

## Appendix 4.6.3-3 - Resumes

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### EDUCATION

MBA - University of Connecticut, 2015  
MS - Rensselaer Polytechnic Institute, 1993  
BS Physics - United States Naval Academy, 1986

### EXPERIENCE

June 2014  
to Present

CONNECTICUT DEPT OF ENERGY & ENVIRONMENTAL PROTECTION  
Director, Radiation Division, Bureau of Air Management

State of Connecticut's radiation expert responsible for policy development, decision-making and program implementation in the areas of radiation safety, radiological emergency preparedness and response, radioactive materials licensing and inspection, radioactive waste management, and x-ray registration and inspection. Coordinates and oversees staff conducting Mammography Quality Standard Act (MQSA) inspections for the US Food and Drug Administration (FDA), state and federal hospital surveys for the CT Department of Public Health and Centers for Medicare & Medicaid Services, (CMS), of the Department of Health and Human Services (HHS). Responsible for oversight of radiation compliance and enforcement, decommissioning, environmental monitoring, and regulatory and statutory changes. Represents the State of Connecticut on radiation safety issues with the U.S. Nuclear Regulatory Commission (NRC), U.S. Department of Energy, U.S. Department of Transportation, U.S. Department of Homeland Security (DHS), US Food and Drug Administration (FDA), and U.S. Centers for Disease Control and Prevention (CDC). Serves as radiological technical expert for the agency, other state agencies, and as part of federal response framework. Coordinates with other state radiation directors through the Conference of Radiation Control Program Directors (CRCPD) and Organization of Agreement States (OAS) in establishing national policy and guidance for safe, secure, and environmentally responsible use of radiation. Served on the CRCPD Executive Board 2018 through 2021 and 2023 and elected to Chair for 2019. As chair, organized and coordinated CRCPD response to the COVID-19 public health emergency to provide regulatory relief and modified protocols to support safety of staff and minimize burden on regulated community. As chair of the CRCPD Committees on Naval Nuclear Propulsion (NNPP) and Commercial Nuclear Power facilitates forums to address issues of mutual interest with state radiation control programs and provide perspective of states' interests to federal partners. Works regionally with the New England Radiological Health Compact to promote interstate cooperation and mutual aid to radiological emergencies. Studies and serves as the state expert in the safe storage and disposal of high level and low level radioactive waste. Works with civilian and military nuclear power facilities and with academic, industrial and medical facilities that use radioactive material or operate ionizing radiation producing devices to ensure occupational and public radiation exposure is kept As Low As Reasonably Achievable (ALARA) without restricting beneficial uses. Member of the National Academies of Science, Engineering and Medicine committee on Merits and Viability of Different Nuclear Fuel Cycles and Technology Options and the Waste Aspects of Advanced Nuclear Reactors. Advises DHS on policy as it relates to states as member of the Government Coordinating Council (GCC) to the Cyber and Infrastructure Security Agency (CISA) Critical Infrastructure Protection Advisory Committee (CIPAC) – Nuclear Sector. As a FEMA Type 1 Radiological Operations Support Specialist (ROSS), provided radiation response expertise to Commonwealth of Pennsylvania during the Vibrant Response 16 and to City of Detroit during Dense Urban Terrain 19 national improvised nuclear detonation exercises, and to local authorities during Scarlet Thunder, Bulldog Thunder and Silent Thunder radiological threat, detection and consequence management exercises involving a stolen radiological source. Evaluated candidates participating FEMA National Urban Science and Technology Lab's Virtual Exercise Simulation Tool (VEST) a virtual method for qualifying ROSS in responding to a terrorist nuclear detonation in a major urban area. Provides sound judgment and knowledge that would be critically necessary in the event of a nuclear or radiological threat or disaster and oversees exercises to assure readiness of such an incident within the state, the New England Region, or the tri-state metropolitan New York area. Appointed by Governor Lamont as

- Designated state official to implement NRC Agreement State program
- US NRC State Liaison Officer
- Designated official to receive advance notifications of certain shipments of radioactive material, nuclear waste and spent nuclear fuel through the state of Connecticut
- State representative to the Northeast High Level Radioactive Waste Transportation Task Force at the Council of State Governments

- Alternate Commissioner for state of Connecticut on the Atlantic Interstate Low-Level Radioactive Waste Compact

January 2012  
to June 2014

DOMINION NUCLEAR CONNECTICUT  
Director of Nuclear Engineering, Millstone Power Station

Responsible for leadership and management of Engineering Services at Millstone Power Plant. Developed processes and programs to improve long term equipment performance and ensured tools and processes in place to effectively manage engineering workload. Responsible for the planning and execution of all engineering activities during on-line, forced outages, refuel outages and unplanned power reductions to ensure the safe, reliable and economic operation of the two units at Millstone Nuclear Power Generating Station. Qualified as Director of Station Emergency Operations responsible for directing all station actions overall command and control of the station emergency response organization and the licensee emergency response including event classification, notification, release of information to off-site authorities, recommending protective actions to the State of Connecticut, and requesting federal assistance to support station response. Oversaw the performance and development of approximately 160 professional and hourly staff personnel. Developed and implemented strategies to lead Millstone Engineering organization to industry-leading performance. Provided leadership and strategic direction to engineering leadership team to achieve consistently high levels of performance. Provided oversight of key performance indicators to ensure business plan objectives are met. Administered and oversaw all programs and processes in support of Engineering, including budget and cost monitoring, recruitment and staffing, work control, outage planning and performance improvement/corrective actions. Provided oversight of major projects (approx \$75 million annually) and initiatives to ensure industry best practices were implemented and nuclear safety was maintained. Served as the vice-chairperson of Facility Safety Review Committee. Ensured compliance with legal/environmental requirements and in accordance with established company policies and procedures. Interfaced faces with industry, commercial, community and government stakeholders. Established and maintained a work environment that is free of harassment, intimidation, retaliation and discrimination.

June 2009  
to December 2011

DOMINION NUCLEAR CONNECTICUT  
Plant Manager, Millstone Power Station

Responsible for directing and coordinating activities associated with the day-to-day nuclear station operations and maintenance, served as the vice-chairperson of Facility Safety Review Committee, administered the nuclear material control program and assumed the position of site vice president in his/her absence. Responsible for the management of Operations, Maintenance, Outage Management and Planning organizations and their related processes and/or systems. This included planning, evaluating and recommending business strategy and processes for assigned area; responsibility for company assets and \$230 million annual budget; and management of 800 assigned human resources. Qualified as Director of Station Emergency Operations responsible for directing all station actions overall command and control of the station emergency response organization and the licensee emergency response including event classification, notification, release of information to off-site authorities, recommending protective actions to the State of Connecticut, and requesting federal assistance to support station response. Ensured compliance with legal/environmental requirements and in accordance with established company policies and procedures. Served as a liaison to regulatory agencies, commercial, media, community, and industry stakeholders and ensured plant compliance in meeting legal and environmental requirements.

