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Plymouth, MA 02360  
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Br. 4

August 9, 2010

Licensing Assistance Team  
Division of Nuclear materials Safety  
US Nuclear Regulatory Commission, Region 1  
475 Allendale Rd  
King of Prussia, PA 19406

03037575

RECEIVED  
10/22/2010  
8:12 AM 11:01

RE: Requested Amendment to License Number 20-20633-02

Dear Sirs:

Please find attached a request for an amendment to Item 11 (*authorized supervisors*) of License Number 20-20633-02. Our package includes a completed NRC Form 313 and other supporting documentation.

We thank you in advance for your consideration of our request, and if you have any questions or need any additional information please do not hesitate to contact me.

Regards,

Jerry W. Hiatt, CHP  
Certified Health Physicist  
Chief Technical Officer &  
Executive Vice President - ES&H  
BHI Energy  
508-591-1286  
Jerry.hiatt@bhienergy.com

573316  
NUCLEAR MATERIALS-002

## APPLICATION FOR MATERIALS LICENSE

Estimated burden per response to comply with this mandatory collection request: 4.3 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Send comments regarding burden estimate to the Records and FOIA/Privacy Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to [infocollects.resource@nrc.gov](mailto:infocollects.resource@nrc.gov), and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0120), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

**INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.**

**APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:**

OFFICE OF FEDERAL & STATE MATERIALS AND  
ENVIRONMENTAL MANAGEMENT PROGRAMS  
DIVISION OF MATERIALS SAFETY AND STATE AGREEMENTS  
U.S. NUCLEAR REGULATORY COMMISSION  
WASHINGTON, DC 20555-0001

**ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:**

**IF YOU ARE LOCATED IN:**

ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA,  
KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY,  
NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLAND, SOUTH  
CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA,  
SEND APPLICATIONS TO:

LICENSING ASSISTANCE TEAM  
DIVISION OF NUCLEAR MATERIALS SAFETY  
U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PA 19406-1415

**IF YOU ARE LOCATED IN:**

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND  
APPLICATIONS TO:

MATERIALS LICENSING BRANCH  
U.S. NUCLEAR REGULATORY COMMISSION, REGION III  
2443 WARRENVILLE ROAD, SUITE 210  
LISLE, IL 60532-4352

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS,  
LOUISIANA, MISSISSIPPI, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH  
DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS,  
UTAH, WASHINGTON, OR WYOMING, SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING BRANCH  
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
612 E. LAMAR BOULEVARD, SUITE 400  
ARLINGTON, TX 76011-4125

**PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTIONS.**

**1. THIS IS AN APPLICATION FOR (Check appropriate item)**

- ☐ A. NEW LICENSE
- ☒ B. AMENDMENT TO LICENSE NUMBER 20-20633-02
- ☐ C. RENEWAL OF LICENSE NUMBER \_\_\_\_\_

**2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)**

Bartlett Holdings, Inc  
60 Industrial Park Rd.  
Plymouth, MA 02360  
ATTN: Jerry W. Hiatt, CHP

**3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED**

Temporary job locations at client sites

**4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION**

Jerry W. Hiatt

TELEPHONE NUMBER

(508) 591-1286

SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

**5. RADIOACTIVE MATERIAL**

- a. Element and mass number; b. chemical and/or physical form; and c. maximum amount  
which will be possessed at any one time.

**6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.**

**7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR  
TRAINING EXPERIENCE.**

**8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.**

**9. FACILITIES AND EQUIPMENT.**

**10. RADIATION SAFETY PROGRAM.**

**11. WASTE MANAGEMENT.**

**12. LICENSE FEES (See 10 CFR 170 and Section 170.31)**

FEE CATEGORY                      AMOUNT                      \$  
ENCLOSED

**13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.**

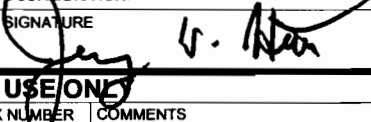
THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 39, AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 62 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

**CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE**

Jerry W. Hiatt, Executive Vice President ES&H

**SIGNATURE**



**DATE**

08/09/2010

**FOR NRC USE ONLY**

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	

**EXECUTIVE SUMMARY**

Due to organizational changes Bartlett Holdings, Inc. respectfully requests the following amendment to *Item 11, Licensed material shall be used under the supervision of ...* for the issued License Number 20-20633-02:

**Current reading** of Item 11:

"Licensed material shall be used by, or under the supervision of, Bruce Dionne, Jerry Hiatt, Jeff Thompson, Ron Worster, Nick DiMascio, and Fred Campbell."

