

Appendix 4.6.3-1

Letter of Current Staff Qualification

State of Connecticut Department of Energy and Environmental Protection

Radioactive Materials Program



Current Staff Qualification

This appendix documents the qualification of the following individuals as Radiation Division staff authorized to conduct radioactive materials licensing and inspection activities for license program codes in Connecticut at the time Connecticut becomes a Nuclear Regulatory Commission (NRC) Agreement State.

- Jeffrey Semancik, Radiation Division Director
- Michael Firsick, Radiation Office Director
- Brandon Graber, Environmental Analyst
- Kirsten Davies, Supervising Radiation Control Physicist
- Kristina Verderame, Radiation Control Physicist
- Chris Alford, Radiation Control Physicist
- Shannon Perry, Radiation Control Physicist
- Daren Strickland, Radiation Control Physicist

RCP-903.1 (Revision 2) Qualifications and Training defines the minimum essential elements of training required for radioactive materials inspection and licensing personnel as well as additional training required for the performance of specialized activities. Initial qualification of staff existing staff is required for establishing a Radioactive Materials Program (RMP) compatible with federal programs. In accordance with Step 6.1, the Radiation Division Director may grant credit for initial training requirements, “for applicable education, training, and/or experience received prior to joining the RMP.” The qualification of the above individuals is based, in part, on having:

- Completed or received alternate credit for all the required initial agreement state training as described in Radioactive Materials Program Procedure (RMPP) RCP-903.1 *Qualification and Training*;
- Accompanied NRC Inspectors conducting inspections of Connecticut licensees;


- Worked with qualified NRC Region 1 License Reviewers performing licensing actions;
- Reviewed the NRC regulations, policies, plans and procedures being incorporated into Connecticut's application to become an agreement state; and
- Engaged for more than three years writing, reviewing and revising RMPPs, regulations and other components of Connecticut's application to become an agreement state.
- Training and experience in regulated activities with other Agreement States, licensed facilities and other activities.

A summary of these qualifications for the Qualification Journals for the individuals listed above is found in Appendix 4.6.3-2. Copies of individual initial qualification letters for each individual are attached.



Memo

To: Kristina Verderame
Radiation Control Physicist
Bureau of Air Management
CT DEEP

From: Jeff Semancik 
Radiation Division Director
Bureau of Air Management
CT DEEP

CC: Qualification Journal
Michael Firsick, Office

Director Date: 8/9/2024

Re: Credit for Training

RCP-903.1 (Revision 2) *Qualifications and Training* defines the minimum essential elements of training required for radioactive materials inspection and licensing personnel as well as additional training required for the performance of specialized activities. Initial qualification of staff existing staff is required for establishing a Radioactive Materials Program (RMP) compatible with federal programs. In accordance with Step 6.1, the Radiation Division Director may grant credit for initial training requirements, "for applicable education, training, and/or experience received prior to joining the RMP."

You are granted credit for initial training and are qualified to conduct the following activities:

- Inspection (I)
- Licensing (L)

Credit is granted based upon your:

- 1) Prior qualification as an inspector and license reviewer in another Agreement State, Virginia.

- 2) Two and a half years of experience as an inspector and license reviewer in another Agreement State, Virginia.
- 3) Experience accompanying NRC Inspectors on inspections of Connecticut licensees.
- 4) Experience and training on the NRC regulations, policies, plans and procedures being incorporated into Connecticut's application to become an agreement state.
- 5) Experience, engaged for six months writing, reviewing and revising RMP Procedures, regulations and other components of Connecticut's application to become an agreement state.

Documentation of this alternative qualifications shall be maintained with your Qualification Journals.

Attach:

Letter from Sheila Nelson, CNMT, Director, Radiological Materials Program, VA Office of Radiological Health, Re: qualification of Kristina Verderame

NRC Transcript for Kristina Verderame

Resume of Kristina Verderame

.

Connecticut Department of Energy and Environmental Control
Radiation Division
Attn: Jeffrey Semancik, Director
79 Elm Street
Hartford, CT 06106

Mr. Semancik:

As requested, please see the enclosed list of modalities Kristina Verderame is fully qualified to inspect based upon training in the Commonwealth of Virginia. Ms. Verderame began working with the Virginia Department of Health in October 2020 and complete all required Nuclear Regulatory Commission Radioactive Materials courses for qualifications. Qualification approval was based upon sequentially observing at least one inspection, participating in at least one inspection, and leading at least one inspection under the supervision of a senior inspector or supervisor. She is not qualified to inspect Well Logging licensees or Pool Irradiator Licensees due to a lack of such licensees in Virginia.