January 2007  
to May 2009

DOMINION NUCLEAR CONNECTICUT  
Operations Manager, Millstone Power Station

Responsible for performance of 225person Operations Department including directing and coordinating station operations and fuel handling activities in accordance with approved plans, programs, licenses, Technical Specifications, and good operating practices. Responsible for identifying deviations from the Technical Specifications and Facility Operating License and for reporting any unusual occurrences in connection with station operations to the Plant Manager or Director Safety & Licensing. Also responsible for development and implementation of uniform operating policies and procedures, implementation of on-the-job training for operations personnel, ensuring that each shift was adequately staffed and sufficient back-up personnel are available, ensuring that all required operating data was properly recorded and retained as appropriate, and being a participating member of the Facility Safety Review Committee.



June 2006  
to December 2006

DOMINION NUCLEAR CONNECTICUT  
Assistant Operations Manager, Millstone Power Station

Second line supervisor supporting activities for the Operations Manager for Millstone Units 2 and 3. Responsible for training and qualification of personnel and oversight of outage and online activities. Also responsible for reinforcement and implementation of uniform operating policies and procedures, implementation of on-the-job training for operations personnel, ensuring that each shift was adequately staffed and sufficient back-up personnel are available, ensuring that all required operating data is properly recorded and retained as appropriate, and being an alternate member of the Facility Safety Review Committee

Feb 2005  
to May 2006

DOMINION NUCLEAR CONNECTICUT  
Supervisor Nuclear Shift Operations, Millstone Unit 3

Responsible for supervision and operational guidance in support of shift operations and shift managers. Reviewed and approved operational activities to ensure compliance with licensed requirements. Coordinated operational related activities with other departments. Ensured plant was consistently operated in a safe, efficient, and planned manner; and that management expectations for safety, radiation protection, and general work practices were met across all operating shifts. Ensured operating crews maintain plant operations (including reactor power level, core distribution parameters, and reactivity conditions) in compliance with license requirements as well as company procedures and policies. Oversaw plant operations during normal, refueling, abnormal, and emergency operations. Reviews Operations Department's procedures and made recommendations for change. Ensured scheduling of 120 personnel for shift coverage, training, vacation, sick leave and other station needs. Reviewed operating trends and component material conditions to identify operating problems and worked with the appropriate department to resolve the issues.

June 2002  
to Feb 2005

DOMINION NUCLEAR CONNECTICUT  
Shift Manager, Millstone Unit 3

Senior federally licensed person on shift, responsible for all operations of commercial nuclear power plant. Functioned as the senior utility manager on shift for Millstone 3. Lead and coordinated the activities of station groups to accomplish planned work activities and testing as well as response to plant challenges. Ensured plant was operated in a safe, efficient, and planned manner; and that management expectations for safety, radiation protection, and general work practices were being met. Ensured plant operations were maintained in compliance with license requirements as well as company procedures and policies. Directly supervised a nine person operations shift. Directed plant operations during normal, refueling, abnormal, and emergency operations. Demonstrated practical application of integrated system concepts and command and control of a shift team in successfully managing daily operations and mitigating plant casualties and emergencies. Provided oversight function of Unit Operations; reinforced and improved upon established department standards for shift crew conduct in areas such as professionalism, teamwork, communications, training and qualification.

August 1998  
to May 2002

DOMINION NUCLEAR CONNECTICUT  
Unit Supervisor, Millstone Unit 3

Responsible for day-to-day operations of Millstone Unit 3. Supervised Operations personnel in the efficient, safe, cost effective operation of the reactor, turbine generator and auxiliary equipment. Ensured safe and conservative operation of the reactor and ensure that power level, core power distribution parameters, and other reactivity conditions were maintained within the operating procedure and Technical Specification limits. Authorized all maintenance and testing activities that impact plant operations. Ensured plant reliability was maintained to the highest level possible by maximizing availability of safety-related equipment and equipment important to safety and habitability. Ensured management expectations for safety, radiation protection, and general work practices were being met. Supervised activities of Control Room and Plant Equipment Operators and reinforced established standards for performance in areas such as professionalism, teamwork, communications, training, and qualification. Directed Control Room operations during normal, abnormal, and emergency situations.

August 1996  
to August 1998

NORTHEAST NUCLEAR ENERGY COMPANY  
Unit Supervisor Candidate, Millstone Unit 1

From August 1996 to January 1998, temporarily assigned as Senior System Engineer to Millstone 1 Technical Support while awaiting school start. Enrolled in Millstone 1 Licensed Operator Initial Training program from February until

August 1998. Completed systems and administration sections prior to cancellation of new license training program due to unit decommissioning decision.

August 1993  
to August 1996

NORTHEAST NUCLEAR ENERGY COMPANY  
Senior Engineer, Millstone Unit 1 Technical Support

Planned, coordinated, and performed instrumentation and control and electrical assignments in support of the design, backfit, operation, maintenance, and refueling of Millstone Unit 1. Responsible for design review, implementation, and start up testing of major system upgrades including the plant's first distributed control system (Foxboro I/A) and microprocessor based safety valve actuation system (Foxboro Spec200 Micro). Provided plant support and independent reviews for projects including control room design review, statistical analysis of safety system setpoints, and process interlock sequencing. System Engineer, directly responsible for all preventative, predictive, and corrective maintenance of plant instrumentation, controls, radiation monitoring, and safe shutdown systems. Maintenance Rule Expert Panel member responsible for assisting in scoping and implementation of program monitoring the effectiveness of maintenance in reducing overall plant risk.

October 1991  
to August 1993

NORTHEAST UTILITIES SERVICE COMPANY  
Technical Trainer, Instrumentation and Controls

Responsible for training instrument and control technicians in the maintenance of reactor control and monitoring systems at Millstone Unit 1 and Millstone Station. Instruction included course development, classroom presentation, and laboratory training in instrumentation, sensors, and systems. Lead instructor for the 8085-based microcomputer basics and troubleshooting course. Assisted in writing knowledge base computer source code for an expert system to troubleshoot Millstone 3 digital rod control system faults.