**Requested Amendment of Item 11** (requested change shown in *parenthesis*):

Licensed material shall be used by, or under the direction of, Jerry Hiatt, Nick DiMascio, Fred Campbell, *Joseph Bisson, David Montt (CHP), James (Butch) Smith, and Chris Wend.*

The qualification of these individuals is shown below, using Section 7 from NRC Form 313 as the template. Full resumes of each individual are included within Attachment 1, "*Resumes of Requested Authorized Users.*"

Please note that all other section of the License would remain unchanged.

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**7. Individual Responsible for Radiation Safety Program and their Training Experience****7.2 Authorized Users**

The following experienced individuals are proposed as Authorized "Supervisors" of this license: (NOTE: complete resumes of newly proposed individuals are also contained within Attachment 1)

Mr. Jerry Hiatt, CHP: Mr. Hiatt is Board Certified by the American Board of Health Physics and has 35 years of experience in the nuclear power industry, including three years of experience as an USNRC inspector. Mr. Hiatt possesses a B.S. degree in Biology (with a health physics option) from Virginia Polytechnic Institute and State University.

Mr. Nick Dimascio Mr. Dimascio has 35 years of experience in radiation safety and has served as a Radiation Protection Manager per USNRC Regulatory Guide 1.8 at two commercial nuclear power stations. In this capacity, Mr. Dimascio was responsible for the control of all radioactive material and associated personnel activities at the facilities (including multiple check and calibration sources.) Mr. Dimascio has also earned a B.S degree in Radiological Health Physics from the University of Massachusetts – Lowell.

Fred Campbell, RRPT Mr. Campbell has over 29 years of applied radiation safety experience and has managed/supported numerous projects including the decommissioning of a



commercial nuclear power plant, the decommissioning of a government reactor, and various support roles at 4 steam generator replacement projects. While contracted to the Department of Energy, Mr. Campbell provided health physics support at various nuclear facilities including a plutonium finishing plant, uranium/oxide recovery plant, high level waste storage areas, and a plutonium/uranium extraction plant. Mr Campbell is a Nationally Registered Radiation Protection Technologist with safety, instrumentation and hazardous material training.

**Joseph Bisson** *Mr. Bisson has more than 25 years experience in the nuclear industry, including over 15 years providing combined engineering support for effluent, environmental, and ground water monitoring programs. His experience includes program assessments, implementation, QA surveillance, and data reviews, management, and interpretations. In recent years, Mr. Bisson has conducted NEI 07-07 compliance assessments for ground water protection programs at Three Mile Island and Salem and Hope Creek Generating Stations. Other ground water experience includes reviews of SSC risk assessments, providing recommendations for implementing GWPP, and GWPP procedure development. In addition, he has provided training on implementation of effluent and environmental monitoring programs and for radiological ground water protection programs and has performed effluent monitoring software verification testing.*

*Mr. Bisson earned BS and MS Degrees in Microbiology from the University of Rhode Island and an MS Degree in Radiological Science and Health Protection from the University of Massachusetts – Lowell.*

**David Montt, CHP** *Mr. Montt is Board Certified by the American Board of Health Physics and has over 25 years of experience in the nuclear industry, including 15 years managing operational and decommissioning commercial nuclear plant RETS and REMP programs. Mr. Montt's RETS/REMP program management experience at operating nuclear power. In addition, Mr. Montt originated the designed and managed the turbine building (TB) modification project that channeled several release points into one and monitored releases for tritium and particulates from the TB. He also re-designed, and was the project manager for the post accident gaseous effluent monitoring system installation that was completed for 90% savings over the next lowest cost vendor proposal approved by the engineering department. He initiated, developed and implemented ISFSI facility modeling and monitoring for gamma and neutron exposure, for one year prior to fuel transfer and continuing to the present.*

*Mr. Montt earned a BS Degree (Chemistry Concentration) from Clarkson College; an MS in Health Physics and Industrial Hygiene from Harvard University; and an MS in Chemical Engineering from Yale University.*

**James (Butch) Smith:** *Mr. Smith has more than 29 years of applied radiation safety experience including providing management and "hands on" support for operating commercial nuclear power stations, DOE facilities, and multiple decontamination & decommissioning (D&D) projects. Mr. Smith support for D&D projects includes developing entire radiation safety programs, and providing ALARA assessment, and in-field supervision for projects including the D&D of test reactors, laboratories, and DOE facilities.. Mr. Smith has extensive experience managing and performing final site surveys in compliance with MARSSIM standards.*