Additionally, Ms. Verderame is fully qualified as a license reviewer for all modalities.

Approved Inspection Modalities:

- Medical (Diagnostic, Unsealed Therapies, Brachytherapy, HDR, Gamma Knife, and Emerging Technologies)
- Broad Scope / Broad Scope Medical
- Academic, Research, Development and Other Limited Scope (including Self-Shielded Irradiators)
- Radiopharmacy
- Industrial (Portable Nuclear Gauge, Fixed Gauge, XRF, and Industrial Radiography)
- Part 37 Security Licensees
- Manufacturing and Distribution

Please contact me at Sheila.Nelson@vdh.virginia.gov if you have any questions.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Sheila Nelson', is positioned above the typed name.

Sheila Nelson, CNMT
Director, Radiological Materials Program
Office of Radiological Health



Completed Training: KRISTINA VERDERAME

[Print](#)

Title	Type	Completion Date	Score	Status
MARSSIM Self-Study Course (H-121S)	Event	1/3/2023		Completed
NRC Materials Control, Security Systems & Principles (S-201) (Starts 10/18/2021)	Session	10/22/2021	100	Completed
G-205, Root Cause/Incident Investigation Workshop (Starts 9/27/2021)	Session	10/1/2021	0	Completed
Advanced Health Physics (H-201) (Starts 7/19/2021)	Session	7/23/2021	95	Completed
Internal Dosimetry Self-Study Course (H-312S)	Event	6/7/2021		Completed
G-109, Licensing Practices and Procedures (Starts 4/26/2021)	Session	4/30/2021	0	Completed
Brachytherapy, Gamma Knife, and Other Medical Uses (H-313) (Starts 3/29/2021)	Session	4/2/2021	92	Completed
G-108, Inspection Procedures (Starts 2/22/2021)	Session	2/26/2021	0	Completed
Industrial Radiography (H-305) (Starts 2/1/2021)	Session	2/5/2021	100	Completed
Health Physics Statistics Self-Study Course (H-301S)	Event	1/29/2021		Completed
Nuclear Medicine (H-304) (Starts 1/11/2021)	Session	1/15/2021	100	Completed
Transportation of Radioactive Material Self-Study Course (H-308S)	Event	1/8/2021		Completed
Fundamental Health Physics Self-Study Course (H-122S)	Event	12/8/2020		Completed
Introductory Health Physics Self-Study Course (H-117S)	Event	12/4/2020		Completed

[Back](#)[Print](#)

Version: 23.1.6.38

Powered by Cornerstone OnDemand, Inc. ©2000-2023
All Rights Reserved. [Terms](#) - [Privacy](#) - [Cookies](#) - [Feedback](#)

Kristina M. Verderame
79 Elm Street, Hartford, CT
Cell Phone: (203) 751- 7307
Email: Kristina.Verderame@ct.gov

Education

Oregon State University, Corvallis, OR (E-Campus)

Master's in Health Physics (in progress), anticipated completion March 2024

University of New Haven, West Haven, CT

M.S. Emergency Management and Certificate in Public Safety Management (January 2016)

B.S. Fire Science: Fire/Arson Investigation, Minor in Criminal Justice (May 2014)

Experience

Connecticut Department of Energy and Environmental Protection – Hartford, CT

Radiation Control Physicist (June 2023 – Current)

Duties: Serve as an emergency responder for radiation related events providing technical expertise, conduct gamma spectroscopy analysis of unknown radioactive materials, equipment maintenance and calibration. Participate in the development of the Nuclear Regulatory Commission Agreement State Program for the Department including procedure writing and training coordination.

Virginia Department of Health – Richmond, VA

Radiation Safety Specialist (October 2020 – July 2023)

Duties: Conduct Agreement State inspections for regulatory compliance of radioactive materials licensees, review and issue new materials licenses / amendment requests, provide technical assistance and training on radiation safety for stakeholders, and respond to incidents involving radioactive materials. Serve in various roles in the Virginia Emergency Operations Center and Dominion Corporate Emergency Response Center for nuclear power plant emergencies, drills, and exercises.