June 1986  
to October 1991

Lieutenant, United States Navy

October 1990  
to October 1991

USS SCOTT (DDG-995)  
Communications Officer

Accountable for the operation and maintenance of the ship's external communications and cryptographic systems. Directly supervised a division of 23 communications specialists. Established an extensive continuing training program and a quality tracking system to maximize divisional effectiveness. Responsible to the Commanding Officer for the accounting and control of all shipboard communications security material. Earned the Navy Achievement Medal for coordinating outstanding satellite, HF, and UHF communications connectivity in extreme northern latitudes in support of intensive multinational exercises.

April 1988  
to April 1990

USS ABRAHAM LINCOLN (CVN-72)  
Reactor Controls Officer

Accountable for the maintenance and operations of all reactor plant instrumentation and control systems for two 550 MW<sub>e</sub> Pressurized Water Reactors. Directly supervised 55 senior nuclear electronics technicians in the startup testing and operational implementation of the U. S. Navy's first entirely microprocessor-based nuclear power plant digital instrumentation and control system. Earned the Navy Achievement Medal for accomplishments contributing towards a highly successful system evaluation including an extensive two year startup and acceptance test program. First in peer group to qualify propulsion plant watch officer and reactor duty officer, overall responsible for safe operations of a large core pressurized water reactor plant. Certified nuclear engineer qualified by the Office of Naval Reactors.

June 1986  
to March 1987

NAVAL NUCLEAR POWER SCHOOL  
Physics Instructor

Responsible for the training of nuclear screened personnel. Provided elementary physics instruction to students in preparation for advanced engineering courses.

**PROFESSIONAL BOARDS/COMMITTEES**

Connecticut Nuclear Energy Advisory Council (NEAC), Alternate Chair

Connecticut Council for Advancing Nuclear Energy Development

National Association of Regulatory Utility Commissioners (NARUC)-National Association of State Energy Officials (NASEO) Advanced Nuclear State Collaborative

Nuclear Advisory Committee member, Three Rivers Community College

Conference of Radiation Control Program Directors (CRCPD)

- Executive Board 2018-2021. 2023, Chair 2019
- Chair E-37 Committee on Naval Nuclear Propulsion Program
- Chair, E-47 Committee on Commercial Nuclear Power
- Advisor, HS/ER-4, Committee for Evaluation of Guidelines, Resources and Tools for Radiological and Nuclear Emergency Response and Recovery

Connecticut Department of Public Health (DPH) Laboratory Preparedness Advisory Committee (LPAC)

US Department of Homeland Security (DHS) Cyber and Infrastructure Security Agency (CISA) Critical Infrastructure Protection Advisory Committee (CIPAC)

- Nuclear Sector Government Coordinating Council (GCC)
- Spent Nuclear Fuel Transportation Security Working Group

National Academies of Science, Engineering and Medicine (NASEM) committee on Merits and Viability of Different Nuclear Fuel Cycles and Technology Options and the Waste Aspects of Advanced Nuclear Reactors

Principal Member on the Interagency Steering Committee on Radiation Standards

**PUBLICATION**

National Academies of Sciences, Engineering, and Medicine. 2023. Merits and Viability of Different Nuclear Fuel Cycles and Technology Options and the Waste Aspects of Advanced Nuclear Reactors. Washington, DC: The National Academies Press.

Leek, Angela E., and Jeffrey D. Semancik. 'Nuclear Emergency Preparedness and Response', in Christopher Hobbs, Sarah Tzinieris, and Suresh K. Aghara (eds), The Oxford Handbook of Nuclear Security (online edn, Oxford Academic, 22 May 2023).

Leek, Angela E. and Jeffrey D. Semancik. February 2022. 'Compensatory considerations for radiological emergency response and public protective actions during the COVID-19 pandemic'. Health Physics. Vol. 221, No. 2. pp. 333-40.

**PROFESSIONAL EDUCATION**Professional Courses

2023	Radiological Emergency Preparedness Executive Education Program (Center for Homeland Defense and Security)
2023	Security of Nuclear Materials (NRC)
2023	Licensing Practices for Radioactive Materials (NRC)
2022	Safety Aspects of Industrial Radiography (NRC)
2022	Diagnostic and Therapeutic Nuclear Medicine (NRC)
2022	Brachytherapy, Gamma Knife and other Medical Uses of Radioactive Material (NRC)
2021	Transportation of Radioactive Material (NRC)
2021	Advanced Health Physics (NRC)
2021	Inspection Procedures (NRC)
2020	Physics of COVID-19 Transmission (MIT)
2020	Radiological Assessment System for Consequence Analysis (RASCAL) for radiological emergencies (NRC)
2019	Radiological Accident Assessment Concepts Course (FEMA)
2019	Principles of Reactor Safety R-800 (NRC)
2018	Fundamental Health Physics Self-Study Course H-122S (NRC)
2018	Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM) (EPA)
2017	Medical Effects of Ionizing Radiation (Armed Forces Radiobiology Research Institute)
2016	Federal Radiological Monitoring and Assessment Center Assessment Scientist (FRMAC)
2016	Transportation of Radioactive Materials 49 CFR 172.700 (RSCS)
2016	Radiological Operations Support Specialist (FEMA)
2015	Radiological Emergency Response Operations (FEMA)
2015	Radiological Emergency Planning: Terrorism, Security, & Communication (Harvard)
2015	Fundamentals of Gamma Spectroscopy (Canberra)
2015	Secondary Screener Radiation Isotope Identifier Device PER-245 (DHS)
2014	New Managers Orientation (State of CT)
2012	Engineering Director Course (Institute of Nuclear Power Operators (INPO))



**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 (MARSSIM).

**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.

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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

**Kirsten L Davies**

79 Elm Street  
Hartford, CT 06106 US  
Day Phone: 860-424-3690  
Mobile: 860-830-7741  
Email: kirsten.davies@ct.gov

**Availability:**

**Job Type:** Permanent

**Work Schedule:** Full-Time

**Work Experience:****State of CT, Department of Energy and Environmental Protection**

79 Elm Street  
Hartford, CT 06106 United States

**6/2023-Present**

**Hours per week:** 40

**Supervising Radiation Control Physicist**

**Duties, Accomplishments and Related Skills:** Oversight and training of inspectors for medical facilities with radiation production equipment, including the major hospital radiology departments throughout the State of Connecticut as well as assisting DPH with Medicaid/Medicare inspections. Performing MQSA inspections as well as training new staff since 2014 as part of the FDA contract, conducting annual audits at facilities, helping maintain the program, and helping with the contract quarterly administrative requirements.