*Mr. Smith has achieved registration as a Radiation Protection Technologist with the National Registry of Radiation Protection Technologist (NRRPT.)*

**Chris Wend**      *Mr. Wend has more than 25 years of radiation safety experience and has supported the commercial nuclear power industry, fuel cycle facilities, and the US Navy. Mr. Wend's accomplishments including serving as the Radiation Protection Manager at the Pilgrim, Indian Point, and Three Mile Island commercial nuclear power stations and as the Radiation Protection Manager at the Portsmouth Gaseous Diffusion Plant. He was also the Training Manager at the TMI Station and earned a Senior Reactor Operator license at the Pilgrim Station. Other radiation protection experience includes positions as a radiation protection supervisor, radiological engineer, and ALARA specialist. He has supported multiple steam generator replacement projects & other complex radiation safety challenging project.*



***Bartlett Holdings, Inc.***

***Byproduct Material License #20-20633-02 Amendment***

## **Attachment 1**

# **Resumes of Requested Authorized Users**



## **Joseph W. Bisson**

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### **Education**

Year - 1984 University of Lowell  
MS, Radiological Science and Health Protection  
Year - 1978 University of Rhode Island  
MS, Microbiology  
Year - 1974 University of Rhode Island  
BS, Microbiology

### **Certifications**

Hazardous Waste Management Certificate, UMASS-Lowell, 1999  
Environmental Technology Certificate, UMASS-Lowell, 1998

### **Professional Experience**

2/08 - **Bartlett Nuclear, Inc.**  
Present Senior Radiological Engineer

Drafted Annual Radiological Effluent Release Report; responsibilities included data collection, review, and verification, dose calculations, and written report. Provided training on effective implementation of effluent and environmental monitoring programs and ground water protection programs to utility personnel.

Conducted assessments of effluent and environmental monitoring programs and performed NEI 07-07 assessments for radiological ground water protection programs.

Drafted LTP chapter for compliance with radiological criteria for license termination.

Provided technical oversight for a DCGL development project. Performed sensitivity analyses using the RESRAD computer codes to support development of building surface and soil DCGLs for the Fermi 1 site. Responsibilities included exposure scenario selection; reviewing, prioritizing, classifying, and selecting values for input parameters; identifying data gaps; performing and documenting RESRAD code executions; evaluating results, technical reviews of RESRAD executions performed by co-workers, identifying sensitive input parameters, and recommending appropriate values for sensitive input parameters.

Supported decommissioning of a research laboratory at the University of CA-Berkeley. Responsibilities included sampling plan development and review, logistics coordination, site preparation, sampling plan implementation, evaluation



of analytical data, fieldwork oversight, and waste broker selection, and coordination of waste removal activities.

Provide corporate office support for several D&D projects.

7/03-2/08-

**C.N. Associates, Inc.**

**Health Physicist/Radiological Engineer**

Participated in drafting industry reports issued through EPRI.

Reconstructed occupational (external and internal) doses for energy employees qualified under the Energy Employees Occupational Illness Compensation Program Act. Dose reconstruction work was performed for the Oak Ridge Associated Universities Team Dose Reconstruction Project for the National Institute for Occupational Safety and Health. Responsibilities included review and verification of dosimeter and bioassay (in vivo and in vitro) data, determination of intakes based on bioassay data, calculation of external and internal doses, determining a probability of causation for illness, and report development.

Final status survey (FSS) engineer at decommissioned nuclear power site; experience includes: FSS procedure development, technical support document development, characterization survey designs for concrete structures and soil areas, final status survey design, survey implementation oversight, survey data review and validation, and assuring that FSS procedures, technical support documents, survey plans, survey implementation, and data quality comply with the site's LTP and MARSSIM guidance.

Dose modeling experience to support FSS program and license termination: performed site-specific dose modeling using the RESRAD computer code; performed sensitivity analyses for parameters used in internal and external dose calculations; performed DCGL calculations, provided technical reviews for dose parameter bases and DCGL calculations; participated as a member of technical support team responsible for presenting the dose modeling approach and parameter selection to regulators.