Virginia Department of Emergency Management – North Chesterfield, VA

Virginia Emergency Support Team (VEST) Coordinator (April 2019 – October 2020)

Duties: Lead and train a team of 30+ state agencies, private sector, voluntary and federal partners as part of the overall response mechanism for emergencies within the Commonwealth of Virginia, provide weekly training and support agency needs. Serve in various roles in the Virginia Emergency Operations Center including Planning Section Chief.

South Carolina Emergency Management Division- West Columbia, SC

Fixed Nuclear Facilities Coordinator, Robinson Nuclear Plant (May 2016 - April 2019)

Duties: Develop and implement emergency worker radiation fundamentals training program, lead planner for biennial graded exercise and annual medical services drills, conduct county/state plan reviews, train first responders on radiation detection equipment use, monitor radiological shipments within the State, and respond to all-hazard events in the State EOC.

Professional Organizations / Certifications

- Conference of Radiation Control Program Directors, member (2020 – Current)
- University of New Haven Alumni Association, member
- National Registry of Emergency Medical Technicians, EMT-B Certification (2014 – 2022)
- Certification: VA PEM, Virginia Emergency Management Association (2019)
- Certification: SC CEM, South Carolina Emergency Management Association, SC CEM (2017)
- Certificate of Emeritus: Fire Investigator (State of Connecticut, 2016)

Kristina M. Verderame
79 Elm Street, Hartford, CT
Cell Phone: (203) 751- 7307
Email: Kristina.Verderame@ct.gov

Relevant Professional Training

- NRC G108: Inspection Procedures
- NRC G109: Licensing Practices and Procedures
- NRC H304: Diagnostic and Therapeutic Nuclear Medicine
- NRC H313: Brachytherapy, Gamma Knife, and Other Medical Uses
- NRC H305: Safety Aspects of Industrial Radiography
- NRC H201: Advanced Health Physics
- NRC S201: Materials Control & Security Systems & Principles
- NRC G205: Root Cause Workshop
- NRC H-117S Introductory Health Physics Self-Study
- NRC H-121S MARSSIM Self-Study
- NRC H-122S Fundamental Health Physics Self-Study
- NRC H-301S Health Physics Statistics Self-Study
- NRC H-308S Transportation of Radioactive Materials Self-Study
- NRC H-312S Internal Dosimetry Self-Study
- NRC H-317S Medical Uses of Radiation
- HAZWOPER 40 Hour Course
- AWR 925W: Radiological Accident Assessment Concepts
- AWR 923W: Radiological Emergency Management
- AWR 358L: Hazardous Materials Awareness
- AWR 929: Introduction to NUREG-0654/FEMA-REP-1, Revision 2
- PER 316: REP Radiological Accident Assessment Concepts Course
- AWR 317: REP Core Concepts (2016)
- MGT 445: REP Plan Review (2016)
- AWR 351: REP Ingestion Core Concepts Course (2018)
- AWR 318: REP Disaster Initiated Review (2019)
- PER-314: REP Exercise Evaluator (2019)
- MGT 453: REP Post-Plume Plan Review Course (2019)
- FEMA G235 Emergency Planning
- FEMA K146 Homeland Security Exercise and Evaluation Program
- Incident Command System 300: Intermediate ICS
- Incident Command System 400: Advance ICS for Complex Incidents
- L101: Foundations of Emergency Management
- G290/291: Basic Public Information Office /Joint Information System Operations
- AWR 317: Radiological Emergency Preparedness Core Concepts
- MGT 445: Radiological Emergency Preparedness Plan Review Course
- AWR 318: Radiological Emergency Preparedness Ingestion Core Concepts Course
- Radiation Emergency Medicine (REAC/TS - ORISE)
- AWR 111: Basic EMS Concepts for CBRNE Events
- AWR140: WMD Radiological / Nuclear Awareness Online
- FEMA Independent Study Professional Development Series



Memo

To: Daren Strickland
Radiation Control Physicist
Bureau of Air Management
CT DEEP

From: Jeff Semancik 
Radiation Division Director
Bureau of Air Management
CT DEEP

CC: Qualification Journal
Michael Firsick, Office

Director Date: 8/9/2024

Re: Credit for Training

RCP-903.1 (Revision 2) *Qualifications and Training* defines the minimum essential elements of training required for radioactive materials inspection and licensing personnel as well as additional training required for the performance of specialized activities. Initial qualification of staff existing staff is required for establishing a Radioactive Materials Program (RMP) compatible with federal programs. In accordance with Step 6.1, the Radiation Division Director may grant credit for initial training requirements, "for applicable education, training, and/or experience received prior to joining the RMP."