Working on the Agreement State Application writing inspection procedures, working in conjunction with training and enforcement to ensure compatibility, and attending many accompaniments with NRC inspectors all for the Governor's initiative to have Connecticut become an Agreement State.

Training of new staff for Emergency Response for Millstone Power Station for Field Monitoring Team for radiation incidents and accidents in Connecticut. Participant as the afore mentioned positions as well as Dose Assessment and Duty Officer and Controller in numerous drills including those evaluated by FEMA. Participant in exercise planning meetings. On-call for Millstone emergency response.



AS part of the COOP (Continuation of Operations) plan CT DEEP Emergency Operations Liaison/Officer for the State Emergency Operations Center during events such as hurricanes, tropical storms, winter storms, and COVID pandemic.

Administrative maintenance of schedules and payroll submittals for staff.

Coverage as Duty Desk Officer for both DTX and RMI programs assisting clients with registration through the Ezfile portal and SIMS.

Maintenance of all licenses and certifications through required training and continuing education.

–HAZWOPER 40-hour training by completing annual 8-hour refresher, CEU's to maintain ARRT, CT Radiographer's license, MQSA credential, and most recently NRC Inspector/Licenser training.

### **Work Experience:**

#### **State of CT, Department of Energy and Environmental Protection**

79 Elm Street

Hartford, CT 06106 United States

**10/2018 – 6/2023**

**Hours per week: 35**

#### **Radiation Control Physicist**

**Duties, Accomplishments and Related Skills:** Inspector for medical facilities with radiation production equipment, including the major hospital radiology departments throughout the State of Connecticut as well as assisting DPH with Medicaid/Medicare inspections. Performing MQSA inspections since 2014 as part of the FDA contract, conducting annual audits at facilities, helping maintain the program, and helping with the contract quarterly administrative requirements.

Working on the Agreement State Application writing inspection procedures, working in conjunction with training and enforcement to ensure compatibility, and attending many accompaniments with NRC inspectors all for the Governor's initiative to have Connecticut become an Agreement State.

Emergency Response for Millstone Power Station for Field Monitoring Team and Dose Assessment for radiation incidents and accidents in Connecticut. Participant as the afore

mentioned positions as well as Duty Officer and Controller in numerous drills including those evaluated by FEMA. On-call for Millstone emergency response.

AS part of the COOP plan CT DEEP Emergency Operations Liaison/Officer for the State Emergency Operations Center during events such as hurricanes, tropical storms, winter storms, and COVID pandemic.

Administrative maintenance of telework schedules for individuals in a subordinate job class. Assisting in their training to become MQSA qualified inspectors.

Coverage as Duty Desk Officer for both DTX and RMI programs assisting clients with registration through the Ezfile portal and SIMS.

Maintenance of all licenses and certifications through required training and continuing education.

-HAZWOPER 40-hour training by completing annual 8-hour refresher, CEU's to maintain ARRT, CT Radiographer's license, MQSA credential, and most recently NRC Inspector/Licenser training.

**Supervisor:** Denny Galloway/Michael Firsick

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**Work Experience:**

**State of CT, Department of Energy and Environmental Protection**

79 Elm Street

Hartford, CT 06106 United States

**06/2013 – 10/2018**

**Hours per week:** 35

**Radiation Control Specialist**

**Duties, Accomplishments and Related Skills:**

Currently inspects facilities with radiation production equipment. FDA MQSA inspector for Connecticut. Take On-call as part of the Emergency Response Field Monitoring Team for radiation incidents and accidents in Connecticut and part of NERHC. HAZWOPER 40-hour trained, and annual 8-hour refresher taken.

**Supervisor:** Denny Galloway

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**Department of Homeland Security, TSA, Transportation Security Officer**

Tweed New Haven Airport  
New Haven, CT  
East Haven, CT 06512 United States

**11/2015 – 1/2017**

**Hours per week:** 20

**Duties, Accomplishments and Related Skills:** Airport Security, administrative searches, pat-downs, x-ray of luggage. Received time-off award for flexibility.

**Supervisor:** STSO Brigitte Berner (203-466-4101)

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**Education:**

**Various NRC courses**-to become qualified as a licenser and inspector as part of the Governor's initiative to become an Agreement State (List furnished upon request.)

**RAAC**- Albany, NY 40 Continuing Education Unit 7/2018

**AFFRI MEIR** Training with the Governor's CT Civil Support Teams, Windsor Locks 6/2017

**Radiological Emergency Response Operations**-Anniston, AL United States  
Technical or Occupational Certificate 08/2015

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**FDA-MQSA Inspector Training** Silver Spring, MD United States 05/2014

**Credits Earned:** 50.5 Continuing Education Unit

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**HAZWOPER** Hartford, CT United States  
Certificate 09/2013

**Relevant Coursework, Licenses and Certifications:**

40 Hour course complete 09/2013, 8 Hour refresher courses completed annually.

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**Middlesex Community College** Middletown, CT United States

Associate Degree 09/2007

**GPA:** 3.94 of a maximum 4.0

**Major:** Radiologic Technology

**Relevant Coursework, Licenses and Certifications:**

Certification from Middlesex Hospital School of Radiologic Technology

ARRT Certification # 433645

CT State License# 005326

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**FEMA ICS** Hartford, CT United States

**Relevant Coursework, Licenses and Certifications:**

Incident Command System:

ICS 100

ICS 200

ICS 700

ICS 800

IS-00303 Radiological Accident Assessment Concepts

IS-00003 Radiologic Emergency Management

IS-00546.a Continuity of Operations Awareness Course

IS-00235.b Emergency Planning

REP-Core Concepts

REP-Plan Review

Texas A&M Engineering Extension Service WMD/Terrorism Awareness for Emergency Responders

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**Job Related Training:**

**OJT-Field Monitoring** (with survey meters)

**OJT-Environmental Sampling** (soil, water, grass)

**OJT-Counting** (swipes and smears)

**OJT-Air Sampling** (portable air samplers, counting cartridges and filters)

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**Affiliations:**

ASRT-Member since 2020

CSRT - member since 2007

CRCPD - Member since 2013

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**Brandon Lee Graber, CHP**  
**Environmental Analyst III, Air Bureau - Radiation**  
**Connecticut Department of Energy and Environmental Protection**

79 Elm Street, Basement, Hartford CT 06106

Tel: 860-424-3921 / 203-584-4715

email: Brandon.Graber@CT.gov

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**BUSINESS EXPERIENCE**

**Philadelphia Electric, Limerick, PA**

9/1987-6/1993

Served as ALARA Physicist, Start-up & System Engineer for General Atomic gaseous liquid area radiation monitors, Effluent Physicist, and Instrumentation Physicist. Held Emergency Response Facilities (Site and Corporate) positions in Effluent/PAE recommendations.