4/02-7/03

**Framatome-ANP**

**Scientist**

Responsibilities and experience includes: calculations of annual doses from radioactive material in gaseous and liquid effluent; calculations for inhalation, ingestion, and external dose conversion factors for ODCMs; modifications of ODCM equations for calculating internal and external doses; dose assessment training to state and utility emergency response personnel, development of environmental impact report sections to support siting of a uranium enrichment facility, and performing radiological waste characterization and classification calculations.





**12/97-3/02 Duke Engineering & Services**

Served as a Technical Advisor during a project for recovery of radioactive material from private residences - responsibilities included providing resolutions to technical, radiological survey and programmatic issues.

Provided technical oversight for FSS group - reviewed survey data and coordinated fieldwork.

Provided support for D&D projects - performed waste characterization and classification calculations for large reactor components; developed characterization survey plans; evaluated characterization survey data.

**1/96-11/97 Yankee Atomic Electric Company**

**Senior Radiological Engineer**

Member of a Quality Assurance oversight group supporting decommissioning activities at a nuclear power plant site; duties included:

- Conducting daily QA surveillance and inspections of Radiation Protection and Health & Safety programs,
- performed 29CFR1910 compliance reviews for the asbestos and lead programs.

Performed waste characterization and classification calculations and prepared shipping papers for radioactive waste shipments.

Provided emergency response dose assessment support to state and utility response personnel.

Conducted audits of radioactive waste programs and effluent & environmental monitoring programs

**7/89-1/96 Yankee Atomic Electric Company**

**Senior Engineer**

Calculated annual internal and external doses from radioactive material in gaseous and liquid effluent.

Developed inhalation and external dose algorithms for an emergency response dose assessment computer program; verified and validated emergency response dose assessment software; and provided training to state and utility users of the code.

Performed effluent monitoring software verification testing, and compared and evaluated atmospheric dispersion and dose assessment models.

Performed safety evaluations for storage of low-level radioactive waste, and conducted audits of effluent and environmental monitoring programs.

**9/87-7/89 Impell Corporation**

**Technical Specialist**



Developed technical affidavits to support licensing hearings for a utility-sponsored emergency response plan and organization; areas of responsibility included radiological assessments, personnel monitoring and decontamination, and radioactive waste confinement and disposal.

Developed accident scenario packages to support radiological emergency response drills, and served as a controller and as a player in radiological emergency response exercises and drills.

8/85-9/87 **Impell Corporation**

**Senior Engineer**

Served as the lead for a radiological emergency response procedure development group - duties included schedule maintenance, task assignments, and procedure development and review. Additional responsibilities included working with federal and state agency representatives on radiological emergency response issues.

9/83-8/85 **Impell Corporation**

**Principal Engineer**

Developed emergency response exercise scenario packages, performed general radiological engineering analyses, prepared lesson plans, and provided training in health physics and radiological assessment to utility personnel.

9/79-9/81 **Miriam Hospital**

**Quality Assurance Technologist**

Conducted laboratory research to identify and characterize plasmid-determined enzymes. Responsibilities included experimental design, data management, oversight and training of technicians, and performing specialized quality control tests.

5/74-9/78 **U.S. Environmental Protection Agency**

**Microbiologist**

Developed and evaluated methods for quantifying bacteriological indicators of pollution in environmental water. Responsibilities included method development, water sampling and analyses, data management, peer training and epidemiological study support

## **PROFESSION DEVELOPMENT/TRAINING**

Implementing the MARSSIM Approach for Design and Conduct of Radiological Surveys  
Environmental Regulations

Hazardous Material Transportation: Mandates & Compliance

Health and Safety Training for Hazardous Waste Operations (HAZWOPER)

Occupational Safety and Health Administration (OSHA) 501: Voluntary Compliance



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in Safety and Health

***OSHA 521: Voluntary Compliance in the Industrial Hygiene Area***

Radioactive Waste Packaging, Transportation and Disposal

Environmental Site Assessment & Compliance Audits

**PROFESSIONAL AFFILIATIONS/CERTIFICATIONS**

Health Physics Society, Member



## David A. Montt, CHP

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### PROFESSIONAL SUMMARY

Mr. Montt has more than 25 years of experience in the nuclear, chemical, medical, and environmental recycling fields. He is experienced in nuclear chemistry, radiochemistry, and polychlorinated biphenyl (PCB) screening laboratory set up and management, radiation protection, industrial process safety, equipment qualification (EQ), health physics, industrial hygiene, radiological [Radiological Effluent Technical Specification (RETS)/Radiological Environmental Monitoring Program (REMP)] and nonradiological environmental [Resource Conservation and Recovery Act (RCRA)/Superfund Reauthorization and Amendments Act/Toxic Substances Control Act (TSCA)/National Pollutant Discharge Elimination System (NPDES)/Title V air permits] program development and administration, and project management. He has qualified as a Radiation Protection Technician and Supervisor (written and oral boards) and as a Chemistry Technician, and is board certified in health physics.

