.com>
Date: 03/27/2015 02:20 PM
Subject: Adam Tirrell

Subject: Adam Tirrell

The cost of the Radiation Safety Officer course being given by Radiation Safety & Technology Services in
Portsmouth in June have been waived for Adam Tirrell. The only thing that we will be invoicing for is the
cost of the classroom materials--\$375.00. The total amount waived is \$1020.00.

Please let me know if you need any additional information .

Thank you,

Ginger Nownes
Radiation Safety and Control Services, Inc.
91 Portsmouth Avenue
Stratham, NH 03885
800-525-8339 X220