You are granted credit for initial training and are qualified to conduct the following activities:

- Inspection (I)
- Licensing (L)

Credit is granted based upon your:

- 1) Training. You have completed or received alternate credit for all the required initial agreement state training as described in Radioactive Materials Program Procedure (RMPP) RCP-903.1 *Qualification and Training*.

- 2) Training and experience. You worked with qualified NRC License Reviewers from NRC Region 1 performing licensing actions.
- 3) Experience accompanying NRC Inspectors on inspections of Connecticut licensees.
- 4) Experience and training on the NRC regulations, policies, plans and procedures being incorporated into Connecticut's application to become an agreement state.
- 5) Experience, engaged for over three years writing, reviewing and revising RMP Procedures, regulations and other components of Connecticut's application to become an agreement state.
- 6) Remediation of the New England Air Museum (NEAM) from contamination of both military and non-military radium and other devices. You managed the project under the Division's NRC license for the purpose of remediation and establishing NEAM as a general licensee for radium dial gauges. Four large buildings were surveyed and remediated by division staff under your supervision during these actions at this multi-acre site. All work was performed following the guidance of NUREG 1757 "Consolidated NMSS Decommissioning Guidance" and NUREG 1575 "Multi-Agency Radiation Survey and Site Investigation Manual" (MARSSIM). NEAM was successfully removed from the Division's license in the summer of 2017.
- 7) Qualifications and experience as the Radiation Safety Officer for an academic material licensee.
- 8) Training and Experience with radiation detection equipment at commercial material licensees and CT DEEP. Completed formal training on gamma spectroscopy and instrumentation.


Documentation of this alternative qualifications shall be maintained with your Qualification Journals.

.



Memo

To: Brandon Graber
Environmental Analyst 3
Bureau of Air Management
CT DEEP

From: Jeff Semancik 
Radiation Division Director
Bureau of Air Management
CT DEEP

CC: Qualification Journal
Michael Firsick, Office Director

Date: 8/9/2024

Re: Credit for Training

RCP-903.1 (Revision 2) *Qualifications and Training* defines the minimum essential elements of training required for radioactive materials inspection and licensing personnel as well as additional training required for the performance of specialized activities. Initial qualification of staff existing staff is required for establishing a Radioactive Materials Program (RMP) compatible with federal programs. In accordance with Step 6.1, the Radiation Division Director may grant credit for initial training requirements, "for applicable education, training, and/or experience received prior to joining the RMP."

You are granted credit for initial training and are qualified to conduct the following activities:

- Inspection (I)
- Licensing (L)

Credit is granted based upon your:

- 1) Training. You have completed or received alternate credit for all the required initial agreement state training as described in Radioactive Materials Program Procedure (RMPP) RCP-903.1 *Qualification and Training*.

- 2) Training and experience. You worked with qualified NRC License Reviewers from NRC Region 1 performing licensing actions.
- 3) Experience accompanying NRC Inspectors on inspections of Connecticut licensees.
- 4) Experience and training on the NRC regulations, policies, plans and procedures being incorporated into Connecticut's application to become an agreement state.
- 5) Experience, engaged for over three years writing, reviewing and revising RMP Procedures, regulations and other components of Connecticut's application to become an agreement state.
- 6) Training and experience in use of radiation detection equipment at commercial licensees. In addition, formal training on use of instrumentation as a health physics technician.
- 7) Training and experience in causal analyses at a commercial reactor licensee. You were qualified and performed numerous causal analyses.
- 8) Education as a Certified Health Physicist.

Documentation of this alternative qualifications shall be maintained with your Qualification Journals.

.



Memo

To: Kirsten Davies
Supervising Radiation Control Physicist
Bureau of Air Management
CT DEEP

From: Jeff Semancik 
Radiation Division Director
Bureau of Air Management
CT DEEP

CC: Qualification Journal
Michael Firsick, Office

Director Date: 8/9/2024

Re: Credit for Training

RCP-903.1 (Revision 2) *Qualifications and Training* defines the minimum essential elements of training required for radioactive materials inspection and licensing personnel as well as additional training required for the performance of specialized activities. Initial qualification of staff existing staff is required for establishing a Radioactive Materials Program (RMP) compatible with federal programs. In accordance with Step 6.1, the Radiation Division Director may grant credit for initial training requirements, "for applicable education, training, and/or experience received prior to joining the RMP."