**Nuclear & Environmental Services, Inc. (NES), Danbury, CT**

8/1993-6/1996

Served as Project Manager, Instrumentation Physicist, & Radiation Safety Officer (RSO) of multiple facilities. Managed multiple projects for decommissioning medical/industrial/utility sites of diverse isotopes/chemical mixes. Project development/implementation included turnkey operations of technical, budgetary, resource management (hardware and human), and developing/shipping/burial of waste streams.

**Nuclear Radiation Detectors, Inc. (NRD), Grand Island, NY**

7/1996-7/1998

Served as Radiation Safety Officer (RSO) and Industrial Safety Officer of manufacturing company producing Am-241 sources supporting smoke detector production worldwide. Significant accomplishments include provided technical competence to program, implemented emergency response team/plan, reduced hazardous/nuclear waste streams and qualified waste for reduced cost burial (\$1 million savings to budget).

**Dominion/Northeast Utilities, Waterford, CT**

10/1998-1/2022 (retired)

Served as Superintendent of Radiological Controls, overseeing Supervisor, Technician, and Engineering Staff to ensure safe environmental and industrial practices are adhered to. Previously have served as Radiological Engineer supporting all three units in effect to start-up units after NRC mandated shutdown. Developed instrumentation program including implementation of electronic dosimeter supporting access control. Supported Emergency Response Team (SERO) for team deployment and nuclear safety. Over seven years supervising Health Physics & Decontamination Technicians managing waste services (nuclear & hazardous). Served as "Swing" Supervisor managing different sections of Radiological Protection as the Department needed both Site HP and Planning supervision coverage. Provided support on numerous audits/self-assessments, both within Dominion and other utilities including SOER 10-2 at Waterford Station, Vermont Yankee, Millstone, and North Anna. Support Training as Subject Matter Expert in numerous areas and provide as Instructor for Health Physics Technician Continuing Training.

**Connecticut Department of Energy & Environmental Protection**

2/2022-present

Serves as Lead for Connecticut's development of an Agreement State; approval expected in 2025. Coordinated state's resources to develop statutes, regulations, procedures, and trained personnel to support agreement state status. Participated in NRC lead training to qualify as agreement state inspector and issue licenses. In addition to the above, qualified to perform state emergency preparedness activities to support state response to nuclear power plant accident or other radiological event.

**Selected Accomplishments**

- Received Health Physicist Certification (CHP '08, recertified '12, '16, '20) while working for Dominion.
- Spearheaded COVID19 controls in Radiological Control, protecting 1200 workers plus and additional 800 migrant workers. Task involved instituting novel ideas new to the industry, coordinated with the medical fields and CDC's guidance.
- Maintain Qualifications for Work Order Holder, Tagging Supervisor, CRC/TRB Chairperson, and Procedural Station Qualified Reviewer.
- Performed (lead) numerous Human Performance Reviews Boards and participated in associated Root Cause reviews, including oversight of final products (root cause reports and corrective actions) being presented to CARB.
- Dominion SOER 10-2 Audit Team for Millstone and North Anna (1Q, 2013); numerous audits to support self-assessments at both Dominion and other utilities.

## **Brandon Lee Graber, CHP**

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- Supervisor managing of Decon Staff reduction without reducing services ('8 - '13). Managed Protective Clothing project to switch from laundering PCs to disposable PCs.
  - Improved Decon Staff's standards adherence compliance with PI-AA-5000, and aligned the Decon Staff with Operation/Maintenance practices relative to Nuclear Safety (risk assessment) and Work Order implementation ('08 - '13).
  - Implemented Electronic Dosimetry system ('99) and Central Monitoring System ('01) at Millstone. Overseeing next generation of Electronic Dosimetry System implementation right now.
  - Re-Staffed Dosimetry Office after group lost three of four members in a six month period. During this time it was necessary to streamline activities to ensure adequate support; respirator inspections, respirator fit testing, Semi-annual TLD exchanges, and implemented new TLDs. Implemented two (2) new style respirators; one for SCBAs, one for Security.
  - Managed upgrade projects for Shepherd Calibrators, Whole Body Counters (WBC) and Gamma Spectroscopy systems. Management focused on financing and scheduling resources.
  - Supervisor managing of Radiological Analysis Group staff reduction without reducing services ('15-'22). Additionally, transferred Groundwater Protection, Radiological Environmental Monitoring, and Effluent monitoring to my group without increasing staff. This included the publication of the Annual Effluent and Environmental reports.
  - Managed implementation of Beyond-Design-Bases (BDB) accident response for Rad Protection and Chemistry.
  - Managed radiological portion for siting Millstone's Dry Cask Storage Facility, including Technical Specification compliance of fuel loading process.
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## **EDUCATION**

University of Lowell, Lowell, MA

B.S. in Physics, concentration in Radiation Sciences ('87)

University of Lowell, Lowell, MA

Completed coursework (less Thesis) for M.S. in Physics, concentration in Radiation Sciences ('87)

Degree never awarded

**Kristina M. Verderame**  
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### 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)



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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

Daren Strickland

#### Experience

1. Radiation Control Physicist, Radiation Division, Connecticut Dept. of Energy & Environmental Protection Year: 2000 to Present

#### Experience includes:

Participation in the development of Connecticut becoming an agreement state with the Nuclear Regulatory Commission for radioactive materials.

Inspection and enforcement of state regulations pertaining to use of radioactive material and industrial x-ray devices at facilities located in Connecticut. Survey and sampling of decommission sites throughout Connecticut to ensure compliance with state regulations.

Responding to radiological incidents and accidents. Development, implementation, and operation of a radiation mobile laboratory and a fixed laboratory for analysis during emergencies and routine analysis involving radiation and radioactive material. Preparing and submitting reports pertaining to surveys, incidents, and emergencies as required. Investigating complaints concerning exposure to ionizing radiation. Development and maintenance of site-specific health and safety requirements, and licensing requirements.

Performing detailed radiation monitoring, tests of air, water, and other materials. Performing radiological dose assessment of radiation exposure to workers and the general public. Maintaining and calibration of radiation detection equipment and other laboratory equipment. Participation in emergencies and development/ participation of emergency drills for nuclear power plants, state homeland security, and regional conferences.