### EXPERIENCE AND ACCOMPLISHMENTS

#### PRESENT POSITION

September 2009-Present      *Bartlett Nuclear, Inc.*

*Buried Piping and SEPIS Project Manager, Senior Radiological Engineer*

Mr. Montt performs assessments for monitored and unmonitored effluent release paths in accordance with R.G 1.21 (June 2009), and on site radiochemistry and environmental laboratory assessments for utility client RETS, REMP and GWPP programs. He has conducted assessments of utility laboratories, and revised and updated utility laboratory procedures on tritium, gross alpha and gross beta analysis in water and environmental samples in support of meeting REMP and State Drinking Water Certification and other objectives. Mr. Montt is the project manager for the EPRI initiative on Buried Piping in support of utility clients, and the Subsurface Embedded Piping and Inspection System (SEPIS) developed by Bartlett to support decommissioning (FSS) and operating nuclear plants (buried/imbedded piping, storm drain and ground water protection initiatives), and recently attended the EPRI conference on Subsurface Embedded Piping where EPRI requested Bartlett present a paper at the next conference in August 2010. This system is designed to meet the needs of utility clients in support of NRC, ANI, NEI and EPRI requirements and guidelines

2006 – August 2009      *Dade Moeller & Associates, Inc.*

Mr. Montt co-authored the draft of the technical basis document for NRC Regulatory Guide 4.16, "Technical Basis for Regulatory Guide 4.16 (Rev. 1), Revising Monitoring and Reporting Radioactivity in Releases of Radioactive Materials in Liquid and Gaseous Effluents from Nuclear Fuel Processing and Fabrication Plants and Uranium Hexafluoride Production Plants." He co-developed and presented an on-site all week RETS/REMP training program for plant, licensing, laboratory personnel, corporate managers and executives for a large nuclear utility to support an internal corporate transition of program ownership.



As Chemistry Manager, Mr. Montt was responsible for sample preparation facilities, the radiochemistry laboratory, and the onsite PCB immunoassay screening laboratory. Additional responsibilities included RETS/REMP personnel, ground water monitoring radiochemical analysis and program support, and supported non-radiological field sampling. Mr. Montt was also responsible for regulatory compliance and program execution of all onsite water processing and effluent discharges. He was a member of the Management Review Team and the Independent Review and Assessment Committee.

Following site reorganization to split the organization into Final Status Survey development and demolition operations, Mr. Montt became Chemistry and Radiation Protection Manager, retaining all his previous responsibilities. In addition, he assumed responsibility for all onsite water processing and release discharges in accordance with the Yankee Decommissioning Quality Assurance Program (all technical specification and license requirements except those governing Independent Spent Fuel Storage Installation operations), Off Site Dose Calculation Manual (ODCM), and Yankee's NPDES Permit, which was revised and reissued in July 2003 to accommodate rapidly changing plant conditions and system availability during decommissioning of the plant, including the need to discharge radiological effluents to storm drains.

Mr. Montt was the Chemistry Contact for the U.S. Nuclear Regulatory Commission (NRC); Massachusetts Department of Public Health, Radiological Division; Massachusetts Department of Environmental Protection; and local town officials. He directed a major upgrade of a Sample Preparation facility to improve sample processing flow through the Chemistry Laboratory, nearly quadrupling shift production in support of groundwater, radiological effluents and FSS. He managed 25 full-time, part-time, and shared professional and technical personnel.

He was the Project Manager for the decontamination, water processing, and direct discharge of 150,000 gallons of spent fuel pool water to Sherman Pond in preparation for the demolition of the Spent Fuel Pool Building, including a major upgrade to the effluent permitting process. He managed 15 professional and technical personnel.

As Chemistry and Radiation Protection Manager, Mr. Montt was responsible for radiochemistry, RECP and REMP, ISFSI Monitoring Program, and FSS development. He directed two major revisions to the Offsite Dose Calculation Manual (ODCM) to accommodate significant effluent release pathway changes as facilities were decommissioned and demolished, adding a high degree of flexibility to support rapidly changing conditions. He conceived and drafted new protocols and methodologies for processing and managing liquid plant waste streams and contaminated ground water in leakage for upcoming plant system decommissioning and demolition, and incorporated these in the NPDES permit renewal, ODCM, and Yankee Decommissioning Quality Assurance Plan.