You are granted credit for initial training and are qualified to conduct the following activities:

- Inspection (I)
- Licensing (L)

Credit is granted based upon your:

- 1) Training. You have completed all the required initial agreement state training as described in Radioactive Materials Program Procedure (RMPP) RCP-903.1 *Qualification and Training*.

- 2) Training and experience. You worked with qualified NRC License Reviewers from NRC Region 1 performing licensing actions.
- 3) Experience accompanying NRC Inspectors on inspections of Connecticut licensees.
- 4) Experience and training on the NRC regulations, policies, plans and procedures being incorporated into Connecticut's application to become an agreement state.
- 5) Experience, engaged for over three years writing, reviewing and revising RMP Procedures, regulations and other components of Connecticut's application to become an agreement state.


Documentation of this alternative qualifications shall be maintained with your Qualification Journals.

.



Memo

To: Jeff Semancik
Radiation Division Director
Bureau of Air Management
CT DEEP

From: Michael Firsick 
Office Director
Bureau of Air Management
CT DEEP

CC: Qualification Journal

Date: 8/9/2024

Re: Credit for Training

RCP-903.1 (Revision 2) *Qualifications and Training* defines the minimum essential elements of training required for radioactive materials inspection and licensing personnel as well as additional training required for the performance of specialized activities. Initial qualification of staff existing staff is required for establishing a Radioactive Materials Program (RMP) compatible with federal programs. In accordance with Step 6.1, the Radiation Division Director may grant credit for initial training requirements, "for applicable education, training, and/or experience received prior to joining the RMP."

You are granted credit for initial training and are qualified to conduct the following activities:

- Inspection (I)
- Licensing (L)

Credit is granted based upon your:

- 1) Training. You have completed or received alternate credit for all the required initial agreement state training as described in Radioactive Materials Program Procedure (RMPP) RCP-903.1 *Qualification and Training*.


- 2) Training and experience. You worked with qualified NRC License Reviewers from NRC Region 1 performing licensing actions.
- 3) Experience accompanying NRC Inspectors on inspections of Connecticut licensees.
- 4) Experience and training on the NRC regulations, policies, plans and procedures being incorporated into Connecticut's application to become an agreement state.
- 5) Experience, engaged for over three years writing, reviewing and revising RMP Procedures, regulations and other components of Connecticut's application to become an agreement state.
- 6) Training and experience with Root Cause Analysis. You were a qualified Root Cause evaluator at commercial reactor licensee and conducted several root causes.
- 7) Training and Experience with radiation detection equipment in the U.S. Navy, a commercial reactor licensee and CT DEEP. Completed formal training on gamma spectroscopy and other instrumentation.
- 8) Training. Completed EPA Multi-Agency Radiological Site Survey Investigation Manual (MARSSIM) course.
- 9) Experience in reviewing simple and complex decommissioning plans and final status surveys for licensees in Connecticut. You have been responsible for Connecticut's review of License Termination Plans and Site Decommissioning Plans, ensuring licensee compliance with the Multi-Agency Radiological Site Survey Investigation Manual (MARSSIM) and proper dose modeling, including document review, on sight inspection, and confirmatory sampling. These projects have included numerous buildings utilized for both commercial and naval nuclear fuel manufacturing, commercial nuclear power contaminated component refurbishment, commercial nuclear power plant, research and development, a radioactive waste burial site and the remediation of a contaminated brook. Decommissioning projects include (but not limited to):
 - (a) United Nuclear Corporation (UNC)
 - (b) Various non-military radium use site, clock factory sites

Documentation of this alternative qualifications shall be maintained with your Qualification Journals.



Memo

To: Michael Firsick
Office Director
Bureau of Air Management
CT DEEP

From: Jeff Semancik 
Radiation Division Director
Bureau of Air Management
CT DEEP

CC: Qualification

Journal Date: 8/9/2024

Re: Credit for Training

RCP-903.1 (Revision 2) *Qualifications and Training* defines the minimum essential elements of training required for radioactive materials inspection and licensing personnel as well as additional training required for the performance of specialized activities. Initial qualification of staff existing staff is required for establishing a Radioactive Materials Program (RMP) compatible with federal programs. In accordance with Step 6.1, the Radiation Division Director may grant credit for initial training requirements, "for applicable education, training, and/or experience received prior to joining the RMP."