2. Radiological Equipment Maintenance Officer, RMC Facility Connecticut Office of Emergency Management, Year 1998 to 2000

#### Experience includes:

Serving as the Radiation Safety Officer of a U.S. NRC Specific License. Supervising personnel and operations of distribution, maintenance and calibration of radiological detection equipment used by various towns in the state of Connecticut. Radiological surveys and leak testing relating to the U.S. NRC Specific License for radioactive material. Maintaining licenses and monitoring of employees for radiation exposure from the use of radioactive calibrators.

Reviewing and recommending changes in emergency plans for surrounding towns of the Millstone Nuclear Power Plant. Participating in various nuclear exercises and drills involving Millstone Nuclear Power Station. Training of first responders to an accident involving radioactive material.

Conducting radiation and environmental safety audits of the RMC Facility.

3. Environmental Safety Specialist II, Environmental Health and Safety University of Connecticut Year 1997 to 1998

#### Experience includes:

Developing and conducting radiation surveys of university facilities and operations for compliance of applicable guidelines and regulations involving radioactive material. Developing and administering a

radiation and radioactive material training program. Inspecting and monitoring equipment, work areas, work practices and procedures for compliance of University regulations.

Interpreting University regulations and developing safety guidelines pertaining to radiation safety. Supervising reception, distribution and transfer of regulated radioactive materials. Administering procedures for disposal of radioactive material.

Responding to emergencies involving radioactive materials and directing remediation efforts.

Investigating and submitting written reports on incidents involving radioactive material. Operating, maintaining and calibrating all lab instrumentation and radiation survey instruments. Supervising Radiation Specialist I, Technician I & II, student and clerical staff.

4. Radiation Safety Technician, Office of Health Safety University of  
Alabama Year: 1994 - 1997

Experience Includes:

Serving as the University's Radiation Safety Officer. Reporting to the Director of Health and Safety on the operations of the Radiation Safety Program. Interpreting State and Federal regulations and establishing procedures to meet compliance. Preparing and submitting to the State of Alabama, licensing, and amendments. Implementing training courses in the safe use of radioactive material. Maintaining and overseeing the Radiation Control Office. Acting as a liaison with the Radiation Safety Committee and the Radiation Safety Program.

Continuation of the previous duties assigned to the Assistant Radiation Safety officer.

5. Assistant Radiation Safety Officer, Radiation Control Office University of Alabama  
Year: May 1990 to 1994

Surveying and inspection of laboratories, radioactive sources, and radiation producing machines. Approving of radioactive material purchases. Collecting, processing and disposal of radioactive waste. Maintaining radiation dosimeter services.

Calibrating and maintaining of all laboratory instrumentation and radiation survey instruments. Acting on behalf of the Radiation Safety Officer in his/her absence. Provide technical advice or assistance to faculty and other University officials concerning safety requirements.

Participating in teaching of the Radiation Safety Short Course. Maintaining of the filing system for the Radiation Control office. Providing assistance during state or federal inspections.

Education

Associate of Science Degree, Radiation Protection, Central Florida Community College, 1990

**CHRISTOPHER P. ALFORD**  
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**Education:**

Keene State College - Keene, NH  
B.S. Chemistry

**May 2005**

**Recent Work Experience:**

***Radiation Control Physicist***

**CT Department of Energy and Environmental Protection - Waterford, CT      Jan 2022 – Present**

- Provide emergency response for radiation-based events as a dose assessor or field team member.
- Perform inspections at places of employment to ensure compliance with Connecticut regulations pertaining to radiation sources and radioactive materials.
- Operate, maintain, and perform troubleshooting on radiation detection equipment.
- Perform environmental radiation monitoring of air, water, and other materials.

***Nuclear Chemistry Supervisor***

**Millstone Power Station - Waterford, CT**

**Aug 2020 – Jan 2022**

Millstone Unit 2 Laboratory Supervisor

- Oversee a team of ten Chemistry Technicians.
- Supervise the performance of general plant chemistry in accordance with state and federal regulations, including the station Technical Specifications and National Pollutant Discharge Elimination System permit (NPDES).
- Oversee and implement QA/QC, environmental and online monitoring programs.
- Ensure analytical laboratory operates at high levels of performance through observations, evaluations and coaching.
- Interface with Senior Plant Management, Operations, Maintenance, Engineering and Work Management Groups.

Site Emergency Response Organization

- Operate MIDAS (Meteorological Information and Dose Assessment System) program to assist with identification, quantification and plume projection to assess dose to the public following a potential radiological release.

***Chemist II / III***

**Millstone Power Station - Waterford, CT**

**Oct 2014 – Aug 2020**

Primary System Program Owner

- Trending, data processing, and evaluation of reactor coolant system chemistry and program effectiveness (wet chemical and radiochemistry processes).
- Develop and update standard operating procedures for reactor coolant system chemistry control during normal operation and plant startups/shutdowns to incorporate industry operating experience and recommended guidelines.
- Develop plant startup and shutdown strategies related to reactor coolant system chemistry to ensure regulatory and industry guideline requirements are satisfied.



- o Develop and conduct initial and continuing training to laboratory technicians on plant startup and shutdown in relation to primary chemistry control processes.

Auxiliary Systems Program Owner, Responsibilities include:

- o Manage station resin inventories for reactor coolant chemical volume control systems and advanced liquid processing systems. This includes making recommendations to vendors in order to optimize the processing of liquid radioactive wastes for recycling or disposal processes.
- o Oversight of closed cooling water system chemical control programs which includes four different chemical control applications.
- o Trending, data processing, and evaluation of closed cooling system program effectiveness.
- o Oversight of the station's QA diesel fuel oil program, to ensure fuel supply is of sufficient quality to maintain operation of station safety-related equipment.

#### **Chemistry Technician**

**Millstone Power Station - Waterford, CT**

**Dec 2013 – Oct 2014**

- o Performed sampling and analysis of various radioactive liquid and gaseous streams in plant systems while observing compliance with applicable procedures and industrial safety practices.
- o Performed surveys of various samples, sampling locations and laboratories to identify potential contamination.
- o Operated and performed troubleshooting on laboratory instrumentation.
- o Performed reagent and standard preparation as well as instrument calibration and quality control.
- o Performed valve lineups and operated plant systems pertaining to chemistry such as sampling systems, radiation monitoring equipment, and equipment within the condensate polishing facility.

#### **Senior Chemistry Technician**

**Vermont Yankee Nuclear Power Station - Vernon, VT**

**Sept 2005 – Dec 2013**

Environmental Program Technician

- o Performed off-site environmental sampling and analyses in accordance with the Vermont Yankee Off-Site Dose Calculation Manual (ODCM).
- o Collected and processed samples that include airborne (Radioiodine and Particulate), Milk, Groundwater, Mixed Grasses, and Direct Radiation (Thermoluminescent Dosimeters).
- o Reviewed analyses results against effluent requirements and documented all data processed under the program.