2000 – 2003

*Connecticut Yankee & Yankee Nuclear Power Stations*

As Chemistry and Environmental Oversight Lead, Mr. Montt was responsible for spent fuel pool chemistry, ISFSI mathematical modeling and radiation monitoring, on and offsite radiological environmental measurements/monitoring program, spent fuel operations effluent monitoring, plant chemistry system performance, chemistry laboratory operations and oversight of contractor operations at Connecticut Yankee and Yankee Rowe, two decommissioning nuclear plants governed by the same Board of Directors.



Following the upgrade of all Chemistry and Environmental programs, Mr. Montt became Chemistry and Environmental Department Manager. Mr. Montt prepared the requests for proposal for turnkey REMP services from three vendors to support both Connecticut Yankee and Yankee Rowe Nuclear Power Plants, evaluated the proposals, selected the vendor and managed the transition for both plants over a one year period.

1998 – 1999

*Duke Engineering & Services*

Mr. Montt was the Environmental Chemistry Project Manager, responsible for the comprehensive upgrade and streamlining of Connecticut Yankee Chemistry, Environmental, and RETS/REMP/ODCM programs to ensure compliance with Federal and State of Connecticut regulations and in preparation for program turnover to the Decommissioning Operations Contractor. Program development and upgrades involved extensive procedure revisions for the Plant Chemistry, NRC IE Bulletin 80-10, Title V Air, RCRA, TSCA, Non Transient Non Community Drinking Water, NPDES, RETS/ODCM, and Chemical Control programs.

1997 – 1998

*Duke Engineering & Services*

1996 – 1997

*Molten Metal Technology*

1989 - 1996

*Boston Edison Company*

As Chemistry Division Manager, Mr. Montt substantially improved plant performance in primary and secondary water chemistry optimization and plant safety while reducing effluents and improving standing with regulators and the public. He:

- Moved plant chemistry performance from the bottom half to the top 20% in the first year in terms of effluents released.
- Moved the RETS/REMP program to the best in Region I and one of the best in the country as outlined in a 1995 NRC report.
- With Radwaste, reduced the volume of liquid discharges offsite to less than 10% of the previous year.
- Employed predictive and preventive methods to flag potential system anomalies, avoiding expensive reprocessing of high-quality water, safety problems, and releases to the environment.

As Principal Chemical Engineer, Mr. Montt conceived, initiated, and managed the gaseous effluent monitoring upgrade project through approval by Board of Directors and capital authorization (\$1.2M); developed, assembled, and completed all V& V documentation for software used to support all levels of department activities; and served as Project Manager for chemistry, radioactive waste, environmental, radiation protection, refueling outage, and safety-related projects.

He designed and directed the fabrication and installation of a regulatory-mandated emergency gaseous effluent sampling system to collect highly radioactive samples in sequence following a design basis nuclear accident that virtually eliminated worker exposure to radiation, provided for collection of critical postaccident plant assessment data, and reduced design, fabrication, and installation costs from \$320K



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(for a vendor design originally accepted) to under \$50K. He provided oversight and support for the radiological environmental effluents and hazardous materials shipping and receipt programs in response to regulatory scrutiny.

1984 – 1989

*General Electric Company*

As Supervisor of Radiation Protection and Monitoring at the Knolls Atomic Power Laboratory, Mr. Montt supported environmental monitoring, radiochemistry and he received a KAPL Inventor award for developing an effluent stack monitoring innovation that was selected for patent application.

## **EDUCATION/QUALIFICATIONS**

M. S., Chemical Engineering, Yale University, 1988

M. S., Health Physics & Industrial Hygiene, Harvard University, 1982

B. S., Biology (Chemistry Concentration), Clarkson College, 1978

Certified by the American Board of Health Physics in Comprehensive Practice, 1992, (re-certified thru 2012)

ASP & IHIT equivalent certified (preparing for part II exams for CSP and CIH)

Institute for Nuclear Power Operations (INPO) Chemistry Peer Evaluator 1993

Internally Certified Trainer and Instructor Yankee Atomic 2002-2006, Connecticut Yankee 2000-2002, and