You are granted credit for initial training and are qualified to conduct the following activities:

- Inspection (I)
- Decommissioning (D)
- Decommissioning Program Manager/Tech Reviewer (T)

Credit is granted based upon your:

- 1) Qualifications and experience as the Radiation Safety Officer for the Divisions NRC Materials license 06-27895-02.

- 2) Extensive experience in reviewing simple and complex decommissioning plans and final status surveys for licensees in Connecticut. You have been responsible for Connecticut's review of License Termination Plans and Site Decommissioning Plans, ensuring licensee compliance with the Multi-Agency Radiological Site Survey Investigation Manual (MARSSIM) and proper dose modeling, including document review, on sight inspection, and confirmatory sampling. These projects have included numerous buildings utilized for both commercial and naval nuclear fuel manufacturing, commercial nuclear power contaminated component refurbishment, commercial nuclear power plant, research and development, a radioactive waste burial site and the remediation of a contaminated brook. Decommissioning projects include (but not limited to):
 - (a) Site of the former Connecticut Yankee Atomic Power Station (CY)
 - (b) Knolls Atomic Power Laboratory (KAPL)
 - (c) Combustion Engineering/Asea Brown Boveri (CE/ABB)
 - (d) United Nuclear Corporation (UNC)
 - (e) Various non-military radium use site, clock factory sites
 - (f) Shulz Electric Motor Corp
 - (g) Bristol Meyers Squib facility
- 3) Remediation of the New England Air Museum (NEAM) from contamination of both military and non-military radium and other devices. You managed the project under the Division's NRC license for the purpose of remediation and establishing NEAM as a general licensee for radium dial gauges. Four large buildings were surveyed and remediated by division staff under your supervision during these actions at this multi-acre site. All work was performed following the guidance of NUREG 1757 "Consolidated NMSS Decommissioning Guidance" and NUREG 1575 "Multi-Agency Radiation Survey and Site Investigation Manual" (MARSSIM). NEAM was successfully removed from the Division's license in the summer of 2017.
- 4) Knowledge and experience with NRC decommissioning standards including NUREG 1757 "Consolidated NMSS Decommissioning Guidance" and NUREG 1575 "Multi-Agency Radiation Survey and Site Investigation Manual" (MARSSIM). As a member of the Conference of Radiation Control Program Directors (CRCPD) working group on decommissioning you have reviewed and provided comments on the recent revision to MARSSIM.
- 5) Experience in conducting inspections. Specifically, you have conducted and supervised staff assisting the Connecticut Department of Public Health in performing inspections

at the State's hospitals and other complex medical facilities for the purposes of Center for Medicare/Medicaid Services compliance and state licensure. This assistance has been in the form of inspecting medical facilities' use of radiation producing devices and a holistic look at radiation protection programs at these locations.

- 6) Experience and training in the transport radioactive material in compliance with the requirements of 49 CFR. You have maintained training and conducted all tasks including packaging, manifesting, and surveying the Division's radioactive sources for transport. You review all state DOT permits for shipping radioactive materials in the state to determine if Connecticut State Police escort or inspections are necessary. You have responded to and supervised staff in response to shipping accidents and incidents.
- 7) Experience accompanying NRC Inspectors on inspections of Connecticut licensees.
- 8) Training. You have completed training in health physics, regulation of radioactive materials, transportation of radioactive materials, decommissioning planning and operations, and uses of radioactive materials.
- 9) Experience and training on the NRC regulations, policies, plans and procedures being incorporated into Connecticut's application to become an agreement state.
- 10) Experience, engaged for more than three years writing, reviewing and revising RMP Procedures, regulations and other components of Connecticut's application to become an agreement state.
- 11) Training and Experience with radiation detection equipment at commercial material licensees and CT DEEP. Completed formal training on gamma spectroscopy and other instrumentation.

Documentation of this alternative qualifications shall be maintained with your Qualification Journals.

Attach:

Resume of Michael Firsick

.

Michael E. Firsick
Office Director, Radiation Division CT DEEP
Radiation Safety Officer

Summary of Qualifications

Forty-two years of experience in radiation protection.