Shift Technician

- o Performed sampling and analysis of various radioactive liquid and gaseous streams in plant systems while observing compliance with applicable procedures and industrial safety practices.
- o Performed surveys of various samples, sampling locations and laboratories to identify potential contamination.
- o Operated and performed troubleshooting on laboratory instrumentation.
- o Performed reagent and standard preparation as well as instrument calibration and quality control.
- o Performed valve lineups and operated plant systems pertaining to chemistry such as sampling systems, radiation monitoring equipment, and equipment within the condensate polishing facility.

**Shannon Perry**  
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### **Qualifications**

#### **NRC**

- Advanced Health Physics (H-201)
- Industrial Radiography (H-305)
- Lab for Fundamental Health Physics (H-122 Lab)
- MARSSIM (H-121)
- Fundamental Health Physics (H-122)
- Transportation of Radioactive Materials (H-308)
- Internal Dosimetry (H-312)
- Environmental Monitoring and Air Sampling for Radioactivity (H-130S)

#### **FEMA**

- Radiological Accident Assessment Concepts (RAAC) IS-00303
- Radiological Emergency Response Operations (RERO)
- RCCC REP Concepts Course
- RPPR REP Plan Review □ Ingestion Core Concepts
- ICS 300 Intermediate Incident Command System for Expanding Incidents
- ICS 400 Advanced Incident Command System for Complex Incidents

#### **Center for Homeland Defense and Security**

- Radiological Emergency Preparedness Early Career Executive Program-  
(Naval Postgraduate School, Monterey, CA)

#### **Miscellaneous**

- Radiation Specialist Course
- CAMEO
- 40 Hour Hazwopper
- 10 Hour Construction Hazard Awareness Training
- CPR Certified
- Respirator Qualified

## **Work Experience**

### **Radiation Control Physicist**

**11/2018-Present- CT Department of Energy and Environmental Protection  
(Hartford, CT)**

- Subject matter expert for RadResponder Program.
- Lead for EcoGamma Program.
- Manage radiation instrument inventory/calibrations (over 450 pieces of equipment).
- Participation in emergency response drills with Millstone Power Station, Electric Boat, members of the NERHC (New England Radiological Health Compact), civil support teams, and Connecticut Yankee.
- Quarterly leak checks on radioactive sources.
- Quarterly lab survey.
- Quarterly field monitoring team kit inventory (6 kits throughout the state).
- Respond to radiation alarms at transfer stations/metal scrapyards throughout the state.
- Industrial x-ray inspections.
- Hospital Inspections.
- Field Monitoring Team member for plume and intermediate phases.
- Qualified to conduct plume modeling and dose assessment.
- Decommissioning experience.

### **Radiation Control Technician**

**01/2018- 11/2018- West Valley Demonstration Project (West Valley, NY) (Intomes Technical Services)**

- Support for demolition of the vitrification plant.
- Radiation protection coverage for vent duct removal of the lower extraction aisle in the main plant in preparation for entry into vent wash room.
- Radiation protection coverage for entry into the vent wash room.
- Received asbestos worker training and bubble suit training.
- Ensured all personnel and materials entering and exiting contaminated boundaries did so in compliance with established procedures.

### **Radiation Control Technician**

**07/2017- 12/2017- Tank Farms Operations, Hanford Site (Richland, WA) (WRPS)**

- Supported and assisted as radiation protection coverage for the retrieval group with the movement of tank waste from single shell tanks to double shell tanks.
- Performed routine radiation, contamination and airborne radioactivity surveys.

- Completed daily performance/source checks on radiation protection instrumentation.
- Ensured all personnel and materials entering and exiting contaminated boundaries did so in compliance with established procedures.

**Radiation Control Technician**

01/2017- 07/2017- **Plutonium Finishing Plant, Hanford Site (Richland, WA)(CHPRC)**

- Supported the Demolition team with beginning the demolition of the Plutonium Reclamation Facility, specifically the historic McCluskey Room.
- Supported the SWO team with shipments and waste operations.
- Performed routine radiation, contamination and airborne radioactivity surveys.
- Completed daily performance/source checks on RP instrumentation.
- Ensured all personnel and materials entering and exiting contaminated boundaries did so in compliance with established procedures.

**Radiation Protection Technician (BHI Energy)**

10/2016-11/2016-**Surry Power Station (Surry, VA)**

- Performed routine radiation, contamination and airborne radioactivity surveys.
- Completed daily performance/source checks on RP instrumentation.
- Ensured all personnel and materials entering and exiting contaminated boundaries did so in compliance with established procedures.

**Radiation Protection Technician (BHI Energy)**

09/2016-10/2016-**North Anna Power Station (Mineral, VA)**

- Performed routine radiation, contamination and airborne radioactivity surveys.
- Completed daily performance/source checks on RP instrumentation.
- Ensured all personnel and materials entering and exiting contaminated boundaries did so in compliance with established procedures.

**Radiation Protection Technician (BHI Energy)**

07/2016-08/2016-**Millstone Power Station (Waterford, CT)**

- Performed routine radiation, contamination and airborne radioactivity surveys.

- Completed daily performance/source checks on RP instrumentation.
- Ensured all personnel and materials entering and exiting contaminated boundaries did so in compliance with established procedures.
- Assisted with radiation protection job coverage for eddy current testing of heat exchanger in refueling water storage tank.
- Supported loading of spent fuel casks.

#### **Radiation Protection Technician (BHI Energy)**

**04/2016-05/2016- Millstone Power Station (Waterford, CT)**

- Performed routine radiation, contamination and airborne radioactivity surveys.
- Completed daily performance/source checks on RP instrumentation.
- Ensured all personnel and materials entering and exiting contaminated boundaries did so in compliance with established procedures.
- Assisted with radiation protection job coverage for eddy current testing of steam generators.
- Performed steam generator platform surveys.
- Assisted personnel with removal of protective clothing from hot particle areas and performed open window RO -20 surveys under supervision of senior technician.

#### **Radiation Protection Technician (BHI Energy)**

**02/2016-04/2016- North Anna Power Station (Mineral, VA)**

- Performed routine radiation, contamination and airborne radioactivity surveys.
- Completed daily performance/source checks on RP instrumentation.
- Ensured all personnel and materials entering and exiting contaminated boundaries did so in compliance with established procedures.
- Issued RP instrumentation and respirators to qualified personnel.
- Assisted senior technicians with job coverage and surveys for blind flange removal in the transfer canal.