Pilgrim Nuclear Power Station 1995-1996

## **AWARDS AND PROFESSIONAL AFFILIATIONS**

KAPL Inventor Award, 1987

NIOSH Fellow, 1980–1982

Presidential Scholar, 1976–1978

Gamma Sigma Epsilon, Honorary Chemistry Society, 1976

Thomas Eastman Memorial Scholarship, 1974

American Chemical Society, 2003 – present

American Board of Health Physics, 1992 to present

Health Physics Society, 1992 to present

## **PUBLICATIONS/PAPERS**

Hydrogen Water Chemistry, GE BWR Conference - 1993

Electrolytic H<sub>2</sub> Generator at Pilgrim Station, GE BWR Conference – 1994

Chemical Control using a PC Based Issuance and Control System – INPO 1995

Double Counting Gaseous Tritium Effluents at Connecticut Yankee – RETS/REMP Workshop 2001

Experience Using Turnkey RETS/REMP Vendors for Station Programs – RETS/REMP Workshop 2003

Processing and Direct Discharge of the SFP Water at the Yankee Rowe Plant – RETS/REMP Workshop 2007

Dose Modeling and Monitoring the ISFSI at Yankee Rowe; 2001 to 2006 – RETS/REMP Workshop 2007

Chemistry Opportunities at Decommissioning Commercial Nuclear Plants – RETS/REMP Workshop 2007

Optimizing Radiochemistry Lab Performance in Decommissioning – RETS/REMP Workshop 2008



## Chris Wend

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### Professional Summary

Experienced radiation protection manager with a history of improving both radiation protection departments and other site organizations.

### Work History

May 2010 to present, President, Bartlett Nuclear, Inc.

2008 to 2010, Site Training Manager, US Commercial PWR.

Job Responsibilities: Responsible for the management and oversight of all site accredited and non-accredited training programs. Recent successful Operations training accreditation renewal. INPO 1 plant.

2005 to 2008, Site Radiation Protection Manager, US commercial PWR

Job Responsibilities: Responsible for all aspects of the site radiation protection program. RPM for site's lowest CRE outage and top decile CRE performance.

2003 to 2005, Site Radiation Protection Manager, US commercial dual unit PWR

Job Responsibilities: Responsible for all aspects of the site radiation protection program. Responsible for merging two different radiation programs resulting in a unified RP organization compliant with company standard processes. RPM for lowest CRE outages on both units.

2001 to 2003, Control Room Supervisor (CRS) US commercial BWR

Job Responsibilities: Obtained NRC Sr. Reactor Operator license at the request of station management. Responsible for direction and oversight of power reactor operations while on shift as CRS.

1999 to 2001, Site Radiation Protection Manager, US commercial BWR

Job Responsibilities: Responsible for all aspects of the site radiation protection program. RPM for lowest CRE outage in station history. Rose from 4th quartile to 1st quartile in CRE.

1998 to 1999, Sr. Radiological Engineer, US commercial BWR

Job Responsibilities: Provided technical support for all aspects of the site radiation protection program.

1997 to 1998, Facility Operations Manager, US Gaseous Diffusion Plant

Job Responsibilities: Responsible for the safe operation of all aspects of a 55 acre uranium enrichment process building in the heart of the gaseous diffusion cascade.

Positions Prior to 1997: served as radiation protection supervisor and radiological engineer at multiple facilities. Held key radiation protection management position in multiple steam generator replacement projects as well as other significant retrofit projects.

Veteran of US Navy Nuclear Power Program with honorable discharge





## **James R. Smith (Butch), RRPT**

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### **Professional Summary**

Mr. Smith has over twenty-seven years of Management and Supervision in the Nuclear and Deconstruction Industry. Positions of Director of Operations, Project Manager, Site Manager, Radiation Protection Supervisor, Radiation Protection Foreman, ALARA Planner, Senior Health Physics, and Decontamination and Demolition Supervisor have been successfully implemented during his tenure in the Nuclear and Deconstruction field. Highly skilled in various disciplines enables diversified management in this Industry.

### **Career Summary**

Director of Operations, Federal Division - Bartlett Services, Inc.

Responsible for the overall operation of all government projects in the eastern region while maintaining knowledge of and experience in the technical elements, processes and activities of the particular project.

Project Manager / Radiation Protection Foreman

U of M FNRDP- Responsible for the overall development, implementation, training, and project cost tracking, schedule development, work package approval and management oversight for all D&D and Radiation Protection activities for the FNRD project.

Project Manager / Radiation Protection Supervisor

AVLIS D&D Project, LLNL responsible for the overall development, implementation, training, project cost, schedule development, work package approval and management oversight for all D&D and Radiation Protection activities for the AVLIS D&D project.