Considerable knowledge of Department of Energy and Environmental Protection (DEEP) policies and procedures, the principles of ionizing radiation and its measurement, knowledge of health and accident hazards associated with ionizing radiation, extensive knowledge of state and federal regulations pertaining to ionizing radiation, considerable ability to evaluate and recognize radiological hazards, substantial ability in the use and calibration of radiation detection instrumentation, considerable interpersonal skills, ability to supervise others in complex tasks. Radiation Safety Officer for the State of Connecticut's Department of Energy and Environmental Protection's US NRC license.

Professional Experience

Regulations Development- Developed and wrote radiological remediation standard for State of Connecticut.

Regulatory Oversight- provided direct regulatory oversight at the Connecticut's operating and decommissioning nuclear reactors.

Decommissioning Oversight Experience- Responsible for Connecticut's review in License Termination Plans and Site Decommissioning Plans. Responsible for insuring licensee compliance with the Multi-Agency Radiological Site Survey Investigation Manual (MARSSIM) and proper dose modeling, including document review, on sight inspection, and confirmatory sampling.

Emergency Response- Responsible for maintenance and training of Connecticut's nuclear emergency response plan including direct field operations. Responsible for determining public protective actions for various radiological scenarios, providing recommendations to chief elected officials.

Division Liaison- Acts as Division and Agency liaison giving oral presentations to other departments within the DEEP, State government and various federal agencies such as the Nuclear Regulatory Commission, Environmental Protection Agency, U. S. Department of Transportation, Federal Emergency Management Agency, Federal Bureau of Investigation, and others.

Radiological Assessment- Performs complex radiological studies to evaluate worker and public exposure to radiation at industrial facilities and nuclear power stations and development of corrective actions to ensure compliance with state and federal regulations.

Environmental Monitoring- Responsible for state wide radiological environmental monitoring program, which includes milk, fish, water, sediment, soil, shellfish, air, and vegetation.

Radiological Inspections- Leads inspections teams at the States hospitals to ensure compliance with the States radiological regulations.

Radiation Safety Officer- RSO for USNRC License 06-27895-02, including full radiological oversight of remediation activities at a complex radium site in compliance with NUREG 5849 (MARRSIM).

Employment History

Connecticut Department of Energy and Environmental Protection-2023-Present
Hartford, Connecticut

Office Director, Division of Radiation

Directs Radiation Division staff, formulates and implements program goals and objectives, develops, implements and evaluates policies and programs. Prepares and assists in preparing of budgets, provides technical assistance to staff, provides information to the public and represents agency and state in meetings, prepares reports and correspondence, assists in hiring of new staff, advises senior staff in projects, legislation and policy.

Connecticut Department of Environmental Protection- 2002-2023

Hartford, Connecticut

Supervising Radiation Control Physicist

Supervises Radiation Control Physicist and Radiation Control Specialists performing complex radiological investigations, inspections and studies pertaining to control of all sources of ionizing and non-ionizing radiation. Supervises Radiation Control staff responding to incidents and accidents involving sources of ionizing radiation. Reports directly to the Division Director.

Connecticut Department of Environmental Protection- 1995-2001

Hartford, Connecticut

Radiation Control Physicist

Provides various regulatory oversight functions at facilities in Connecticut, which utilize radioactive material including the States decommissioning, and operation nuclear reactors to ensure compliance with state and federal regulations.

A.B.B. / Combustion Engineering-1982 to 1995

Windsor, Connecticut

Lead Senior Health Physics Technician (1992-1995)

Responsible for supervising radiation protection technicians and maintained license commitments to a broad scope NRC licensee.

Senior Health Physics Technician- 1988-1992

General daily operational health physics support including use and calibration of radiation protection instrumentation.

Health Physics Technician- 1982-1987

Performed various radiation protection functions both at the Windsor site and at various nuclear facilities around the United States.