#### **Radiation Protection Technician (Yard) (BHI Energy) 10/2015-11/2015-**

**Surry Power Station (Surry, VA)**

- Performed routine radiation, contamination and airborne radioactivity surveys in RCA yard.
- Completed daily performance/source checks on RP instrumentation.



- Ensured all personnel and materials entering and exiting contaminated boundaries did so in compliance with established procedures.
- Issued RP instrumentation and respirators to qualified personnel.
- Performed survey of discharge pipe tunnel and assisted senior technician with setting up radiation and radioactive material areas.
- Escorted radioactive material to appropriate locations.
- Assisted senior technicians with the free release of radioactive material under their supervision.

**Radiation Protection Technician (BHI Energy)**

**07/2015-07/2015- Surry Power Station (Surry, VA) (3 weeks)**

- Performed routine radiation, contamination and airborne radioactivity surveys.
- Completed daily performance/source checks on RP instrumentation.
- Ensured that all personnel and materials entering and exiting contaminated boundaries did so in compliance with established procedures.
- Issued RP instrumentation and respirators to qualified personnel.
- Supported Unit 1 and Unit 2 forced outage.

**Radiation Protection Technician (BHI Energy)**

**04/2015-06/2015- Surry Power Station (Surry, VA)**

- Performed routine radiation, contamination and airborne radioactivity surveys.
- Completed daily performance/source checks on RP instrumentation.
- Ensured that all personnel and materials entering and exiting contaminated boundaries did so in compliance with established procedures.
- Issued RP instrumentation and respirators to qualified personnel.

**Radiation Protection Technician ( BHI Energy)**

**02/2015-04/2015- North Anna Power Station (Mineral, Va)**

- Performed routine radiation, contamination and airborne radioactivity surveys.
- Completed daily performance/source checks on RP instrumentation.
- Ensured that all personnel and materials entering and exiting contaminated boundaries did so in compliance with established procedures.
- Issued RP instrumentation and respirators to qualified personnel.

**Radwaste Technician (BHI Energy)**

**10/2014-11/2014- Peach Bottom Atomic Power Station (Delta, PA)**

- Assisted the Radiation Protection department with contamination control.
- Assisted work crews with the decontamination of tools and valves.

**Radiation Protection Technician (BHI Energy)**

**08/2014-10/2014- North Anna Power Station (Mineral, VA)**

- Assisted with radiation protection job coverage for Radiography.
- Performed radiation surveys for Radiography.
- Performed routine radiation, contamination and airborne radioactivity surveys.
- Completed daily performance/source checks on RP instrumentation.
- Ensured that all personnel and materials entering and exiting contaminated boundaries did so in compliance with established procedures.
- Issued RP instrumentation and respirators to qualified personnel.

**Radiation Protection Technician (BHI Energy)**

**03/2014-04/2014- Seabrook Power Station (Seabrook, NH)**

- Performed the initial steam generator bowl survey with senior technician.
- Performed steam generator platform surveys.
- Performed routine radiation, contamination and airborne radioactivity surveys.
- Completed daily performance/source checks on RP instrumentation.
- Ensured that all personnel and materials entering and exiting contaminated boundaries did so in compliance with established procedures.
- Inspected and prepared DeltaBlu suits and Powered Air Purifying Hoods prior to use.
- Issued RP instrumentation and respirators to qualified personnel.

**Radiation Protection Technician (BHI Energy)**

**01/2014-02/2014- Millstone Power Station (Waterford, CT)**

- Assisted with radiation protection job coverage for Unit 1 Reactor Coolant Pump seal replacement.

- Performed routine surveys and pre job surveys.
- Prepared survey data and notable changes to area surveyed using Viseo software program.
- Completed daily performance checks on RP instrumentation (meters, Argos, PM 7, PCM 1B).

**Radiation Protection Technician (BHI Energy) 10/2013-11/2013-**

**Surry Power Station (Surry, VA)**

- Assisted with radiation protection job coverage.
- Performed routine surveys.
- Ensured that all personnel and materials entering and exiting contaminated boundaries did so in compliance with established procedures.
- Issued RP instrumentation and respirators to qualified personnel.
- Completed daily performance checks on instrumentation.

**Radwaste Technician (BHI Energy)**

**08/2013/10/2013- Peach Bottom Atomic Power Station (Delta, PA)**

- Assisted the Radiation Protection department with contamination control.
- Assisted work crews with the decontamination of tools and valves.

**Radiation Protection Technician (BHI Energy)**

**07/2013-08/2013- Millstone Power Station (Waterford, CT)**

- Assisted with radiation protection coverage for Blackness Testing (B.A.D.G.E.R. Testing) in Unit 1 spent fuel pool.

**Radiation Protection Technician (BHI Energy)**

**03/2013-05/2013- Millstone Power Station (Waterford, CT)**

- Containment Rover for refuel outage.
- Performed and documented steam generator platform surveys.
- Assisted with radiation protection job coverage on steam generators.
- Successfully accomplished full junior RP training.

**Control Point Monitor (Dominion Nuclear)**

09/2012-11/2012- **Millstone Power Station** (Waterford, CT)

- Ensured that all personnel and materials entering and exiting contaminated boundaries did so in compliance with established procedures.

**Control Point Monitor** (Dominion Nuclear)

09/2011-11/2011- **Millstone Power Station** (Waterford, CT)

- Ensured that all personnel and materials entering and exiting contaminated boundaries did so in compliance with established procedures.

**Engineering/Maintenance/Radiation Protection Intern** Dominion Nuclear)

05/2009-11/2009- **Millstone Power Station** (Waterford, CT)

- Completed system walk downs of the secondary side of the plant (turbine building).
- Performed inspections on heat exchangers and water strainers.
- Completed valve repairs with maintenance work crews.
- Received training in health physics department during refueling outage.
- Received six sigma blue belt.

**Education:**

Northeast Utilities Fundamentals Exam- passed with 100%

DOE Core Fundamentals Exam

A.S. Nuclear Engineering Technology

Three Rivers Community College- Norwich, CT

**Courses of Study:**

Nuclear I&C, Electronics I, Intro to Circuits, Atomic & Reactor Physics, Radiation Health & Safety, Nuclear Materials Science, Reactor Theory, Fluid Mechanics/Thermodynamics, Calculus II, Heat Transfer, Nuclear Chemistry

**Achievements:**

- Granted full scholarship into the Nuclear Engineering Program sponsored by Dominion.

- Received and served a summer internship at Millstone Power Station.
- Awarded Six Sigma Blue Belt certification during my summer internship.