Bartlett Lead Shift Supervisor /Assistant Project Manager responsible for the over all oversight and management of the day-to-day FSS activities at Buildings K-31 and K-33, ETTP Site during the largest D&D Project in the country. Oversight of varied construction trades and craft personnel and direct management of same. Provided procurement and equipment specifications, material disposition, schedule, budget, cost tracking and contract management. Responsible for the Safety and Environmental compliance issues maintained to site requirements.

In House Radiation Protection Supervisor over the Control Rod Drive Replacement Outage where all 45 control Rod Drive Housings on the Reactor Head were removed and replaced. Responsible for direct report of fourteen Senior RP technicians

Radiation Protection Crew Lead responsible for Supervising Radiation Protection personnel supporting operations and work crews of the operating nuclear unit. Responsible for direct report of nineteen senior RP technicians.



Radiation Protection Crew Lead responsible for Supervising Radiation Protection personnel in support of Refueling and Maintenance Outages.

Lead Alara Planner for Refueling Floor Activities responsible for the Alara planning, Man-hour and dose estimates, Radiation Work Permits and Alara Post Job critiques, Alara, High Radiation, Pre Job and infrequently performed evolutions briefing facilitator.

Source Control Subject Matter Expert responsible for revising and writing specific procedures and work instructions for compliance with 10 CFR 20, 10 CFR30, 10 CFR 40, 10 CFR 70 and Technical Specifications for the issuance, handling, leak check and inventory requirements of Radioactive Sources at the Cooper Nuclear facility.

Performed various self assessments of Radiation Protection Procedures and Technical Specification at Palisades and Cooper Nuclear as well as participated in outside utility benchmarking and assessment activities at neighboring Nuclear Facilities. Participated in site audits performed by federal and state regulators.

Performed Radiation Protection Training for Mechanical Maintenance, Operations and Westinghouse Refueling Teams. Performed Procedure hold point insertion for Radiation Protection High Risk evolutions in outside departmental procedures.

Responsible for the design, development and implementation of the Radiation Protection “Just in time” training classes associated with Radiological High Risk evolutions associated with Commercial Nuclear Power Plants.

Performed Radiation Protection Job Coverage and training of Radiological high risk evolutions including; Reactor Head disassembly / reassembly, In core instrumentation removal / reinsertion, Reactor Head O-ring removal, Reactor vessel ISI, Reactor vessel Core Barrel removal / replacement and ISI, RCP removal / replacement, Steam Generator coverage, RWCU impeller removal / replacement, RWCU heat exchange diaphragm replacement, Tip indexer work activities, Underwater diver activities in the Rx Vessel for secondary nozzle dam insertion / removal, Underwater diver activities in the Spent Fuel Pool for up ender repairs, and Underwater diver for torus penetration inspections, Radiography coverage. Performed all routine Radiation Protection activities associated with outage and on-line operations at commercial power plants.

Facilitator of Human Performance Error Evaluations associated with the Radiation Protection department Palisades Nuclear Station

### **Education**

Graduated from Atkins High School, Atkins, AR 1980  
Arkansas State University "A"CDL Certification



## **Qualifications and Certifications**

- Nebraska Public Power and Consumers Energy Corporation: Health Physics Certification
- NRRPT-National Registry of Radiation Protection Technologists
- Energy Institute of Nebraska, Supervisory Development Phase 1 and Phase 2
- Westinghouse Electric Company, Reactor and Plant Systems Certification
- General Electric Corporation, Reactor and Auxiliary Plant Systems Certification
- Member of the Confined Space Rescue Team
- Member of the First Responder Emergency Team
- Member of the Emergency Response Organization
- Stand Alone Radiation Protection Shift Technician Palisades, Cooper
- Subject Mater Expert Qualification, NPPD
- Train the Trainer” Qualification, NPPD and CEPC
- DOT Rad Material Shipping Course
- 40 Hour Hazardous Waste Operations and Emergency Supervisor Response Training
- 8 Hour Hazardous Waste Operations and Emergency Response Training
- 10 Hour OSHA Occupational Safety & Health Training Course - Construction Safety and Health
- PMI-Project Management Training Course

This is to acknowledge the receipt of your letter/application dated

8/9/10, and to inform you that the initial processing which includes an administrative review has been performed.

- ☒ Amendment (20-20633-02) There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

- ☐ Please provide to this office within 30 days of your receipt of this card

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 573316.  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.