Education and Training

US NRC Reactor Safety Course-4/19

Radiological Operations Support Specialist/MGT-455 (ROSS) Training- 8/18

US NRC RASCAL Course- 4/18

US NRC Diagnostic and Therapeutic Nuclear Medicine Course-10/17

US Army Medical Effects of Ionizing Radiation Course- 6/17

Dade Moeller Medical Radiation Safety Officer Training Course-3/17

Recurrent 49 CFR, Part 172, Subpart H Training 9/16, 11/19

DOE Radiation Specialist- 10/15

Manchester Community College-Supervision Course- 8/01, 10/16

Multi-Agency Radiation Site Survey Investigation Manual Training- 6/99, 5/18

RESRAD Training- 12/99, 4/18

Applied Waste Management-Transportation and Disposal Seminars-10/94, 6/96, 9/97

Combustion Engineering Professional Seminars-Special Topic in Nuclear Power-6/90

Technical Report Writing-4/89, Applied Statistics-2/90

Rockwell International Radiation Protection Technology Course-5/84


Central Connecticut State College- 1980-1982

First Aid and CPR Trained



Memo

To: Christopher Alford
Supervising Radiation Control Physicist
Bureau of Air Management
CT DEEP

From: Jeff Semancik 
Radiation Division Director
Bureau of Air Management
CT DEEP

CC: Qualification Journal
Michael Firsick, Office Director

Date: 8/9/2024

Re: Credit for Training

RCP-903.1 (Revision 2) *Qualifications and Training* defines the minimum essential elements of training required for radioactive materials inspection and licensing personnel as well as additional training required for the performance of specialized activities. Initial qualification of staff existing staff is required for establishing a Radioactive Materials Program (RMP) compatible with federal programs. In accordance with Step 6.1, the Radiation Division Director may grant credit for initial training requirements, "for applicable education, training, and/or experience received prior to joining the RMP."

You are granted credit for initial training and are qualified to conduct the following activities:

- Decommissioning (D)
- Decommissioning Program Manager/Tech Reviewer (T)

Credit is granted based upon your:

- 1) Training. You have completed all the required initial agreement state training as described in Radioactive Materials Program Procedure (RMPP) RCP-903.1 *Qualification and Training*.

- 2) Training and experience. You worked with qualified NRC License Reviewers from NRC Region 1 performing licensing actions.
- 3) Experience accompanying NRC Inspectors on inspections of Connecticut licensees.
- 4) Experience and training on the NRC regulations, policies, plans and procedures being incorporated into Connecticut's application to become an agreement state.
- 5) Experience, engaged for over three years writing, reviewing and revising RMP Procedures, regulations and other components of Connecticut's application to become an agreement state.
- 6) Training and Experience with radiation detection equipment at a commercial reactor licensee and CT DEEP. Completed formal training on gamma spectroscopy and other instrumentation.


Documentation of this alternative qualifications shall be maintained with your Qualification Journals.

.



Memo

To: Shannon Perry
Supervising Radiation Control Physicist
Bureau of Air Management
CT DEEP

From: Jeff Semancik 
Radiation Division Director
Bureau of Air Management
CT DEEP

CC: Qualification Journal
Michael Firsick, Office Director

Date: 8/9/2024

Re: Credit for Training

RCP-903.1 (Revision 2) *Qualifications and Training* defines the minimum essential elements of training required for radioactive materials inspection and licensing personnel as well as additional training required for the performance of specialized activities. Initial qualification of staff existing staff is required for establishing a Radioactive Materials Program (RMP) compatible with federal programs. In accordance with Step 6.1, the Radiation Division Director may grant credit for initial training requirements, "for applicable education, training, and/or experience received prior to joining the RMP."

You are granted credit for initial training and are qualified to conduct the following activities:

- Decommissioning (D)

Credit is granted based upon your:

- 1) Training. You have completed or received alternate credit for all the required initial agreement state training as described in Radioactive Materials Program Procedure (RMPP) RCP-903.1 *Qualification and Training*.

- 2) Training and experience. You worked with qualified NRC License Reviewers from NRC Region 1 performing licensing actions.
- 3) Experience accompanying NRC Inspectors on inspections of Connecticut licensees.
- 4) Experience and training on the NRC regulations, policies, plans and procedures being incorporated into Connecticut's application to become an agreement state.
- 5) Experience, engaged for over three years writing, reviewing and revising RMP Procedures, regulations and other components of Connecticut's application to become an agreement state.
- 6) Training and Experience with radiation detection equipment at a commercial reactor licensee and CT DEEP. Completed formal training on gamma spectroscopy and other instrumentation.
- 7) Experience in radiological remediation field experience at several DOE facilities including West Valley Project.

Documentation of this alternative qualifications shall be maintained with your Qualification Journals.

.